Aperiomics

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Dedication

There are far too many authors to thank for this book, since I conceived the theory of Aperiomics in 1989 I have devoted much of my life to compiling evidence for it, reading countless thousands of books and articles. To paraphrase Newton, I developed this theory by climbing onto the shoulders of thousands of giants to see a little further than them, only to find they were all looking at different parts of the same reality.

TABLE OF CONTENTS

[Introduction 7](#_Toc284160705)

[The Twelve Principles 14](#_Toc284160706)

[The color codes 17](#_Toc284160707)

[Red 17](#_Toc284160708)

[Red Orange 17](#_Toc284160709)

[Orange 18](#_Toc284160710)

[Orange Yellow 18](#_Toc284160711)

[Yellow 19](#_Toc284160712)

[Green 21](#_Toc284160713)

[Green Blue 22](#_Toc284160714)

[Blue 23](#_Toc284160715)

[Blue Indigo 23](#_Toc284160716)

[Indigo 23](#_Toc284160717)

[Indigo Violet 24](#_Toc284160718)

[Violet 25](#_Toc284160719)

[Color Codes in Nature 27](#_Toc284160720)

[Roy Color codes 27](#_Toc284160721)

[Red 27](#_Toc284160722)

[Red Orange 32](#_Toc284160723)

[Orange 39](#_Toc284160724)

[Orange Yellow 41](#_Toc284160725)

[Yellow 42](#_Toc284160726)

[The resource color codes 45](#_Toc284160727)

[Green 45](#_Toc284160728)

[Green Blue 46](#_Toc284160729)

[Biv Color Codes 46](#_Toc284160730)

[Blue 46](#_Toc284160731)

[Blue Indigo 47](#_Toc284160732)

[Indigo 48](#_Toc284160733)

[Indigo Violet 49](#_Toc284160734)

[Violet 50](#_Toc284160735)

[Primitive Societies 54](#_Toc284160736)

[Introduction 54](#_Toc284160737)

[The Roy Group 54](#_Toc284160738)

[Red 54](#_Toc284160739)

[Red Orange 57](#_Toc284160740)

[Three Red Orange Red Types 59](#_Toc284160741)

[Type One 59](#_Toc284160742)

[Type Two 60](#_Toc284160743)

[Type Three 61](#_Toc284160744)

[Orange 62](#_Toc284160745)

[Three Orange Types 66](#_Toc284160746)

[Type One 66](#_Toc284160747)

[Type Two 67](#_Toc284160748)

[Type Three 67](#_Toc284160749)

[Three Yellow Orange Yellow Types 71](#_Toc284160750)

[Type One 71](#_Toc284160751)

[Type Two 71](#_Toc284160752)

[Type Three 72](#_Toc284160753)

[The Green Blue Green Group 72](#_Toc284160754)

[The Biv Group 76](#_Toc284160755)

[Blue 77](#_Toc284160756)

[Blue Indigo 78](#_Toc284160757)

[Three Blue Indigo Blue Types 80](#_Toc284160758)

[Type One 80](#_Toc284160759)

[Type Two 81](#_Toc284160760)

[Type Three 82](#_Toc284160761)

[Indigo 83](#_Toc284160762)

[Three Types of Indigo 84](#_Toc284160763)

[Type One 84](#_Toc284160764)

[Type Two 84](#_Toc284160765)

[Type Three 85](#_Toc284160766)

[Violet Indigo Violet 88](#_Toc284160767)

[Three Violet Indigo Violet Types 89](#_Toc284160768)

[Type One 89](#_Toc284160769)

[Type Two 90](#_Toc284160770)

[Type Three 90](#_Toc284160771)

[Violet Red 91](#_Toc284160772)

[Advanced Societies 93](#_Toc284160773)

[The Roy Group 94](#_Toc284160774)

[Red 94](#_Toc284160775)

[Red Orange 140](#_Toc284160776)

[Orange 157](#_Toc284160777)

[Orange Yellow 168](#_Toc284160778)

[Yellow 177](#_Toc284160779)

[The Green – Green Blue Group 189](#_Toc284160780)

[Green 190](#_Toc284160781)

[Green Blue 194](#_Toc284160782)

[The Biv Group 198](#_Toc284160783)

[Blue 198](#_Toc284160784)

[Blue Indigo 217](#_Toc284160785)

[Indigo 231](#_Toc284160786)

[Indigo Violet 237](#_Toc284160787)

[Violet 241](#_Toc284160788)

[Marginal societies 249](#_Toc284160789)

[About the Author 657](#_Toc284160790)

# Introduction

Aperiomics is the name I gave to a theory I developed in 1990. It is composed of two Latin words, Aperio which means to reveal or make clear, and omics which refers to a field of study. The name means studying the interactions between living things, also revealing the hidden side to these such as deception and secrecy in society. The theory is a mathematical system based on musical tones or colors that underpins all kinds of interactions between animals, people, institutions, companies, etc. In its current form it is not a philosophy that favors the left or right, or even one that advocates any particular policy. Understanding Aperiomics is more like being a biologist or game keeper in a wildlife park who observes the laws of nature but doesn’t interfere with how it operates. For example scientists might monitor wildlife in Africa but generally they don’t take the side of the lion against the zebra, or vice versa. Aperiomics is like this, it picks no sides and from this detached position many processes in society become apparent that previously were hidden by a biased ideological position.

It has taken a long time to develop, about twenty one years so far and involved the reading and referencing of many thousands of books of different sciences. In its initial stages I developed most of this theory but some of the finer points required massive amounts of reading and deduction, it might have been publishable as early as 1994 but not to the level of accuracy I aspired to. Because the system explained here is so complicated it took this long to evaluate it properly, also to make sure it wasn’t just some coincidental pattern brought about by the biases of some books I read at the beginning. For the last twenty one years I have been evaluating all the current events I could as well as reading in the different sciences that deal with the interactions between living things to see if anything occurred that contradicted this system. Nothing has, which eventually gave me the courage to publish this book. In addition this ultra-cautious approach has allowed me to fill in the information that works along with this system far more comprehensively, when reading in the various sciences it is all too easy to form a wrong or incomplete impression and it was necessary to keep researching to avoid this as possible. It is inevitable however that I have failed in some areas because of the sheer amount of information, the deceptive nature of much of this information due to the human tendency to conceal and exaggerate for gain, and perhaps a lack of mental abilities at times.

I hope to make several volumes of this work to explain this theory more completely, it should take several thousand pages at least just to give a basic outline. This is not so surprising, the amount of knowledge in the world is far more than any one man can possible learn and my attempt to do this to write this system as accurately as possible understandably failed. However I believe I did attain a more modest goal, to get a working knowledge of all sciences covering the interactions of living things and checking that they all conform with the principles of Aperiomics. My goal is to continue this work as deeply as possible; hopefully these books will inspire others to help me to do this, such as specialists in the different scientific fields. Any reader should feel free to contact me with questions about this.

I developed this system by a fortunate series of events. I was living in California in 1989 and decided to read as much as possible to complete my understanding of the world. I was in a fortunate position of not having to do any of this for a living, and not for the purposes of writing a book for money so I was free to just form my own private opinions rather than have to conform to a public set of ideas. I was also intensively studying music theory because I had the notion of trying to write music for a living, perhaps film scoring. I was also studying a lot of mathematics and was reading about how the music scale was created and changed to reflect different theories about harmonics.

Previous to this was I was a real estate agent. I had never felt drawn to the academic world, in school I was always reading about everything because of an insatiable thirst for knowledge rather than wanting to study for a living. Because of this my knowledge grew completely unfettered by the demands of the commercial market, I read whatever I wanted and thought about whatever I wanted with little expectation that it would ever be profitable. I was just in love with knowledge as my guilty secret. Having taken a break from work I was determined to fill in as much as possible my understanding of the world we live in while I could afford to.

I’m not sure if there was a single Eureka moment with this, I think the confluence of studying music theory and mathematics, writing a lot of music, reading a lot of history, economics, sociology, psychology, etc. starting to mix together and I began to see a pattern in all this knowledge like a vast symphony based on twelve notes or principles. Fortunately I had the time to let this notion evolve slowly until over a few months the basic outline of this book was completed. One problem was the idea of defining human history and interactions with a kind of musical theory seemed outlandish but for some strange reason that I still have not fully understood it works much better than it has a right to.

Once I developed this theory I was then confronted with the problem of writing about something as an amateur that people usually do after getting several degrees. It was ironic that someone who always loved to go off by himself with a pile of books and learn whatever and however he liked now had to confront the academic world that frowns on amateurs. Arguably in fact someone might have to have ten academic degrees just to outline how this theory works; I probably had at some point the equivalent of this knowledge but in a very ad hoc way untested by the exam based system of learning so I had little reason to believe anyone would listen to me. So in response I did what I have always done, just learn for the sake of loving knowledge and kept checking and expanding this theory though it is still based on just the same twelve principles that interact with each other. This overchecking of the system became highly redundant and over time I became quite confident it really reflects natural laws, many of which have never been written about. Other natural laws are well known but they fit naturally into this system like a piece in a jigsaw puzzle.

Then in 2004 disaster struck, I was hit from behind in a traffic accident with my head turned tightly to the right looking for traffic. This must have caused some brain damage or starving of blood to the brain because for several years I lost most of my mathematical ability and also the ability to comprehend my notes of what I had written about Aperiomics. Usually all I thought about in that time was endless pain, and whether I would ever be able to think clearly again. I realized then that if I recovered my thinking skills I must write all this down without further delay in case something else happens and my years of work were lost for good. Most of my reasoning has fortunately recovered; the brain does a wonderful job of rewiring itself so I have begun this task with the first Aperiomics book here. This theory is not however a result of a blow to the head, it was mostly complete as you will see it here but I had to recover sufficiently to write it all down instead of carrying it all around in my head.

The book will appear scatterbrained in many ways; it seems to lack a good structure, this may be partially a legacy of my traffic accident but it is mostly my inability to process so much information in a neat and tidy way. I grappled with this untidiness problem for many years until I realized it is in the nature of this theory to be difficult to reconcile with the usual format of Tables of Contents and Indexes because these impart a structure to knowledge that limited the Aperiomics system itself. For example if part of the book is examining how these principles connect medicine, economics, law, and sociology then making each of these into separate chapters can only be done by removing all the connections between them and making it more like the current system of knowledge where these are separate fields of knowledge with little interaction between them. Aperiomics is a synthesis of all knowledge of interactions between living things, from the evolution of the lowly microbe to the structures of vast multinationals in the marketplace to how people and animals interact; the numbers of connections in Aperiomics are virtually infinite in number. It has its structure in the twelve principles and these need to be understood thoroughly after which the interactions described should become clear.

Some may ask how twelve principles can possibly explain the complex world we live in, however twelve notes give us all the music we have in all its complexity and twelve colors the great paintings that hang in our galleries. Two numbers zero and one along with some mathematical operations such as addition, multiplication, etc. can create all of our mathematics as well as run all software in computers. As long as the principles are correct they can be interwoven in endless numbers of complex patterns in interactions between living things.

I still have little idea if people will find this easy to read or not, twenty one years of an idiosyncratic approach to knowledge might be very hard to communicate. So far to be honest many have found the main work impenetrable to understand in its entirety but were able to read small parts and see how Aperiomics works in a basic way. Generally they have agreed it was correct, their objections were usually that that the world was much more complicated than the examples I was giving. This unfortunately relates to the problem of writing about interactions perhaps infinite in number, people will always think of something major that has been left out. To these objections I would humbly point out the difficulty of understanding and writing accurately about all these connections if I have left out something important, also this is just the first book and is meant to be an overview only. I am encouraged enough by the responses so far to believe that people who are willing to spend enough time and patience will understand how this system works in their particular scientific field. Hopefully some will make the effort to see how the whole system works and gain a unique view of the world that really does seem to explain things previously a mystery.

I also worried in developing this theory that it might end up as some kind of extremist idea like Communism or Fascism, a system based on lies and false logic that ended up pandering to gullible people. In fact that was one reason I took twenty one years to write this book, I tend to be very neutral in my views after having spent so long looking at both sides of the story in writing this. So far I have found this theory gives the right kind of answers like a complete theory of living things, rather than a biased account of a small part of the community like Communism was. Basically it advocates no actions at all, it just explains what is happening in the world, where events are likely to go, and picks no sides. In that sense it is more like Zen Buddhism with a philosophy of detachment. Several people have asked me what then the point of Aperiomics is if it is not to change the world in some way, my reply is usually I discovered this by learning pure knowledge with no thought of its application and also I don’t have the resources to make suggestions about world events accurately enough. If the theory is accurate enough and can grow in ways that don’t affect the world then perhaps at some point it can make suggestions that are useful, for example I believe this theory might describe how to resolve most problems in economics such as booms, busts, failures of aid in the third world, corruption, etc. Proving that is another matter and will have to wait for a future book on this.

The first step for me in Aperiomics was to become completely detached from events in this way, to favor no side, faction, political theory, etc. over another so that I could understand as thoroughly as possible how each side worked without an unconscious favoritism to one against the other. This was necessary to check the theory to make sure it was as accurate as I could judge. It does have a side that could fix a lot of world problems, but so have many political theories that advocate a version of Utopia and then create their own kind of Dystopia. Instead Aperiomics shows why many of these problems such as why wars occur are by their nature intractable and often attempts to fix them are doomed to failure. Paradoxically then it offers many solutions to world problems but also explains why no one is likely to do anything about it, indeed often these solutions are already well known.

A recurring idea in history is that enlightened science can permanently act as a beacon for humanity in its evolution from its many Dark Ages; Aperiomics indicates however that this enlightenment will regularly fail and countries will fall again and again into war, ignorance, extremism, etc. Indeed Aperiomics itself predicts its own demise; a system that explains how things work also should explain why it has not been as completely explained before and why it will be forgotten or ignored now by most people. In fact I expect very few to read or be influenced by this book, Aperiomics explains why knowledge of the whole system is undesirable and unprofitable to many who profits from deception and ignorance.

My more humble goal is that some people will take up this challenge of understanding this system and gain an intellectual satisfaction from it, and hopefully some will help me to expand its boundaries into deeper parts of human knowledge which can be catalogued into these twelve principles. If I succeed in that I will feel more fortunate than I anticipate.

Chapter One

# The Twelve Principles

This is one of the most important chapters in the book, understanding this one as thoroughly as possibly will save readers a lot of time later in trying to remember the twelve principles when I discuss interactions between them in great depth. Rereading this a few times is strongly advised.

For many people these twelve principles will be difficult to understand, this is like learning to compose music and being able to understand all the interactions between 12 notes to create different melodies and styles as different as Jazz and classical music. Inevitably most people will favor some interactions over others because of their own personal experience, something I struggled with myself. Someone with a political philosophy on the right naturally starts to think the world can all be explain from their world view, people on the left tend to think the same thing. Then there are those independents in the center who find both sides incomprehensible. It is easy to make the mistake of thinking of Aperiomics as neutral, but neutrality itself refers to two of these color codes. Rather it is the interaction of neutral people and animals to other who have a more biased point of view, it is possible to understand this theory while trying to be detached from its consequences but this doesn’t mean a preference for neutrality over the two opposing sides in most issues. The extremists on both sides need to be understood in depth as well, not to condemn but to see how they are an essential part of the Aperiomics symphony.

To understand Aperiomics then it is important to understand all sides as part of a system in which all colors are necessary and none can be excluded without the system becoming unstable and reforming the missing color codes, this can be anathema to extremists who believe the world’s problems will be solved if only another faction can be defeated or often eradicated. Aperiomics also explains why some people will think this way and why their struggle is needed just as predators and prey must fight in nature for evolution to work. Much of the world has two extremist positions which battle each other like this, usually referred to as the left and right in politics. In this war of words if one side starts to be too understanding of the other then they lose their resolve and the other sides wins, the tendency then is to evolve two sides that fight and demonize each other. This is like in war where understanding the enemy can create sympathy and sap the will to fight.

Most people therefore will see their own world view in part of Aperiomics but then they will instead of seeing it written as being superior to other ideas it will be explained as part of a complex mathematical system that means they never win too much or if they do then a reversal is inevitable. This can be upsetting to some people who believe one side of their issue is good and the other side evil that must be overcome, there is Good and Evil in Aperiomics but this book explains how they interact and doesn’t pick sides. Fascist systems rise up and then they collapse just as Communist ones rise and also fall apart, both usually believe they are right and are fighting an evil adversary but in Aperiomics only their interactions are studied.

One interesting part of Aperiomics is it is composed of twelve principles that can be coded into twelve colors or musical tones. By selecting the frequencies of these colors or tones it is possible to add them up so they derive mathematically the principles in this system. So for example if I am discussing a Red system warring with a Yellow one then Orange mathematically represents a middle ground between them because of the frequency of its color. I might also call the Red system C in C major battling Yellow as the E note and then the frequency between them is the D note like the color Orange. The C note has an overtone relationship to G in music; this is like in Aperiomics where Red Communism has a relationship to Blue left wing politics. The E note or Yellow fascist system has an overtone relationship with Violet or the B note in a meritocracy or laissez faire capitalist system. So the system interactions of Aperiomics are not just a theory but they are based on mathematical relationships like someone might use to mix colors or musical notes. In this sense the interactions are mathematically perfect in the sense that a symphony can be perfect. Much more of this will be explained through the book.

The twelve principles are color coded as Red, Red Orange, Orange, Orange Yellow, Yellow, Green, Green Blue, Blue, Blue Indigo, Indigo, Indigo Violet, and Violet. In music this would be C, C#, D, D#, E, F, F#, G, G#, A, A#, and B. As each of these principles manifests in the interactions between living things this can also be regarded as painting a complex picture or writing an incredibly detailed piece of music. As will become apparent if these twelve principles are selected correctly then this would give music that is harmonic and pleasing when things are going well but a noisy cacophony in times of war and crisis. Nonetheless art describes the bad as well as the good without favor; Aperiomics is about seeing this musical symphony or tapestry that is being woven around us and appreciating its beauty even when it sometimes creates tragedy. Just as we do not interrupt the orchestra when they play a sad song the goal of Aperiomics is to understand this song or tapestry without complaining about the notes. Maybe then one day we can take the conductor’s baton and make a better song. Just as interfering in nature with the complex relationship between predator and prey can lead to disaster Aperiomics shows how when the system gets out of balance this causes many disasters as it rebounds into balance again.

So if we select these twelve principles or notes correctly just as in music we should get a coherent symphony in events around us, but how to select these correctly? It is not so hard to see this symphony already; we can classify most of politics into issues between the left, the right, and the center. Some are criminal and involve the police; others are consensual and have transactions in the free market. A share price for example on the stock market might be seen as a melody line of a symphony. Fortunately I was able because of extensive reading earlier to get most of these color codes correct at the beginning to see this idea of a symphony otherwise I might have dropped the idea early on, some however were hard to place more accurately and like an inferior musical composer or painter some of my understandings of these harmonies took years to refine. For example it took over 10 years to fully appreciate Green, Green-Blue and Violet. One problem with assembling a system like this it is important to appreciate that much of the world runs on deception for people’s advantage rather than relying on truth so that reading accounts of history one must always be aware that they are often lies to protect someone, giving them a false respectability or profiting them in other ways. That is why some color codes represent lies on both sides while others represent truth. The interaction between lying and telling the truth reveals much of history so Aperiomics is not just a system for determining the truth about how the world works but how lies interact with each other and battle truth in much of what happens. Lies are seen as necessary in Aperiomics, it is not advocating everyone tell the truth but just to recognize that deception will always be part of the grand symphony and no complete system can ignore it. There is even a new system of logic in Aperiomics called Color Logic where the frequencies of notes or colors can represent truth and lies to illustrate how arguments occur in politics and the law and why deception over wins out there. It is fully compatible with Aristotelian logic but also includes paradoxes, rhetoric, sophistry, how rival lawyers argue in court and how a judge decides, the Prisoner’s Dilemma, the burden of proof, etc. Because Aperiomics claims to be a complete system it must include all dichotomies as part of its symphony such as truth and falsehood, positive and negative attitudes, good and evil, etc. The color codes are explained below. Try to read them carefully and understand them now, also try to relate them to yourself or someone you know to make them easier to remember. If you do forget some of them then they are regularly explained throughout the book, or the colors can be inferred by the context of what I am describing or you can refer back to this chapter.

## The color codes

### Red

Red is the logical place to begin but it is also the color most readers will have the least sympathy for. It represents the poor man, the homeless, the prey in nature such as the gazelle, generally those people or animals not able to defend themselves and who respond to danger by using a strategy of running away, hiding, camouflage, lying, bluffing, thievery, etc. The truth is usually their enemy because the truth is they are inferior and can only survive by hiding this truth. People like this are often persecuted in society as parasites, animals like this in the wild are eaten by predators unless they can hide and deceive them successfully. These are often the kind of people the Yellow Nazis designated as inferior; they are also the people who created Communism to look after people like them first against those that persecute them. In many ways just as C is the fundamental note in C major these people are the fundamental part of the symphony of life, creating deception and misinformation to survive. Running away from threats and hiding their true nature they are often the hardest to see and understand their role in history. While they are the prey in nature and persecuted in most societies Aperiomics does not take a side for or against them, it just shows the necessity of their role and how it affects the other eleven principles. Just as predators would starve without the Red prey much of society would collapse without the Red population. With their deceptive strategies they often accumulate wealth just as Red prey accumulates meat on their bodies that a predator covets, much of crime then comes from attacking Red people. Stealing from Red people is an important part of world events and in turn Red steals from others to survive. If either side succeeds in this war it usually rebounds on them, once a predator eats all his prey then he starves and often if Red is impoverished too much the whole economy can collapse. It is easier in the first chapter to understand Red because it represents the defenseless prey in nature, once their nature is grasped then this weak and deceptive principle is seen throughout society.

### Red Orange

Red Orange is the next color; this has some of the aspects of Red but also of Orange. These are like Red people who instead of running and hiding get together to form gangs, unions, teams, etc. and use their numbers to protect themselves. Their motto might be “United we stand divided we fall”. In nature we see this strategy with buffalo that stay together to withstand attacks from rival teams of predators such as prides of lions or packs of wolves. So against predators there are two main strategies, to stay solitary and survive by being faster and more deceptive or to band together in groups and use cooperation. There is another dichotomy in Aperiomics here, that of using a strategy of competition or cooperation. When Red animals are attacked by predators they compete with each other to run the fastest so the predators will get one of the slower animals. They don’t cooperate with the other animals but in herds of Red Orange animals they cooperate with each other, sometimes this means that an animal will sacrifice itself for others. In the same way this team spirit works in society where weaker people are threatened form alliances such as with trade unions, protestors against a right wing government, etc. Socialism is often referred to as this where the rights of the group override those of the individual, often it is a necessary defense because Red people are attacked by others who use a team strategy and so they need to form teams of their own. Red people in society then compete with each other and can turn each other in to the police, to criminals, etc. to save themselves while Red Orange people would protect each other against the Orange police by not giving information about other members of their team or gang. They can also form a secret society in that no Red Orange member would divulge information about the team.

### Orange

Orange is the next color, this is like the independent or neutral people in society, and it is also like the police or legal system that takes no sides. They are similar in some ways to Red Orange teams and gangs just like Orange police work with gangs, vigilante groups, posses, lynch mobs, and neighborhood watch members in society. Orange recognizes that these teams are partially formed to protect their neighborhoods, but they are also neutral between those who prey on these groups such as Orange Yellow petty criminals and those who defend against these predators. Orange then is fairly easy to remember, it is neutral and usually means someone acting as a moderator, judge, policeman, independent voter, etc.

### Orange Yellow

Orange Yellow is the next color, this is similar to Red in that it is also relatively weak and it survives like Red does by being deceptive, using camouflage, bluffing, being fast, etc. The difference is that Orange Yellow preys on Red and uses these same tactics to beat them at their own game. In nature they would be like foxes preying on individual animals that try and hide from them. Foxes move silently and quickly, try and hide from their prey until they are close while Red prey hide from Orange Yellow foxes and try to outrun them. The interaction between them is often called a cat and mouse game where each side uses speed, deception, camouflage, etc. In society Orange Yellow can be thieves that Red people try and hide from or deceive them about where they hide their money and valuables. Both are responsible for many problems in society because their battles between each other need deception and misinformation so any information about them is likely to be distorted or part of the truth. Orange Yellow is next to Orange so it has some similarities to the Orange police. They can be like police informants in society who trade information on other criminals to get a lesser sentence. The relationship between Red Orange and Orange Yellow is tempered by the Orange police between them; Red Orange for example might be a team running neighborhood watch looking for Orange Yellow house thieves. Some Red Orange people end up joining the Orange police force because they like the idea of defending their neighborhoods, Orange Yellow people also sometimes join the police because they learn from informing on other criminals that it is easier to become a policeman and get paid for it than just getting a reduced sentence for finding and catching other criminals. Sometimes they also realize they can take bribes and do minor crimes such as stealing from drug busts without being punished for it. The motto for this might be “It takes a thief to catch a thief”.

### Yellow

Yellow is a team based version of Orange Yellow. Like Red Orange it forms by Orange Yellow people or animals deciding to form teams rather than hunting singly and deceptively. Because they are teams it is much harder to move silently and deceive their prey so they usually move fairly openly to enable them to communicate with each other. This would be like a Yellow pack of wolves instead of an Orange Yellow lone wolf trying to sneak up on prey. This pack might try and attack Red animals but because Red scatters when attacked then a whole pack might just kill one deer for example, also they make more noise so single Red animals can evade them more easily. The Yellow pack usually attacks a Red Orange herd, like a Yellow pride of lions attacking a herd of buffalo. Both use a divide and conquer strategy of trying to separate one from the team, the buffalo might kill a single lion and a single buffalo might not last long against a pride of lions. In society this is like criminals teaming up to form a Yellow gang or Mafia and attacking Red Orange gangs defending their neighborhood perhaps to steal drugs. Bank robbers might be Orange Yellow and solitary using speed and camouflage to survive or they might join into a gang and work more openly like the notorious Jesse James.

At this point it is worth rereading these five colors to see how they interact. Animals and people can work as loners or in small groups to use deception, misinformation, secrecy, bluffing, hiding, running away, etc. to survive. This is subdivided into Orange Yellow who are predatory and Red who are prey. Both are highly competitive rather than cooperating with others of their own color code. Then there is Yellow versus Red Orange which are rival teams where Yellow is predatory and Red Orange the prey. These cooperate with other members of their color code to make themselves stronger, because of this information from them is usually honest and open or not given at all. Orange represents those in the middle of the food chain or those who are neutral like police and the legal system. These first five colors are a section of the Aperiomics colors that deals with crime and war, generally wherever there is scarcity people gain more by attacking and stealing from each other. Where there is crime then police usually evolve which is why there are Orange police who form from Orange Yellow petty criminals coming together with Red Orange teams defending their neighborhoods and trading some petty crime against Red people in exchange for Orange Yellow informing on the more violent Yellow criminals. As seen later most of crime, the food chain in nature and war can be explained with these five colors. The movements of these five types can be viewed as a musical symphony in musical tones or a tapestry in these five colors.

The next two colors deal not with a scarcity of resources as with Red, Red Orange, Orange, Orange Yellow, and Yellow, but they represent a kind of border between scarcity and a society where resources are abundant. There is another dichotomy in Aperiomics with a society or ecosystem where resources such as food, water, minerals, crops, wood, oil, etc. are scarce and a second society described later where these are relatively abundant. The society based on scarcity is called a Roy society because the letters come from Red Orange and Yellow, forming the Acronym Roy. As seen later these kinds of societies range from Red Communism to Yellow Authoritarianism and usually end up fighting each other for resources if the Orange neutral countries and organizations like the United Nations are too weak, just as there is more crime where the Orange police are not strong enough in a community.

Just as Orange is neutral between the extreme strategies of Red and Yellow, Green and Green Blue are between the poor society of Roy and the abundant society we will call Biv because it stands for Blue Indigo Violet. In music Blue is an overtone of Red and Violet an overtone of Yellow, in the musical notes this is G as an overtone of C and B an overtone of E. So Biv is similar to Roy in many ways but is different because there are different successful strategies in a wealthier society, for example it is usually more rewarding to work hard than to steal off other people. The next two colors then are Green and Green Blue, in the music scale they would be F and F#.

### Green

Green stands for public property, which means that no one tends to own goods but they control them based on their power. For example a Yellow pride of lions might control a Green territory if they are strong enough against a rival pride but they cannot own it. They might also lose control of it if Orange Yellow animals such as jackals or hyenas work singly and attack Yellow lions in a divide and conquer strategy when they are away from their pride. Also Red Orange animals like buffalo might drive off the Yellow lions or Orange Yellow hyena and then they control a territory. Red animals might control and prosper in a territory if they are too fast to catch and the Yellow animals are too visible or make too much noise. This is like a Yellow army trying to fight Red terrorists where the Yellow control of an area means nothing if they can’t catch the Red terrorists who just hide when the Yellow army is there and return when they leave. Green then is this concept of public property and in society often this means government ownership. This can be in Red with extreme communism where the state owns all houses and businesses, in Red Orange socialism where there is more cooperation in this state ownership, in an Orange police state where the police are so strong they control everyone’s behavior with their laws, in an Orange Yellow kleptocracy or weaker Fascist state where the government steals from the poorer Red people, and the Yellow Fascist or Nazi like Authoritarian state with a strong army and a ruling elite with strong ties to each other.

## Green Blue

There is like a fence between Green and the next color Green Blue, this fence moves according to how valuable the land is and how powerful the Roy colors are. One example would be a transition between Green open ranch feeding of cattle and the Green Blue desire for ranches to fence in more land, the more valuable land is worth fencing in and keeping from others rather than sharing it with nomadic sheep or cattle herders. If the herders are powerful enough they can break down the fences so there is a conflict between the two where the fences encroach more on public land or are forcibly removed. Green Blue then is private property which is the foundation of an abundant society, it is more efficient for people to own property because it is less economical to steal it rather than to go and find or earn some more private property for yourself. We see this conflict in modern society where public property like roads, the air, parks, and the ocean are encroached on by people wanting to own parts of it as Green Blue private property while others want more Green public property. A Roy government might have little or no Green Blue private property because resources are scarce so it is more efficient to have public property; a Biv government as we shall see later has more resources so it often has most of its resources owned privately as Green Blue. It becomes more inefficient to have everything as Green Blue private property such as someone owning the air, privatizing roads, etc. just as Roy societies find it inefficient to have no private property such as not having shops to buy things with money. Just as there is a conflict between the five colors codes in Roy, for example Red fights Orange Yellow and Red Orange fights Yellow while Orange tries to moderate the violence, there is a conflict between Green and Green Blue. If resources are valuable enough then people will naturally want to make them Green Blue private property, if they later become less valuable such as a mining lease when the price of iron drops too much then the lease might be abandoned and it becomes Green public property again.

The next five colors of Biv represent economies that have more abundant resources but in nature they represent the plant kingdom while Roy represents the animal kingdom as another dichotomy. They are Blue, Blue Indigo, Indigo, Indigo Violet, and Violet and are represented by Biv for Blue Indigo Violet as an Acronym. As said earlier each color is an overtone of one in the Roy group and so in similar to it in some ways.

### Blue

Blue is like Red in some ways, people in this color are usually highly competitive with each other, secretive, deceptive, prone to running away and hiding rather than defending themselves but because there are abundant resources they become ordinary workers because it is not economical for others to steal from them. Like Red animals graze to get their food Blue workers graze on resources like being farmers, raising cattle and sheep on private property, staking and working mining claims, fossicking, or more commonly in advances societies working a job handling these resources. In the plant kingdom Blue represents the plants which get nutrients from the soil like a Blue miner or farmer would. You might imagine an underground coal mine going downwards like the roots of a tree where individual Blue miners get minerals from the ground. They pass these minerals upwards and in return they receive food and money, this is like the roots of a tree which get nutrients from the soil to pass upwards and in return receive food from the tree.

### Blue Indigo

Blue Indigo is where sometimes Blue workers form a cooperative team for their own profit instead of competing with each other as Blue, just as some Red animals like gazelles evolved to form a defensive herd such as Red Orange buffalo. It is G# on the music scale. Blue Indigo would usually form as a trade union for workers, Blue farmers such as milk, wheat, and egg producers might form a cooperative to market their goods. Blue miners might form a Blue Indigo cartel to market their goods like OPEC does. Just as in Roy sometimes it is more efficient to work alone and compete with other people, at other times it is more efficient to cooperate with others. From these two colors (Blue and Blue Indigo) much of Western society can be explained, workers can compete with each other as Blue or work together in unions or cooperatives as Blue Indigo. In the plant kingdom Blue Indigo is the top of the root system where they combine together to join onto the Indigo trunk.

### Indigo

The next color is Indigo which is an overtone of the Orange police and is A on the music scale, it represents the free market. There is another dichotomy here, if a transaction is legal it occurs in the Indigo free market and if it is illegal such as stealing from the market or is a transaction that hurts some people then it is restricted by the Orange police. Indigo is like the trunk of a tree, the free market is like the exchange of nutrients in a tree trunk where they come from the Indigo Violet branches and the Blue Indigo roots. So far there are the Blue workers competing with each other who want to get their products to the Indigo market, they sometimes use Blue Indigo unions, cooperatives and cartels for this. A more primitive economy might be mostly these three colors, for example Blue miners might look for iron and coal, others might cut down trees for firewood and farmers provide eggs, wheat, milk, corn, etc. They compete with each other as Blue and also cooperate sometimes as Blue Indigo, for example some farmers might help each other at harvest time. They bring these goods to the Indigo market and barter with each other so the farmers and miners get wood, the woodsmen get food and minerals, etc. The next colors involve the refining of these raw materials into more valuable goods for the market, for example iron can become steel and cooking utensils, wheat and eggs be made into cakes and bread, wood can be made into furniture, etc.

### Indigo Violet

Indigo Violet is an overtone of the Orange Yellow predator such as the fox; they represent agents in Biv and are A# on the music scale. While an Orange Yellow fox might use secrecy and deception to hunt Red animals the Indigo Violet agent is like a salesman who makes deals with Blue workers. He can be deceptive, use misinformation, run when threatened, be fast to exploit a business opportunity, etc. but only does legal transactions. Like the fox exploits mistakes with Red animals he tries to exploit bad business judgment to make a sale but generally his job is to make a transaction that benefits both parties and get repeat business. He has a territory he generally owns to some degree by having a franchise or he works for companies that deal exclusively with him, he may have to compete against other agents that have their own clients as Green Blue private property. In the plant kingdom he is like the branches of a tree where it connects to the trunk.

### Violet

Violet is an overtone of Yellow and they can form from Indigo Violet agents working and cooperating together just like Orange Yellow animals can become Yellow by hunting as a team or pack. They can be the management of companies that work together to form a balance against trade unions, a company is many ways is Violet because it represents a partnership or team of shareholders that cooperate with their capital. They represent B on the music scale and are often the most talented members of society. In the plant kingdom they are like the fruits, seeds, and flowers of a tree.

These are the twelve principles of Aperiomics that form the musical symphony or tapestry of history, it is best to reread this chapter and familiarize yourself with them before proceeding. There are only twelve; it is like learning the musical scale before playing music.

Chapter Two

# Color Codes in Nature

Aperiomics is best explained by showing how it works in more simple structures and then moving to more advanced ones. Here this process begins by analyzing the animal and plant kingdom to show how the twelve principles are compatible with Darwin’s theory of evolution but also how there are additional processes by which animals and plants evolve. Humans then evolved in this way so our society also runs according to these principles. I break this chapter up into the different color codes, for example Red is the first section and show how these colors interact with each other in nature.

Some information in this chapter will have been already mentioned in the chapter The Twelve Principles; I try to repeat some information many times to make it easier to remember the characteristics of the various color codes.

## Roy Color codes

The five color codes of the Roy animal kingdom are Red, Red Orange, Orange, Orange Yellow, and Yellow.

### Red

The best starting point is at the beginning of the Aperiomics scale with Red, which represents prey in nature0F0F0F[[1]](#endnote-1). Typically these might be animals like deer, sheep, gazelles, zebras, mice, etc. Animals like these are unable to defend themselves from most predators and survive by running away, hiding, camouflage, deception such as appearing stronger than they really such as with frilly lizards1F1F1F[[2]](#endnote-2), etc. Red animals tend to stay close to each other so there are more of them acting as lookouts2F2F2F[[3]](#endnote-3) for predators, and generally to do what their neighbors do. When attacked these animals have little loyalty to a herd and will scatter on the idea that a predator will likely only chase one of them, so scattering improves the odds of escape.

The better these animals can do this and the faster they can move the more likely they are to survive, therefore animals that do poorly at this tend to be left behind or end up on the outside of the herd and are picked off by predators. It is likely then that such animals select for a competitive advantage to some degree and avoid mating with animals that look different unless clearly superior on the basis their offspring will stand out and catch the eye of predators. Also if Red animals have varying traits then part of the herd will be trying to coordinate movements with another part that is slower, of different intelligence, etc and so disagreements occur on what to do. Animals that are inferior in some way then might be shunned by the others as dangerous to be around as a kind of paranoia3F3F3F[[4]](#endnote-4), instead of trying to cooperate with them and protect them in Red Orange herds. In Red societies they are also highly competitive, if someone is too different in a Red communist society they might be denounced4F4F4F[[5]](#endnote-5) or shunned like a potential wolf in sheep’s clothing5F5F5F[[6]](#endnote-6). Herds of such animals also tend to be limited in size because a herd would naturally fragment under attack from predators, and it might be harder to get away if an animal is in the center of a large herd. For example a herd of six deer might all get away if attacked by predators but a herd of a hundred deer would be slowed down by the numbers so some would most likely be killed.

While Red tries to defend itself from predators it also needs them to survive. Usually Red animals eat the leaves, fruit and seeds of plants, which as will be seen are Violet in the Aperiomics color codes. Usually Red animals have also evolved so as to not to be able to manage their birth rate6F6F6F[[7]](#endnote-7) because predators and hardship keeps their numbers down and so will continue to breed like Malthus7F7F7F[[8]](#endnote-8) suggests until they starve. The likely reason for this is that if Red is diminished in population too much by predators it needs to restore its numbers quickly, so it relies on a chaotic process of fast growth of numbers with the risk of a tipping point8F8F8F[[9]](#endnote-9) and collapse if their numbers grow too large and they exhaust their food supply. It is a better survival trait for Red to breed more and have more of them eaten or starve than to manage its own breeding and perhaps be attacked into extinction. For example in modern Biv societies a Blue family often regulates how many children they have but in poorer Roy societies a Red family might have as many children as they can in the hope that some will survive and look after them in old age9F9F9F[[10]](#endnote-10). In the same way Red animals such as deer risk overbreeding to ensure some of their progeny survive against predators.

Red also tends to forgive its attackers or at least to not get angry at them, rather it is dominated by fear and paranoia. This is because such anger would make them retaliate and likely get them killed more often, however if they evolve to become Red Orange then they can retaliate against predators. Red animals as well as people evolve to run away and not to develop emotions that would inhibit this flight strategy. Such animals might be seen near predators when they are not being attacked, for example if there are limited watering holes then predators and Red prey might have to share them. If Red stays away from these too much then they might perish from lack of food or water. So it is a survival strategy for them to coexist with predators, run away if attacked but also to stay close to predators if necessary to feed. The individual has less worth in a Red society just as in a Red herd, they survive by having progeny faster and suffering through famine, wars, genocide, whether from attacks from Yellow gangs of soldiers or from their own Red government such as with the purges and massacres under Stalin10F10F10F[[11]](#endnote-11). Even though Red people might have a history of being massacred they often later come to live next to the ethnic groups that attacked them before, this is often a more successful strategy because they can be closer to resources to make a living and only endure occasional massacres, pogroms, etc.

Red tends to become domesticated by predators as a food source, and ones that anger predators more might get eaten more often. It is better then for Red to chaotically11F11F11F[[12]](#endnote-12) eat more, drink more, and breed more in a more risky environment and get eaten more often. One might see this for example where lions and zebras might frequent the same watering hole and unless the lions appear to be stalking them the zebras might sense they are not hungry and get quite close to them. In another example penguins might get relatively close to leopard seals finding it is a better survival strategy to run away if they can rather than cede too much territory for breeding around the seals12F12F12F[[13]](#endnote-13). Red people also develop a strategy of appeasement, accepting they might be beaten up for example by roving groups of Yellow thugs such as in Nazi Germany. They also tend to believe that getting angry will provoke more attacks on them because they would stand out from other Red people, this is like Red animals like gazelles who don’t want to attract the attention of predators by their behavior when one of their kind is killed.

Because of genetic variations there is a tendency for Red animals like most other animals to have offspring that are occasionally different13F13F13F[[14]](#endnote-14). This is also necessary for their survival because if the environment changes too much then they might die out by all being too similar and not being able to mutate to adapt. For example a zebra might be selected to eat only one kind of food and so if the climate changes or new plants are introduced then it needs to be able to adapt to them, it is better to have occasional mutations that either die or survive poorly in the current conditions because they might enable the species to survive if the environment changes. For example a variation of zebra might be able to run much faster but this selects poorly for success if the other zebras already run fast enough. If however predators evolve to run faster or a new faster predator is introduced then these faster male zebras might survive better and have more mates to spread their genes around. The Red zebras would then make a relatively sudden evolutionary leap to being much faster as the slower zebras are eaten like a kind of punctuated equilibrium14F14F14F[[15]](#endnote-15).

Orange Yellow predators respond to this Red revolutionary strategy by a chaotic counter revolutionary one, they also tend to grow quickly and collapse in numbers if food becomes scarce. If Red animals suddenly develop extra speed then they might increase quickly in numbers and their mutations will perhaps be slower and caught by Orange Yellow predators. This concentrates the Red speed mutations by killing off the slower animals but it also keeps the Orange Yellow predators alive until they can mutate to match them. For example they might also have had mutations which were faster but these were not selected because the average Orange Yellow predator caught enough prey. Now that Red animals are suddenly faster this leads to a collapse in Orange Yellow slow predators and the faster ones now breed more quickly and spread their genes by having more females to mate with. Sexual selection with the sexy son15F15F15F[[16]](#endnote-16) hypothesis may play a role here where the slower females recognize that the faster males are a more suitable mate. Eventually the Orange Yellow predators speed up and catch the Red prey again, this means the extra speed was not an evolutionary advantage so both Red and Orange Yellow may collapse back to the slower speed or change chaotically from slow to fast over and over.

If they cannot evolve like this then Red’s numbers may decline and so might the numbers of predators who depend on them for food, this is bad for both of them as competing animals might take over their niche in nature. For example Orange Yellow predators might suddenly evolve to run faster and overeat their Red prey, then die off for lack of food to lower numbers while also keeping Red’s numbers down. This would leave food available to other animals such as Red Orange herds so this situation would be selected against in evolution. As Orange Yellow predators initially run faster and catch more food they breed more, but then as the food gets more scarce running faster doesn’t help them much to get food. Since Red animals become scarce then luck plays more of a role in finding food than speed so the slower Orange Yellow animals start doing just as well again and the offspring of the Orange Yellow predators slow down overall in their running speed. This allows the Red animals to recover in numbers until the faster Orange Yellow animals start to overeat again. In the same way if Red animals suddenly develop a mutation that allows them to run faster then some would survive more often leading to a population explosion of Red but few Orange Yellow predators who can’t catch the faster ones and can’t tell from looking which of the ones they see are slower. This overpopulation causes the Red animals to starve and allows the Orange Yellow predators to catch more of them increasing their numbers, so the speed of Red gave it no evolutionary advantage unless Orange Yellow could also evolve to run faster. These mutations such as the one for increased speed then is of little use unless the other parts of the environment change, animals then can remain similar for extended periods of time in this way unless the environment causes a rapid evolution such as running speed, camouflage, hiding, etc.

So Red needs to be able to adapt and this is done by having offspring that are different sometimes. This can be caused by mutations, by dominant16F16F16F[[17]](#endnote-17) and recessive genes, by epigenetics17F17F17F[[18]](#endnote-18) as some genes are switched on by different environmental conditions, by selecting different mates which is called sexual selection18F18F18F[[19]](#endnote-19) in evolution, etc. This enables a more rapid adaptation so that the ones in a herd who were different might become the new conformist as their numbers increase and the formerly dominant Red strain decline. So Red has a paradoxical survival strategy of being conformist and moving its nonconformists to the outside of the herd to let them be eaten or left behind, but also relying on these if circumstances change to survive in new conditions.

Red also tends to watch the other Red animals closely, not to work together as a team but to compete by getting food or water they see and getting away from danger they see. Since the herd moves by doing a similar action to one’s Red neighbor such as running when they do or going to food they see they become conformist, the ones closer to the center are moving more harmoniously with their neighbors and the center can almost act like a leadership or clearing house of information from the fringes of the herd. Responses by animals on the edge of the herd to predators, food nearby, etc are transmitted into the herd by their movements, body language, animal sounds, etc and the center receives these signals from all the edges most efficiently because it is closest to all the edges. So those at the center tend to give more reliable movements by summing all these edge movements as a decision on which way they will move and this pushes and pulls the fringes to go along or fragment the herd. This is seen for example in schools of fish which move together by watching their neighbors and staying close to them but they also scatter and abandon the others when there is danger. A sufficiently different fish in a school would tend to move differently and end up out of step with the school and this makes it more noticeable to predators as the others are so similar. Decisions that Red and Orange Yellow animals make that indirectly affect their survival and evolution are called personal selection in Aperiomics, this is because these colors tend to move as loners rather than as a team.

### Red Orange

The next color code is Red Orange; these are animals that team together for protection against predators such as a herd of elephants or buffaloes. They can also form from Red animals that are ostracized and they become teams because they are not fast enough or hide well enough to survive any other way. Red animals are highly conformist and they tend to move with those in the center of the curve, others are regarded as deviates19F19F19F[[20]](#endnote-20) and can be quickly left behind because Red survives better by not looking after these deviates and exposing themselves to danger.

The ones on the edges of the Red normal curve20F20F20F[[21]](#endnote-21) are regarded as deviants or abnormal compared to the ones in the center of the curve though abnormal here is relative to whatever traits are common to the majority. In Aperiomics it does not mean that one group in the population is better than another but only that one group might have more of a certain kind of characteristic and those who do not have this are deviants to that group. Because Red has little team instinct when attacked they scatter and if abnormal animals represent any kind of disadvantage to be around, such as being poorly camouflaged or not good at spotting predators they tend to be ostracized or at least other Red animals prefer not to be near them. This gives rise to conformity in Red because abnormal changes make them nervous for what dangers they might bring and so Red animals become more similar to each other as a species.

These abnormal animals when left behind can be attacked by predators and because running and hiding are poorly selected the ability to team up with each other to defend themselves becomes selected and this evolves a herd instinct. Because they are more abnormal compared to Red their mix of genes is more diverse and so they can eventually change to a different species because the conformist genes of Red are of little use to them as a team. Animals that fail to have this team instinct get more easily separated from the herd when attacked and are killed or if they are fast enough they may escape and go back to being Red animals, so this concentrates the Red Orange genes more to act as a team or herd. Decisions that team animals make that indirectly affect their survival and evolution are called team selection in Aperiomics. Some animals can be at an intermediate stage between the two color codes; gazelles for example might scatter as Red from large predators but try and stay together against smaller Wild Dogs21F21F21F[[22]](#endnote-22).

This can make for random changes in a species because the mix of abnormal genes in Red Orange, which are independent mutations from those of other members of the herd, allows new variations a chance to prove their worth. Because they work as a team then it is less likely one male will dominate the gene pool by competing with the other males to take all the females, or if they do then this is usually from some kind of contest that the loser agrees to abide by. If this rivalry was too strong then it would split the cohesive nature of the herd and leave them vulnerable to being divided up by predators. In Red males can compete more strongly for females because they all scatter when attacked so they don’t need the other males to stand with them in defense. In a Red Orange herd the males need to depend on each other when attacked so competitions for females need to be more cooperative and agreed upon by all the contestants. For example if one male wins the competitions but becomes resented by the others then they might not protect him by working as a team when predators attack so his winning will select against him in evolution.

This can be an evolutionary leap to a different kind of animal because these genes, instead of being eliminated by being eaten by predators on the outside of the herd instead become mixed together into new combinations. This process then tends to purify the Red gene pool by eliminating most deviants by being eaten or being unfit for the environment. Those that survive both of these tend to evolve to a different species or at least a more team oriented herd. If this mix of deviant genes in Red Orange becomes better for a Red strategy such as genes that make better camouflage or running faster then this new herd might change back to Red, losing its team instinct as unnecessary and once again scattering when attacked by predators. For example Red animals with abnormal variations of camouflage might get rejected or left behind by other Red animals and they might stand out more for predators because they are unusual, if they form a separate herd and breed together then their offspring might evolve a superior camouflage which makes them turn Red again. Some animals may become Red with these new genetic combinations and leave the Red Orange herd which further concentrates the genes there for a team instinct. So this may explain why some species of animals change suddenly in the fossil record or how new species suddenly spring up.

Yellow predators respond to this team based strategy of Red Orange by using a divide and conquer strategy where they try and isolate one animal from the others; Red Orange defends against this by staying close together and defending the weakest members of the herd such as the younger and old animals22F22F22F[[23]](#endnote-23). They also try to divide and conquer the pack of Yellow predators that also have evolved to work together as a team, for example if they isolate one against a natural obstacle like a river then they could kill it23F23F23F[[24]](#endnote-24). For example a Buffalo is safer in a herd, when separated it has no camouflage and cannot run quickly so it can be exhausted and killed by a team of Yellow animals such as Lions, Leopards, etc24F24F24F[[25]](#endnote-25). As Red animals developed in Red Orange herds the Orange Yellow predators which normally feed on Red animals found they could not succeed against these Red Orange teams of animals. Red and Orange Yellow use secrecy and deception like a cat and mouse game25F25F25F[[26]](#endnote-26) but this is ineffective against teams of animals who don’t need to hide or be deceptive.

Eventually Orange Yellow predators evolved into Yellow teams to overcome the Red Orange teams, while other Orange Yellow predators continued to use secrecy and deception to stalk Red prey. As predators attack a Red Orange herd they usually try to get past the outer ring of defense because the center is more Red and would have less team instinct, this is like the strategy of a Red Orange fort in the Middle Ages where the walls are stronger to protect the weaker center. Red and Red Orange pursue a similar strategy where Red tends to sacrifice the outer ring of Red Orange whether the herd is dominated by either color. Yellow and Orange Yellow pursue an opposite strategy where the center is stronger as Yellow and it is surrounded by weaker Orange Yellow animals. If they get into trouble the Yellow animals can help them for a share of the kill or steal it from them, this is similar to how Yellow gangs operate in crime with Orange Yellow petty criminals.

As the predators eat the Red center and others unprotected this concentrates the genes to have a stronger Red Orange team instinct, to resist illness better because to be vulnerable to germs can get them killed, for young animals to grow quickly because those that grow slowly can be killed more often by predators, etc. Animals that are young, old or sick may try and become Red by hiding and running from danger and if this is successful often enough may lead to a new Red species where speed and camouflage again compensate for weakness and youth. For example Red animals in Africa may hide their young in tall grass feeding them until they are fast enough to survive6F[[27]](#endnote-27); a Red Orange herd may switch back to this strategy if working as a team is less successful.

While environmental conditions remain the same Red Orange is steadily eaten by Yellow predators, those that cooperate together altruistically survive, and Red competes with each other to be the fastest, most deceptive27F27F27F[[28]](#endnote-28) and most secretive to survive. Red losers tend to get eaten or join a Red Orange herd so undesirable mutations or gene combinations such as less camouflage or more strength at the expense of speed are punished if they do not also evolve a team instinct. For example some mutations might be slower and stronger but are still too competitive to cooperate together in a herd so these might be eaten. Others might evolve a team instinct but still be fast and secretive and these genes would not be useful in Red animals. Sometimes however the mutations coincide in one animal, they mate together or being left by the Red herd they survive long enough to mate or the team animals teach the competitive ones to stay with them. With the sexy son hypothesis other Red animals see that this team instinct will make their offspring survive more often so they mate and a Red Orange herd forms.

If environmental conditions change then suddenly Red Orange teams might thrive and Red animals might be eaten or starve, for example more rain might bring taller grass or marshes which slows Red animals down enough to be caught or allows more Orange Yellow animals to hide close enough to Red animals to catch them. These conditions might favor a herd strategy so slower and stronger cooperative Red animals might start to survive more and the faster and better camouflaged animals start to die out, camouflage being less of an advantage when most Red animals are hidden by tall grass anyway. This might begin against smaller Yellow predators such as Wild Dogs in Africa28F28F28F[[29]](#endnote-29). Over time more Red Orange teams might develop and if the climate changes back to more sparse grass then animals may evolve back to Red speed and camouflage or stay as Red Orange because this evolutionary change has been found to be effective in short grass. Red Orange teams are based on randomness and independent variables so they can survive more environmental changes because they have more gene variations. In Red mutations that are less useful are lost more quickly in chaos because Red animals don’t defend each other.

The pressure on Red animals by predators can cause them to evolve into Red Orange herds, split into Red and Red Orange separate species or cause them to remain Red. As the deviant animals are left behind when Red scatters under attack they can be eaten often enough that these deviant genes are removed when they are expressed, this purifies Red animals of these deviant genes and makes them more conformist. Animals that mutate more may also be less fit to survive because more of their offspring are killed leading to a lower population and leaving them at risk to have their niche taken over by other animals, so the mutation level may go up and down chaotically in Red animals. This can keep Red animals fast and well camouflaged and those that are not able to run and hide or try to act as a team may be killed before they can develop into a Red Orange herd.

Red and Red Orange can also survive in one species, when attacked they may mount a Red Orange team based defense by staying together and fighting, such as zebras against smaller predators in Africa. If the predators are too strong such as with a lion they may scatter and hide as a Red strategy. The two types are joined in one herd and protect each other to some degree also because they are interrelated. If Red survives for example then their offspring replenish the Red Orange fringe with mutations and different gene combinations, and if Red Orange survive their offspring replenish Red in the same way. Predators may also have a combined Orange Yellow and Yellow strategy, when animals scatter as Red they need to be able to hide well enough to sneak up on them and be fast enough to catch them as they run and scatter29F29F29F[[30]](#endnote-30). If Red Orange stays together as a herd they may need to team up as Yellow animals to break them up and gang up on a weaker or younger Red animal.

If there is a change in the environment then the numbers and type of predators might change, and this in turn exerts different evolutionary pressures on Red and Red Orange. For example if predators decrease in number from disease, evolve to target a different prey, or are culled by man then the Red and Red Orange herd might expand since they often rely on being eaten to control their population numbers. Since the weaker Red Orange and slower Red animals are no longer being eaten as much they might flourish and so the average Red animal becomes slower as they spread their slow genes through the species and the average Red Orange animal might be weaker or have less of a team instinct. This devolution of Red and Red Orange can make them more attractive to predators who may switch back to some degree from the other animals they have been eating, also because there is more food the culled predator numbers may rise again more quickly. So predators in exerting this selection of which ones they eat cause Red and Red Orange to evolve offspring which survive more against these predators, when this selection pressure is lessened the prey devolve and this allows weaker and slower predators to survive more often, causing them to devolve as well. This also allows their numbers to recover faster because predators that may have previously starved may catch enough to recover and breed. Those predators that are genetically weaker and slower, or those with less of a team instinct for hunting may survive longer now, and though they would die out more later on as Red and Red Orange strengthened from the renewed selection pressure later some of their offspring may have the faster and team instinct genes needed to survive.

For Red Orange to protect Red animals in its herd such as the young or sick it needs to be more aggressive against predators, and this gives rise to a new set of characteristics and strategies such as courage and perhaps hate instead of fear. For example where before Red might share a watering hole with predators and accept being eaten at times, Red Orange animals might try to scare away some of the smaller predators, particularly Orange Yellow such as lone Wild Dogs or Hyenas30F30F30F[[31]](#endnote-31), cowardly like Red animals. If predators are unable to catch and eat Red Orange then the selection pressure that made Red Orange evolve is lessened, weaker and recessive genes might survive and reassert themselves and the herd could devolve back to the old species. To stay on the new level the weaker genes probably need to be nearly completely removed by predators, this is like where nearly all the Red animals, i.e. the sick and those young which don’t mature fast enough, are killed so the species makes a complete change to being strong and a team.

Red Orange animals can act as a human shepherd to some degree for the Red animals in the herd because they are strong enough to drive away Orange Yellow stealthy predators like foxes and if Yellow predators like lions attack then this will be noticed by the Red animals that can always try and run and hide. Red Orange is likely to see food and water first on the fringe and so their movements can guide Red animals in the herd towards these as a shepherd would. Red Orange animals have a strong bond with the rest of the Red herd and if this bond was lessened and Red Orange broke off to form its own herd then they can diverge into two species. The Red animals would over time build another Red Orange fringe with their offspring, and the now separate Red Orange herd would have its weaker offspring form another Red center to be protected. This divergence into two species need not be complete in the short term, small changes can keep the two herds separated such as being separated by distance or a natural barrier like a river31F31F31F[[32]](#endnote-32), they start to eat different foods or at different times, etc.

When a herd is attacked the predators try to force them into making mistakes, for Red animals to stand and fight in a herd instead of scattering and fleeing and vice versa for the Red Orange herd. Some animals are more vulnerable when they flee such as buffalo and Oryx32F32F32F[[33]](#endnote-33) so this also selects toward them staying together and fighting in a war of attrition. A Red Orange herd such as buffalo when attacked by Yellow lions might have one member become surrounded and cut off33F33F33F[[34]](#endnote-34), then saved because of the team instinct of the herd.

Red Orange animals might also team up with other herds of different species and so help each other indirectly. In Africa for example Red Orange animals like hippos, elephants, buffaloes, etc might have a common goal to protect themselves and little reason to compete with each other, so a herd of buffalo might move closer to elephants on the basis that lions might be less likely to attack and risk being caught between them. Red animals can watch not only each other for signs of predators34F34F34F[[35]](#endnote-35) but also other Red animals, for example a flock of birds might be scared off by an Orange Yellow predator, and Red gazelles might see this and escape.

If Red Orange becomes too successful the herd may grow too much for the food available and begin to starve allowing its numbers to be brought down by predators as they weaken, this might expose the Red center to more attacks and perhaps a massacre. If so then Red and Red Orange might themselves be reduced too much in numbers and then predators might begin to starve and themselves reduce in numbers. Having fewer predators gives Red and Red Orange numbers time to rebound and so there can be a cyclical change in predator/prey ratios.

### Orange

Orange is the next color code. It represents animals, people, etc that have a dual survival strategy, to be like Red Orange in some respects and also like Orange Yellow; part predator and part prey. A good example would be an animal in the middle of the food chain which eats lower down animals like a predator and is eaten by higher up animals so it is prey as well. Penguins act like Red or Red Orange when chased by seals35F35F35F[[36]](#endnote-36) but also are predators themselves chasing krill. Another example would be insect eating birds, which themselves could be attacked by eagles or hawks.

They have an attribute like Red Orange when they move in groups to defend themselves and sometimes have a Red inner core of weaker animals they try and protect. Penguins might act like Red Orange to protect their Red mates and young chicks against Skua birds36F36F36F[[37]](#endnote-37) though they might act like predators themselves and chase krill which itself scatters and hides like Red. Orange might be many species of animals in a food chain, each as predator for the lower down animal, and prey for the higher up one.

An Orange Yellow shark might act as a Yellow predator with dolphins in hunting sardines37F37F37F[[38]](#endnote-38), at other times it might attack Red Orange dolphins38F38F38F[[39]](#endnote-39). A Dolphin might act as Red Orange to defend itself and then eat smaller fish acting as an Orange Yellow predator by sneaking up on them so it acts as Orange overall.

In Orange then the survival strategy is to combine attack and defense so it combines two kinds of color codes into one. It might act as a kind of shepherd protecting its territory against invaders so it can feed on Red and Red Orange animals there itself like a human shepherd would. For example household cats are territorial and defend their territory and the prey in it against other cats, feed on Red mice as prey, and larger animals acting as a Red Orange team like crows might chase them away. An Orange Yellow dog might attack a cat by sneaking up on it so a cat is Orange as predator and prey. Orange also has characteristics of Orange Yellow as the secretive and deceptive predator that often does not have the strength or ability to beat Red Orange herds or teams of animals or even Red sometimes. So if foxes were Orange Yellow then they might attack a herd of Red and Red Orange animals by trying to grab a young animal without being seen, different from a frontal assault that a pack of Yellow animals would use as a strategy. Red Orange would chase the Orange Yellow predator away if they saw it and Orange Yellow being cowardly usually runs away and hides.

Orange animals can employ a strategy that changes from moment to moment under attack, to stay with the others and use their numbers to fend off attacks as Red Orange or scatter and run as Red, fight or flight. So Orange is a combination of two types, the defender like a Buffalo that can drive away a predator and a cunning predator that attempts to sneak its way to Red prey past Red Orange like a Fox, Hyena, Dog, Weasel, etc. According to the situation then Orange might use its strength to drive away a predator or use its cunning to get prey. A cat then might chase away some Orange Yellow dogs, and then stalk smaller animals like Red mice while the larger rodents, squirrels, etc might try and chase it away. Some seals might eat Red penguins or be chased away by them because of their shark beaks and in turn be eaten by Orca whales39F39F39F[[40]](#endnote-40).

Orange also acts to stabilize numbers in the various color codes, preventing Yellow and Orange Yellow animals from overeating Red and Red Orange ones and causing their numbers to crash, leaving the predators to starve later. So if it sees predators stronger than it that might kill prey on its territory it tries to defend its territory and the animals in it like a shepherd or policeman, which gives stability to the ecosystem. If it sees Red Orange and Red animals breeding too much and potentially overgrazing it increases in numbers to eat more of them which can cause more Orange animals to be eaten by Yellow and Orange Yellow ones and this stabilizes the food chain. Orange by its actions evolves its neighboring color codes, it evolves Red Orange stronger by eating the weaker animals in their team and it evolves Orange Yellow to be smarter by defending and scaring off those not cunning enough. Pressure on neighboring color codes then tends to create a niche itself in the middle of the food chain. Orange tends to evolve in a stable environment and also to stabilize the food chain because wild swings of food in Red Orange and Red can make it starve and its numbers might not grow back fast enough to avoid losing its territory to another Orange animal. There is then a selection pressure for Orange animals to become aware of these swings of feast and famine and attempt to stabilize them by defending their territory from other predators overeating. It acts as an expert in deciding whether to fight or run away, and what to eat and how much.

### Orange Yellow

Orange Yellow predators have characteristics similar to Orange animals in that like a fox its survival strategy is to find weaker animals and like Orange it needs to be careful not to exhaust its food supply, for example by eating the mother of young so the babies die. It might regularly eat the young because they are weaker and more defenseless, for example an Orange Yellow 40F40F40F[[41]](#endnote-41) southern giant petrel or skua bird attacking Red penguin chicks which are occasionally left undefended by Red Orange parents. Penguins are defensive in nature and could not easily attack these Orange Yellow predators but the skua also could not attack a Red Orange adult Penguin successfully so its survival strategy is deception, trickery, cunning, stealth, etc in getting the chicks when the parents are too far away or if the chicks wander off41F41F41F[[42]](#endnote-42).

Like Orange animals, if Orange Yellow is too successful against Red, such as eating too many Penguin chicks then its prey become predominantly Red Orange and it might starve and lose some of its population until Red numbers restore themselves through breeding. For example some penguins might be careless with their chicks and when skua are rare this is not important, with too many Skua then most of these chicks with the careless genes get eaten and the Penguin population as a whole becomes less careless. This then is another example of where numbers might chaotically oscillate between high Orange Yellow predators and low Red prey, and then goes back to high numbers of Red and low Orange Yellow. For example if skua were too successful at eating penguin chicks then not only would penguins evolve to be less careless but they could drop in numbers so there would be less food for the skua next year and some of them might starve. So Orange Yellow predators that don’t develop an instinct to preserve their prey have more chaotic feasts and famines and might starve or die out. Another Orange Yellow animal that is more careful not to overfeed could take over their territory when they were weakened by hunger so overfeeding can be selected against as a survival strategy. Orange Yellow tend to hunt alone or in packs that fragment easily, like Red animals they are relatively weak and use speed, cunning, and camouflage to catch prey so a team instinct is of little use for them. When Orange Yellow attacks a Red Orange herd such as a hyena trying to snatch a young Oryx the herd may sense working against the predator as a team is more likely to succeed rather than running away. An Orange Yellow predator such as a single hyena might scatter under this form of defense but succeed more often when it forms a Yellow pack with other hyenas.

### Yellow

The inner part of an Orange Yellow group that hunts singly can be Yellow animals that are the stronger and more team based predators, for example some hyenas that are sick or hurt might be cast out or not be able to keep up with the Yellow team so they would hunt alone as Orange Yellow. Alternatively an animal species might be all Yellow such as a pride of lions and might hunt rarely as a single lion, for example a female lion might hunt for its cubs only without other lions42F42F42F[[43]](#endnote-43). They are then opposite to Red Orange where the stronger and team based animals are on the outside of the herd protecting the weaker Red center, Orange Yellow is the weaker and faster outer part of the pack and Yellow the inner and stronger slower animals. Here the normal animals are Yellow and want to work together as a team43F43F43F[[44]](#endnote-44) while Orange Yellow animals want to compete with each other44F44F44F[[45]](#endnote-45) and tend to break up the team. For example some Orange Yellow parts of a Yellow predator team such as vultures might find a dead animal and try and keep it for themselves rather than sharing it with the others45F45F45F[[46]](#endnote-46), so they are an unreliable part of the Yellow fringe. Yellow such as with lions is stronger in the center because of their team nature, Orange Yellow parts of the team or other species of Orange Yellow such as hyenas might be more competitive but if the lions stay together as a team they will usually prevail against fragmented attacks by individuals.

Yellow is a team based color and Yellow animals evolved by working in a pack against Red Orange herds to counter their team strategy. Those that are weaker parts of the team such as sick and injured animals46F46F46F[[47]](#endnote-47) can be supported by the rest of the team but if not then they become Orange Yellow and can hunt alone using stealth and speed to catch Red animals unawares. For example a Yellow pack of Hyenas can sometimes use their numbers to break up a Buffalo herd, isolate one of them and then exhaust it over time until they can kill it. An injured Hyena might not be supported by the others, be demoted in the hierarchy of the pack and not be allowed to share in a kill. It might then hunt as Orange Yellow trying to use stealth and speed to catch prey such as a Red warthog in a burrow.

There is an evolutionary pressure for Yellow animals to develop a team instinct, if some don’t have this then they tend to hunt alone and do less well because they cannot overwhelm large animals. These tend to die out which reinforces the team instinct as a survival strategy because they eat more and have more offspring. Some of these offspring may have less of a team instinct and also leave the pack so this removes genes that select for the loner instinct. Once these animals leave and survive then they may have some offspring which have a stronger team instinct, some could get together and form a new pack or join and old one, the others might diverge into a different species over time. So this is the opposite of how Red animals evolve but it results in the same two groups of loners and teams, where the deviants of Red animals tend to leave them and form a team based herd and sometimes their offspring return to a Red loner lifestyle, at other times they join the team based herd and the two can split eventually into separate species.

If the Yellow animals lose their team instinct then they might evolve into Orange Yellow predators completely, like a pack of wild dogs or wolves evolving into animals like foxes hunting as loners. This might happen if team hunting is ineffective, for example if large teams of Yellow predators make Red Orange animals evolve into being too hard to kill. In that case hunting by stealth and speed might be the only way to survive. Orange Yellow predators might loosely coalesce into a Yellow pack and find they do well because Red Orange herds have become weaker from a lack of Yellow predators attacking them and this selection pressure would cause the new Yellow pack to be more successful, have more offspring where a team instinct selects strongly enough until they evolve the Red Orange herds into being stronger from their attacks. Yellow and Red Orange oscillate in numbers, strength, etc. randomly because each animal is an independent variable in a team.

Yellow is sometimes the stronger predator such as in a small pride of lions47F47F47F[[48]](#endnote-48), other Yellow predators can make up for lack of strength by numbers such as a pack of sixteen or more wild dogs48F48F48F[[49]](#endnote-49) in Africa, both can hunt wildebeest49F49F49F[[50]](#endnote-50) successfully. The strategy in Roy of Yellow versus Red Orange is team versus team using strength, endurance and looking after each other to divide and conquer the opposing team in a hot war or war of attrition50F50F50F[[51]](#endnote-51). The strategy of Orange Yellow predators versus Red prey is usually a single predator stalking a single prey with stealth, camouflage, deception and misdirection like a cold war.

Yellow animals might rarely be fast enough to catch Red animals such as gazelles and often they escape, so they instead attack and eat the slower Red Orange prey like buffalo51F51F51F[[52]](#endnote-52). If the Yellow lions are too successful then they reduce the Red Orange numbers and then by not being able to catch the faster Red animals consistently they might starve until their numbers drop and the Red population slows down because the slower animals are no longer being eaten. A lack of Yellow predators would mean that Red Orange herds also become looser as a lack of team instinct is punished less so the surviving Yellow predators find it easier to find food as they recover their numbers.

If the predators numbers become too low then Red animals might overbreed chaotically and begin to starve, then both Yellow and Orange Yellow predators would temporarily have an easier time catching them which can lead to Red’s numbers being reduced and the predator numbers growing, this can also weaken the need for a Yellow strategy temporarily. Red Orange herds can also be weakened by there being too many for the vegetation available and when weakened even Orange Yellow predators can succeed in killing them and reducing their numbers.

Plants can also respond to this overgrazing by evolving more thorns, higher branches, a bitter taste, etc to defend themselves, the plants that are too easy to eat are reduced in numbers and this enables other plants with more defenses to have their seeds germinate more often and so the landscape can change to vegetation much harder to eat. This causes Red and Red Orange animals to suffer even more as they could have less food available than before they overbred and for a time their numbers might decline overall. This would in turn cause the Orange Yellow and Yellow predators to decline in numbers allowing the prey to recover slowly and then the lower amount of grazing by the prey takes off the selection pressure for plants with more defenses. Other plants might grow or regrow faster and overshadow the thorny plants more because they need to devote fewer resources to defenses, grow easier in poorer soil or with less water, etc and so they regain their share of the land they lost to the more grazing resistant plants. If the Orange animals in the middle of the Roy food chain are weak then these oscillations might continue, otherwise they are dampened into more stable numbers.

Sometimes Red animals might have ways to avoid breeding too much instead of just from predators, for example some birds might be limited in kinds of trees they can nest in and as they eat too much those trees become more scarce or the numbers of those trees with places for nests never increase which stops the Red animals from overbreeding.

If these fluctuations are too common or extreme then both Red versus Orange Yellow and Red Orange versus Yellow might both decline in numbers, then other animals could take their territory. For example these fluctuations might mean they are more often starving and hence prone to be attacked by a rival that is more stable and sometimes eats other plants or prey they cannot. When these animals become weak they could be eaten into extinction in this area or the weakened predators driven out of their territory. So animals of various color codes should evolve an instinct for stability in these interactions, as those who don’t are less likely to survive. Such an instinct might be genetic or learned socially from other animals or their relatives in their color code.

## The resource color codes

### Green

The next color code is Green, which represents the environment the five previous color codes operate in as public property with no boundaries, though some animals have a territory they control through their power52F52F52F[[53]](#endnote-53). For example animals might live in a Green forest environment like people use public property such as roads and parks, even the air as with birds. This can cause problems in national parks such as Yellowstone53F53F53F[[54]](#endnote-54) with wolves and bears that can roam anywhere and develop their own territories. The size and quality of the Green environment can alter Roy interactions, for example if there is less room then Red animals find it harder to evade Orange Yellow predators and if less camouflage such as after a fire Red animals find it harder to hide54F54F54F[[55]](#endnote-55). So Roy interactions generally have different strategies in regard to the kind of Green environment they live in. It is better for Yellow predators to have less Green if they are looking to find prey but also the more Green or fertile territory there is the more offspring they can have safely because there will be more Red prey. There might be areas that have few resources like water, poorer soil, are too mountainous, etc and so the Green resources are more limited. Roy color code populations tend to expand to fill Green resources but if they expand too much then fluctuations in those resources might make their numbers unstable.

### Green Blue

The next color code is Green Blue which represents the environmental limit of this Green area and the border of Roy animal interactions. Roy animals generally operate in Green resources but in Green Blue areas they can be dominated by the Green Blue concept of private property so they might be owned by someone or restricted in where they can go. These Green Blue resources as we shall see are used more by Blue workers such as farmers and miners, and so they become less available to Roy interactions such as Red Orange free grazing animals like herds of wildebeest. Green might be a savannah where animals roam freely and plants are subordinate to animals, they can be eaten freely and uprooted if they get in the way, and Green Blue more like a thick scrub where animals can move only with difficulty but is good for plants. A forest is usually dominated by plants and animals feed on them according to how the plant dictates, in Green Blue the plants evolve the animals to suit them and in Roy the animals evolve the plants. Biv generally is about how plants grow and reproduce.

## Biv Color Codes

### Blue

Blue represents the tips of the roots of plants and how they remove nutrients from the soil, so they interact with the resources of Green Blue in a forest taking minerals which are in effect the private property of the plants. In a Roy environment the plants don’t grow large enough to assert a sense of private property on the environment, animals are usually in control and plants can be damaged by being overeaten. They are similar to Red animals in some respects in that Red animals look for nutrients in the soil usually as plants but also as salt licks55F55F55F[[56]](#endnote-56), the plants they eat are digested into component minerals, proteins, etc. Blue roots take nutrients not from other plants but from Green Blue soil and sometimes from the carcasses of dead animals and other plants. Each is the base of their respective food chain; Red animals are eaten by other animals progressively up the animal food chain and Biv trades the nutrients it finds up the plant food chain with the Indigo trunk, the Violet leaves, fruit, and flowers etc.

The main difference between the Roy system and the Biv system is that Roy revolves around attack and defense or predator and prey, and Biv works on exchanging nutrients so that both sides benefit. Generally Roy is where scarcity forces animals to prey on each other, in Biv there is a relative abundance of resources and so the different color codes work together to use resources without violence. For example in a village a scarcity of resources might make people more likely to steal from each other like a Roy system, if there are enough resources though they might find it is more efficient to work together without trying to steal or kill each other. Plants have evolved where the different parts trade nutrients with each other like a kind of market; the leaves are not feeding on the roots like a predator but work together to utilize the resources most efficiently. The roots gather the resources from the ground, the leaves gather power from the sun to build more complex organic compounds, and the flowers and fruits work to reproduce the whole plant.

### Blue Indigo

Blue Indigo represents the upper part of the roots of a plant where they come together to join the Indigo trunk. This part cooperates with the roots to move nutrients upwards and also to send nutrients downward from the upper part of the plant. It cannot get nutrients itself and so supports the Blue roots in their task, and also works to grow the roots and direct them to new nutrients, so Blue Indigo and Blue work together in a similar way to Red Orange and Red animals and people.

Blue Indigo is similar to Red Orange in that it is a part of the roots system that determines the rest of the plant doesn’t get too much from the roots without nutrients in return. In the same way Red Orange protects Red animals from higher up predators in the Roy color codes. For example Blue Indigo might reduce the amount of nutrients going upward in a plant unless it receives sufficient nutrients in return. So Red Orange also tends to stop other Roy colors getting too many resources from Red except that here the food is exchanged and in Roy it is taken by violence. Generally then a color code in Roy can switch to its equivalent in Biv if there are plenty of resources and vice versa.

Blue Indigo then also varies in what it does, and it has different characteristics in a plant according to natural variations in a species. If it pushes the Blue roots too hard then too much resources can be used up in looking for nutrients and so a plant might be stunted or die. For example a plant might use up its resources building powerful roots and not enough for a trunk and upper branches, and so it could get knocked over or shaded from the sun. If it doesn’t work hard enough in growing strong and deep roots then a plant might be unstable and prone to uprooting.

So plants and some animals in Biv systems have natural variations, which is why some plants of the same species are not identical to each other. This can be like Red and Red Orange, where a plant that does poorly compared to other members of its species might start to do better and even grow the best if circumstances such as the climate changes in a way to suit it. Some plants then might have a weaker Blue Indigo and be uprooted but if they grow in an area where uprooting is unlikely such as in a jungle then they might thrive better than other plants since resources weren’t wasted on strong roots. Then if circumstances change and uprooting becomes more common such as a jungle thinning out and Elephants uproot plants to clear paths those plants survive less and the ones with stronger roots survive more, like Red and Red Orange changing places.

### Indigo

Indigo represents the trunk of a plant and this part coordinates the upward and downward movements of nutrients. A plant might grow a long Indigo trunk and become a tree or short and become like grass. So it typically interacts with Blue Indigo which connect to the top of the roots and which mixes the nutrients from the roots in preparation to sending it up the trunk, and Indigo Violet which are the branches connecting to the top of the trunk which takes organic materials made by photosynthesis in the leaves and sends them down the trunk. Like other color codes it has natural variations so for example trees in the same species might not be the same height. If there is competition for sunlight then those that grow taller are not shaded and so those win the competition, they overshadow plants near them which could wither or become stunted from lack of sun. These might be for example plants that grow a fast growing trunk and spend less resources on strong roots or branches in the race to get to the sunlight before being overshadowed by another plant. Bamboo is like this, it can grow very tall very quickly56F56F56F[[57]](#endnote-57) but has few branches to waste resources, the ones that become tallest get the most sunlight and more branches will only slow this growth, the relative lack of strong roots means it could be more easily uprooted. So in some environments tall bamboo might predominate and in others the shorter variations are more successful or other kinds of trees because bamboo could be more easily knocked down by the wind, the Biv system can adapt to different environments by different ratios of color codes.

This is an Indigo Violet strategy similar to the Roy system where Orange Yellow animals might breed quickly in numbers to take advantage of the food available before another predator outbreeds them and gets all the food. This race to grow faster can result in a collapse of numbers if there is a change in the environment such as a drought and the Red prey numbers plummet, the Orange Yellow animals might starve in great numbers. In the same way this rush for plants to grow quickly can be catastrophic if there is a sudden drought, a storm knocks them over, or they run out of nutrients before being fully grown. Another plant might grow slower but more solidly so in case of a storm they don’t get blown over, or in the case of a drought they have more stored nutrients, so they could win the competition against the faster growing but more fragile plants.

### Indigo Violet

Indigo Violet represents the branches of a tree which collect nutrients from the Violet leaves, fruit, flowers, etc sends them downward and deliver nutrients from the Indigo trunk to the Violet leaves. It is like Orange Yellow in that it is the outer part of Violet, like Orange Yellow is the outer part of a Yellow pack of predators. An Indigo Violet system is shaped by its environment as branches compete with each other as well, weaker branches get broken off, some branches grow more strongly but slowly and may survive a storm better but get left behind by smaller branches if the weather remains calm.

Biv systems vary according to Roy animal actions, for example if Red animals eat too much vegetation from overbreeding or a drought leaves them short of food then shorter plants do not survive and variations that are taller such as Acacia trees in Africa don’t get their leaves eaten and survive more often, so the pressure of overgrazing from Red can evolve a plant into a tree. If there is less pressure from Red grazing then the vegetation may devolve back into shorter trees, bushes, grass, etc as these grow faster since they waste less resources on growing a strong trunk, thorns, etc.

### Violet

Violet is the leaves, fruit, flowers of a tree, grass, bush, etc. It provides food to Red animals such as Sheep, birds, insects, etc and receives benefits in return such as pollen being moved to another flower, fruit being eaten and seeds moved elsewhere to sprout, leaves that might wear out are turned into fertilizer and deposited under the tree to be reused, etc. A plant that provides flowers to bees might have variations in their species where some have more flowers than others. If the ones with more flowers get more pollen moved to other plants then they might be fertilized more and more of them survive. However if there are few bees then the flowers might be largely wasted and so other plants with less flowers might do better since they have more resources for other parts of the plant such as growing more leaves.

If bees as Red changed their numbers cyclically over a season then plants with more flowers might also survive better cyclically, the ones that opened flowers at times that more closely matched the breeding cycles of bees and other insects might spread their seeds better than other plants. If the climate changed to be colder then bees might be less common and plants of that type with fewer flowers might survive better, particularly if resources are scarce, for example the resources wasted on unnecessary flowers might make a plant die in a drought before other plants with fewer flowers would. If Violet fruit had seeds that were too fragile then Red animals might eat them and digest the seeds, and so other plants with stronger seeds might survive better, but if they were too hard to eat then animals like squirrels wouldn’t take them away to eat and store so they wouldn’t be spread around as much as other seeds easier to eat.

Violet also evolves by interactions with Red in that if Red animals eat too many leaves some variations of plants that are too easy to eat would die off and Red starves until they grow back, another variation might have more thorns and survive better when Red numbers are high, but these thorns might prevent fruit being eaten and seeds distributed so they stop spreading as much or decline when the drought is over and animals get the plants back they prefer to eat. So in some areas variations of a plant with more thorns might be more successful and in others those with fewer thorns are, and these forces tend to create different species. For example as Red animal herds tend to break apart into separate herds their genetic material tends to drift apart from each other eventually becoming separate species. If one group of animals eats in an area they might evolve plants in that area to favor that species to spread its nuts and seeds more efficiently, while plants in another area with a slightly different kind of animal fails to spread its nuts and seeds efficiently until it adapts to the genetic drift of those animals.

So Violet also evolves in accordance to its neighboring color codes, it reacts to being eaten too much by either defending itself with thorns or poison, dying out for a time to punish the overgrazing so animals remember next time not to do it or die out by being hungry and over eaten by predators, having variations with different amounts of leaves and fruit in an attempt to synchronize with changing animals, etc. So Violet can create chaos in Roy to defend itself, for example Violet parts of a plant might deliberately be fragile so it dies out in an area quickly if overeaten, but can rebound by having strong roots to regrow from, and this might be designed to make the Red animals starve temporarily, get overeaten by Orange Yellow and so reduce in numbers. Another animal that eats more consciously of maintaining its food supply might end up having more offspring and outbreed the ones that habitually overgraze.

Often there is a relationship between Yellow predators and Violet leaves, where Yellow and Orange Yellow predators attack Red and Red Orange animals to keep them from overwhelming Violet leaves, nuts, and seeds, and destabilizing the system with overgrazing. For example Yellow birds eat Red insects that damage Violet leaves too much, so these plants that grow places for them to nest or grow seeds and nuts that they also eat stay healthy. In turn Violet leaves, fruit, etc offer food to Red insects, small birds, etc so that Yellow predators have Red animals and insects to eat and don’t go away or die out when they might be needed later to control Red.

Bees and ants can also be classified in this section. For example ants usually move in long lines or tracks bringing food to a hive, these form a shape like roots and branches because some food brought contains more energy like leaves and other food contains more minerals. This is then like a plant where the roots and branches are intermixed with each other instead of pointing in opposite directions. The Indigo trunk of the tree is like the Queen and the ant nest. A new queen might be taken to a new location for a new nest and this is analogous to a new plant seeding sprouting. Bees are similar to Red animals in that they feed on Violet flowers and pollen, their long journeys are analogous to roots of a Biv plant. As we will see in later sections people can also order themselves into Biv structures, not just Roy ones. Variations in ants and bees can make them adapt to different environments in similar ways to the variations in plants, for example one Indigo Violet might spend a lot of resources with longer lines of ants looking for food so more ants die of starvation but such a species might win the competition with other ants to get more food and breed more. In some areas ant nests with shorter trails might be more conservative by not growing as fast, if they find themselves without food such as in a drought then they could survive longer than the nests that grew too fast and win overall. With variations in the weather the different species would change in relative numbers just as in plants the faster growing plants would win sometimes, other times the slower growing ones would.

Chapter Three

# Primitive Societies

## Introduction

In this section a primitive social structure will be used to see how the same Aperiomics principles apply as in Nature. This is easier to see by showing relationships between humans and animals and plants, and then showing how these relationships evolved to humans and humans, and in later chapters I will show humans interacting with systems such as companies, governmental structures, machines, software, etc.

In the chapter on Nature it was shown how animals and plants interact according to the twelve color codes. So it is possible to build on this by inserting humans in various color codes and show how they fit into a natural ecosystem. To understand all these terms it is better to read the Nature chapter first.

## The Roy Group

### Red

In the Red color code as described, animals are typically grazers like sheep, deer, etc. So here people would be gatherers much like in the hunters and gatherers model. Typically then they feed on Violet parts of plants such as flowers, fruit, leaves, seeds, grain, etc. Normally they would be nomadic in this color code like grazing animals rather than growing their own food in one place. If they did then they would be in the Blue color code.

As with animals they tend to move as a herd though we tend to call humans a tribe. As a bottom feeder in the Roy system they are Prey to all. So they would have Orange Yellow and Yellow Predators and tribes, even Orange ones as a threat. One example would be in early Africa where primitive Red tribes would be threatened by Yellow lions and Orange Yellow wild dogs or Hyenas, but also by Yellow and Orange Yellow tribes of people who might live mainly by robbing other tribes.

Assuming at this point the Red tribes have little technology then they would usually run away from Orange Yellow Predators and tribes, such as up a tree, or watch out for them from a distance like Red animals would. Orange Yellow Predators would exert an evolutionary pressure on such a tribe and under attack Red would need the same kind of coordination that a herd of Gazelle or deer might. For example if they were attacked by a pack of Orange Yellow wild dogs then their watching out for danger as well as each other would mean when danger threatened one would run away, this would alert the others to scatter and usually reform the herd later. So there is the same tendency for Red tribe members to be similar to each other as with animals, so one can rely on the other members. This implies a conformity pressure like with Red animals such as sheep, and to believe each other or messages about threats is not accepted quickly enough.

With Red animals this causes some deviant members to be pushed to the outer parts of the tribes as semi outcasts, fringe dwellers, to be on lookout, being stronger to defend against Yellow Predators, etc. The evolutionary pressure then is for the inner sanctum of the tribe to be purified and those more deviant to the normal center to move to the fringe. This then is a communal or primitive communistic lifestyle where paranoia and suspicion protects them against Orange Yellow animals and people. Red and Blue are highly competitive and have little allegiance to deviants, when danger threatens they need to be not weighed down by loyalty to others.

In Red Orange the fringe people are found, but also this fringe tries to persuade the Red center to join them. Red has a go it alone philosophy and Red Orange believes in team work to be safer, so these two opposing philosophies are always trying to dominate each other. Because Red believes in acting as a loose group of loners they can seize on an excuse to exile or even kill unwanted offspring, they believe they have the individual right to decide this while Red Orange believes this should be a group decision. Red Orange as a group of misfits finds protection in working as a team and tries to enlist Red people in this philosophy.

As with Red animals some of their children will be more conformist, more conventional and so be moved back into the main Red center leaving the Red Orange team. Other offspring from the Red center will be deviant in some way and moved out to the Red Orange fringe, so there is a constant movement in both directions of people between Red and Red Orange, and between the survival strategy of being loners or team players.

Such deviance in Red might be of many types, and refers to abnormal in the sense of a normal curve rather than something necessarily wrong with them. For example if someone is stronger, smarter, dumber, lazier, than the normal average then they might be urged into the Red Orange fringe. Stronger people than the average might move to the Red Orange fringe to help defend the Red center, evolving as a defensive army. People with unconventional ideas such as sects, inventors, those with mental illness, etc might also be moved to the fringe.

The center is usually of people who conform to each other so it can move in a coordinated fashion, so the Red center has a kind of orthodox belief and heretics to this tend to move to Red Orange. This was seen in the evolution of Red Communism where it was sometimes more important to believe in the same things than to be right, as the Red Orange fringe would protect them, also with Christianity and Islam where deviants to the accepted doctrine were sometimes killed. Red dissidents to this orthodoxy would be expelled to the Red Orange fringe to work, defend the Red center, etc. So this Red Orange fringe evolves as a ring of unconventional members around the Red center and sometimes a place for innovation, dissent, etc. It is more important that all be in agreement in Red as it is this conformity that ensures their survival and evolution, for example there can be a competition to rise in the Red Communist Party and by denouncing others as deviationists then they can rise higher in it.

Red can also contain people who are in the Blue color code, and so there can be a struggle in the tribe between Red and Blue. Blue is like Red except they want to settle down in one place instead of being nomadic, Blue believes in Green Blue private property and Red believes in Green public property. For example a Red tribe might be nomadic but some people in the tribe want to settle in one place and start farming, or have a fenced ranch instead of grazing on public lands.

### Red Orange

The Red Orange fringe might also contain people like Blue Indigo, who interact with Red Orange and try and get them to negotiate with Yellow predators instead of fighting them because they see them as potential Violet talented allies. So Red Orange for example might be a warlike fringe protecting Red, and some of their members might be Blue Indigo and regard Yellow raiding tribes as potentially Violet tribes to partner with in business and trade. So there can be a mix of Red and Red Orange, Blue and Blue Indigo each trying to convince the other and adapt according to what the rest of the Roy or Biv systems are doing.

As with Red Orange animals a change in circumstances might make some fringe dwellers more able to survive and so they might move into the Red center and become the new model to conform to, and the old Red conformists move to the fringe as deviants to this new order. This happened in the Red Russian Communist Party where different factions developed like Schisms57F[[58]](#endnote-58) in Red early Catholicism, they then competed for supremacy and pushing the others to the fringe, sometimes exiled or executed58F[[59]](#endnote-59). So the fringe can also contain old discredited ideas that former Red people want to resurrect, this happens in science where a theory can become orthodox and those who don’t accept it are denied funding and ostracised. This happened in the Soviet Union under Stalin where modern genetic theories were pushed to the fringe by those who needed to conform to Lysenko’s ideas59F[[60]](#endnote-60). Red ideas might be espoused at meetings of the Red center, with the Red Orange fringe of other ideas not allowed to participate.

This will later evolve into orthodoxy60F[[61]](#endnote-61) in science and religion, and Red Orange as heretics, dissidents, cranks, believers in alternate theories, etc. We will see later that science develops a Red Orange fringe around its Red center, and also a Blue Indigo fringe around Blue as well.

The Red Orange fringe then represents the defensive ring around the Red tribe, just as stronger animals on the edge of a herd do. If Yellow predators such as human raiders, slavers, pirates, violent criminals, gangs, etc attack this fringe then Red Orange defends the Red center as much of their family is in there. They give warnings to the Red center to escape, and they defend and attack the Yellow Predators and tribes. The mix of Red Orange people allows for more innovation in defense, to try and make revolutionary defenses such as improving spears, traps, new medicines for injuries, etc.

The Yellow lions and human Predators attack this Red Orange fringe, as the Red center is warned, defended and is harder to get to. This evolves into warlike behavior in modern society, where vulnerable Red countries have their Red Orange armies defend themselves against Yellow countries and their Orange Yellow spies.

The weaker of those in the Red Orange fringe are eaten or otherwise beaten by the Yellow Predators and tribes, and this creates an evolutionary pressure to make them stronger and more effective in their defense. Eventually this pressure will usually make them strong enough to survive most of the time against the Yellow Predators, or Orange Yellow raiding parties. So if the Red Orange fringe evolves as a defensive army, the stronger of them survive and have families selected by evolution to be better soldiers. If Red forces some dissidents into the Red Orange fringe then this is a conscripted army. If they go voluntarily then this is a professional army, and often they evolve into many generations of soldiers as Red Orange.

Such an evolutionary path might have been followed as humans descended from apes. As the apes evolved and began to move on the ground rather than in trees there was a tendency to meet other tribes, form larger groups or tribes, and to intermarry with other groups. On becoming more vulnerable on the ground to Yellow and Orange Yellow Predators such as the version at that time of lions and hyenas, the defeat of weaker Red Orange fringe apes evolved the Red Orange fringe so the stronger apes in time successfully defended their weaker Red relatives.

Eventually they may have been able to survive against Predators like this more and more without escaping by running or climbing trees. In the same way a Red tribe of humans might evolve by having a strong enough defensive Red Orange fringe to survive against Yellow and Orange Yellow attacking tribes or animals without running away or hiding.

## Three Red Orange Red Types

The evolutionary pressure on Red and Red Orange apes and humans would have had 3 outcomes as in the Nature chapter, tending to create 3 different types.

### Type One

The first type as with animals is those who fail to develop an effective Red Orange defensive fringe, and so are attacked successfully by Orange Yellow Predators. Orange Yellow is also evolved for speed and stealth so usually Red cannot outrun them easily, and so Red also needs to be vigilant and somewhat paranoid. This then would reinforce the action of Orange Yellow Predators to confine Red animals such as Chimpanzees to trees, making it harder for them to evolve out of living in trees, etc. So in flocks of birds, schools of fish for example there is a skittish behavior even when there is little or no danger, to be ready to flee instantly from danger from Orange Yellow. If this Orange Yellow pressure lessened then the Red animals like chimpanzees might eventually regrow a Red Orange fringe and attempt to descend from the trees again. For example stronger and unusual, even mutant chimps might be deviant offspring in the Red center, and these are moved to the Red Orange fringe. If these are more successful against Orange Yellow Predators such as wild dogs then the stronger Red Orange apes might intermarry and recreate a more permanent strong Red Orange fringe like the aforesaid evolving army. Also a lessening of attacks from the Yellow Predators would allow more of these fringe Red Orange chimps and humans to survive as they began to defeat the Orange Yellow and Yellow Predators.

So those unable to develop a strong enough Red Orange fringe would have their stronger apes and humans eaten or defeated, and this would have kept them as Red, like the Chimpanzee that flees Predators. Such a Red tribe as humans would fail to have a strong enough defensive Red Orange fringe and so would evolve a personality, tradition, etc to retreat, hide, scatter when attacked, be paranoid against persecution, etc. For example some tribes in the Amazon rainforest might be like this, retreating into the forest from Yellow raiding parties from modern civilizations. Their defenses would be ineffective against modern weapons such as guns, and so their Red Orange fringe would be usually beaten.

In the same way Red people or apes might develop a Red Orange fringe of animals to help protect them. For example they might domesticate Red Orange dogs as defenses against Orange Yellow wild dogs, wolves, hyenas, and so on. As the Red Orange fringe learns to protect their Red center they can then also evolve a relationship with Red animals and so a Red Orange fringe of humans might start to also protect and shepherd Red animals such as deer, sheep, goats, etc from Orange Yellow Predators.

They might also keep larger livestock such as Red Orange Buffalo because they would assist in chasing off Orange Yellow Predators to protect their own young. So this gives an evolutionary pressure on some animals to be domesticated as a Red livestock and as a Red Orange fringe defender. Those less suitable for this role might be eaten or released, so their genes become purified as conforming to an ideal as in Red or breeding for strength as in Red Orange. For example in sheep or cattle a high quality is sought but also for them to be very similar to each other.

Other animals might be used as Red to warn about Predators. For example some Red animals might be used as lookouts as they might call out in fear when Predators are nearby.

### Type Two

The second type would be those apes or humans that formed a stable Red center and Red Orange defensive fringe. If these survived then evolutionary pressures from the Yellow Predators would strengthen Red Orange and Orange Yellow Predators would strengthen Red. This then would evolve in apes and humans more altruism in helping the Red weak, warning others in the tribe, Red Orange sacrificing themselves for Red in defense, etc.

The apes or humans that developed this Red Red Orange mix would have evolved from this Yellow Orange Yellow Predator interaction the flexibility to fight and also to flee according to circumstances. Like an arms race the attacks from Yellow tribes would inspire them to improve their tactics, weapons, strategies, etc in Red Orange based on strength and the attacks from Orange Yellow tribes would evolve Red abilities to detect spies, thieves, deception, misinformation, etc.

The more average tribe then has this fringe acting like a shepherd or policeman of the Red center against attackers, which later can evolve into a legal and policing system. For example a Red Red Orange tribe might have some of its own members acting as Orange Yellow thieves and Yellow violent criminals, and so Red Orange sometimes would have to weed them out like a shepherd or policeman.

### Type Three

In the third group some apes would have been able to defend against Predators in their Red Orange fringe but not to protect their Red centers and so the selection pressure would have made the species evolve into a Red Orange only kind. Here then the weaker offspring and sicker apes or humans that were Red would be more quickly beaten or killed and so the Red center would collapse. One example would be gorillas which are strong enough to defend themselves as Red Orange but not to defend weaker Red relatives from such as Orange Yellow hyenas and dogs. So such a human tribe might become strong and warlike, but defensive and less able to be secretive and deceptive like the predators attacking them. This is because the genes that enable them to run away and hide successfully get eliminated as these tactics don’t work in this type. The sick and weaker members of the tribe might be unable to be cared for as Red Orange might be often at war with Yellow tribes. In another example a Red Red Orange tribe might have their Red Orange fringe as soldiers and usually rescues injured ones for medical treatment. In Red Orange only tribes though they would be more constantly at war and so might not be able to care for and protect their wounded and sick, this is also like a herd of Buffaloes that cannot afford to protect weaker members of the herd that get targeted by Yellow predators like wolves, often sacrificing them to let the others get away safely.

If the Yellow raiding pressures later lessened such as with those Predators declining in numbers or losing the war then this pressure would be reversed and then the Red Orange ape or human might again evolve a Red center. For example their young, weak, sick, old, etc would survive more and those would intermarry to form a Red center of animals weaker and stealthier than the Red Orange fringe. This also tends to form a Red government where the herd starts to be directed in more secretive and deceptive ways rather than relying on strength and numbers.

So this pressure from Predators can account for the three types of apes and humans, and tend to evolve different species, races, tribes, and eventually nations. This creation of different types can define not only the physical characteristics of the ape and eventually the human, but also of their personalities, intelligence and instinct for flight or flight, and how they care for other tribal members. A Red Red Orange tribe can then evolves as a society with three different kinds of laws and traditions.

Also there can be several Red and Red Orange tribes interacting with each other. For example two Red tribes might be relatively friendly as they are not Predators of each other. A Red Orange tribe might form an association with a Red tribe, where they subsequently intermarry, where the Red Orange tribe allies with the Red tribe and protects them in exchange for food and the Red tribe helps them with their ability to hide and be deceptive in attacks from other tribes, etc.

### Orange

Next is the Orange color code. As explained earlier these can be explained as a mix of human and animal, animals only as in the Nature chapter, or human versus human tribes.

The Orange animal and human tribe, or a mix of the two, is typically part Predator and part Prey. One might have a partially domesticated dog, coyote, wolf, that can turn on you as Orange Yellow or help defend you as Red Orange. With members of the Orange tribe, some might act like Red Orange and defend the Red tribe against Yellow raiders, and others might act more like Orange Yellow and attack the weak in the Red tribe.

So members of the tribe can start acting like police, judges, in that they decide whether to defend someone or attack them. Since this is a balance between Predator and Prey it gives a system of justice. An Orange tribe might sometimes ally with Orange Yellow and sometimes with Red Orange according to what it gets from them. In exchange they moderate the hot war of Red Orange versus Yellow and the Cold War of Red versus Orange Yellow.

For example the Yellow tribe as warlike Predators attacks the Red and Red Orange tribes and steals some of their women, food, livestock, horses, take slaves, etc. The Orange members or an Orange tribe allies with Red Orange and fights against this like a Red Orange shepherd.

The Orange Yellow tribe might attempt to steal from the Red tribe by stealth, and their Red Orange fringe tries to protect them. The Orange tribe or members might also steal from Red like Orange Yellow and Orange might regard this as part of their payment for protecting the Red and Red Orange tribe, this is how shepherds evolve eating some of the animals they protect and police being paid in taxes by the people they look after. Sometimes this taxing of the herd or the population might be more than they would lose from being attacked or robbed without protection, for example tribes without police do not get wiped out and Red prey like Gazelles survive against predators by breeding faster than they are eaten.

Red Orange is a fringe that evolves from Red and so has little choice but to defend them. Orange can also do this but only in exchange for acting like Orange Yellow sometimes, and thus being paid in corruption for being a shepherd or policeman. So an Orange policeman might protect against violent crime but steal from crime scenes, shake down Red people for money and favors, etc. A human might be Orange in that he shepherds Red sheep, but he also acts as Orange Yellow and eats some of his Red flock, they don’t realize he is doing this because he does it deceptively like a fox so as not to scare them. Often in a society then Orange police are corrupt and steal as well as do their job of protecting the weak.

Orange police as tribal members then evolve to allow Orange Yellow petty theft against Red to some degree, and act as Red Orange to fight more violent crime by Yellow. Often Orange Yellow become partially domesticated criminals and snitches, grasses, informants, etc for Orange and receive either food or are allowed to attack Red sometimes in exchange for helping to defend against Yellow or to tell Orange what it is doing.

For example an Orange shepherd might have domesticated Red Orange and Orange Yellow dogs and feeds them from the Red flock in exchange for them helping him to guard and move it. They might also sometimes kill Yellow predators like wolves and lions and feed those to the dogs.

Just as Red Orange guides the movements of a herd to keep the strongest between the attacking predators and the injured or younger animals, the domestication of animals such as dogs evolves a Red Orange sheepdog to herd them. In the same way an Orange policeman domesticates some Orange Yellow thieves and allows them to operate, even accepts bribes in exchange for information about Yellow criminals and tribes. Also he domesticates Red Orange tribe members who would normally act like vigilantes as a strong backup if Yellow attacks and so Red Orange becomes a partner or ally to Orange. Police act as Red Orange by patrolling areas where Red people are weakest to keep criminals at bay.

Red Orange gets information passed from Orange Yellow on its enemy Yellow and in turn lets Orange Yellow sometimes attack Red. Orange also helps Red Orange to defend against Yellow and so Yellow survives partially because of how much help Orange gives Red Orange and so owes Orange favors. So for example some violent Yellow tribes like the Mafia might not attack Orange police because Orange can help or hold back vigilantes like Red Orange gangs. This acts as a domesticating influence on Yellow and also dampens oscillations of Yellow and Red Orange fighting wars with each other. So Yellow is afraid of a backlash of a Red Orange Orange alliance if it attacks Orange.

The Orange tribe then thrives or declines according to how well it performs this balancing act. If it favors Orange Yellow too much then Red Orange tends to object and Red wants to not be involved, in this case Red people trust the police much less. If it favors Red Orange too much then Orange Yellow objects and Yellow has no incentive to cooperate. If Orange becomes too strong then like a police state Yellow and Red both suffer as the Orange Yellow part of Orange corruptly attacks Red and the Red Orange part of Orange is too strong for Yellow.

Eventually then Red and Yellow mount counterattacks and the Orange tribe or system can weaken. For example Red people feel persecuted and hide their wealth and goods more from Orange and Orange Yellow police thieves. Yellow can become like gangs of criminals attacking the Orange state, tribe, etc itself rather than Red Orange since it no longer has an incentive to go easy on Orange. So Orange then develops two enemies in Red and Yellow and usually declines. An Orange state might be like one held together by a strongman or dictator. Often people might support the lessening of Yellow violent crime and accept the Orange Yellow like police corruption for a time, and allow the rise of Orange, and then protest its excesses, and so the power of Orange can oscillate.

If Orange becomes too weak then the war between Red Orange and Yellow can reignite, and escalate until one is defeated or destroyed. Also the cold war between Red and Orange Yellow can grow more unstable or one wins, and the whole Roy system goes into violent oscillations and chaos, perhaps to the point of a failed state or society. The situation would be like Anarchy where the Orange police disappear in a society and many people either commit violent Yellow crimes, flee as Red refugees, have gangs of Orange Yellow thieves, and Red Orange vigilantes.

Orange also has elements in it that act as Indigo in the Biv system. So instead of attack and defense as their job in upholding the law, Indigo sees some of this as the movements of the marketplace and their role as coordinating rather than blocking. So with drugs and prostitution for example some of the Orange police might see these as victimless crimes to some degree and regard them as Biv industries, and might coordinate these by allowing some dealers to operate, turning a blind eye to brothels, etc.

This can also combine with the dealings with Red Orange and Orange Yellow. For example Orange is seen as the ally of Red Orange against violent crime but Indigo elements in Orange would see Blue Indigo elements in Red Orange who want to trade with Yellow and perhaps convert them into Violet businessmen. So for example Orange might have gang wars of Red Orange versus Yellow over drugs, but Indigo might allow some Blue Indigo in Red Orange to deal with Violet in Yellow if they cannot afford to stop this war. Thus the war between Red Orange and Yellow can also have aspects of business. For example drugs in South America might be seen as more like a Biv business while in the US they are seen as a Roy war on drugs.

In the same way Orange has Orange Yellow aspects and thus also can have Indigo Violet members who see themselves not just as corrupt police who steal but as salespeople and businessmen who make sharp business with the Blue elements in Red. So for example Orange might contain police who rob, kidnap for extortion, etc but also some who sell drugs on the side to Blue members of Red. So much of police corruption can come from the interaction between the Orange and Indigo color codes.

In any issue or controversy people typically take a position according to the characteristics of their color code. Thus Orange acts as a decider, moderator, police, judge, jury, etc in crafting rules, laws, etc that all parties will abide by. Indigo tends to get the opposing parties to do business together, make deals, coordinate trade between them, etc. Orange aims for security and Indigo for peace. So some kinds of industries are not tolerated in Roy, but in Biv they might be regulated and allowed to some degree.

For example at times Orange has handled Alcohol use in Prohibition and at other times it has been regulated as a Biv industry. In Roy business itself between Red Red Orange and Yellow Orange Yellow is seen as wrong, to the extremes as seen in Communism and Fascism fighting each other. In Biv business can be more important at the expense of Roy.

## Three Orange Types

Orange then according to conditions might be like a pendulum and swing towards more like Red Orange or Orange Yellow, or an even balance between the two. Orange evolves according to the strength and numbers of the Roy color codes to be either swing toward Red Orange helping to defend the Red weak and attacking the Yellow criminals, or to Orange Yellow exploiting the weak and protecting Yellow organized crime.

### Type One

For example in the first type a primitive Red Red Orange society might develop laws to punish Yellow violence and Orange Yellow thieves because Red Orange would be the dominant protectors like a kind of shepherd. Such a state would be like a Communist dictatorship where Orange Yellow and Yellow policies would not be permitted but Orange Yellow and Yellow tribes are tried to be converted to Red and Orange Yellow Communism. The Orange police here would have a bias towards Red and Red Orange people, others would be considered guilty until proven innocent as used to happen in the Soviet Union. An Orange shepherd if he found a Yellow Wolf or Orange Yellow Fox in his herd would assume they were up to no good, rather than giving them the benefit of the doubt.

### Type Two

More likely though is an Orange centrist policy. If Yellow and Orange Yellow take too much out of an economy then Red and Red Orange are either stirred into open war or are so depleted that Yellow and Orange Yellow kill the goose that lays the golden egg, starving or going bankrupt later themselves. It is in their own interest for policing to be more Orange than just Orange Yellow. If Red Orange are too strong in policing then eventually Yellow and Orange Yellow are forced into war to eat or otherwise survive, or are impoverished and as in Red Communism the economy becomes lazy and inefficient. This is like where Red animals like Gazelles and Red Orange animals like Buffaloes without Predators devolve because weaker animals are no longer killed. So allowing Yellow and Orange Yellow some crime or business in exchange for keeping the peace, and Red and Red Orange some protection and consumer rights makes for a balance.

### Type Three

A primitive Yellow Orange Yellow society would have their police as more like Orange Yellow, thieves who corruptly steal from the Red weak with the backing of their Yellow allies as the government or organized crime. Such a state might be like a Fascist dictatorship, a failed state where Warlords run territories, or where Organized Crime is strong in some areas. Red people would be weak and unable to hide themselves or their money and their Red Orange fringe incapable of protecting them, as occurred to the Jews in Nazi Germany. For a time then the Yellow Orange Yellow society steals from the Red people and if they do this too much then the Roy society collapses for lack of Green resources or they need to find more Prey elsewhere.

As apes evolved into humans they eventually intermarried more and so a society might contain all the Roy color codes in it even if they try and persecute or exile some color codes. For example a Red family might occasionally have a Yellow child who becomes a violent criminal in their society or perhaps an Orange Yellow child who becomes a petty thief, an Orange Yellow wolf in Red sheep’s clothing, they can be exiled such as in the Soviet Union to a Gulag but variations in genes cause them to be born occasionally. So the Orange policing evolves laws in tribes as they merge together, eventually to form towns. The subject of this chapter however is primitive societies, later we will see more complex ones.

If a Yellow family has a Red child then this might be exploited, tricked, etc by Orange Yellow family members and the community and so the Orange police protect them to some degree and make child abuse illegal. If they have a Red Orange child then it might get into fights with Yellow bullies and again Orange might protect them to some degree.

So as human tribes intermarry and form larger communities the forces that formed the twelve color codes start to blend them together again, but there are also the same forces at work producing new color code members even in the same family, tribe, town, etc. So Orange forms laws to regulate the balance between the colors so all can survive according to the characteristics of their color code and not dominate others to the point of destabilizing the system. Orange then polices while Indigo coordinates or regulates.

So even if a Red tribe with a Red Orange fringe does not intermarry with Yellow and Orange Yellow tribes they will still sometimes produce variations in their offspring and produce Yellow and Orange Yellow members of their tribes because the temptation of taking advantage of these people as Prey will become too great, and eventually Orange members will need to dispense justice. In the same way Red Red Orange Communistic societies develop Yellow and Orange Yellow criminals and Biv capitalists they must regularly indoctrinate, trick into revealing themselves with sting operations and undercover agents, imprison, expel, etc.

Orange Yellow tribes are like thieves, swindlers, knaves, cheats, etc and try and steal food, Red livestock, cheat people, etc by avoiding the Red Orange fringe guards of Red. If they are too successful then Red is depleted and they might starve later, so evolution tends to make Red clever enough and hard to catch or find so Orange Yellow manages to just survive. If Red is too good at avoiding them then selection makes only the best of Orange Yellow survive and so they evolve more trickery to restore the balance. Red then evolves like a consumer who becomes better at spotting Orange Yellow conmen and scams.

Orange Yellow can also contain Indigo Violet who wants to do business with Red instead of just tricking them, and also to convert them into Blue as trading partners. So Orange Yellow and Indigo Violet can have factions who battle for control of the Group. For example Orange Yellow is usually trying to steal from and con the nomadic Red, but there are also factions where Indigo Violet in Orange Yellow wants to do business and help Red to become Blue and to settle down instead of being nomadic.

The Yellow tribe tends to fight the Red Orange part of the Red tribe, so this is the basis of a hot war. An example might be Yellow violent criminals trying to rob Red people and Red Orange vigilantes and gangs battling with them. If Yellow is too successful then Red Orange is beaten or killed and then Red is too stealthy for them to catch or they might flee to another area, and so their own source of pillage is gone and they starve or become poorer than they might have been if they restrained their attacks.

They might also attack Blue Indigo instead of Red Orange. For example in Biv there would be fortified banks and businesses with Red Orange security guards which Yellow outlaws try to rob.

So if they evolve too strongly they sow the seeds of their own decline. If they are too weak then Red Orange becomes soft as fewer weaker soldiers and members get killed and so they devolve, then a stronger Yellow later might beat them more easily. A Red Orange army in peacetime might enlist soldiers who would not survive for long in wartime so the overall quality of the army goes down, then it might not be ready if attacked by a Yellow enemy later. Yellow also has some members which think like Violet and want to make business with Red Orange instead of fighting them, so Yellow can be like a Fascist61F[[62]](#endnote-62) or Authoritarian State62F[[63]](#endnote-63) with Violet business allies. Violet can be trying to do business with Blue Indigo militant unions while Yellow Fascists might want to destroy the Blue Indigo unions, seeing them as Red Orange Prey. In Nazi Germany there were Violet companies who had Blue workers, and some Blue Indigo unions, these unions were disbanded and merged into a state run union. The Yellow Nazis later killed and imprisoned some of the Blue Indigo unionists as Red Orange Communist sympathizers, and used Red people as slave labor or robbed them for their money.

Yellow and Orange Yellow can also develop relationships with animals. Yellow can have Yellow dogs which find Prey such as for example dogs that hunt for rabbits. They might have Orange Yellow cats that hunt for Red mice and Red Orange rats. Orange Yellow can have strong animals to help them attack. For example an Orange Yellow tribe might unleash Predators like Yellow wolves or cougars, riding Elephants, Orange Yellow dogs or hyenas onto a Red Red Orange encampment. They might domesticate wolves and dogs, and take some of the animals the dogs kill. This is equivalent to Yellow animals having an Orange Yellow fringe and taking part of their catch.

Yellow humans when attacking Red Orange might use horses, but weighed down with armor to fight Red Orange and so cannot catch Red easily. Orange Yellow might use faster unarmored horses to catch Red, and so the two might evolve to using horses for transportation, one a faster and weaker Red Orange Yellow battle and the other a slower and stronger Yellow Red Orange battle. So animals can be domesticated in Roy but also evolved to use in war.

In another example a Red Orange group might have Red cattle and horses they graze on open range Green land, and Orange Yellow tries to sneak in and steal them, while Yellow would battle and try to kill Red Orange before taking them. The Orange Yellow cattle rustlers might take some cattle and have to give some of them to Yellow stronger criminals like a form of tribute and protection if the owners come looking for revenge. So here Orange Yellow acts as a fringe of Yellow giving tribute and using Yellow for extra strength if they cannot get past the Red Orange guards. Organized crime as Yellow might have Orange Yellow petty thieves and if Orange Yellow find a target that has too strong a Red Orange defense then Yellow might cooperate with Orange Yellow and split the proceeds. This becomes similar to Orange Yellow hyenas attacking Red Orange Buffalo unsuccessfully and needing Yellow Lions to take part of the kill and get some of the scraps rather than nothing. It might have started by Hyenas attacking the Red Orange herd looking for Red weaker and young Buffaloes, and then the Yellow Predators joined in.

## Three Yellow Orange Yellow Types

Yellow and Orange Yellow can also evolve into three types like Red and Red Orange, as animals and also apes evolving into humans.

### Type One

In the first type a raiding party of Yellow apes might evolve into humans that feed off slower Buffalo, elephants, hippos, and defensive Red Orange tribes etc using their strength rather than guile to kill them. They would also tend to look after members of their Yellow tribe that were too weak to help catch large Red Orange Prey and so these have time to recover from injury or disease. Orange Yellow here is weak but highly competitive and could turn on Yellow at times, they could be the fringe of the Yellow tribe who are less trustworthy but weak enough to usually ignore.

### Type Two

In the second type a Yellow ape pack with an Orange Yellow fringe would attack Red Orange animals and also try to trap and catch smaller faster Red animals and so would have more flexibility for food. Since Yellow and Orange Yellow each catch some food they would tend to share it, but a sick Yellow ape would have less chance of surviving here because like in a pack of hyenas another member might attack them while they are weak. The balance of Yellow and Orange Yellow also creates a form of caring and cooperation between them which is limited. As they evolved into humans this forms a kind of Fascist society where the strong are glorified but the weak and injured might be killed as with the Nazis.

### Type Three

In the third type those apes not strong enough to kill large Red Orange animals would die off and their faster deviant offspring would be able to run faster and be more deceptive and stealthy to catch Red animals and hence be smaller and lighter, this might be like Chimpanzees. Their slower and stronger Yellow relatives might starve as they cannot catch food this way and Orange Yellow might not share much of their catches with them because they are highly competitive not cooperative, and so the apes evolve into Orange Yellow humans. As they evolve from the interactions with other color codes they become humans with a similar Orange Yellow social system and food supply. They might fight Red tribes and win by stealth and cunning in a kind of cold war that evolves eventually into what we see today as spying, espionage, etc.

In Roy then people tend to evolve two kinds of society, Red Red Orange Communism and Yellow Orange Yellow Fascism, which either fight in a Yellow-Red Orange hot war, or a Red-Orange Yellow cold war. According to the strength of Orange members and tribes these wars are controlled or they oscillate into the instability of the Roy system. A good example, though beyond the scope of primitive societies was World War 2. The Yellow Fascist Germans and some Orange Yellow allies attacked Red Russia with their Red Orange military fringe. As the war progressed the Russians built a strong enough Red Orange fringe to repel the attack and then with no Orange stabilization they retaliated and destroyed the Yellow and Orange Yellow invaders, which then became a cold war between other Orange Yellow nations and Red Communist nations for decades. Orange then in this case would have been the League of Nations, too weak to stabilize the Roy system, later the United Nations took over this role.

## The Green Blue Green Group

The interactions in the Roy group occur in open or public land as Green. So as in the Nature chapter the amount of Green resources available influences how the Roy colors interact.

Green Blue or Green Blue is like plants in the Nature chapter and here represents private property, so the boundary between Green as public property and Green Blue as private is like a fence. Some tribes regard a particular area of land as their own Green Blue property and want to fence it off or otherwise claim it, while others might consider private lands as a Green territory and want to tear down fences. The resources of Green Blue determine how the Biv groups interact, just as Green determines how Roy groups interact because Biv economics only works with private property.

There is a battle between Green and Green Blue like between public and private property in society. For example Green open range lands might be used for grazing Red livestock by Red Orange cowboys against Orange Yellow cattle thieves and Yellow robbers, but they all battle against the taking of this Green public land into private Green Blue farms and ranches because then they all lose. So Roy and Biv each take land and other resources at the expense of the other.

A good example was how the American Indians as a Yellow Orange Yellow group of tribes lived in a Roy environment feeding on Red Orange Buffalo and Red deer, and the white Biv settlers started making the land Green Blue or private and the Green open range became smaller and eventually was made into small reservations. As the Green Blue white man’s land expanded the Indians were squeezed with less Green resources and so the war over keeping the land Green or public property intensified.

Yellow and Blue then can also battle each other, like the Yellow Indians and the Blue farmer and settlers. Yellow sees Blue as a kind of Red and wants to convert it to Prey, like attacking the settlers as they were traveling. Blue sees Yellow as a Predator which should be expelled from Green Blue private property, but also as potentially Violet talented workers and management. So once the Blue settlers fenced off their land they attempted to drive Yellow off it or convert them to Biv settlers, and Yellow to dismantle the fences and fortifications and prey on them since nomadic Red people don’t build fences. Sometimes they made peace and Yellow tribes became part of Biv society, other times Biv settlers might have joined Roy tribes if their crops failed. For example Yellow Indians might have joined Biv societies as artists, and Blue settlers might have been captured in the wars as Red slaves or run away when their fortifications were breached.

If Yellow wins this fight too much then Green grows, Green Blue suffers, and the society like with the Indians before European colonization remains predominantly Roy. This would then evolve into warring tribes as described in the Roy section. Also the fight against private property kept Red Communism and also Yellow Fascism as Roy systems. So in a primitive society there are two elements of Red and Yellow, both against Green Blue private property but that also fight each other.

If Blue wins too much against Yellow then Green Blue grows, Green declines and a society has little public property which it needs. So a society without public roads, airspace, parks, etc makes it much harder for people to move around in. In this case Roy people don’t fit in well and can become squatters in parks and empty homes. Red might become homeless and transients, defending themselves with Red Orange members and gangs against Yellow thugs and Orange Yellow thieves with Orange police patrolling in the middle.

Biv responds by trying to get Roy people off Green Blue private property but in this case there is not enough Green public land or facilities and not enough Roy public housing or shelters. In some cases a Red indigenous race in a Biv society might reside in many Green parks in a Biv city. A Biv society if it does not have enough Green resources will still continue to develop Roy people because some people will naturally think and act a Roy, and so will always have homeless Red people. The best society has an optimum balance of the two.

Yellow and Blue can also try to cooperate though. If Red becomes too numerous then Violet assets, like leaves, fruit, seeds, flowers, etc are depleted and Blue suffers, for example the Blue roots of a tree are stressed when the Violet leaves of a tree are overeaten. So Yellow does Blue a favor by keeping Red tribes and animals in check by preventing overgrazing of Biv plants. For example a Blue farm might have pests like goats, rodents, birds, etc as Red animals that try to get their Violet crops, so Blue might introduce Yellow Predator animals such as hawks and wolves into the food chain to reduce the Red Prey. If Red people such as gatherers and nomads try to take the farm’s Violet food like fruit and grain then the Blue farm might negotiate with a Yellow tribe to attack the Red one and drive it away, Yellow organized crime might develop a protection racket with Blue to keep Red numbers low.

Yellow or the Violet members in there can also do business with Blue. For example Yellow and Orange Yellow might steal from Red and Red Orange tribes and people, and then sell these goods to Blue. So Blue here might be like a pawn shop or Green Blue fence, in the sense there is a fence between when the goods were public property in Roy and when they become private property in Biv. They are then taken by Blue to Blue Indigo who sells them in the Indigo market for other Indigo Violet and Violet goods, etc. Roy can then be a kind of underground economy where criminal proceeds are brought into the Biv system, often goods stolen by Red find their way to Yellow and back to Blue completing the cycle. This is also like Red animals eat Violet leaves which are formed by minerals brought up from the Blue roots and transformed by the sun’s energy into more complex organic compounds. Other animals eat the Red ones and are eaten in turn up the food chain, this is like the energy stored in the tissues of animals being taken by eating them, and then that animal in turn is eaten for its energy and building blocks all the way up to Yellow animals at the top of the food chain. Then when Yellow dies these minerals which came from Violet leaves return to the soil in their carcass and the Blue roots take them back and transport them to Violet again, completing the cycle. In Roy and Biv minerals move upward along with greater energy to form more complex organic compounds, then are passed from Roy to Biv or vice versa. Violet goods such as jewelry belonging to rich people can be stolen by Red thieves, and eventually might go through Roy to the Yellow mafia who might fence it back into the Biv economy by selling it to a Blue pawnshop, then it could be sold to Violet people again.

A watering hole is another place where Green and Green Blue in Nature battle each other. Biv trees might attempt to grow near the water, and too many trees would make it difficult for animals to drink, so some Red animals might eat their Violet leaves to make room and other their Blue roots such as Elephants knocking down Acacia trees in Africa.

With people the situation is similar for such as an oasis, river, lake, beach, etc. Some Biv groups might want to convert it to Green Blue, fence it in and not keep public property for grazing or parkland, so this can lead to fighting between Roy and Biv groups over whether the water is to be Green or Green Blue. In more advanced societies the struggle continues with public lands such as parks, streets, beaches, etc and private property trying to take them over, or more parks being formed, more roads, companies nationalized, government owned industries and utilities formed, etc.

There might be Green public resources such as toilets, water fountains, public trash cans, parks, abandoned buildings for squatting, etc that Roy uses to try and live in a Biv society. If these are removed then Roy groups can battle for their reinstatement or demand more of them by voting or knocking down fences. Other Green public facilities might be public housing, public transport, public meetings to complain about and make laws, public libraries, etc. If there are enough Green resources then Roy can function in Biv society. Usually if a society has a ratio of Green to Green Blue resources different from the ratio of Roy to Biv members then trouble can ensue.

## The Biv Group

The main difference between Roy and Biv with humans as with animals is that Roy color codes fight or ally with each other while Biv color codes compete or cooperate with each other. Also if there is a Roy group it usually interacts with a corresponding Biv group as each complements the other in the way it operates. People, like animals and plants, also tend to evolve and mutate, have deviant offspring, so a Roy society will have some children who want to make or move to a Biv society and vice versa. So Red Communist societies find that not only do Yellow and Orange Yellow people keep appearing in their ranks, despite their Red Orange guards, but that some people want to either leave and be in a Biv capitalist society, or try and turn Roy society into Biv. Blue working class people might find some offspring have Violet talents, but also some might want to live in a Red Communist society, have more public ownership such as nationalized industry and parklands, become Yellow criminals, etc.

For example Red workers in Communism might sometimes want to work as Blue workers for a private Green Blue company rather than a Green public one. In Yellow Fascism we shall see that some might prefer to be managers of Violet businesses or captains of Green Blue industry rather than Yellow captains of Green military dictatorships. So people and animals in Roy tend to move to their correct color code, and this often means a Roy person might want to move to their corresponding Biv position or vice versa.

Also if a society has varying amounts of wealth in different locations then part of a Biv society might turn into a Roy one where the wealth is scarce, and Roy areas can turn to Biv if they are wealthy. So a Yellow military man might become a Violet businessman which is why in Biv there is a military industrial complex63F[[64]](#endnote-64) as people leave the military for higher pay, a meld of Yellow Orange Yellow and Violet Indigo Violet. Just as Green tries to grow by taking Green Blue land, so too does Roy grow by converting Biv people into their corresponding color code and vice versa, for example Red Communist and Yellow Fascist societies tried to take over Biv free countries in World War Two. So for any society or ecosystem the color codes tend to reassert themselves until there are all the twelve interacting with each other. These aspects will be discussed in later chapters; the focus here is to show how the color codes manifest in Primitive Societies and later in more advanced ones.

### Blue

A Blue tribe uses Green Blue land in such as mining, farming, a ranch where animals are kept in one place instead of grazed on an open range, etc. So because they are next to the Green Blue color code they also maintain the fence between it and Green public land as well as gather its resources. The Blue tribe is similar to the Red tribe, though instead of wandering and gathering they stay in one place. Like the Red tribe this also breeds conformity, in that similar workers compete with each other and create specialized groups for some tasks in different levels in Biv.

As the Roy and Biv systems vie for resources, Blue attempts to convert Red people to Blue and vice versa, Red homeless people, Communist workers, people who work for nationalized or state industries are pressured to work in the Biv system. Also Roy attempts to convert Blue workers to Red Communism by infiltrating the system, trying to nationalize businesses, break up Empires to take over countries separately, etc. Blue usually has a Blue Indigo union which helps them to conform and act as a herd or tribe, protecting them from exploitation the way Red Orange protects Red from attack. Red attempts to convince them that Blue Indigo should be Red Orange and defend the workers rather than negotiate with Violet management who are seen as Yellow Predators only.

Losers in Blue’s competitive nature are sent to Blue Indigo, which is like the fringe of Red Orange. So there is a specialization as in Red and Red Orange, but here Blue works Green Blue for resources and Blue Indigo works on those raw materials, aggregates them into larger stores or products and negotiates their sale or barter, often forming a Cartel or union. So instead of Red Orange defending the produce of Red, here Blue Indigo negotiates its sale or barter with Violet. Violet and Blue Indigo can battle like unions and big companies and each tries to win with its economic power based on strength not deception. So Violet tries to break a union with replacement Blue workers or strikebreakers, and Blue Indigo sometimes tries to break a Violet company by denying Blue supplies in a strike or negotiating with Indigo Violet companies who compete with each other rather than forming a monopoly or Cartel like Violet. The objective though is to make a deal, not war which is the Red Orange Yellow objective.

Roy and Biv also compete to convert Red Orange into Blue Indigo and vice versa. In Biv, Blue Indigo might work to take products to market and do business with Indigo Violet and Violet as we shall see. In Roy they attempt to convert Blue Indigo to not give produce to Indigo Violet and Violet because they are the enemy Orange Yellow and Yellow and should not be dealt with. They attempt to disrupt the Indigo market and portray it as an unjust system compared to Orange laws and Red Orange shepherding of Red. In Roy they portray Red Orange as defenders of Communism battling Fascism or Authoritarianism. Instead of this Biv want Red Orange to convert to Blue Indigo and do business with Orange Yellow and Yellow, converting them into Indigo Violet and Violet with the prospect of cooperation and peace rather than war and security.

### Blue Indigo

Blue Indigo then contains losers from Blue like Red Orange has losers from Red, the offspring of Blue Indigo might be Blue and compete sufficiently well to return to that worker group. Also sometimes Blue has marginally competitive offspring who work less harmoniously with other Blue workers and so join Blue Indigo, or even other color codes.

Blue then like Red is more conformist and decisions are made more by individuals looking out for themselves rather than in Red Orange voting like a herd. Like the herd gets strength from acting as one, Blue gets bargaining power by competing and trying to do better than other Blue people, but because they are not team players they are weak and might agree too quickly to a bad deal, the equivalent of Red animals being caught by Orange Yellow Predators like foxes. Blue sometimes needs the defensive strength of Blue Indigo to form a union because Violet is strong like Yellow Predators and Blue people often need to team up in Blue Indigo to not get a bad deal by a divide and conquer strategy.

The losers in Blue then can be similar to those from Red, those more suited to business dealing than mining or farming, those that are slower and less agile for work, etc, those with non-orthodox opinions that allow other Blue people to get a competitive edge by ostracizing them, etc. For example with a limited number of Green Blue resources such as minerals or farmland Blue people are looking for an excuse to remove part of the competition, accusing them of being a deviant in some way such as sexual or religious can allow them to take over their property. So the Blue color code like Red tends to select mates that are conformist in beliefs, religion, etc and push those not conforming to the Blue Indigo fringe. Red uses Red Orange for protection and a place for Red offspring to return to Red from, that are good enough to survive without needing a herd. Blue uses Blue Indigo for protection in business when it needs to stand together as a team, and also for Blue offspring to return from if they become strong enough to compete without being part of a team.

In science just as Red is in Roy, Blue can be an orthodox world view formed from mining Green Blue knowledge. Here knowledge is considered property to be mined or cultivated and scientists consider their field or area of study their monopoly like a miner makes a claim. Intellectual property arises from considering knowledge private property versus Red open source and public domain knowledge. Blue Indigo can also include those with alternate theories that conform less to the Blue Orthodoxy because they lose in the highly competitive scientific fields but fare better in the fringe of science where scientists cooperate with and help each other more, and as with Red one of these Blue Indigo theories might become the new Blue Orthodoxy at some point. This is like a Blue offspring or idea being uncompetitive and being banished to the fringe, if it gets strong enough to stand on its own then it might return and form a new field of research, like a new Blue farmer or take over another one that has been made uncompetitive by the new discoveries.

## Three Blue Indigo Blue Types

Depending on the business situations, Blue and Blue Indigo can split into 3 types of society, like the three types of Red and Red Orange.

### Type One

In the first type, Blue stays as simple farmers and miners and has no good enough Blue Indigo union fringe to negotiate well for them. In this case there is a negotiation with Indigo Violet usually based on deception and they might not get a good deal because Indigo Violet agents can always go to another Blue farmer and ask for a further discount. Orange Yellow also tries to do business with them, appearing as Indigo Violet but only wanting to trick and con them, breaking down the Green Blue private property into Green public property by stealing from them. So though they are Blue, Orange Yellow treats then as Red prey.

They might have another tribe, family, etc who fulfills the Blue Indigo role for them, i.e. takes their produce to market and acts as a team to do more complicated work that cannot be easily done by individuals, for example a factory to mill grain into flour or smelting coal and iron ore into steel. So Blue Indigo can be like a cooperative for several different Blue groups and combines their different produce into a new product, attempts to unionize them and represent them like a Cartel64F[[65]](#endnote-65) to get a better deal and make more money for all. In this type however Blue people prefer to work alone and secretively, for example like a lone gold miner when no one knows where he finds gold, or a farmer who won’t work with other farmers to grow less and raise their prices by working together. They are by nature suspicious of others and tend to be deceptive in bargaining for business, which doesn’t work well in a cooperative.

This can be like the first Red Red Orange type, where Red animals or people had no Red Orange fringe and so survived by running from Orange Yellow rather than standing together like a herd. Here Blue might have no Blue Indigo fringe and so gets less for their produce from Indigo Violet but there is still business done with them instead of Orange Yellow theft. Indigo Violet might want to deal directly with Blue and cut Blue Indigo unions out of the business just as Orange Yellow wanted to get at Red and bypass Red Orange, or the Blue Indigo workers wither away from lack of employment because there are few Violet businesses wanting to make large scale deals just as the Red Orange part of the herd withered away if not challenged enough by Yellow. Small secretive and deceptive deals between Indigo Violet Agents and Blue workers might work well for both and so a Blue Indigo union might just make the Indigo Violet agent find another Blue farmer or miner to do business with. This is the problem with Blue Indigo unions in an economy, if not enough people are in the union then it can fall apart because Indigo Violet employers prefer non-unionized labor.

For example Blue workers might work directly for an Indigo Violet mining business who takes the Green Blue produce directly from them, and so the Blue workers don’t need a Blue Indigo union working to get them a better deal. If Indigo Violet weakens then Blue might evolve its own Blue Indigo fringe and so get better prices, do better packing of its resources, form a Cartel, take their raw materials to the Indigo market themselves, etc.

### Type Two

In the second type there is a good balance between the Blue workers and the Blue Indigo union people who sometimes package the produce, take the produce to market, negotiate its sale or barter, etc while Blue workers also do some deals with Indigo Violet dealers and so both Blue and Blue Indigo thrive more. They are more adaptable to do business with both Violet and Indigo Violet as they have the raw materials at a competitive price and a cooperative business for large scale orders. The second type of Red Red Orange was attacked and evolved by both Orange Yellow and Yellow predators and here Blue does sharp business with Indigo Violet and Blue Indigo does business based on strength with Violet. So while Red and Orange Yellow battled in Roy, in Biv Blue and Indigo Violet negotiate with each other.

Blue is inherently weak like Red because they must work and farm and represent a target, so they have a negotiation with Indigo Violet like with Red with Orange Yellow based on deception, trickery, bluff, misinformation, misdirection, etc. So Blue versus Indigo Violet represents one kind of business where each side tries to trick the other but ultimately makes a deal, Blue Indigo versus Violet represents the side of business where each side tries to force the other to make a better deal by being able to hold out for long enough with reserves of money and by being able to tie up alternative sources of produce so there is none cheaper elsewhere.

Blue also suffers when Orange Yellow poses as Indigo Violet, and is only trying to cheat Blue not do business with them, by trying to negotiate in good faith with Orange Yellow they might get stolen from. Also though Blue can try and convince Orange Yellow to convert and become a partner as Indigo Violet. Blue Indigo suffers when Violet turns into Yellow and attacks them like Predators on a Red Orange herd, one example is strike breakers forcing them to bargain separately as Blue or robbing the Blue Indigo warehouses.

### Type Three

In the third type Blue makes no deals with Indigo Violet and relies on Blue Indigo union protection. This is like the third type in Red Red Orange where Red Orange loses its Red center from attacks by Orange Yellow Predators and so became strong and defensive like Gorillas or Buffalo, and battles with Yellow Predators like Lions. Blue Indigo unions try and do business with Violet and might for example try and find new industries to unionize and join them, so they can squeeze more money out of Violet. Because they act like a Cartel they can make more money from Indigo Violet agents who don’t have the resources or clout to compel a batter deal, nor can they outwait the deep pockets of the Blue Indigo team. If the negotiations with Indigo Violet improve later they might form a more permanent alliance with Blue or they might go into business themselves as a Blue Blue Indigo partnership.

Blue Indigo also suffers from Yellow posing as Violet and tries to stop Violet changing into Yellow by moderating its business demands. So when Blue Indigo tries to negotiate in collective bargaining with Violet, Violet can change to Yellow and decide to try and destroy Blue Indigo unions as if they were Red Orange, painting them as like Red Orange communists. Also Yellow might try to break the power of the Blue Indigo unions, because they see them as Red Orange in Nature and their natural enemy. Blue Indigo might try and convert Yellow into Violet by trying to persuade them that it is better to try and do business together rather than fight, they can often withstand these attacks from Violet and Yellow because there are no weaker Blue workers who might capitulate or become scabs against Blue Indigo unionists.

## Indigo

Indigo is the marketplace in Biv and is where Blue Indigo takes the produce from Blue to sell or barter. Like Orange it acts like a policeman or judge, but here it is more the judgment of the market and supply and demand rather than the judgment of law and right and wrong. The role of Indigo is the Coordinator of those wishing to trade and cooperate in Biv, while Orange is the judge, moderator, expert, etc in Roy.

Like Orange, Indigo’s role strengthens on how well it does this balancing act, if Blue Indigo does too well, then Indigo Violet becomes impoverished because they don’t cooperate with each other, like the OPEC Cartel the market does less well because later there are fewer Indigo Violet buyers and sellers, and then later Blue Indigo has less market for its goods. For example in the Great Recession OPEC made more money off a speculative bubble in prices but the damage to the Biv world economy caused their own investments to plummet in value. If Indigo Violet does too well such as by breaking the power of the unions and making Blue workers bargain separately then large scale produce is found less in the Indigo market and it suffers over time from this lack of Blue Indigo purchasing power as it takes two sides to make a deal. For example as unionism memberships drop around the Western world workers get paid less and so can afford to pay less to Violet manufacturers, they can overproduce goods and not be able to sell them. If they cooperated more with workers and allowed a fairer percentage of the profits then they could afford to buy more goods and overproduction would less of a problem. So just like Red has an evolutionary pressure to improve by being attacked by Orange Yellow, Blue has a market pressure to improve by having Indigo Violet as a buyer. Just like Red Orange was kept strong by the attacks of Yellow, as we will see Blue Indigo is kept strong by trade with Violet. The Indigo market must avoid being bypassed by secret deals done between Blue versus Indigo Violet and large scale deals like union contracts between Blue Indigo versus Violet, they need to find a balance between cooperative and competitive strategies between buyers and sellers. This is like Orange police being weakened and bypassed by Yellow versus Red Orange gang wars and Orange Yellow versus Red thievery and fraud.

## Three Types of Indigo

The balance of the Indigo market then is like Orange, and can be split into 3 types.

### Type One

A Biv society might be a Blue Indigo market where unions of the Blue suppliers are strong and the Indigo market mainly misses out on these deals because they are negotiated in large amounts separately, for example OPEC selling to large oil countries and only a small amount of oil being traded outside this. A similar situation can happen in currency markets where fixed exchange rates such as in Bretton Woods65F[[66]](#endnote-66) were negotiated and defended for a long time, there was little opportunity for finding a better deal in these currencies but some other exchange rates still floated so these could be negotiated in the Indigo Market.

### Type Two

As with Orange, the best market for Indigo is generally a balance between these interactions, Blue Indigo versus Violet and Blue versus Indigo Violet. Indigo must also deal with Roy color codes posing as Biv. For example they might be trying to manage a Blue Indigo versus Violet negotiation but it turns into a Red Orange versus Yellow fight to destroy each other which should be managed by the Orange police instead of the Indigo market. They might try and manage a Blue versus Indigo Violet negotiation which turns into Red versus Orange Yellow, and Orange Yellow is just trying to steal Red’s property. So they also try to convert these back to Biv negotiations instead of Roy battles.

Also the Indigo market members might see where Orange Yellow is trying to trick Blue and warn Blue or try to convert Orange Yellow to Indigo Violet or call the Orange police. They might also see Red trying to trick Indigo Violet by posing as Blue when they really want to nationalize an Indigo Violet industry, for example Red Communists trying to bankrupt a Western Biv economy to turn it Communist. They might see Yellow is posing as Violet and so they warn Blue Indigo and persuade Yellow to negotiate as Violet or bring in the Orange police. They might also see Red Orange posing as Blue Indigo but like a union having no intention to do business but to destroy Violet like a Communist strategy. So Indigo has Orange members and tries to make business transactions lawful, but also it tries to stabilize the market and prevent violent oscillations as the Orange police do in Roy.

Blue and Violet can work against this strong Indigo market by Blue trying to do secret deals outside the market and Violet industries making long term deals with Blue Indigo cooperatives and unions, the Indigo market can wax and wane in strength from this and also oscillate between Types One and Three. If it weakens too much then Blue does better at the expense of Indigo Violet and Violet breaks up the Blue Indigo unions. For example weak Blue Indigo unions for the workers in film studios allow talented Violet actors to make much more money and eventually have to strike to stop them getting too much. Blue miners and farmers become more secretive and deceptive in the Black Market which cannot be traded openly in the Indigo market, which weakens it.

### Type Three

An Indigo Violet market might be where Violet talents produce goods that command a higher price and Blue producers like farmers, miners, etc get little money for their goods because of cut throat competition between them. An example would be Computer industries that charge a high price for chips made from cheap material from Blue like Silicon and Copper. So the market in this case is more deceptive, using bluff, trying to set Blue suppliers against each other to lower the prices, etc. Many of these deals also bypass the Indigo market because Indigo Violet agents go directly to the Blue producers and try to beat each other to the best deals, only the deals no one wants end up getting to the market. This is like a Flea Market or Swap Meet where Indigo Violet dealers target the Blue people who came to the market to sell their individual possessions, they offer them low prices and get the best stock and then resell it in the market later. The Blue people are left with the stock the dealers don’t want and so when most people turn up at the market later the best stock is at a higher price with the dealers and the worst stock is left for them to look at with the Blue sellers.

In another example some third world countries might get little money for their oil, minerals, coffee, etc from the deceptive negotiations of Indigo Violet. Also Blue Indigo unions can make deals with Indigo Violet to allow this to happen to Blue workers elsewhere and in return get good wages for themselves instead of passing money down to Blue, for example Blue Indigo gets more value for their money by allowing Indigo Violet to make oil and coffee cheaper, this is like a herd of Red Orange Buffalo not defending Red Gazelles from attack. Indigo Violet in return pays off Blue Indigo by not interfering with their high wages instead of looking after their talented Violet workers they represent; Blue Indigo workers think this kind of competition benefits them. Over time though the overseas cheap wages can lead to outsourcing of more jobs of Blue Indigo so their union strength is reduced, Indigo Violet agents get the upper hand because they increase the number of their competitive deals in third world countries with low unionization. An economy like this might have temporarily high wages in Blue Indigo hurting Violet industries like car makers, steel, etc while Indigo Violet makes big money from importing cheap goods from the Third World, over time the Violet industries get paid off by using Indigo Violet as unions crumble and they outsource more factories and labor to other countries. This is like Red Prey like Gazelles being more targeted by Predators, Re Orange hers like Buffalo see this as a reprieve but when the Gazelles are decimated the full force of the Predators turn on the Red Orange herds.

Orange try to convert Indigo to their viewpoint that more Indigo business deals should be criminalized such as short selling and insider trading, so there is a turf war between Orange police and Experts and Indigo coordinators and businessmen like the moving fence between Green and Green Blue. Orange tries to convince Indigo that it is wrong to try and coordinate in Biv, that Yellow and Orange Yellow will always try and take advantage of Red and Red Orange, and that the Indigo market needs to be run by more laws and be regulated. Indigo tries to persuade the Orange police that the market will eventually correct itself and buyers will eventually boycott sellers who do not trade fairly.

The injustices of the marketplace are kinds of criminal acts according to Orange, and can include violence and monopolies of Violet business and Blue Indigo Unions leading to Antitrust66F[[67]](#endnote-67) and Union restrictions on when they can strike. Blue producers can be unfairly paid and the Orange police see this as false and deceptive business practices like Orange Yellow fraud, Blue workers in the Black Market are seen as illegal and a crack down on them is urged. When an Indigo Violet salesman does a good deal with Blue, to Orange it can be like Orange Yellow attacking Red and is a crime. If Blue Indigo does business with Violet it is like a union battling with the capitalists, and trying to negotiate is futile, instead it is a war that can only be fought violently as Karl Marx believed.

Indigo on the other hand tries to convert Orange to its viewpoint. Often the Orange law is trying to regulate Blue Indigo unions versus Violet management in collective bargaining rather than let them negotiate between themselves. Where Orange police try and stop Orange Yellow from stealing from Red, Indigo tries to see it as the market in action and both Indigo Violet and Blue can benefit from sharp business in a double win. Where Orange sometimes allows Orange Yellow to attack Red to pay them off for information about Yellow, Indigo sees this as Indigo Violet agents preferring to look after themselves in doing direct deals with Blue suppliers rather than looking after their Violet clients and this competition brings prices down. So while in Roy each color code is evolved by being attacked, in Biv they are evolved or improved by doing business with each other.

Orange sees the battle of Red Orange versus Yellow as a violent war between Yellow criminals and Red Orange defenders, for example gang warfare over drugs in America or Mafia wars over territory that needs to be stopped. Indigo tries to persuade Orange that Violet versus Blue Indigo is a kind of market force but it also tries to bring these negotiations into the Indigo market like the Orange police try to control these wars. Sometimes this needs to be allowed in Biv as well, that the Blue Indigo union demands negotiated with Violet management need to be fought out like a heated negotiation and strikes and strike breaking are the Biv version of gang wars. Orange tries to reduce Orange Yellow versus Red crime, Indigo also tries to reduce these deals as their secretive nature makes them chaotic and dangerous for the stability of the economy as was shown in the Great Recession67F[[68]](#endnote-68). Derivatives68F[[69]](#endnote-69) are a good example, by bringing them into Indigo Exchanges they become open to some degree such as Blue Indigo large businesses hedging with Indigo Violet agents on Wall Street.

## Violet Indigo Violet

Indigo Violet is the next color code, which is the corresponding group to Orange Yellow. So while Orange Yellow survived by being a knave, a liar, a thief, etc, Indigo Violet survives by being a sharp businessman and competing strongly against other Indigo Violet agents. They can represent Violet who survives by forming a cooperative like Blue Indigo does.

They are similar to Orange Yellow and so Orange Yellow tries to convert Indigo Violet to a Roy philosophy and vice versa. Orange Yellow sees the Roy system as best where it survives by tricking and stealing from Red, by being a knave, while Red survives by outsmarting them such as by camouflage, hiding and running away at the first sign of danger. Indigo Violet sees the Biv system as also needing sharp negotiations but both Blue and Indigo Violet often come out ahead in a double win. So Indigo Violet might be a salesman in Biv trying to make the best deal without crossing the line and becoming an Orange Yellow thief.

Orange Yellow might be the spy in Roy fighting a cold war of Yellow Fascism against Red Communism, also like in the Gestapo in World War Two. Indigo Violet is like a spy trying to work out what Blue raw material suppliers are doing as they try to bluff and deceive each other for the best deal, they might do this to buy or short stocks in the Indigo Stock Market and profit when the news of Blue profits or losses becomes commonly known later. Indigo Violet tries to do tricky business with Blue, but sometimes Red might pose as Blue and really wants only to get away, and Indigo Violet wastes their time in trying to negotiate. For example Indigo Violet might be trying to sell Violet goods to someone who they think is a Blue customer but they are Red and think the Indigo Violet salesman is an Orange Yellow conman and have no intention of buying.

Violet is the Tribe of talented people who might be designers, craftsmen, artists, etc. They are the color code of ability, while Blue is the color code of willpower. So Blue gets more if they are determined to work harder, while Violet gets more if they have more talent. Like Yellow, Violet is strong from this talent but can have weaker offspring which regress to the mean, as lesser talents they might move to Indigo Violet and become agents or compete harder to compensate for having less talent. So then Indigo Violet can act as agents for Violet like salesmen trying to sell their services, they can also compete with them by shutting them out of deals by dealing directly with Blue suppliers. Violet can be a kind of meritocracy where the higher one goes the more successful and talented people are, they are also a cooperative and often a Mutual Admiration Society where they help each other to stay on top, while Indigo Violet succeeds by being competitive and trying to eliminate other Indigo Violet people to leave more for them.

Violet and Yellow each try and convert the other. Yellow sees itself as like a military force trying to beat Red Orange for spoils of war, and tries to convince Violet that it cannot win by trying to negotiate agreements with the Blue Indigo unions in Biv. So Yellow might see Red Orange as the defenders of Communism and sees its role as a battle to defeat them and for Fascism or Authoritarianism to win, as in World War Two. Just as Fascist Orange Yellow then is locked in a cold war to defeat Red Communism by stealth and deception Yellow is in a hot war to destroy Communist military defenses by strength and power.

Violet tries to convince Yellow this is wrong and the Biv viewpoint is right. Instead of trying to destroy Blue Indigo they should battle for a good deal with the militant unions and still do business, the Red Orange Free Fighters in their Roy countries should be negotiated with and a fair amount of the country’s resources given to them. Instead of trying to establish an organized criminal stranglehold on a country, or a military or political dictatorship Yellow should dominate with their talent and abilities and win government on their merits. So Yellow and Violet use their talents, Yellow to win in battle, Violet in a meritocracy. Orange Yellow and Indigo Violet struggle also, Orange Yellow to win by stealth in a cold war and Indigo Violet by stealth in negotiations.

## Three Violet Indigo Violet Types

Just like Yellow and Orange Yellow can form into three kinds of species so can Violet and Indigo Violet.

### Type One

In the first type trade between Violet and Blue Indigo is stronger, but that between Indigo Violet and Blue is much less. So here Violet Indigo Violet becomes more Violet as a talented elite who battle unions with heavy industry, a military industrial complex, etc while supporting each other through connections based on aristocracy, perceived superiority of talent, an Old Boy’s69F[[70]](#endnote-70) network based on schools they went to, being of the same race or religion, a Secret Society70F[[71]](#endnote-71) such as Freemasonry, etc . Their Indigo Violet agents are relatively weak and prone to infighting, so Blue suppliers are in a stronger position from not being divided by these agents and so Violet must usually battle with their union or Cartel representatives in Blue Indigo. Often they prefer to do this as they divide profits between them and Blue Indigo, form a stable monopoly by suppressing Blue versus Indigo Violet competitiveness and each side has powerful friends in the government which alternates from the hard Right to moderate Left. If Blue becomes more susceptible to the Indigo Violet agents then they can thrive more and undercut the power of Blue Indigo Unions, turning this into a Type Two interaction. It might do this by Indigo Violet trickery outfoxing Blue, while here Blue has outfoxed Indigo Violet and managed to avoid the divide and conquer strategy and uses Blue Indigo successfully to negotiate.

### Type Two

In the second type if Violet and Indigo Violet are balanced in their success then both make negotiations and profits. Violet makes tough bargains with Blue Indigo unions in some areas and its Indigo Violet agents make trickier negotiations directly with Blue suppliers, so both kinds of business are done and Violet Indigo Violet grows. So here the opposition from Red and Red Orange make Orange Yellow and Yellow evolve, and in the same way negotiations with Blue and Blue Indigo can make Indigo Violet and Yellow improve.

### Type Three

In the third type if Indigo Violet is successful with Blue and Violet is not successful with Blue Indigo then this is like Orange Yellow hunting Red successfully and Yellow failing against Red Orange. So as Yellow larger Predators died away and Orange Yellow became a species like a fox, weasel, etc here Indigo Violet makes business with Blue produce suppliers from Green Blue based on trickery and deception. Violet makes less business with the more powerful Blue Indigo unions and so this part of the Biv economy declines. Examples of this might be how oil companies make business direct with a country through bribery, corruption, bluff, etc and so Blue do not form a Blue Indigo Cartel or union for maximizing the price they get, but the larger oil companies lose control of the market to smaller independent operators. This kind of interaction then can be exploitive where each side tries to deceive the other. Violet might try and do business with Blue Indigo but Blue Indigo might really be like Red Orange and want to only defend against Yellow and not negotiate in good faith such as rebels in African oil countries. Blue Indigo Cartels can also be weakened by the success of Blue suppliers who think they don’t need to be in a union or cooperative and the Cartel has little to offer Violet companies while the Blue suppliers are too small and fragmented for the larger Violet businesses to handle directly, agents then have the upper hand.

### Violet Red

Violet is like grass, seeds, fruit and flowers and so they have a relationship with Red animals and tribes because Red is adjacent to Violet in the color codes. For example Violet charity might help Red poor homeless people with gifts, food, etc. Also Red can be like thieves and sometimes Violet responds the way Violet plants respond to too much Red eating, by building thorns, defenses, gates, alarms, etc. Often Violet is generous to the Red poor to avoid Revolution as happened in France where the Violet Aristocracy were executed. Violet people donating to charities meet and do business with other Violet people through these contacts, this forms a social network where they also support each other like a union. Often in wealthier parts of society there are enormous numbers of charity functions which become Violet social gatherings.

Homeless people and the poor are Red, grazing on Violet food such as donations, soup kitchens, trash cans, asking for spare change, etc. Violet tries to change them into Blue workers in the Biv system rather than being seduced by Red Communism and overthrowing them like Red grazing animals uproot and overgraze some plants that are too large or in the way.

Chapter Four

# Advanced Societies

In the previous chapter primitive societies were analyzed according to their Color Codes. In this chapter more advanced societies will be examined. In the next chapter artificial intelligence, machines and computers will be examined and their evolution in society according to the twelve Color Codes and in the final chapter Marginal Societies are where there is a combination of Roy and Biv interacting with each other.

Also in the previous chapter more simple relationships were analyzed between plants, animals and humans. As these ecologies and societies evolved Color Codes became more complex in various issues, for example in primitive societies policing was shown as it conforms to the Color Codes. As policing evolved it became more complex, including its relation to prisons, asylums, plea bargaining, the prisoner’s dilemma, rehabilitation, deterrence, sentence lengths in years, and so on.

Generally governments also evolved from the simple tribal leader to Monarchies, Dictatorships, Democracies, Theocracies, Authoritarianism, Fascism, Communism, etc. Each of these also manifests characteristics according to their Color Codes and cooperates or battles other Color Codes according to this. So for example Red evolved into Communism and Yellow Predators into Fascism and as in nature they war with each other as Predator and Prey. Economics also becomes more complicated as societies evolve from subsistence farming, hunting and gathering to barter, the creation of money, and so on to more modern financial institutions. Each aspect also functions as in nature according to their Color Codes.

Color Codes become more complex because they apply not just to single issues like survival, but to any aspect of people, animal and institutions. For example disease in a society might manifest according to Color Codes as might alcoholism and drug use, promiscuity and prostitution, homosexuality, fashion, sport, etc which are mainly unknown to primitive societies. So generally an issue if pervasive in a society will manifest in twelve Color Codes, which means that twelve groups of people, animals, institutions, etc will develop and interact with each other over this issue. As these issues grow with their Color Codes then they might split into more sub issues. For example drug use might have separate Color Codes for tobacco, marijuana, cocaine and heroin as they might be treated differently by Orange Police and Indigo market coordinators. So generally as a society becomes more complex issues split into classifications which each develop their separate Color Codes.

In a more complex society Red Color Codes can manifest on many different issues. The urge of Red people to conform makes their attitudes more similar to each other. They are seen as people on public lands in a society, public housing, nationalized industries to work in.

## The Roy Group

### Red

Red ideology evolved as a kind of primitive Socialism in which there was little or no private property, and people shared because they were so similar to each other. The enemy was Yellow and Orange Yellow which kept Red together like a herd or flock, and they were protected by Red Orange fringe dwellers like the stronger animals of the herd in nature. This evolved into various kinds of modern Socialism as well as the Red Communist state. Communism then was the evolution of the Red Color Code into a political and economic system in which Red people were dominant and other Color Codes subservient, expelled or eliminated. Its ultimate failure was because Color Codes spontaneously form in all groups of people and so a Red dominated system would be constantly battling other Color Codes inside its own country, for example Yellow thieves would be born to Red parents, Biv capitalists would always be trying to establish Free Enterprise, etc. Even if people were suited to such a government and economic system there would always be people being born with other Color Codes.

Violet represents the leaves, fruits and flowers of plants which Red feeds on. The Communist system then looked at the Violet parts of the Capitalist system and sought to manage these to support themselves. The basic idea is like Red forming an orchard or farming the Biv capitalist economy to feed themselves, this was Marx’s original idea that Communism would take over from an advanced Capitalist country but instead it started from the Russian primitive economy. Violet in the Biv system represents a plant like aspect of an economy. Unfortunately the control of business by Red Communism, like farming stops plants evolving naturally, prevented the Biv economy there from continuing to evolve as it was the equivalent of overgrazing on plants and breeding them in different ways than they might do freely in Nature hence Free Enterprise71F[[72]](#endnote-72). So the Biv economies of the world developed different kinds of defenses to being tamed like this by Red economies which led to the Cold War, like Biv plants using poison and thorns protected themselves with nuclear weapons and armies from being taken over. Communist countries froze the evolution of their economies and their economic development, this lack of evolution les to them falling behind militarily and eventually to their collapse just as domination of plant evolution by animals in nature fails.

Important in Socialism and Communism was the concept of public property as Green because it was considered to be too scarce to be decided who gets a home by free choice in Capitalism, housing was usually publicly built and owned though in practice those more powerful in a Roy economy get the better homes rather than those with more money. In Communism and Socialism people are highly competitive and looking for an excuse to get ahead, this can be by denouncing competitors as deviants or being against Red Communism. Dissidents to Red are moved to the Red Orange fringe just as in nature Red flocks of animals might move deviants to the outer part of the herd or leave them behind considering them a liability. There is an element of paranoia about Orange Yellow spies and saboteurs so Red secret police72F[[73]](#endnote-73) look out for them just as in a Red herd all members are vigilant in looking for Predators sneaking in to eat them, dissidents can be regarded as Wolves in Sheep’s clothing. So the model of the flock which moves together with a majority rule, hence calling Communist states Democratic, with an external stronger fringe of Dissidents and criminals sent to Gulags73F[[74]](#endnote-74) and prisons or even shot was seen as purifying the people and enabling an evolution into a new kind of Communist man. When under attack from Yellow countries like Nazi Germany or Orange Yellow such as later with CIA espionage and assassinations, Communist states such as the Soviet Union evolved stronger defenses by using these Red Orange deviants as their protectors like a Red herd using stronger animals to protect it. This kept out Yellow attacks from such as Nazism in World War Two, and Red remained vigilant for more subtle attacks such as espionage, sabotage, etc from Orange Yellow to the extent of Stalin purging the military and the Communist Party for spies.

The Communist Party members competed to appear more devoted to Marxism because Red succeeds by secrecy, deception, misdirection, etc which got them more food, better housing, and dissidents in the Red Orange fringe were expected to work harder, be soldiers in suicidal missions such as in World War Two, work in prison camps, etc for the benefit of the Red center. Communism was in many ways based on deception and secrecy, in a poor country trickery could offer a better way to survive than honest work so it worked better in poor countries. Ponzi schemes and multi-level marketing74F[[75]](#endnote-75), secret societies, even some cults and religions use this technique of creating a deceptive and secretive system that benefits those on the inside. It creates a mystique so that most do not realize what is true or false any more, except that they benefit more from promoting it to others than exposing its flaws. Such a system can grow quickly, like Blue and Indigo Violet plants that strive to compete with others by growing faster they can also collapse under a strong wind when their apparent strength is shown to be hollow. The same can be said for Orange Yellow systems which are like Fascism but less violent. Often they are built on secretive crony capitalism and false propaganda on how well their economy is doing, as happened with the Nazis before the war started.

In Red Communist societies Capitalism is seen as Yellow and Orange Yellow Predatory behavior rather than Violet and Indigo Violet business where both sides benefit, and so various forms of Biv business fell into disfavor in Communism and were usually tried to be replaced as Red. So sometimes even something as simple as a shop making tofu in Communist China which would normally be like a Biv system was seen as Yellow gangsters and Orange Yellow tricksters deceiving the Red people. For Red animals in nature attacks from Predators are dangerous and potential dangers are assumed guilty until proven innocent, so accused people in Red societies can be convicted on mere suspicion because of fear and also because removing a competitor gives the ones left a better chance to succeed. Rehabilitation was usually done by reeducation so the convicted person was sure to understand that subversive behaviors were wrong, this is like in modern societies where the Left tries to rehabilitate criminals by making them repent for crimes rather than just punishing them and locking them up for a time. Being Predatory was seen as a psychiatric condition, once people understood the Red Marxist system of living free from crime with the Biv system providing plenty of food like grazing animals they should be eager to join this society.

Show trials were seen in Stalinist times like this, where Yellow and Orange Yellow people were shown as trying to infiltrate the Red flock whether there was any real proof against them or not, protected by Stalin as the chief denouncer of others who acted as the center of the Red herd. People accused of being nonconformist were sent to the Red Orange fringe in Gulags. A similar theme was in the book Animal Farm75F[[76]](#endnote-76) by George Orwell where Red animals got rid of the farmer who acted like an Orange shepherd, protecting them in returning for using them as food. Eventually some of the animals evolved to take over, competing with each other for power and killing other animals.

Red people and animals naturally evolve the ability to deceive and hide to protect themselves because this is how they survive in nature to protect themselves from Orange Yellow Predators, like foxes that hunt by being deceptive and secretive. So Secret Police might be looking for Red people who really didn’t believe in Communism as well as Orange Yellow people who were also adept at deception, these Police would use deception by using plain clothes and deception by pretending to be part of a resistance to trap dissidents.

Red often formed by trying to take over and dismantle Biv systems, or to make these systems subservient to Roy ones. So private Biv farms might be broken up and distributed to smaller peasants when a country becomes Red Communist, or nationalized into state farms. Green Blue in Aperiomics represents private property and Green represents public property such as nationalized industries, roads, and other property owned by the state so takeover of an economy to Roy means private property needs to be made public.

One of the main motivations of Red Economics such as Marxism was to use Violet business, which contain the talented people and ability to refine raw materials into more useful products, as a source of wealth to run the Roy economy and also to protect itself from attack from Yellow and Orange Yellow armies, countries, etc. So the saying “from those with the most ability to those with the greatest need” was about this. The talented people in society such as doctors, engineers, etc were Violet as the part of the Biv economy that was kept and their talents used to serve the Red people for lower pay. In more extreme examples such as Cambodia the Khmer Rouge tried to remove even this part of the Biv economy by killing those educated in it, as the Violet talented people who were also seen as Yellow and Predatory and like Predators to be killed.

Food and other goods might be rationed so each Red person gets an equal amount, like the flock where each might eat an equal amount foraging on public land. Food might be grown on public farms, the equivalent of open grazing land, and then each Red person has an equal right to eat from it in theory. The tendency though was those who were most conformist in a herd of animals or the Red Communist state to get more food and resources, and those deviates were excluded to some degree. This can also be like a Red animal not feeding its young if they are deformed, and sometimes killing them if there is insufficient food.

Evolution in Red is different in many respects to Darwin’s ideas as the survival of the fittest, though this term was coined by Spencer76F[[77]](#endnote-77), because Red animals direct their own evolution by selecting mates according to a highly competitive environment and using Predators to weed out undesirable mutations. If Red animals were engaged in a one on one contest with Predators then certain animals might survive, but these would be different to what happens in real life because those that look for danger the best get a head start in getting away from them even if they have other undesirable characteristics. Survival of the fittest can be thought of as implying that animals would become stronger as weak ones are eliminated but in Red the strongest ones are eliminated by Predators and Red remains weak, surviving by speed, camouflage, and being alert.

The Red Orange stronger and slower animals are usually killed by Yellow Predators, but if they survive long enough then they develop a team instinct and a different kind of evolution works for them. Instead of the Survival of the Fastest and Hidden Red Orange has Survival of the Team, where by standing together they can overcome attacks from single Predators. Individual fitness is less important, a single Buffalo has little chance against Hyenas or Lions, but as long as they commit to each other then they survive much better. If Predators get inside the herd then they can turn on them with even more force, such as Buffaloes with horns goring the Lions, this is like Red Orange Communism where Red vigilance spots Orange Yellow and Yellow criminals, spies, and Capitalists, and the strength of the mob as Red Orange can overcome them. This was so effective in the Soviet Union that the West had difficulty in getting spies to know what was happening there and was one reason why Stalin was successful in convincing the West that life was so good there. This perception was mainly dispelled by Ayn Rand’s writings77F[[78]](#endnote-78) when she migrating to America from there.

Red can prosper this way, Red animals are still very numerous in the wild so this system is a kind of victory against many other evolutionary forces. For example survival of the fittest can mean many things for different kinds of animals. In Yellow the strongest animals survives by creating a team and working together, less fit animals can still survive and pass on their genes as long as they retain membership in the team, such as in a Pride of Lions, Pack of Wolves, etc. In Orange Yellow the most secretive and deceptive animals survive because those that are smarter like an Orange Yellow fox will get more food than those not as clever, being more fit need not be useful for Orange Yellow animals if they can sneak up on Red Prey they need not have much strength and stamina.

Red counters this by being clever like the Orange Yellow fox, because it is also weak. Its evolutionary fitness relies on it developing the ability to hide, to move as a herd to have many eyes looking for danger but to desert the herd and scatter when attacked, and to develop the strong Red Orange fringe against Yellow Predators. Red then sees itself as a homogenous group that works together for their own interests. Deviates of various kinds are relegated to the fringe, and as with animals their offspring if suitable might return to the Red center. Outside this Red Orange fringe in the animal kingdom are Predators and in modern societies these are Yellow and Orange Yellow Fascist and Imperialist countries and some neutral countries and organizations such as the United Nations acting as Orange. For example Russia formed a Red nation in its Communist revolution, and had Red Orange defenses in the Warsaw Pack78F[[79]](#endnote-79) and its military, as well as neutral countries like Switzerland and Sweden around it. Outside this formed Yellow and Orange Yellow Nazi Fascist countries like Germany and Italy, and in the East Imperialistic Japan. Yellow Nazi Germany wanted Lebensraum79F[[80]](#endnote-80) or extra space for its people to feed on, this was by controlling other countries, their Red Orange armies and Red civilians, and Preying on them like Predators. The Nazi Empire Preyed on other countries this way, enslaving other people’s to work as Red and to take their assets being like Predators taking from Prey. This Empire could have remained stable as had other similar Empires in the past such as Tamerlane80F[[81]](#endnote-81) if not for other Empires threatened by this, the British and American Empires for example. This is like Yellow and Orange Yellow animals establishing dominance over a territory in nature, the Red and Red Orange peoples accumulate assets and they are stripped off them by the occupying forces, and Red Orange resistance develops slowly against this if the Predation is not too severe or is infrequent as was the case in France and Denmark in the early parts of the war.

In the same way China was a Red country and was attacked before World War Two by the Fascist Yellow Japanese. Before this there were three main groups, the Imperial forces as Biv, the Communists as Red and gangs of outlaws as Yellow. Later it developed a Red Communist government, overcoming the Yellow criminal element and its Biv and some Yellow leaders escaped to Taiwan. Because these people were by nature right wing and believers in the Biv economy as opposed to the Roy one, Taiwan evolved with a strong Biv business base, and a kind of right wing Yellow Dictatorship. War between the two has often been prevented by countries in the West acting like an Orange shepherd, to stop the Red Orange Chinese military from attacking the Yellow government which they saw as Predators and a threat to Red people as Prey. This separation of Roy and Biv, as well as Yellow versus Red or Violet versus Blue has occurred in other areas, for example Vietnam was a Red colony under the French exploited for its resources. They developed a Red Orange fringe of resistance which finally overcame the French at Dien Bien Phu81F[[82]](#endnote-82), later the Americans tried to make it part of their Empire and South Vietnam was made into a Biv economy. The Red Vietnamese North saw this as Colonialism82F[[83]](#endnote-83) of a Red nation rather than Blue workers in a Biv Capitalist system and the government as a Yellow Dictatorship. The Red Orange North Vietnamese army eventually won and made Vietnam a relatively peaceful Red state after its Red Orange fringe atrophied from lack of conflict. Later when Globalization83F[[84]](#endnote-84) made Free Trade lucrative this created an opportunity for enough resources to be available and so Vietnam became a Biv economy again.

North and South Korea were also partitioned, the North as a Red Orange economy to defend itself and also to try and take over the South and reunite the country. The South for a long time was not Democratic and was a Yellow Authoritarian government with strong Violet ties to large businesses with Corporate Socialism84F[[85]](#endnote-85). The border between the two is Orange with the United States acting as Policeman here keeping the two apart, there is little Indigo market between the two though North Korea is potentially a large reservoir of Blue workers for the Southern economy. South Korea is now Democratic so its government can swing between Violet and Blue control, or from the Right to the Left.

Germany was partitioned after the end of World War Two, the Eastern part was Red Communist and the West was Yellow because of its lingering ideas of Nazism and Right Wing Ideology. As resources became more available in the West it became a more Biv economy though with an extensive Red welfare state and some Yellow problems with Neo Nazis. When the Berlin Wall fell the Eastern part was absorbed into the Biv economy, the Red welfare state being better for the people than the whole Red Communist state was.

Just as the Red Soviet Communist system collapsed through opposing Color Codes forming more and more dissension so too is China beginning to find a way to allow other Color Codes to express themselves in its system, particularly Biv business and Violet capitalism.

In the collapse of the USSR some repressed Yellow and Orange Yellow elements prospered as Oligarchs85F[[86]](#endnote-86) with corrupt selling off of Green assets of the state to become Green Blue private property. For example most assets were Green in the Aperiomics system because they were publically owned instead of being Green Blue private property. The problem was to start the Biv capitalistic system by privatizing these resources, making them Green Blue and then the Biv economy would build on them86F[[87]](#endnote-87). The problem with this was the opposite of the problems Lenin faced when the Russian state first became Communist. Marx expected that Communism would form in a Biv advanced society like Germany, making it easier to make the transition to a Roy system dominated by Red people. The Soviet Union tried to become a Biv country when resources were very scarce which are the worst conditions for this, if the Orange Police are not strong then Yellow criminals and Oligarchs as well as Orange Yellow corrupt and secretive government officials would make a grab for control of Green resources while the Biv economy withered through consumers not having enough money to support it.

The relaxation of controls on right wing elements by Red Communism, in effect the removal of Orange Policing in favor of Indigo market coordination allowed the Yellow and Orange Yellow parts of society to rebound quickly after decades of repression so the Police were not ready to handle them, so Organized Crime and Oligarchs flourished with their new power. This then led to oscillations in the Roy economy as the sudden changes caused famine among Red people, they then had less to steal and also were less able to act as consumers for goods sold by Yellow and Violet businesses that often went bankrupt or needed to be supported by the state. Often Green property was claimed as territory by Yellow and Orange Yellow criminals in this power struggle, such as Communist Party officials using their influence to corruptly grab assets in an area, other territory was controlled by those with influence in the partially Yellow Authoritarian Yeltsin government. As the Biv economy was forced to grow those territories tried to convert assets into Green Blue private property owned by Yellow and Violet Oligarchs, Mafia, and also former Communist officials.

So in a short time the Biv economy started to grow as privatized Green state businesses became Green Blue private property, Red workers for the state started to become Blue workers in that economy and the Indigo marketplace made some of these Yellow turned Violet oligarchs and businessmen very wealthy. As these oscillations started to subside Russia and its former parts have become more like a Western mix of the Roy and Biv economies. The former Communist parts of its government have become more like Red welfare and public property in a country like Germany. Orange Policing has become stronger and the previous rebound in crime in Yellow and Orange Yellow controlled more, protecting Red people and reducing the crime rate in Russia. The rise of Biv businesses has caused Red workers to join Biv companies as Blue workers, often making money by exporting to Western countries because of their low wages and highly educated workforce. Some Green resources which were stolen from the Red state and privatized were returned to it under Vladimir Putin, or resold. As long as the Orange Police and Indigo market remain strong the oscillations should remain much less violent.

A similar experience also happened in Yugoslavia, which was held together by the strong Orange Police state by Tito87F[[88]](#endnote-88) which kept the Yellow and Orange Yellow Serbs and Croats from attacking the Red Bosnians, and also keeping the Biv economy operating like a Western country to some degree. After this Orange Police state failed with the death of Tito then oscillations started to occur with Yellow and Orange Yellow Serbia and later Croatia attacking Red Bosnia, who had yet to develop an effective Red Orange fringe militarily because the Serbs had taken most of the military hardware of former Yugoslavia. Once they developed this Red Orange defensive capability, much of it from smuggled weapons to evade an arms embargo and later with US and UN help, the Red Bosnians began to achieve a balance of power against the Croatians and Serbs, the UN and the US creating an Orange Policing or Peace Keeping force. This dampened the oscillations in the Roy system and stability allowed the Biv economy to also rebound to some degree. Because these countries were relatively wealthy this allowed the Biv economy to regrow quickly as it had existed prior to the breakup of Yugoslavia.

In many countries there are mixes of Roy Color Codes, with Red and Red Orange minorities persecuted by Yellow and Orange Yellow majorities, prevented to some degree by an Orange Police. Red Jews in Germany were persecuted by Yellow and Orange Yellow Germans, particularly as the Yellow Nazi state took control but Pogroms have occurred through Europe for thousands of years against Red minorities. At times there is an Orange Policing, but the minority status of Red can reduce the incentive for this Policing to occur, also the Orange Yellow part of the Orange Police allows some exploitation and theft to occur officially. This can then lead to periodic oscillations in the Roy system, where Red numbers and wealth build up by deceptive and secretive business practices like usury88F[[89]](#endnote-89) in banking, and their Red Orange defenses devolve through times of peace. Then they are attacked, robbed, etc from the stronger and more Predatory Yellow parts of society, this is easier when they are from a majority of another race or religion because Red people can be targeted more precisely.

This leads to the impoverishment of Red people if the attacks are extensive, less so if they are low key and persist over a long time because Red people can be secretive and deceptive with their assets, also they evolve a Red Orange defensive fringe again. Red people can become terrorists, for example in the early times of Israel against the British and Arabs there. The impoverishment of the Red people leads to a lack of opportunity to rob them, Yellow people then give up for a time or become poor themselves for lack of a target and no other way to get money, this oscillation then allows Red to rebound in numbers and wealth, and over time they lose their Red Orange defensive fringe again, so the cycle repeats. Of course this occurs potentially in any situation with a minority race, for example Gypsies, the Bosnians mentioned earlier, the Kurds, Christians in Moslem countries, and so on. The Orange Policing system relies on a balance of Red Orange people to defend their Red neighbors and Orange Yellow people to connect to Yellow criminals in its ranks. If for example Orange is to protect Red Jews from Orange Yellow thugs then it needs to have Red Orange Police in its ranks, to deter these attacks, Germany had this with many Jews in the armed forces and Police in the First World War but these were weeded out by the Nazis depriving them of their protection. Also it needs to have neighborhoods strong enough to defend themselves from attack, the strength of the Yellow Nazis were too strong for Jews to maintain a Red Orange fringe of gangs to protect themselves, so hiding and escaping became the only defenses. If there is not enough Red Orange people sympathetic to the minority in the Orange Police then they can become dominated by Orange Yellow thieves of the majority population who plunder Red under the shield of their office, and so will do little to prevent attacks on the Red population.

To counter this sometimes a minority race attempts to control the government and Police with enough Red Orange people. This can lead however to a perception of being dominated by a minority, for example Fiji has gone through similar problems with an Indian minority who are weaker but more business savvy as Red, and seen as being deceptive in accumulating wealth controlling a Fijian indigenous majority. This creates an imbalance where the Orange Police have allowed attacks on Indians and a Yellow Fijian Dictatorship was created to protect the indigenous Fijians from losing control of their country. Violet business allies with the Yellow Dictatorship to make money to retain control89F[[90]](#endnote-90).

Red people are sometimes seen as feeding excessively on the Violet parts of the economy such as the wealthy, talented, etc, for example Red people on welfare and this is like Red animals feeding on Violet parts of plants in nature, Violet people in a Biv economy often complain about this as a drain on the economy. When this feeding is excessive the Biv plants which are like corporations and parts of the economy are hurt by this, often the Yellow Authoritarian parts of the economy are encouraged to attack Red people to stop this. For example a Red minority race might be seen as controlling too much of the Biv economy, the Nazis portrayed Jews as corrupting Violet business , this is like Red animals such as Gazelles overgrazing in nature. The Violet businesspeople, elite, Aristocracy, etc are similar to Yellow Fascist except Violet works in the Biv economy where resources are more abundant, so Predatory business practices are not as needed, together with Yellow people such as soldiers, Dictators in Right Wing governments in part of an Empire they tend to form a Military Industrial Complex. They use Yellow parts of the society such as Right Wing radio talk show hosts and TV Pundits to attack Red people as parasites, to reduce financial pressure on Violet businesses that often pay for these attacks indirectly.

This can then lead to the Pogrom effect where Red Jews were perceived as being a drag on the Violet Aristocracy, and the weak Orange Police allowed regular oscillations as attacks on them to get the wealth Red had accumulated, Yellow pundits aim for the wealth of the Welfare State such as reducing or removing pensions, Unemployment payments, Socialized Health Insurance, and so on. When property was stolen from the Jews and went to Yellow and Orange Yellow thugs, they often had abundant resources and could become respectable members of the Biv economy as Indigo Violet and Violet people, for example Nazis emigrating to South America after the war or Violet Oligarchs from Russia investing in Western property after the Red Communist people had some of their assets corruptly taken. A similar oscillation happened in the Second World War where Nazis stole from and killed Red Jews who had a weak Red Orange defensive fringe, sometimes this wealth was stolen and formed the fortunes of Western businesses even in Germany itself after the war. Red is stolen from by Orange Yellow thieves with the protection of Yellow Fascists or Organized Crime, normally this is on a small scale such as where Red consumers are conned by Orange Yellow knaves with the protection of Yellow governments, companies, this is like Orange Yellow petty criminals being protected by a Yellow Mafia that takes a cut of the stolen goods, then the criminal proceeds are traded with Blue workers as Yellow becomes legitimate Violet businessmen and it ends up in the Biv economy as legitimate wealth. Blue then acts as like the roots of a plant and receives this wealth, Blue workers use its capital, sell it in the Indigo market and a legitimate business forms on the proceeds of crime. A similar thing happens with drug money from exploiting addicts as Red by Orange Yellow dealers, and this can be banked in the legitimate Biv banking system and adds to the wealth of the Biv economy.

The process is similar in nature where Red animals might periodically grow in numbers and overgraze Biv plants, stripping them of Violet leaves, even eating their Blue roots and killing them. This leads to a perception in nature that these animals are a menace to the ecology, for example other grazing animals might see the devastation they cause to their food supply. So this animal might increase in numbers and thus presents a greater target to Orange Yellow Predators, and their numbers are reduced by Predators often before they can develop a Red Orange fringe of stronger animals to drive the Orange Yellow Predators away. So Red in this case is seen as a pest and its reduction in numbers is seen as protecting the plant life, for example locusts would come in large numbers and destroy vegetation for other Red insects, birds that feed on them would not breed quickly enough to control a plague.

Red then in society is seen as a threat like this and Yellow elements thus are seen as justified in attacking them, to get back some of the wealth it is believed they stole. If instead of one or more minorities a society is a single race or religion, or if for example half were one race and half another, then the Orange Police could prevent these oscillations because there would be too many of one race to allow themselves to be persecuted. Because Red has more security then they are more restrained and do not need to breed quickly because extra offspring are not needed, for example in Africa some areas may require large numbers of children to offset unpredictable dangers like Predators, AIDS, starvation, etc. Violet business then has less reason to complain because the Red welfare state is not growing erratically and can be planned for, and Yellow people such as Dictators or rival tribes have no excuse to attack them. So the weakened Orange Policing causes oscillation of Red numbers to be poorly controlled and problems to happen over and over like this, for example Predator attacks can be controlled by Orange as can rapes by men infected with HIV.

Such fluctuations also explain attacks between rival Yellow Authoritarian and Red Communist or Socialist systems. For example Red Communism was seen as a threat to Yellow fascism because of the infiltration of German business by Communist trade unionists as well as Red Orange gangs trying to control parts of Germany. So Violet businesspeople sponsored and helped the Yellow Nazis and Hitler to grow stronger to combat these perceived drains on the economy. Also Violet businesses and Aristocracies in other countries including the US were sympathetic to German business and often had investments, friends, relatives, etc there, so the effect was for Violet to perceive Red Jews and Communists as a drain on the Violet economy and to build a strong deterrent in the Yellow Nazis. Because Orange Policing was weak with the minority status of Jews and Communists unable to have a strong Red Orange component, Yellow and Orange Yellow became too strong, attacking Red Communism militarily as Yellow by excluding them from the Reichstag over the fire, and persecuting Jews for their money.

Fascism in Germany also evolved in response to Red Communist insurgency and the collapse of the German currency which turned the economy into Roy, because Roy economies work when resources are scarce and Biv when resources are abundant. The Yellow and Orange Yellow Nazis saw this as the Red menace damaging the German economy to try and take over the country, an attack by Red international Jewry who made a deal with Britain for the Balfour Declaration and a state in Israel in exchange for fighting against Germany in the First World War. It was also believed that Germany as a Violet and Yellow political country was stabbed in the back in World War One by its Red elements, and revenge for this was also wanted.

Authoritarianism can also grow from Violet along with the Yellow Military Industrial Complex, who see Red and Red Orange Communists disrupting the Blue worker base of the country. This is like Red grazing animals not only eating too much of the Violet parts of the plant but eating the roots and stopping it from regrowing. Red Communists might see Violet as like Yellow Fascists and try to make Blue go on strike or become Red Communists themselves. This was also similar to the German situation in the 30’s with Communist infiltration in the Blue workforce, and this also happened through much of the Western world. Fascism then as Yellow was seen as stopping the Communist insurgents and terrorists from Russia and Germany developed gangs of Yellow fighters who attacked Communists in the streets and Beer halls. In nature this would be like a new Red grazing animal introduced to an ecosystem overgrazing and a threat to plants, and so a new Predator to this animal is introduced or evolves to restore balance in the ecosystem. This is happened many times in biology where animals have been introduced accidentally, or even on purpose to try and kill another pest often with disastrous consequences.

This period can then be seen as oscillations in Roy much like before the French Revolution, where the Violet Aristocracy in France spend too much money on the American Revolutionary war to hurt their rival Britain, and in the process fail to feed the Red peasants who overthrow them and form their own concept of a Red dominated society. This becomes a partial inspiration for Communism with Marx and this general protest against the rule of the Violet Aristocracy by Communism leads to the decline of Monarchies and the rise of more Fascist governments to control this Red politics from growing. Then the Aristocracy is further weakened in World War One and as Red Communism overthrows the Violet Aristocracy in Russia and tries to spread to Germany this results in a Yellow fascist alliance arising in Europe to battle Red Communism.

This scenario can be just as occurs in nature. A new Red grazing animal gradually eats more and more Violet plants and damages them for other Red animals, causing a threat to the general ecosystem. Yellow Predators evolve to get the Red Prey under control until they become roughly equal as occurred with the Communist in the Cold War versus the US and Europe, however this more powerful Yellow Predator threatens other Red Prey as well so the Yellow state the Nazis built to fight Communism ends up Preying on other countries in Europe and persecuted minorities such as the Gypsies, Jews, and Homosexuals. Finally the Red political system starves because Violet businesses have made themselves too well protected and the Soviet Union falls apart in bankruptcy, however even after the fall of the Soviet Union there is still entrenched a system of Yellow Dictatorships in the Middle East which now fight against Red Muslim terrorism and Red Orange Jihadists.

Much of this destabilization of the system came from the collapse of Monarchies in World War 1. Typically Monarchies were formed by Yellow Dictators who fought each other and then formed alliances, dividing up territories between them as kingdoms, duchies, earldoms, etc. These Kingdoms in the Middle Ages supported Violet artists such as architects for castles, composers for orchestral music, painters of portraits and scenery, and so on. Red peasants were Preyed on to form Serfdoms90F[[91]](#endnote-91) and supplied these Yellow Predators with wealth, Orange Police evolved as a fair way of dealing with the peasantry for example the Magna Carta91F[[92]](#endnote-92) in England. Many wars were fought over these territories, there was a cooperative aspect with many of the now royal families being related to each other and keeping control by alliances, and a competitive one where with a perceived weakness a Kingdom or even a minor Aristocrat could start a war to gain territory. Over time this evolved into a Biv legal system where these Kingdoms supported commercial laws as Indigo to regulate the marketplace and sometimes borrow money for wars. They also became Orange to some degree to mediate disputes between Predator and Prey, or Criminal Law where courts and juries became used as well as a Police force.

Family bloodlines helped to define different Empires such as the British, Austrian, German, Dutch, French, Spanish, Russian, Ottoman, Italian, etc. With the French Revolution France became the first Empire of these to not have a Monarchy but was able to dominate the others under Napoleon92F[[93]](#endnote-93). Later in the First World War the German, Austrian, Russian, and Ottoman Empires collapsed. This lack of family ties caused world politics to become more unstable as there was less Orange Policing to stop Predatory wars, if someone was powerful enough to make war then they had little obligation not to. The Red Communists also worked to dissolve these Empires because they believed that countries isolated from Imperial support would be easier to turn Communist.

So both World Wars and the Great Depression which arguably caused the second war can be seen as the violent fluctuations of Color Codes unbalanced by unstable Orange Policing and Indigo markets, much as happens in nature. For example the top of a food chain might be Yellow Lions, and the bottom Red Gazelles, Zebras, etc. The oscillations of these Predator Prey relationships are dampened by the middle of the food chain, such as stronger Buffalo as Red Orange and weaker Predators as Orange Yellow foxes. Some food chains might have dozens of Predator and Prey relationships in a long food chain from top to bottom, and these links in the chain act as Red Orange, Orange, and Orange Yellow to stabilize it. If this stability lessens then there can be a battle between the extremes of the food chain, the grazing animals as Red and the top as Yellow who can massacre Red animals, then cause starvation for themselves and die off, then Red animals multiply in number, and so on.

Because Orange has the strategies of Red Orange and Orange Yellow they can also protect themselves to some degree against this weakening. For example if Yellow Lions increase in number the Red Orange part of Orange animals can grow stronger as the weaker ones are eaten, which tends to make them harder for Yellow to eat and so some of Yellow starve. If Red animals grow too much in numbers then the Orange Yellow part of Orange animals catch more of them, which causes their Red numbers to decline again. If this causes the Orange numbers of animals to grow too much then the decline in Yellow Predators reduces the strength of Red Orange animals because the weaker ones are no longer eaten, also the numbers of Red animals when they decline make Orange Yellow Predators weaken as they starve, so animals that are part Red Orange and part Orange Yellow decline in numbers. So Orange by acting as both Predator and Prey stops the ends of the food chain from fluctuating as much.

In a Biv society the economics of the Indigo market can also have dozens or hundreds of links where Blue produce is refined all the way up to the most talented Violet and back again. So Biv also has something similar to a food chain except instead of Predator and Prey there are Workers and Refiners. Blue minerals mined for example might be bought and sold, and improved many times before they reach the top of the Biv tree, to be worked on by Violet and then perhaps bought and sold down the tree again to a Blue buyer. For example a Blue worker might mine iron ore which is bought and sold, converted to steel, then ingots, then made into wire, and Violet artisans might make this wire into jewelry. Then this jewelry might be bought and sold back down the Biv tree, perhaps adding other goods to it such as jewels until Blue might buy it back at the bottom of the chain. Just as Orange stabilizes the Roy system, these buyers and sellers represent the Indigo market in the center of these deals and stabilize the Biv system.

As these Indigo links collapse in an economic Recession or Depression this can lead to wild oscillations in the Roy and Biv systems, the fluctuations in Biv as the economy has problems also affects Roy people, changing the levels of crime and welfare for example. A Roy society has a complex system of Predator and Prey in terms of Knaves and Fools, criminals and victims, exploiters and oppressed, etc. This is kept in check by the Orange legal system just as the Indigo market system keeps the Biv system stable. For example the same fluctuations in Roy occur in Biv. If the Indigo market is weakened then this is like the middle of the food chain collapsing which leads to wild oscillations like when Orange animals are weakened. Violet businesses normally deal with Blue Indigo cooperatives and trade unions who act as a counterbalance to the team nature of Violet cronyism. If Blue Indigo unions are weakened or collapse then Violet can act as a team and exploit Blue workers, who are naturally competitive against each other and make too much money like Yellow Lions eating too many Red grazing animals with no defenses. This can lead to a collapse in the economy because the Blue workers have such low wages they cannot afford to buy goods from Violet companies such as the example earlier of jewelry. They get so little money for their gold that Violet jewelry factors can be idle from overproduction, because people cannot afford the jewelry the Violet company cannot afford to hire people and this acts as a negative multiplier causing economic contraction through the economy.

Indigo Violet agents get cut out of this market because Violet gets such a good deal by going directly to Blue workers that it doesn’t need agents, this is like Orange Yellow animals such as foxes having their food supply wiped out by Yellow packs of Predators such as Hyenas. Dealers in the center of the Indigo market get cut off from both sides, the Indigo Agents have little to sell of refined goods and the Blue Indigo teams or unions have little employment because if they try and organize then they are bypassed by cheaper Blue workers. The economic system goes into Recession just as the food chain has starving animals, this is resolved by the regrowth of the Indigo market. As Blue workers realize they are losing money from Violet’s divide and conquer strategy they organize more into unions and cartels which lift their wages and prices for produce, this enable them to buy more from Violet and their factories, such as the jewelry example start to work more and thus employ more people. This acts as a positive multiplier and causes more people to get jobs elsewhere, for example snack bars for supplying lunch and work clothes and tools for the Blue and Blue Indigo workers.

As the Blue Indigo workers and producers are harder to bully by Violet’s crony tactics Indigo Violet agents start to get more work in bypass these unions and cartels to find Blue workers, farmers and miners who will bargain individually instead of collectively. The agents then have goods to sell from Violet which they take to the Indigo market, Blue Indigo unions and cartels now have goods which instead of going directly to Violet or remain unused are now surplus and are sold in the market often to Indigo Violet agents in return for their goods. If the Indigo market gets too strong then this is also like in Roy where the middle of the food chain is too large compared to the ends. Violet companies become too weak and start to collapse from the high prices and defensive tactics of Blue Indigo Unions and Cartels; this is like Yellow Predators starving when they cannot kill Red Orange animals such as Buffalo or Wildebeest93F[[94]](#endnote-94). This lack of employment by Violet causes Blue Indigo unions to fall apart as people look for work elsewhere, this is like weaker Red Orange animals surviving though they don’t work as a team in their herds. This causes Violet businesses to pick off these workers in the resurgence of the divide and conquer strategy which weakens Unions and Cartels further. Because Blue workers have become greater in numbers by having mostly left Unions and Cartels, because they no longer get better deals, the Indigo Violet agents become stronger as they bypass the Indigo market. This leads to a weakening of the Indigo into a Bear market94F[[95]](#endnote-95) after the previous Bull market.

According to the Aperiomics theory then these oscillations cause most of the economic and political problems in society, though they are partially chaotic and partially random and so are to some degree unpredictable. Much of these oscillations started from the French Revolution95F[[96]](#endnote-96) when Red peasants attempted to form a government without Yellow and Violet domination such as Royalty and the wealthy. Later economic and political events partially occurred because Red people after the successes of the French Revolution and under Napoleon formed their own political system of Communism based on the ideas of Karl Marx96F[[97]](#endnote-97). This was in response to the greed of Violet Capitalists in the Industrial Revolution97F[[98]](#endnote-98) to use the lack of Unions and Cartels to pay workers, farmers, and miners starvation wages and prices, used machinery causing many industrial accidents, used political influence to secure monopolies for themselves, and polluted the towns causing deaths from smog and dangerous chemicals. This inequality in society evolved Red Orange militant organizations trying to destroy this Corporate Socialist system and also formed Blue Indigo trade unions to get fair wages and conditions for workers. This conflict was mediated by the Orange Police and Courts, when they were too Right Wing or in the pay of the Capitalists this led to people flouting the law, using Industrial Terrorism such as the Luddites98F[[99]](#endnote-99), the Yellow and Violet persecutions of these made them stronger over time and led to the formation of an Indigo market rather than just a Violet elite rich prone to collapses from overproductions as they would not pay workers enough to buy their products.

This also evolved Yellow into an ideology as Fascism, Nazism, and Authoritarianism. In 1929 the Indigo market started to collapse worldwide as Blue Indigo Unions and Cartels had largely lost the battle against Violet companies for a fair share of the economic wealth and this left the workers without enough money to buy the goods of the Violet factories. As Marx predicted Capitalism appeared to be unstable because it would drive down wages of workers to be competitive and then not have people with enough purchasing power to buy the goods, also the large initial profits Violet made from this would lead to a speculative bubble which would burst with a recession.

The resulting collapse and penury of Blue workers made many turn to Red Communism which said the situation was caused by the Predatory business practices of Capitalism and Imperialism99F[[100]](#endnote-100), as these workers became more militant they were often attacked by Yellow businesses, governments, and gangs of Right Wing ideologues such as Adolf Hitler and the growing Nazi Party in Munich where Red Orange Communists threatened to take over Germany by force and make it the first Communist state. In the same way then that the Indigo market collapsed this led to the collapse of the Orange Police in countries like Germany and internationally Diplomacy failed to stop Yellow Nazism attacking Red Communism in World War Two. The current Great Recession also coincides with the speculative bubble from Violet businesses doing too well, the wealth inequality in America100F[[101]](#endnote-101) for example is the highest since the Great Depression. Blue Indigo Unions have also been under attack in the Western world, this resulted in a loss of wages for Blue workers as they competed against each other, and also against much lower wages of workers in Third World countries.

Religion also evolves in terms of Color Codes. Red Communism functioned in a similar way to religion because much of Christian religion was based on the Red Old Testament. In there the Jews were a Red minority in Egypt enslaved by Yellow and Orange Yellow, eventually freed, also the philosophy of religious leaders as shepherds and the people as Sheep is like Orange shepherds or Police protecting the Red relatively defenseless people from being Preyed on by evil criminals. The seeds of Christianity were also like this concept of Red as a flock, with God seen as a Good Orange Shepherd protecting their flocks of animals from attack by Predators and also themselves from attack from evil spirits and devils. The idea of temptation was to draw someone away from the flock and the protection of the Good Shepherd, this is like Yellow Predators trying to break up a herd and attack an isolated animals or an Indigo Violet Predator like a deceitful tempter trying to pick them off one by one.

In early Christian times Jesus was against the money lenders seen as Biv business and favored communal living in Qumran as described in the Dead Sea Scrolls101F[[102]](#endnote-102), helping those most in need as Red and not being greedy with possessions. Jesus had a message of nonviolence and turning the other cheek, running away from violence which is a Red philosophy when not having a Red Orange fringe of defense; this is how Red animals survive by running away and hiding rather than by fighting back like Red Orange Buffaloes. At that time the Roman Empire was Yellow and Orange Yellow, being Imperial in nature and occupied Jerusalem, and Red Christians and Jews developed Red Orange defenses and terrorism to fight against the Orange Yellow Romans and their taxation, etc. One way of handling this occupation then was Red tactics of hiding one’s assets, not being provoked into fighting Roman soldiers, and not holding a grudge. This resulted in a relatively easy time for the people because the Empire did not need to use violence often to control this area. So while initially nonviolent Christianity developed other Color Codes in it, which split it into many sects the way Red animals can split into different species and flocks. It became more militant against the Romans later after Jesus’ death, much as the Jews did later forming a Red Orange defensive fringe and rioting against the Roman Emperor Vespasian102F[[103]](#endnote-103). Because they were not strong enough this led to the destruction of the Temple, the killing of those violently resisting and the need for the others to run and hide as the Jews were exiled from Palestine. They would have been seen as Red Orange terrorists and a Red threat much like Fascist Italy103F[[104]](#endnote-104) later saw Red Communists in the 1930’s.

The Romans as Yellow and Orange Yellow Imperialists invaded and colonized Palestine, now Israel, and at times the Jews were nonviolent as Red, but over time with too much taxation and interference they developed a Red Orange fringe of defiance. Eventually this was quelled by an alliance between the Orange Yellow Roman administrators and local Red Orange people to act as an Orange Police force. In exchange for the Orange Yellow Romans to moderate their demands the Red Orange defenses agreed to lessen their counterattacks. This led in effect to an agreed upon law to administer the areas as an Orange justice system.

Christianity originally maintained the idea of Red communal living, nonviolence and non-confrontation with the Romans, also sometimes hiding their religion, like the strategy of Red grazing animals to Predators. As Christianity spread it became persecuted by the Romans, this caused it to develop a Red Orange fringe resisting openly and some were martyred for this. The Orange Police regulated this oppression to some degree so too much persecution became criminalized, eventually Christianity spread to all Color Codes so each person could do approximately the same as they did under the Pagan Gods or the earlier religion104F[[105]](#endnote-105) of the Romans. Emperors could be Christian and still defend and expand the Empire by Preying on Red people elsewhere, if they resisted as Red Orange then they were subjugated by force. Other Christians remained Red and espoused a nonviolent, still others a more violent Red Orange resistance to the Church’s enemies later as the Knights Templar105F[[106]](#endnote-106) against Islam. Orange Police became influenced by the Bible’s Ten Commandments otherwise Criminal Law in the Roman Empire was similar to before Christianity. It also spread to Biv systems as they evolved and so Blue and Violet also became Christians, religious orders became highly commercialized as Violet running farms and factories, being landlords, selling forgiveness and positions in the Church, while others as Blue were workers who sometimes protested about the wealthy Church. They developed resistance to this with Blue Indigo Protestantism106F[[107]](#endnote-107); King Henry the Eight when he took over the Church in England took the assets of these wealthy religious orders such as the Cistercians107F[[108]](#endnote-108) and Dominicans. So a religion might spread to all twelve Color Codes and then different sects fight and trade with each other.

Crime also evolved as a complex issue in modern society. In Red primitive tribes everything was communal and those going against the majority were deviates and expelled to the Red Orange fringe or worse. So in these societies the worst crime was not to fit in, to be different. Such deviationism can occur spontaneously though, given the natural variations in genetic coding.

For example orthodox sexuality can be seen as a standard family and homosexuals, promiscuity, prostitutes, etc seen as deviates from the Red norm and these are expelled or otherwise made unwelcome except in the Red Orange fringes. Thus a modern society tends to form a fringe of sexual and other outcasts from its orthodox center. They are deviates in the sense of not being in the majority, a gay organization for example might form as Red in a society where homosexuality is the conformist standard and deviates to this might end up on the fringe. The issue is not what is normal in sex, but whether enough people are similar enough to form a homogenous Red center and a Red Orange fringe of deviates from that norm.

In another example a Red society might be relatively promiscuous, embracing polygamy like the early Mormons and those unwilling to agree with this might have ended up on the Red Orange fringe. In Red society the primary goal is that all are in agreement on something, whether religion, a belief system, delusions, etc enough to form a group that acts in unison. So such a group might be a delusional religious sect like happened with Jonestown108F[[109]](#endnote-109), be against known science such as with Lysenkoism, and so on. It is not necessary for this common belief to be true, only that it acts as a common bond so people are bound together. Communism tapped into this need for conformism and those who didn’t accept some of its teachings or wanted to change part of it were sent to the Red Orange fringe to be imprisoned, exiled, killed, etc. Red people are highly competitive and willing to break ties with others if it helps them, so exiling rivals to a fringe group can gain an advantage. To conform then is safer because it gives others little excuse to turn on someone.

In Red Orange people are urged to pull their weight, not to shirk group responsibilities, love their neighbor as themselves, be Good Samaritans109F[[110]](#endnote-110), etc because they act as a team and derive their strength from their willingness to fight for and support each other Christians in this group might accuse those in Red of being unchristian, for example Red might be prejudiced against gays, not be willing to support the poor or their neighbors but to compete and scheme against them instead. In Red Communism people were also highly competitive, it was important to conform to a deceitful image of devotion to Marxism and hide away one’s real thoughts or others would willingly turn them in to be sent to the Red Orange fringe, usually a Gulag, the military or death. Red Orange people by contrast were exhorted to work as a team, were able to express dissident ideas more openly because they were in Gulags, others who were Communist believers openly worked hard as a team for the State.

Just as flocks of animals might split into smaller flocks as their size makes them unwieldy and unable to quickly respond to attacks so too does Red tend to split into sects and cults in religion, and factions in Red politics. So while usually friendly to each other such Red groups might grow apart creating different species in nature and different sects in a process the Church called a Schism. For example a Red religion might believe in an orthodox interpretation of Christianity, but over time those on the Red Orange fringe might have different ideas and so form separate Red centers where they believe something slightly different. So there arises a new orthodox interpretation in a new religious flock and they in turn develop their own fringe of dissidents. Because Red is highly competitive they could gain power in the Church by denouncing these others beliefs as Heresy, this happened to the Templars, the Jansenists110F[[111]](#endnote-111), and the Protestants.

For example the original Christian religion as it began to form in the Roman Empire after the death of Jesus might have had a Red center of followers who agreed with a single interpretation and others with slightly different beliefs would have been seen as declining in influence. In Red Communism the Bolsheviks and Mensheviks111F[[112]](#endnote-112) were slightly different in beliefs, the Mensheviks eventually were moved to the Red Orange fringe by the more deceptive Bolsheviks and most were killed. Eventually the early Church members would have formed different sects in this way, some became expelled into a fringe of the main orthodox beliefs and then moved away to form their own sect with a newly formed Red center of their own to sideline deviants from that new belief. Unlike with Stalin different beliefs were not suppressed as Heresy in the early Church until Theodosius 1, eventually the dissidents in the Red Orange fringe of Communism were treated more leniently such as with Mao, Tito, Che Guevara, Trotsky, Castro, etc and then went on with their own followers to try and build their own Red societies. Each in turn then developed their Red Orange fringe of dissidents.

In Red religion the devil might be seen as Orange Yellow, being deceptive and trying to wean a Red follower from the flock. This is like an Orange Yellow Hyena trying to break off a Red animal from a flock to be more easily attacked. So the religious structure in Red is to watch out for these tempters, which can become like a form of Paranoia, Red grazing animals in the wild need to be Paranoid to some degree to survive and the roots of Paranoia in mental illness may evolve in this way. It could also lead to the burning of witches112F[[113]](#endnote-113), Red people could denounce others as being deviants, Heretics, any strangeness could be an excuse to fear them as possibly Predatory Devils like Orange Yellow Foxes. They could also covet other people’s possessions and power and use accusations like these to remove a rival to the Red Orange fringe or have them killed. This evolved into the concept of the Secret Police in Communism looking for the Orange Yellow Capitalist or Fascist infiltrator trying to turn a Red into a spy against the people, often this was made up to eliminate a rival but the Terror was maintained as in the French Revolution so people would be on guard against any attempt to turn them back into a Yellow dominated society. For example the Reign of Terror by Robespierre was to avoid the return of the Monarchy113F[[114]](#endnote-114), the Red Terror114F[[115]](#endnote-115) under Stalin was to avoid Orange Yellow agents of the Nazis and Western Imperialism. Like in nature the battle against Red is to try and break up the anonymity, conformity, etc and split the flock, state, people, etc and so weaken them militarily. This is why they need a Red Orange fringe of dissidents and deviants to populate the military to overcome these attacks and why the competition in the Red center of secrecy and deceit to avoid being sent there.

When a country goes Red, usually Communist, then people of other Color Codes can either be dominated by them, they are killed, or they escape or are exiled. Refugees from Red, such as Yellow members of a former Dictatorship, Orange Yellow spies or guards of a former Espionage Agency, Biv Capitalists such as Violet management of multinational companies with their assets nationalized, can be expelled or escape. They might then go to a Biv Western country, Yellow people might have ties with the Yellow government apparatus and get into Violet business such as the Military Industrial Complex, many Right Wing Dictators and their cronies have received sanctuary in the United States. They might also form a government in exile in case the Yellow government, as part of a Biv Empire can be reestablished. A Red country might deplete itself of Violet talent in this way, for example Cambodia killing Violet educated people when the Khmer Rouge came to power and the North Vietnamese killing people like this in the Tet Offensive and later in the takeover of South Vietnam, and fall behind economically and technologically because of this. In the same way a Red religious group might not accept Yellow and Orange Yellow people in its ranks and so remain poor and separate from other Color Codes, for example Protestants were persecuted by the Church for vows of poverty which became incompatible with the Biv business nature of the Church in the Middle Ages. A takeover by Red Christians was financially unacceptable though the Church grew from them originally, threats like these were then regarded as a new kind of Heresy such as where the Church became Yellow and used the Inquisition to torture Jews and Conversos, or Jews forcibly converted to Christianity treating them like secret Red Terrorists. Religion then as it spreads through the Color Codes must take on all their characteristics or it will be rejected by the other Color Codes. So Violet might select among the various Christian sects until it finds one that agrees with its point of view and then adopts that one, Blue workers might adopt another interpretation, some Mafia members as Yellow profess to be Catholics, each can take the philosophy of their Color Code and construct a religious version of it.

Red religion might also in its expelling of deviates into its Red Orange fringe stay pure Red and not accept the fringe at all. So a Red religion might not accept homosexuals, promiscuous people, Heretics, etc so anyone who deviates from the pure religious foundation of the group is not welcome. This then becomes a Red group with no Red Orange fringe as in nature. For example a species of bird such as budgerigars might kill or reject babies that deviate too much from its expectations, instead of letting them perhaps grow up and be ejected from the flock or herd as deviants, this then would reduce the chance of species mutations surviving. Such a species would have little or no Red Orange defensive fringe and likely be timid, deceptive, fast, etc. So a Red church like this would be highly intolerant and probably secretive, like some cults. This expelled Red Orange fringe might form their own religious church with more tolerance and banning the fundamentalism of Red as itself being Unchristian.

More usually though the deceptive quality of Red causes such deviates to remain hidden or in the closet, the competitive nature of its members would make them out and expel a Gay if they found one. It would be generally understood that many of the congregation were secretive and deceptive about sins according to their beliefs, such as Sunday Catholics and sinning the rest of the week when not seen by churchgoers. In nature a group of Zebras need not all trust each other on tactics when faced with Predators, on where to find food and so on, the important thing is they agree to move as one so as to avoid danger. Often even this is not a cooperative act because each animal would flee on seeing Predators, but the noise of fleeing would be heard by the others as would it finding food. Despite their competitive nature then they benefit each other, this is like Adam Smith’s115F[[116]](#endnote-116) ideas on Capitalism where people act as Knaves to deceive each other and end up helping man overall. In that case the Color Codes involved would be Orange Yellow people being Knaves as thieves and dishonest businessmen looking for Red Fools to Prey on. In Biv it would be Indigo Violet agents who try and make sharp business deals by outwitting Blue workers.

The same idea was explored in the novel 1984 by George Orwell where people disagreed with the system but were vocally for it in public, and so private disagreement is not usually grounds for removing people to the fringe. Just as with sexual crimes in Red and religious crimes, or the sin of being unorthodox, there are political Red crimes. So in 1984 the goal was to rehabilitate, just as in religion the goal is to redeem the sinner, and to cure homosexuality, promiscuity, etc by bringing them back to the Red center after doing penance. This is because a Red flock cannot be held together by duress or punishment, then it cannot move fast enough to avoid Yellow and Orange Yellow Predators. So the point is not whether someone can be cured sexually, or convinced to embrace Communism, or to follow a given religion, the point is such must be attempted to keep the group functional. People must either believe, pretend to believe, or leave.

Red functions on Green or public land, and there is often a fence between Green and Green Blue as private land. This was seen for example as the Berlin Wall, a divide between the concepts of private or Green Blue ownership and Green public ownership. In the same way a religion in Red has a concept of public use such as a church where those conformist enough to be Red can enter. The Red followers tend to own the church communally in theory though in practice it is managed according to the orthodox beliefs of the Red center.

Other crimes in Red also revolve around conformity. For example economic crimes in Communism can be not working hard enough, hoarding, trying to steal secrets or espionage, sabotage, trying to split someone from Red like it being a crime for someone to leave Islam, etc. These evolve into more modern definitions of crime in a complex society. For example spies from Yellow or Orange Yellow imperialists, capitalists, etc in a Red Communist society are subject to imprisonment. Heretics to a Red religion were attacked and sometimes killed, if not expelled to the Red Orange fringe. The main crimes are those by Yellow and Orange Yellow though. For example a Red society might be attacked by Orange Yellow as petty thieves, pick pockets, stealing purses, breaking into houses, by conmen, etc. In Communist societies this would also have included trying to run a business, make a profit deceptively, etc. Some businesses however remain illegal in most societies such as selling illegal drugs, prostitution, unsafe products, etc. So if a business is acceptable to the society it is run as Biv and buying and selling is coordinated in the Indigo market. If the business is considered wrong or damaging to a Color Code then it might be illegal and regulated by Orange Police. If the business is on the border of legality it might be Orange Policed and allowed also to operate on the black Indigo market, for example Marijuana use is often left alone unless it is hurting children or is too much in the Green public eye.

So conceptually crime in a Red society or a Red group in a larger society usually involves preventing exploitation by Orange Yellow. Orange Yellow tries usually to commit nonviolent crimes, fraud, and so on. So Orange (which evolves as a Police and the Courts) tries to stop these crimes by Orange Yellow against the weak, sick, disadvantaged, as hate crimes, crimes against religious organizations (such as persecuting Jews), juvenile crime, theft, etc. So the basic idea of Red protecting itself with a Red Orange fringe evolves into Orange Police doing this in part and also blending with these Orange Yellow criminals to keep them in check by allowing them to earn a wage as Police, and also vigilantes, neighborhood watch, local gangs, also protecting Red people.

In terms of Economics such Protectionism against Orange Yellow business can also occur between nations. Predatory business Policies, exploiting a country’s resources by corrupting its leadership, dumping of produce to bankrupt its local businesses can all be seen as Orange Yellow attacking a weaker Red economy. So a Red country might not see these as a part of the Indigo market and a Blue versus Indigo Violet interaction, and create trade barriers.

Depending on the group then some business is seen as crime and is a Roy interaction, and other business is seen as Biv and is allowed. So in Red drugs might be seen as an attack from Yellow and Orange Yellow and Red addicts need to be secretive and deceptive about it or they can be expelled to the Red Orange fringe. This is why the drug culture became part of the fringe along with other fringe beliefs like UFOs, psychics, etc because Red is highly competitive and any excuse to exclude a competitor can be used. If someone is a Marijuana user then it is an excuse to shut them out of some activities, the laws can be deceptive about the real side effects of drugs because truth is less important in Red. Rooting out such an unwanted Biv business in Red then is like uprooting a Biv plant as a weed, the Blue roots in the Red society are unwanted and are pushed out to be arrested, exiled into other parts of town in a Red Orange fringe, or made to do it privately with no signs of use of drugs.

In Biv drugs would not be illegal and Policed by Orange, but be Coordinated in the Indigo market. Blue workers also avoid drugs or at least using them openly, for example in a Blue business it can be an excuse to get someone fired and take their job. If the drug such as Marijuana is not causing any side effects then it might be used relatively openly like alcohol and tobacco, even encouraged amongst artists to do better work. When a drug is decided to be made illegal, such as the occasional crackdowns on Marijuana the plant like Biv nature of its growth, refinement and sale must be attacked like a plant, sometimes like a jungle. To prevent these sales the Indigo market of drugs needs to be closed down, preventing buyers and sellers meeting in Green public areas like parks and street corners, preventing the growth of drugs in Green Blue private lands by Blue workers by surveillance though it might then be grown secretly on Green public lands such as National Parks. These Blue workers might grow the drug secretly in amongst other legitimate crops, sell it to Indigo Violet dealers and agents who also work secretly so these transactions are hard to prevent, and Violet buys it from their agents, refine such as by making hashish and then other Blue workers might buy the finished product through the secretive Orange Yellow agents again. If the drug is used openly in the Blue Indigo fringe as in the Netherlands with legalization then Violet shops might sell this finished product and Blue Indigo fringe people consume it there in cafes. It can still be frowned on in some parts of Blue society so some might still have to hide using it, also Indigo Violet dealers are also highly competitive so also might have to hide using it. A Real Estate Agent for example might have to hide using Marijuana in case some clients were offended by it.

So to remove an unwanted business one must break the plant like relationships of buyers and sellers and substitute Orange Police enforcement for the Indigo marketplace, buying and selling itself become criminalized. In practice this is hard to do because any Color Codes that are removed or suppressed tend to regrow and they also evolve more strongly because the weaker people in them before left, went to prison, improved their tactics, etc. So jailing criminals can tend to make other criminals stronger over time because the weaker ones are removed, this is like Red Orange Buffaloes that evolve to be a stronger team by those that are Loners being picked off by Predators. A Red Orange gang can then take over drug distribution and their Team nature stops them talking to the Orange Police, they then supply it to people in Red Orange openly using it and in Red who use it secretly. Since Red Orange acts as a protector of society like stronger Buffaloes protect the weaker ones then the Orange Police often allow this drug selling to continue as long as the gangs keep the peace. This then becomes the equivalent of the Blue Indigo fringe using the drug openly in Biv society; drug use becomes open again because Red Orange evolves countermeasures against the Orange Police by the ineffective ones causing fines and prison sentences.

Just as Indigo Violet made secretive seals in Biv society to avoid people who disapprove, Indigo Violet dealers in Roy become Orange Yellow who can be associated with the Orange Police and are allowed to sell drugs to some degree in exchange for being Informants about worse criminals such as Yellow violent offenders like bank robbers, murderers, rapists, etc. Yellow criminals can take the place of Violet drug refiners like the cafes in the Netherlands; they can become a kind of Mafia and also refine Cocaine into Crack and make Heroin. They can have wars with Red Orange gangs trying to take over their territories; Red Orange also attacks Yellow much as Red Orange protestors and Terrorists fight against Yellow Dictators and Red Orange Neighborhood Watch organizations fight against Yellow criminal gangs. Sometimes Orange Police become involved in this, selling drugs to Red Orange gangs that are confiscated in drug busts. So often the drug business has a similar form to when legalized, the colors convert to their Roy equivalents with Police ending up Coordinating the drug sales by the way they only restrict parts of it as a Quid Pro Quo to criminals for other information and actions.

A drug war then can be like trying to remove a weed, often it develops resistance to any method such as pesticides, uprooting can leave enough for the plant to regrow as long as there is a fertile soil of being able to grow drugs. The most effective way is in Orange Policing which while sometimes it appears futile is part of the natural Aperiomics cycle and some drugs such as Cocaine and Heroin probably cannot be run safely by the Indigo market. This is similar to in the last chapter where Green public land is encroached by Green Blue plants and trees might be uprooted like near a public water hole. Over time this can evolve stronger plants that are harder and harder to remove. Like any Color Code, suppressing one often causes it to rebound stronger through natural selection.

Other economic crimes in Roy can include Imperialism or the creation of Yellow Empires by subjugating or colonizing Red countries. This can become a Biv relationship to some degree if the natives become Blue workers, but in Red Communism this was a worldwide battle between them and Yellow Capitalists as Predators with Communists building a Red Orange defense to them. Uniting workers around the world was to form them into Blue Indigo unions for better pay but also into Red Orange to defend themselves from what they saw as economic invasion and occupation.

In World War Two for example Yellow Fascism was occupying much of Europe and North Africa like a form of Colonialism, while Yellow Japan occupied parts of China and Manchuria116F[[117]](#endnote-117). The Red areas under occupation by the Japanese regarded this as an economic crime and resisted this as Red and Red Orange. In a similar way Vietnamese embraced Red and Red Orange Communism as a means to eject the Yellow and Orange Yellow colonialism of the French and then the US, but also historically to resist invasion from China. Over time with no further colonial ambitions on Vietnam these Red and Red Orange elements are now becoming Blue and Blue Indigo workers in the global economy. So a country may have a business relationship as Blue workers and some Blue Indigo resistance for higher wages, be pressed too hard by Violet businesses who start acting like Yellow Imperialist occupiers, and then after they leave or are pushed out the population might revert to Blue and Blue Indigo workers again. A similar thing happened with China which became a Red country after experiencing so many Yellow colonialist invasions and occupations, and now that occupation by a foreign power is impossible then this defensive position is not needed, and they are becoming a Blue and Blue Indigo nation again. Even Russia now that it no longer fears invasion by Yellow Fascism from the West is now evolving toward a Blue worker based export nation with Blue Indigo protection for higher prices.

Terrorism is often practiced by Red as a defense to this Yellow colonialism. Since Red is weaker than Yellow military occupiers, it fights by hitting and running, relying on speed, deception and stealth. This is effective against Yellow which is stronger and slower and is why terrorism sometimes does well against conventional Yellow armies which are designed to fight Red Orange defensive armies. Orange Yellow is used to act like Red terrorists, as Counter Terrorism or Counter Revolutionaries and because it is also secretive, stealthy and fast it can sometimes match Red successfully. Terrorists might enter Biv countries to try and convert them to Roy ones, to convince people there to regard Violet and Indigo Violet groups as Yellow and Orange Yellow, to exact revenge for Yellow colonialism in their country, to create enough economic damage so resources become scarce enough for a Roy system to flourish, etc. Color codes usually oscillate destructively in response to a sudden surge in a particular Color Code which makes the others grow, push back, punish the offending Color Code and then they tend to return to normal. A Yellow occupation of a country then as Imperialism causes Blue and Blue Indigo people to convert to Red and Red Orange and increase in strength until the balance is restored, usually by the Yellow influence being ejected or becoming a Predator in the Roy food chain with chronic Terrorist and Freedom Fighter resistance. This is similar to in nature where introducing a new Yellow Predator makes Red and Red Orange evolve to be stronger, so Yellow is no longer overly successful.

Often Yellow and Orange Yellow respond to terrorism with a counter tactic of reprisals. This makes Red Orange Collective resistance harder because these people work as a Team and don’t want to be responsible for others being hurt in reprisals. Red Terrorists might not be dissuaded by reprisals because they think as Loners and see some other groups as expendable. Red Communist Insurgents move with secrecy and deception, their philosophies can also be riddled by deception they falsely believe in, or else they pretend to believe in for personal gain. Red can be institute a reign of terror where people in the country they are trying to take over are afraid of being seen as deviants to Marxist Doctrine and killed or expelled to the Red Orange fringe and so conform. For example in Stalinist Russia people were afraid of being sent to Red Orange concentration camps, sent to the front lines, imprisoned as deviationists, etc and so the reign of Red conformity was helped with terror. In South Vietnam the Viet Cong were able to control large areas by making people feel unsafe if they did not at least pretend to be Communists and to persuade others, the deceptive nature of this such that even many of the soldiers may not have really believed in Communism but just wanted to reunite their country. Being open and honest about it made people stand out as deviants to this Red cause and potentially killed or sent to reeducation camps after the war. In a religion people can be terrified with the specter of Yellow devils and Orange Yellow as tempters, and this keeps them conforming, also the fear of being exposed as non-believers in a religious dogma few are willing to admit they also have doubts about. A Red or Blue society may be centered around going to Church and professing atheism, agnosticism, or even being of a different Christian faith can paint a person as a deviate and lead to them being ostracized.

When Yellow Imperialists or other Predatory groups try and counter Red and Red Orange tactics they can attempt to subjugate Red and Red Orange by acts of brutality, reprisals such a killing a number of civilians for each soldier killed, killing people from villages where sniper fire came from, targeting suspicious activities with no real proof, etc. Acts by Red to rid themselves of Orange Yellow spies and Special Forces might be countered by a Cold War of deception, Espionage, spies with better covers, paying off Red people to be double agents, etc. Acts by Red Orange as a show of force might be countered by reprisals and executions as the Nazis did when Partisans as Red Orange attacked their occupation of many Eastern European countries when the tide of war turned against Germany. Persecution of a Red minority or more defenseless people might inspire them to use Red terrorism as a hit and run tactic, and Yellow soldiers might unsuccessfully try to counter this with team based patrols to project power in an area which cause the Red Terrorists to scatter like Gazelles running from Lions. When the Yellow patrols move on however the Red Terrorists regroup and retake the area, the people there being too afraid to stand against them when the Yellow troops have gone. For example the Ukraine and other Eastern European countries in World War Two initially accepted the Nazi occupiers as better than the Red Communists, being part of a Colonial Biv Empire was familiar to many of them. As the Nazis became harsher in this occupation the people, instead of becoming Blue and Blue Indigo workers in an Empire they found themselves as Red and Red Orange slaves in a war economy, likely to be killed for any sign of Red Orange open resistance. So Red might engage in secretive sabotage, spying for the Allies, transporting airmen whose planes had crashed out of the country, etc while Red Orange attacked militarily with force, blowing up bridges, trains, etc. So this is like in nature where Red and Red Orange animals battle Orange Yellow and Yellow Predators.

In such an occupation there is little Orange stabilization, but in France for the first part of the war the Germans did not occupy Vichy France117F[[118]](#endnote-118) and allowed them their own government so there was an Orange law to their relationship, also an Indigo market where some goods from France, Holland, Denmark, etc were paid for while others were simply stolen. As with the Roman Empire Orange tends to make peace by combining Red Orange and Orange Yellow into a Policing system which can stabilize it. For example Red Orange locals are persuaded not to engage in military and violent attacks, in the case of Vichy France to maintain a military nominally allied with the Germans and Orange Yellow Nazi soldiers were under instructions not to attack the weaker members of French society with rape, theft, etc. The Yellow Nazis agreed to not tax and confiscate excessively in exchange for Red Orange terrorists being restrained, this changed later when continued Terrorism in France led to a crackdown by Hitler.

In the oscillations of a war though it is unlikely Orange stabilization will work for long and eventually it becomes like Orange Yellow Predatory behavior of soldiers and attacking Red Orange gangs or vigilantes ambushing them, these attacks provoking reprisals which continue to escalate as in the Cold War with a lack of effective international Orange Policing such as the United Nations.

Some of the Partisans against the Nazis were Red Communists aiming to convert the country to a Red Communist state later, in for example Greece. In the Ukraine some Red Communists were trying to make sure the Ukraine remained Communist if the Yellow Nazis were forced out. Often then the actions of Red and Red Orange terrorists can provoke responses by Yellow and Orange Yellow, and these can convince Blue and Blue Indigo people that it is not possible to stay in the Biv economy and then they become Red and Red Orange as well. For example a country is typically a mix of Roy and Biv economies. When it becomes colonized then this might initially be by Biv business and this might draw more people to be Blue and Blue Indigo workers, and Red and Red Orange Communists might lose followers. So the addition of more outlets to the Indigo market can encourage more people to coordinate with it.

If the occupying forces become more Yellow and Orange Yellow though it tends to wither the Biv economy and strengthen the Roy one, and so Blue and Blue Indigo workers decide to battle the Yellow and Orange Yellow occupiers so the country can become like a Roy war zone with little Biv industry left. When the occupiers are driven out then it usually returns to a mixed Roy and Biv economy, but in the case of the Ukraine for example it remained a Roy economy by the domination of Red Communism. Now it is returning to a mixed Roy and Biv economy again. Where an occupation or Empire is weaker it may be mainly Orange Yellow rather than using military violence as was the case with the British Empire and India. Consequently Red nonviolent resistance of scattering when confronted by Yellow troops then reforming protests was mostly sufficient to make them withdraw.

Because Red is so competitive with each other, even if the orthodox beliefs are untrue then the system can even be delusional and may use propaganda or indoctrination, such as in Communism, doctrine or dogma in religion, telling lies about unorthodox activities such as drug use, etc. For example governments have often used misinformation about the effects of some illegal drugs to scare people. The rationale was it was not important whether it was true, but whether it created the desired effect of making people act in the desired social way. Campaigns to inform on drug users were also a Red and Orange Yellow tactic as their highly competitive nature meant for a small reward they would turn on their neighbors. Resistance to this occurs from Yellow and Red Orange gangs who protect each other with cooperative behavior so these kinds of campaigns fail over time.

Art can also be conformist in Red systems. Music and books might be fringe or Red Orange related if objectionable to the Red center as seen in Communist countries. So authors might be sidelined, expelled, exiled, etc into the Red Orange fringe. Typically then artistic expression happens in the Red Orange fringe, such as for example with dissidents in the Soviet Union. These books were often devoted to exposing the Secretive and deceptive nature of the Red center, such as by Solzhenitsyn118F[[119]](#endnote-119). Yellow and Violet governments become surrounded by a fringe of secrecy and deception they work to expose, this can be a problem with Right Wing governments like the Republicans in America where religious fundamentalism, creationism, demagogues attacking Red and Blue Democrats with wild accusations, etc need to be included in the government to make up the numbers to be elected. This forces the Right into extreme Policies to avoid this Center Right fall into deceptive Policies, the Left by contrast when moderate is relatively open and honest in Red Orange but when it becomes extreme Left Wing it falls into secretive and deceptive ideas like Communism.

A bubble in the Right Wing economy expands this fringe of deception and secrecy and helps to inflate it with fraudulent and ignorant information. When the wealthy and powerful make more money as happened in the lead up to the Great Depression and Great Recession, even the Internet Bubble of the 1990s there is a highly competitive atmosphere where truth is expendable and often it is more profitable to be convinced of something that isn’t true so as to convince others in a plausibly deniable way. The Art Bubble prior to the Great Recession saw sky high prices for art that was often new and had little real basis for the high valuations, except that it was in the investor’s interest to believe in it uncritically so as to sell it on to someone else at a profit. When this suddenly collapsed as chaotic systems do when they reach a tipping point the real value was shown to be much less. The same attitude occurred with the Internet Bubble119F[[120]](#endnote-120) where Yellow wealth which had been increasing through the 1990s was surrounded by get rich quick schemes of dubious Internet companies, most of which went bust or were decimated in value when this bubble burst. Prior to the Great Recession a similar deceptive hype existed for subprime mortgage securities, few people were interested in checking the facts about them120F[[121]](#endnote-121) because it was more in their interest to have no conflicts of interest when they did collapse. This is like multi-level marketing where people selling products have little incentive to see if they are good value for money because their profits depend on them convincing others how good they are. Religions also work on a similar principle here, the preachers have a financial incentive to get people to go to Church and donate, so they can color the Bible’s teachings and act as Demagogues121F[[122]](#endnote-122) in a competitive market where those who sway people the most make the most money in Indigo Violet and have the most power and influence in Orange Yellow. Often these systems are like Ponzi Schemes where the bubble must burst eventually because there is not enough money available to support their value when the profits stop rising exponentially, a component of Chaos, and the money tries to go to another investment. Then usually only those who get out early get all their profits, the others have the bubble collapse on them.

In the case of religion however this bubble can be relatively self-sustaining because it need not grow exponentially as art prices must to attract investors, a stable bubble can have a relatively constant series of exponential rises of new Churches and collapse when some of the Preachers are found to be Gay, adulterers, or financially corrupt. In an economy this is also more stable as many small collapses are much safer than one large bubble and collapse as led to the Great Recession.

Orange Yellow versus Red and Indigo Violet versus Blue are usually Loners and use camouflage, deception, misdirection, bluffing as in Poker, competition and secrecy to survive in nature as well as in society. Yellow versus Red Orange and Violet versus Blue Indigo by contrast are relatively open and honest and use a Team based strategy of higher numbers of people or animals and cooperation to survive, this is like in a game of Chess where all information is open and available rather than in Poker where some information is secret which allows deception to win. These competitive and secretive interactions not only try to outwit each other by this deception, they can also pose as another Color Code. For example in Espionage a Red Communist spy like Burgess122F[[123]](#endnote-123) or Philby posed as an Orange Yellow Right Wing spy dedicated to exposing and capturing Red agents. Sometimes in elections a candidate or his staff may be a double agent for the other political party, the false candidate may try and win the primary battle to be a candidate and then deliberately lose in the election or his staff may work to expose something to blackmail them with or to publish later to force them to resign.

The Orange Police can use these tactics against Red criminals; Orange Yellow undercover agents pose as drug users or dealers and infiltrate the highly secretive world of Red society. This works less well against Red Orange gangs because it is useful for when someone is entrapped this way to plea bargain a lower sentence by implicating others, gangs usually don’t inform on fellow members as much because of fear of retribution against them or their families and friends and also because they are by nature loyal. Red drug users are secretive and deceptive by nature, many have to steal to support a drug habit and have to hide drug use so as not to be expelled from their social circle, it is easier for them to give anonymous information on others in this highly competitive color. This can also lead to false information where they implicate others falsely to reduce their own sentence, leading to a chain of falsely imprisoned people.

This same tactic is also used by Red societies in Terrorism. This was the problem in such areas as Vietnam where Red soldiers could appear as sympathetic Orange Yellow villagers and South Vietnamese soldiers and Police, while Red Orange Viet Cong soldiers fought the Yellow American forces in a hot war. Terrorists can also work in a Biv economy by impersonating other Color Codes. For example Red terrorists such as Communists might infiltrate Blue workers and Blue Indigo unions to cause trouble, sabotage, etc. They might also try and start Blue Indigo industrial action in a deniable way to cause damage to Violet companies, hoping to make them act like Yellow Fascists and creating Red Orange protests and demonstrations in society, which can turn the economy from being a Biv one to Roy if these disruptions makes resources scarce enough.

Yellow invaders have been well known in history, from Genghis Khan, the Franks123F[[124]](#endnote-124) invading Italy in the Middle Ages, the Vikings invading England repeatedly, the Nazis invading Russia and France, the Japanese invading China, the Romans invading England, the Spanish invading South America, etc. Often Red people under invasion initially have little Red Orange defense and they slowly develop resistance when hiding and scattering from attacks prove ineffective. Sometimes this resistance is successful; eventually the English were able to defeat the Vikings, other times the mixed strategy of standing and fighting as a Team or hiding and scattering as Loners is used as with Boadicea124F[[125]](#endnote-125) in England at first succeeding then failing against the Roman occupation. On the edge on an Empire the resources of Yellow may become too strained to punish Red Orange attacks with punitive reprisals as with the Roman Empire against the Gauls under Ambiorix125F[[126]](#endnote-126). If Caesar had lost then the Red Orange strategy would have been vindicated, instead the resistance was crushed and Gaul reverted to the Red strategy of hiding and scattering when attacked and enduring the occupation.

Often Yellow imperialism creates a similar model used in business in Biv economies, Blue workers are regarded as the Prey or customer to be ripped off by Violet companies in a plausibly deniable way though in Biv there is a double win where each benefit from the transaction and in Roy both sides lose to some degree. Large companies are often ineffective against the secretive and deceptive Blue workers just as Yellow armies are ineffective against Red Terrorists that hide and scatter from them, to reform after they are gone. To solve this they employ Indigo Violet agents that are also secretive and deceptive, like door to door salesmen who are better at working out if the customers can be trusted with finance or really can afford the product despite their denials. When these salesmen or agents act as Orange Yellow they are con men and the customer is ripped off, this is a job for the Orange Police while the Indigo Violet agents are generally unregulated in the Indigo free market. In a Yellow colony there is also a need to extract resources from the Red slaves and subjugated people, this can be done with Orange Yellow taxation officials who can work out where the wealth is being hidden, also offering leniency if people will turn in their neighbors and friends. This was similar to how the Inquisition worked in the Middle Ages, Orange Yellow Inquisitors would take confession from everyone in a village encouraging them to inform on each other, then those that were caught were encourage to inform on still others to help save themselves. Because the assets of convicted Heretics were usually taken by the Church this was regarded by the people often as a ruse to take their goods. When Yellow Organized Crime is in control of an area then Orange Yellow criminals are freer to plunder the Red people, though they must give the Yellow Mafia part of the stolen goods in exchange for their protection. Yellow conquerors such as Tamerlane also used this strategy, when a town surrendered to his army then Orange Yellow troops were experienced in finding where people hid their money, often torturing some to get them to inform on others. Empires often levied high taxes on Red people who tried to deceive the tax inspectors about how much money and goods they had. In modern societies Red and Blue run a black market which is also difficult to tax and prove income.

Red inhabitants might live on an area with wealth wanted by a Biv economy such as oil, gold, timber, etc but are not advanced enough to create a Biv economy themselves. So Violet companies persuade Yellow inhabitants of the country to form the government and to coerce the Red people to sign agreements, chase them away from the resources desired, buy them off, etc to get possession of these goods. These are then treated as a resource mine by Blue workers, refined and are bought and sold up to the Biv tree to Violet as profits. This can also happen with an Empire, the East India Company126F[[127]](#endnote-127) as Violet set up in India then used the Yellow army to pacify the country while they made cheaper deals to send spices back to Britain. King Leopold was able to take so much wealth out of the Belgian Congo127F[[128]](#endnote-128) by using Yellow military power to enforce Violet commerce in rubber. Orange Yellow thievery can become institutionalized as part of the Yellow Fascist state, and indirectly by the Biv economy. In Nazi Germany Orange Yellow Brown shirts were allowed to persecute Red Jews and steal from them, much of this money, art, treasure, etc found its way to the higher Yellow Nazis leaders. So in the same way as Organized Crime might use petty thieves and protect them, the Yellow Nazis used thugs as Orange Yellow to get money, they also plundered much of Europe of art treasures and gold this way much as Tamerlane did and the Roman Legions also did in their time. Often this money and treasure from the Nazis ended up in Swiss Banks where it became part of the Biv economic system after the war, Violet banks and Yellow Nazis acting in collaboration.

Such crimes in war show a Roy system oscillating wildly and often prone to collapse from a lack of Orange stabilization. When Red is stolen from too much this is like Hyenas as Orange Yellow, eating too many of the Red Prey creating a lack of food later, leading to starvation. In the same way Nazi Germany created a system that as it grew needed more and more Red Prey to get treasure from, which led it to occupy Europe and attack Russia, overextending an unable to feed the armies of Yellow and Orange Yellow it created they eventually collapsed.

When Biv business is poorly policed then this can be like a Predatory presence in Society. In Roy parts of an economy Orange Yellow conmen might rip off Red consumers and work for Yellow companies such as in door to door selling, this is a drain on the assets of Red people which gives assets to the plundering salesmen who are protected by the large Yellow companies they work for, the territories of these salesmen are like territories of Predators to feed on and the company might in effect have an Empire colonizing a society. If people complain too much then the Yellow companies can attack with lawyers and cronies in the government to write favorable laws for them, even send in troops and Police if they riot as Red Orange.

In the Biv economy other products might be better quality and are sold to Blue workers by Indigo Violet salesmen without crossing the line into fraud. While Orange Yellow and Indigo Violet both might use some deception and salesmanship, in Biv this is regulated by market forces as Blue workers would not want to buy bad products and there is often more money in a Biv society to sell legitimate goods. In Roy the Orange Police monitor sales of fraudulent products to Red by dishonest salesmen and try to punish them like Orange Yellow Predators. They also try and domesticate them by allowing some minor crime and fraud in exchange for Orange Yellow restraining themselves, and acting sometimes as an informant on Yellow crimes by testifying these companies were behind the fraudulent products. For example Orange Yellow agents might push doctors into prescribing dangerous and ineffective medicines, the giant Yellow Pharmaceutical companies protect the salesmen from prosecution with favorable laws, sometimes the salesmen when caught might testify for the Orange Police and Courts that the companies knew the drugs were dangerous. So like in war and Colonialism Orange restrains Orange Yellow by agreeing to restrain Red Orange Police reprisals on them.

Health care in Red is seen as ideally being equal for all and so represents socialized medicine. In Red Communist countries this is ideally available to all, but the Red center or party members usually get better care than the Red Orange fringe. The welfare state with pensions, unemployment insurance, drug subsidies are usually Red based, with the idea of people as entitled to fair and equal opportunity, and protection so that Orange Yellow and Yellow cannot rip Red people off. Also people injured and conned by Orange Yellow and Yellow have a Red safety net in the system where people subsidize each other’s problems in exchange for keeping the conformist herd like society functioning. In many wars the Red victims receive aid, often in the form of Red Orange protection by boosting their Red Orange defenses against attacks with peacekeepers, giving them arms, etc. Red might have a famine and receive food aid, this is similar to people losing work getting a pension or other payments. This also like restoring the Violet food source of Red people, as the Biv economy is usually damaged in war.

So these setbacks for Red can come from changes in Green resources available to the economy such as adequate rainfall, diseases in crops, natural disasters, war, etc. This is similar to Red animals grazing and dependent on the weather, epidemics, etc for their survival, and natural disasters, sickness, etc can reduce their numbers, cause Yellow and Orange Yellow to attack more to avoid starving themselves and cause an even worse disaster for Red. This then goes through the Roy economy as those who lived off Red as Predators become poorer. So a Biv economy, and often a Violet company or government might also help a Fascist or Yellow government, Dictatorship with aid through these times to prevent them attacking or taxing Red too much and creating a Red Orange backlash, a Communist takeover, Terrorist Red attacks, etc. The idea of such aid then can be to dampen the oscillations of Roy so that the Orange Police can internally stabilize them.

Abortion is usually allowed in Red and Blue countries and societies because an undesired baby can make someone uncompetitive in work, for example the mother might lose her job to have the baby, the mother may be ostracized for having a baby out of wedlock, and so on. Babies can also be had secretly and deceptively to avoid disapproval by going on holiday and putting a child up for adoption. Women attacked by a rapist regard them as Orange Yellow and Yellow criminals and Abortion is a way to avoid propagating their genes. Families in Blue often try to get good mates to have competitive children in a trade, to get a good Blue Blood line in their family so they might flower as Violet doctors, lawyers, artists, etc.

For example a lawless culture or war zone might have rapes and attacks on Red women as less able to defend themselves so Abortion represents a defense for these women, to escape the consequences of this attack. A woman then might see herself as Red or a victim, or with rights in Blue and has the desire to choose her own children free of duress. On the other side Yellow and Orange Yellow would be less accepting of abortion because it negates their use of crime, violence and duress to procreate.

In Yellow and Violet the opposite philosophy applies. For example Yellow and Orange Yellow can want to procreate using duress, violence, rape, etc because they succeed in getting better mates this way. Those that do not succeed as Orange Yellow are like Predators that are not aggressive or deceptive enough, they die out and the others survive. Yellow can also procreate with violence and intimidation with a gang or Mafia, those not aggressive enough also fail to carry on their genes to a better female. The Yellow fringe is called Orange Yellow and is similar in some ways to Red’s fringe of Red Orange. While Red sends its deviates to its fringe, Orange Yellow represents the main gene pool and the superior offspring move into the Yellow area. For example a Yellow Pride of Lions might have weaker ones that act as Orange Yellow and use stealth to get food, but can be beaten by the dominant Yellow Lions.

Leadership of the Pride might be settled by contenders fighting each other, much as the leadership of Yellow tribes can fight to be leader but they also stand together as a Team against outsiders. Yellow groups in Roy society can have more money and power which they can use to get a better mate and have superior offspring with their genes, this is balanced against the Orange Police and Red Orange gangs trying to destroy them or put them in prison. To avoid prison Yellow sticks together as a Team and are loyal to each other rather than informing to Orange Police if caught, this enables them to have a better chance of passing their genes on. Orange Yellow pass its genes on by being secretive and deceptive in getting mates and avoiding being caught by the Orange Police, or informing on other criminals to keep out of prison and committing crimes. So the most secretive and deceptive tend to survive and pass their genes on, which continues to select these characteristics in their offspring.

Those not strong enough to ascend to Yellow like a petty criminal joining the Mafia, or cunning enough to survive as Orange Yellow perish through starvation, war, prison, etc which keeps the gene pool selecting for cunning as Orange Yellow and strength through teamwork as Yellow. Red attempts to purify its genes by Abortion and expelling people to the fringes of Red Orange to remain competitive, secretive and deceptive against its enemies and each other, while Orange Yellow is left with weaker, secretive and deceptive genes as the stronger, purer offspring leave and become dominant in Yellow. Red sometimes has a strategy of preventing some Red Orange offspring from being born with birth control or abortion, Yellow has the strategy of them winning and becoming part of the Yellow Team or losing and dying, going to prison, etc after being born. This creates the controversy between the left and right in politics about birth control and Abortion, because these can convert a Yellow and Orange Yellow society into a Red and Red Orange one or vice versa according to whether they are allowed or banned. In the same way Abortion and birth control can assist Blue and Blue Indigo people to be more successful at the expense of Violet and Indigo Violet.

This is not surprising, that a society with Red or Blue politics should want to expel or avoid offspring that disrupt their society. It is also not surprising that a Violet and Indigo Violet society based on a meritocracy would want people to have a chance to excel rather than be aborted because their blood line might be undesirable for the Red or Blue society.

Secrecy and deception can be an important part of international politics, often this is why political problems areas such as the Middle East, Pakistan versus India, wars in Africa, and so on. When both sides are being secretive and deceptive this is designed to make it difficult for outsiders to follow what is going on, sometimes a leader equally Machiavellian is needed to resolve these problems. Richard Nixon128F[[129]](#endnote-129) was like this in many ways, secretive and paranoid about his enemies he was Orange Yellow and Indigo Violet. Henry Kissinger made a good advisor, both operated secretly and with misdirection to try and solve political problems. For example Red China was also secretive and deceptive, Nixon and Kissinger were able to see China as a Loner country rather than part of a Red Orange Team of Communist nations, Kissinger secretly visited China to lay the groundwork for Nixon’s visit having made a cover story he was elsewhere.

Nixon also understood to some degree the paranoid nature of the Soviet Union and rather than trying to make peace he pioneered the idea of détente with a balance of power between them and the West. There was little chance of opening up their society to understand it directly, the US relied on being equally secretive in an arms race and using deniable proxy wars to contain them. An example of this deception was the Potemkin Village129F[[130]](#endnote-130) idea, where Nixon visited Russia and trees were cut down and planted in the snow along their route to show prosperity in a forming area, only to fall down later when Nixon was gone and the snow melted. The idea of showing the military might of the Soviet Union in parades was also intended to bluff the west, when much of the military technology shown was unusable, deceptive because better innovations were hidden, and exaggerated because when the Soviet Union fell it was found that they had had far fewer nuclear weapons than the CIA believed. Russia, China and other Red Communist countries have successfully fooled many in the West as to how successful they were, and many Western scientists saw Red Communism as working very well. This was also a kind of Ponzi Scheme were a Red society’s members lied to each other about how happy they were so as not to be denounced by competitive acquaintances and sent to the Red Orange fringe. Like a multi-level marketing scheme and some churches Communism was expected to show this false face to other countries to recruit them as Communists, this led to groups infiltrating countries around the world, each with private doubts about Communism working but having to lie to other people about it.

Khrushchev wrote in his diaries that the Cuban missile crisis130F[[131]](#endnote-131) was a bluff by the Soviet Union to get Jupiter missiles out of Turkey and so the Russians appeared to be more powerful than they were at the time. Kennedy was fooled by the Russian tactics, failing to see them as a bluff like in poker but as an open threat of a Red Orange Team of Communist countries who planned to take over the world by force. When there was a show of Yellow force by the United States the Red forces scattered and withdrew but got concessions to have the Pershing missiles removed. To survive around Stalin Khrushchev wrote that all his inner circle needed to deceive him about their belief in Communism, each was afraid not to conform as to disagree was to risk being singled out and killed or exiled to a Gulag. Each would be afraid to be the first to stop clapping so applause would go on for too long, when drinking and dancing with Stalin all were afraid to ask to leave first because they would appear different to the others who could turn against them to curry favor with Stalin131F[[132]](#endnote-132). In return Stalin would have been surrounded by secrecy and deception wherever he went and decisions he made would have been based on consistently falsified information such as the results of five year plans, the happiness of the Red peasants, and that people who disagreed with him where attacked as agents of the West feeding his paranoia. When Stalin died Khrushchev denounced him openly132F[[133]](#endnote-133), but a system based on secrecy and deception could not easily change and he was replaced by Brezhnev.

Nixon’s secrecy and deception also became his undoing in the end. When Orange Yellow and Indigo Violet become too powerful this is a result of their chaotic nature which grows to the point where it becomes exposed, then Yellow and Violet feel threatened by it and Red Orange and Blue Indigo Left Wing politicians use their Team nature to overwhelm the Loners. One by one Nixon’s trusted allies turned on him because they were competitive by nature; these colors have little loyalty compared to Team colors. His tapes of meetings in the White House exposed conversations presumed to be kept secret and show the deception Nixon used, including obstruction of justice to block the investigation of the Watergate break in.

Deception, while an essential tool for Red to defend themselves also allows false ideas to be believed, people are afraid to say that some theories are false because they are not sure how many of the others really believe in them in them. Evolution has always had this problem; the idea that the fittest should survive and the weaker members of society should die out or mankind would devolve has never been popular among weaker people. For example Lysenko came up with many ideas that were known by Red scientists to be nonsense, but these geneticists were relegated to the Red Orange fringe as dissidents and Red people needed to pretend to believe in his theories or be exiled themselves. Situations like these may have been designed as a test by Stalin to see what nonsense people would pretend to believe, if they rebelled at being deceptive to survive then this may have indicated they were really Red Orange or Yellow by nature and should be exiled or killed.

Lysenko’s ideas were based on Lamarckism133F[[134]](#endnote-134), that the stress of the environment would cause plants and animals to adapt genetically rather than by natural selection and Mendelian134F[[135]](#endnote-135) genetics. This can appear to be the case in Red societies as well as in nature because those that survive do not seem to be the fittest, for example stronger Gazelles might be more likely to be eaten by Predators because they are slower or fight rather than run. Losing contests with Predators paradoxically enables Red grazing animals to survive and they do seem to adapt in a Lamarckian sense when their food sources change, the famous example is the Red animal Giraffes where Lamarck believed their necks became longer by straining to reach the upper branches of Acacia trees. However Sexual Selection can also explain this, mutations and variations of Giraffes with longer necks may have been more highly prized as mates, which shorter necked Giraffes were excluded from the herd and when alone were more likely to be eaten by Yellow Predators. Lysenko claimed that peas could be grown in colder climates by stressing them with cold, this could only have worked if there was a way to select variations that survived for longer in the cold and were bred together as would happen with Giraffes.

It was considered less important whether Lysenko was right or not, but whether he inspired the Red Russian peasants to work together better, the deceptive results of his experiments gave hope to Red peasants and the failures were kept secret. Many areas of Soviet science were held back because scientists were expelled to this Red Orange fringe. In Red Communist China there135F[[136]](#endnote-136) was an attempt to remove deviationist ideas from the Red orthodox beliefs by giving the impression that dissident voices would be listened to and changes made, instead this was used to see where the dissidents were hiding so they could be expelled from Red society to send them to the Red Orange fringe and sometimes to concentration camps. “Let a hundred flowers blossom” was Mao’s slogan for this, but Blossoms are a Violet part of the plant, highly visible and honest in their shape and scent, this is anathema in a secretive and deceptive society.

In the same way a Red religion can also use bluff, lies, etc to motivate their followers as was done in Communism, usually this involves threats of punishment in an afterlife for deviants instead of Gulags as in Communism. It becomes less important for the religious ideas to be correct as long as they are believed by the Red center and cause them to at least pretend to belief when talking to others; this makes the flock of the Church conformist according to moral teachings of the Bible and vigilant against sinners and tempters. Such a society can be successful as history has shown, those who are more sinful but still religious get relegated to a kind of Red Orange Purgatory like Reeducation camps in Communism and in both, as well as with Winston in George Orwell’s novel 1984136F[[137]](#endnote-137) the deviant must truly believe they are wrong and accept secretive and deceptive information on faith

So just as a Lysenko was used because he gave a positive message so too has religion through the ages used false stories of miracles, saints, relics, etc to increase the fervor of its followers. Those who don’t believe or have evidence to the contrary were often charged with heresy, sent to the Red fringe, burned at the stake, excommunicated, etc. Just as Trotsky’s crime was heresy leading to exile137F[[138]](#endnote-138) so too have parts of the Christian faith been excommunicated for breaking with the main Red flock, often going on to promulgate their own useful falsehoods as a new Red center like a new species or herd forming, each developing its own Red Orange fringe of dissidents and sinners though. Red has a Positive characteristic in its Color Codes and represents Positive Thinking and this has been associated with religious self-help theories such as the Power of Positive Thinking by Norman Vincent Peale138F[[139]](#endnote-139). Faith is all important here, a negative thought is dangerous and must be removed or it can bring disaster to the positive thinker. This is like Red Communists looking for doubters of Marxism and Stalin in Russia, positive thinkers are told to shun negativity so they become exiled to the Red Orange fringe since the positive thinkers don’t want to be infected by their thinking. Religions usually have the same message, to believe uncritically in the Church’s Dogma, doubt increases the chance of being cast out of heaven in the afterlife even when the teachings are secretive and deceptive. For example relics of the Saints were often fraudulent in the early Church and the names of Saints probably falsified in many cases, miracles were also not well documented for fraud.

Positive thinking has the defect of rejecting ways to correct errors, especially caused by secrecy and deception because one must first doubt something that is false to belief in corrected information; this can be done to some degree in the Red Orange fringe which represents Not Negative. So people in this fringe are not as uncritical as in the Red center but still basically believe and try to rebut accusations from negative thinkers in Yellow such as Atheists and sometimes other religions based on Orange Yellow secretive and deceptive teachings. So Red people try to believe in Communism and expose doubters, and Red Orange is Anti-Fascist, such as being against Imperialism, Capitalism, Nazism in the Second World War, using the Marxist ideas in an often unsuccessful attempt to show these opposing ideas are wrong. Red Orange then in some ways is defined by its opposition to Yellow as well as its affinity to Red, the idea that Capitalism is flawed and bound to fail was critical to the need to establish a Communist state. In religion a Red Christian Church might be based on faith and Red Orange parts of the Church based on opposition to Yellow Skeptics, trying to answer inconsistent and apparently illogical articles of faith such as the three in one Trinity, the resurrection, the Virgin Birth, etc. In the twelfth century Aristotle’s works were rediscovered in Europe139F[[140]](#endnote-140) when the Moors in Spain were overrun, it was found that his ideas on Logic had survived in Islamic countries though lost when the Catholic Church gained ascendancy in the Roman Empire. Aristotle’s ideas were based on critical thinking and many students of these including Thomas Aquinas140F[[141]](#endnote-141) were attacked by the Church as dissidents by trying to question these ideas. Much of the Red Church’s belief system was based on Plato rather than Aristotle; he believed that the ultimate truth could not be worked out by logic and that some things were true but not provable as Godel141F[[142]](#endnote-142) later showed to be true.

Religions often have a Red ideal of a flock of Sheep and the Red Orange fringe contains the black Sheep, dissidents, sinners who are cast out, etc. A good example is gays who are sometimes tolerated on the edges of a Christian congregation and often they stay in the Red Center by being in the closet, often these are preachers who use secrecy and deception to denounce homosexuality. In a more violent area, with Yellow and Orange Yellow governments, a Yellow dominant religion or race, etc a church might evolve more of a Red Orange fringe, tolerating the unorthodoxies of the fringe in exchange for their defending the more meek Red members of the Church. For example in the Crusades many of the Knights, like the Templars and Knights Hospitaller were less Christian like as they killed and pillaged their way like secular soldiers against Yellow Islam. A fringe can also extend to ideas such as differing views of the religion that can be seen as heretical by the Red center, the Templars eventually were forcibly disbanded by the Catholic Church for Heresy.

Sometimes when a disagreement occurs over two rival versions of falsehoods in a Red system a schism can occur much like a Red flock of animals breaking into two different ones. For example Red Communism developed many variations much as Red religion has, and while on some occasions these were banished to Red Orange as deviates, eliminated, exiled, etc sometimes this Red Orange fringe became too strong to attack. So the Warsaw Pact countries developed different versions of Communism and just as Red Orange animals have some independence in exchange for protection from Orange Yellow and Yellow Predators so did the Warsaw Pack protect the Soviet Union in exchange for some independence of thought.

### Red Orange

Communist guerillas and terrorists as Red Orange attacked Fascist societies like Franco’s Spain142F[[143]](#endnote-143), Somoza’s Nicaragua, etc and infiltrated 1930’s Germany. In exchange for this expansion of Red and the aggressive attacks on its enemies Red Orange was permitted to debate much of the conformist Dogma of Communism, particularly Stalinism. Mao developed a somewhat different variation of Communism to Stalin while there was pressure from Russia to conform. In religion parts of a church may break away to form rival Red churches, and others remain as a dissident Red Orange fringe on church Dogma like the Jesuits143F[[144]](#endnote-144). Red however is not naturally violent and so has limited abilities to enforce this dogma on those who want to be in the Red Orange fringe anyway unless there is a war against a Yellow power like Islam. Once the Red center is safe from Yellow attacks then they can turn on this fringe and attack them as deviants and Heretics. So this pattern was followed in religions where the Protestants, the Church of England and others were considered the Red Orange fringe, under pressure to conform to the Red center of the Papacy but they broke away and formed their own Red centers with secretive and deceptive Dogma.

In the Middle Ages much of the land came to be owned by the Church as a kind of public Green property and the pressure to believe in a conformist Red dogma created book burnings, events like the house arrest of Galileo, and impeded the advance of science much as it had in the Soviet Union under Stalin. As the Church increased its grip on the Roman Empire its conversion to a Red Empire meant that it became more vulnerable to attacks from such as the Franks, Attila the Hun, the Visigoths144F[[145]](#endnote-145), etc who were similar to the Yellow Nazis attacking Red Russia. Genghis Khan as Yellow was a nomadic group who much like the early Romans under such as Alexander lived by pillage eventually attacking Rome and the Byzantine Empire which had become defensive in strategy as Red and Red Orange. Just as Italy has varied from being a Yellow Fascist country under Mussolini to nearly being governed by the Red Communist party in elections in the 1960’s so did the Roman Empire fall from becoming weaker militarily as Red though it still dominated through its Red dogma of religion by deception and terrorizing people with lies about the afterlife.

The Red Church tried to dominate the rise of Yellow Kings who fought each other for supremacy like Lions and it had Red Orange defensive armies such as the Knights to defend it. Violet Aristocracy formed serfdoms and the Church ran Blue businesses from Monks such as the Cistercians. Between these two there was the Indigo market where the two traded. The rancor between the Red Church and Yellow Royalty in the Middle Ages was like that between Prey and Predator, sometimes the Church dominated commerce with Blue Indigo collective action with monasteries and at other times Violet Aristocracy and business would reduce the Church’s influence.

The Renaissance was seen as a flowering of talent in the form of scientists, musicians, astronomers, physicists, painters, etc as the power of Red and Blue Christianity waned. This was partially caused by the Right Wing Color Codes reasserting themselves, growing to mount a defense of Yellow negativity and cynicism against the positive thinking and emphasis on faith of the Church which stemmed from the continuing influence of Aristotle’s works which were rediscovered in Spain in the twelfth century. Red as mentioned earlier is Positive and Red Orange as Not Negative, which makes them an ideological enemy of the Red Church, Red Communism and other Red systems, though they also depend on secrecy and deception this debate can be sophist on both sides.

Yellow thought is inherently Negative which is seen as an ideological enemy of Red Orange which is Not Negative, this Color Code deals with the arguments against Red Christianity. Much of the Yellow Royalty in the Middle Ages was skeptical of the Church and its doctrines but not sure enough to be atheists, the famous example was Frederick the Second’s145F[[146]](#endnote-146) defiance of Rome. The Church in the Middle Ages would have seen these Orange Yellow and Yellow ideas as Predatory and warned its flock not to listen to them, similar to Red grazing animals avoiding Predators in nature.

So these Color Codes arguments of Positive, Not Negative, Not Positive and Negative can be regarded as attitudes on any issue. Where Red is positive or believes something which holds its herd or group together, this belief is attacked by Yellow and Orange Yellow in a Predatory way and defended by Red Orange. This then becomes a kind of dialectic argument which forms spontaneously as the Color Code groups assert themselves, and these disagreements can flare up into a Yellow versus Red Orange hot war, or a Red versus Orange Yellow cold war. Orange acts as a moderator on issues like this and is referred to in Aperiomics as Not Negative and Not Positive meaning it is neutral. In an issue then it sees its role as fence sitting, moderating a discussion such as political debates, as a judge on legal cases, etc. Color Codes then tend to form according to their characteristics and the arguments between them usually are in this dialectic form in Roy.

Just as Color Codes form variations of religious ideas according to their characteristics so too do they form philosophical ideas. So a Red society tends to be Positive and believe in secretive and deceptive Dogma, and this extends not just to religion but a generally optimistic viewpoint. Any kind of negative attitude can be unwelcome and lead to banishment to the Red Orange fringe or worse. So in Red Communism someone might be arrested not just for deviating from Communist doctrine but skepticism of a wide range of the society’s aspects. For example in Stalin’s time someone might be arrested for anticommunist ideas, but also for complaining about food rationing, not being optimistic about the food harvest, etc.

In religion also it is difficult for a Red Church to be skeptical on other issues so they tend to be belief based on everything. Science then gets affected by this belief, as skepticism is seen to be against the Red center’s conformism. So this led to the Red Church holding back science which needed skepticism to find the truth. Galileo’s skepticism of the Church’s position on astronomy was seen as Heresy and Giordano Bruno146F[[147]](#endnote-147) was executed for similar beliefs.

In Red Orange as well, the attitude is of opposition to Yellow Negative ideas, and their battle against each other can include religious, political, scientific, and philosophical issues. Red Orange sees itself as the defender of the Red ideas against Yellow from loyalty even if they might be wrong.

This aspect of Aperiomics makes it more difficult for wars to be avoided because a Color Code develops a philosophy, religion, even a habit of thinking in a certain way to fit in with others in that Color Code or they are expelled or suppressed, so the consensus develops in a Color Code that is argumentative at best and warlike at worst with other Roy Color Codes. Orange tries to sit on the fence as a moderator but these arguments can become heated, particularly as Yellow versus Red Orange. Also because Yellow tends to develop this Negative attitude in a powerful Authoritarian society they often have the means to go to war as the argument escalates.

Orange Yellow tends to form the attitude of Not Positive so they are skeptical of Red’s belief system, and since they often derive their income from attacking Red being skeptical of them philosophically helps them to justify this. Yellow as Negative can argue about almost anything with Red Orange, and so with Yellow and Orange Yellow finding the opposite side of most issues to Red and Red Orange unless Orange can moderate these issues oscillations of the arguments from one side winning to the other can easily escalate into shouting arguments, fisticuffs, duels, rival gangs fighting, issues debated in the media, and full scale wars.

Towards the end of the Dark Ages then these kinds of arguments on nearly every issue started to surface as the Red hold on people with its belief systems weakened, particularly with science showing some of them were wrong. Red Orange dissidents defended the Red Church by proposing small changes to the Dogma and fought with Yellow who may have been atheists but sometimes were proposing religious changes such as the Church of England under Henry the Eighth but this also represented the arguments with other religions such as Yellow Islam which saw the Red Church as Heretical to its own beliefs. Orange Yellow skeptics attacked the church’s teachings in this Renaissance and often used the emerging power of the Yellow state to protect themselves against retribution from the Red Church; this is like Orange Yellow criminals attacking Red people and being protected by a Yellow Mafia or Organized Crime. As the Roy system moved back to the Orange center, and arguments were moderated and judged fairly by them, the Biv system of commerce also rebounded because Violet talented people could use their abilities more and more in an Indigo market not dominated by Church ownership of land and businesses.

Managing societies then became more and more a task for Orange and Indigo, with Monarchies, Dictators, etc trying to find a balance between the Left and Right. In Biv evolving Monarchies used the money they taxed from their subjects and the emerging feudal system of Blue workers to sponsor Violet arts and science, leading to many advances in technology. In Roy the domination of Orange led to evolving systems of justice combines with religious ideas of sin.

Over hundreds of years nations can change from domination of one Color Code to another and rebounding back like a pendulum. Russia was a Monarchy under the Czars and was more a Yellow country dominated by the Aristocracy and wealthy until the Red and Red Orange Communists took it over, then the poor dominated and the wealthy and Aristocracy were persecuted or killed. France was at one time a Monarchy with the Violet and Yellow Aristocracy sponsoring the Arts as Violet, but they also funded Yellow territorial wars against other Monarchies, like Lions fighting with rival Prides for territory, by taxing and impoverishing the Red and Red Orange people. Then the pendulum swung back to Red and Red Orange with the French Revolution as Aristocrats and the King were killed, the Rule of Red with the Committee of Public Safety and Robespierre, which contributed to the ideas of Red Communism later with Karl Marx. Cambodia was once a Yellow Violet Kingdom trying to find a balance between the Right Wing US and the Left Wing Communists in the Vietnam War. When this Monarchy was deposed the Communists became highly Red killing many talented Violet people such as teachers, scientists, etc to create a more pure Red society. As in Vietnam the Violet members of villages were sometimes killed or reeducated by the Red Communists. In Red societies, Violet talent is often discouraged as being related to Yellow Fascism or Imperialism.

The evolution of Red also occurred economically from primitive societies. Initially they were formed from nomadic tribes who defended themselves from raiding Yellow and Orange Yellow tribes by having a defensive fringe of warriors, and people considered to be less valuable as Red Orange. So the economic ideas of Red were based on these concepts of communal property to be shared and defended against from thieves and robbers. The secretive and deceptive nature of many Red beliefs also allowed for wrong economic ideas, as sometimes seen in Communism to be supported by people afraid of being singled out as dissidents. For example Lenin and later Stalin caused famine by collectivizing Green Blue private farms to dismantle the Biv economy. Often the five year plans were poorly thought out, but the urge to conform and be Positive, as well as dissidents being sent to the Blue Indigo fringe made it difficult to admit mistakes.

Marx’s economic theories were ultimately shown to be unworkable but inspired much of the Red welfare state in the world today, much of the failure of Communism could have been from this lack of critical analysis because being Positive and optimistic was so necessary. So ideas in the dissident Red Orange fringe eventually became more realistic than the center because they debated and fought against Yellow Imperialism and could see the strengths of their societies, sometimes these ideas dominated when the Red center became too weak to control the entire Red Orange fringe. For example with determined opposition to Communism in Europe Stalin directed local Communist parties to participate in open debate and attempt to take power by convincing people of the logic of Communist ideas, being secretive and deceptive while planning Terrorist attacks failed to work. In Yugoslavia Communism developed a more balanced approach which became a kind of blending of the Biv and Roy economies. While this was Heresy to Red dogma Yugoslavia was needed as a Red Orange defense or buffer against the West and so these ideas were tolerated. In the breakup of Yugoslavia the tensions between the Yellow Slavs and the Red Muslims increased where before they were held together as trading together in the Indigo market and also in the Police state as Orange under Tito. When a state or nation collapses and Orange and Indigo are weakened the Color Code oscillations can be destructive until Indigo and Orange rebound, this is like the Orange middle of the food chain collapsing or the Indigo trunks of trees being too weak to Coordinate the transfer of nutrients between Violet and Blue.

England was a Red country that had been conquered by the Yellow Romans around Fifty BC, though the Scottish put up enough Red Orange resistance to hold back the Romans and force them to build Hadrian’s Wall147F[[148]](#endnote-148), they joined the Roman Empire and its trade as part of a Biv economy. A thousand years later Yellow Vikings regularly raided Red England for pillage because they were relatively defenseless from sea attacks resembling strikes from packs of Predators, and for a time the Vikings had their own King Canute148F[[149]](#endnote-149) Preying on the people by forcing them to pay tribute with Daengelde. Eventually the English developed a Red Orange fringe to control the Vikings with the battle by Kind Alfred of Wessex149F[[150]](#endnote-150). The Romans had been unable to conquer all of Scotland which had a stronger Red Orange fringe and eventually built Hadrian’s Wall to keep them out. So the wall became in effect a kind of Orange separation of the Yellow and Orange Yellow Romans and the Red Orange Scots.

Colonialism has usually followed the Roman model of Yellow conquest for Red Prey and then the formation of a Biv Empire where the talented Violet administrators of it promote trade, the subjugated Red peoples becoming Blue workers in Biv. The Empire if it overreaches by too much taxation by Orange Yellow administrators or atrocities by the Yellow military eventually develops terrorist resistance in Red with the creation of a Red Orange fringe to attempt to drive the occupiers out, much as the Nazis were driven out by Red and Red Orange Partisans in World War Two from many countries. In the same way Blue workers in such Empires develop resistance by creating a Blue Indigo fringe of unionization to get a better deal for their work. Usually the Red Orange fringe terrorism creates a crackdown from Yellow, and this often causes Blue and Blue Indigo workers to join Red and Red Orange, and the economy can start to collapse because the warfare causes more scarcity which makes Roy more efficient that Biv. This reduction of revenue from Biv can lead Yellow and Orange Yellow to squeeze the occupied country even more to keep the same revenue stream as before, the reduction of Red and Red Orange later creates lean times for Yellow which might cause them to abandon the colony as not economical to operate for the resistance it encounters.

Just as in nature then the pressure from Yellow Predators kills off weaker Red Orange inhabitants and removes their genes from the gene pool so the remaining ones get stronger, natural selection ensuring those most fit to defend survive. So Yellow then in its interactions whether in nature, as Fascism or other forms of Authoritarian government, as Imperialists, as Colonialists, etc tend to create terrorism through their actions, to use reprisals and so evolve the Red Orange fringe to the point where it defends successfully against Yellow and even drives them out. This then reduces the evolutionary pressure of Red Orange because the Predators are gone, so they then devolve for example the resistance in many European countries disbanded after the end of World War Two and the genes of the most successful fighters were dissipated back into the general population. So in many countries under such occupation terrorists or freedom fighters have evolved as Red Orange and later the country became peaceful again as the Red Orange fringe devolves for lack of Yellow enemies to fight.

The technology of war has also evolved in Red Orange. For example the concept of a fort, moat, castle, etc represented a defensive hard exterior for the protection of the weaker Red people inside as well as using the Red Orange soldiers to defend it.

Such areas may have been dominated by Red with the Church using its secretive and deceptive beliefs to cow people into giving it power and property. Those most deceptive as well as those most pious and faithful, i.e. Positive rose in the local Church hierarchy while others were cast out to some degree into the Red Orange fringe to be farmers and grazers. Often there was a defensive perimeter to protect people against attack from the Yellow Vikings though generally the Church relied on the fear of the afterlife for protection. When resources were abundant the Church became more Blue such as Cistercian Monks working businesses, and a surrounding fringe of Blue Indigo famers and grazers. This fringe sometimes rebelled like a union if the monks took too much from the Community.

Other areas were more dominated by Yellow and Violet, or there was a balance of the Left and Right such as where the Church and the Aristocracy coexisted. The Orange law evolved with compromises between the Red Church’s view of law in the Bible and the Aristocracy’s Predatory ways. Other laws regulating the Indigo markets evolved as resources became more abundant in some areas and the Left and Right found it more efficient to trade with each other rather than rob or tax. When there were conflicts mediation could be done by other Aristocrats versus the Church or Peasants like a kind of Orange Policing. The Magna Carta came about in this way, King John ruled as Yellow, Preying on the smaller towns that developed a Red Orange resistance and compelled him to agree to a limitation on his powers and a Parliament to make laws.

The Violet Aristocracy sponsored the Violet Arts and Sciences while they made business with the Blue workers farming and grazing on Violet’s Green Blue land, though sometimes the Peasants owned their own land in parts of England. The Blue workers could trade what they grew in the Indigo market after paying a rent or tax to Violet, and sometimes the system would revert to Roy if there was an invasion or conflict with a neighboring Yellow Aristocrat. Violet would have Yellow Predatory aspect with Knights and soldiers; they would protect the people much as a Yellow Lion would protect the Prey on its territory against being taken over by a rival. The Violet Aristocracy could also revert to Yellow in territorial wars against other Aristocrats if they wanted to Prey on other farmers and grazers, extracting tribute, stealing their land to create new Kingdoms, Duchies, Earldoms, etc. Red and Blue areas then develop defensive perimeters to keep out Predatory attacks against their weaker centers, while Yellow and Violet areas have a strong center of Aristocrats and soldiers and a weaker fringe around them.

Eventually many kingdoms intermarried and formed larger Monarchies such as of England and France, and so often they warred with each other using the Red Orange fort principle for Red Orange defense, and at other times acted as Yellow with siege engines trying to break the Red Orange defensive fringe, or used Orange Yellow assassins and spies to break into the weak Red center such as with the Trojan Horse in Troy. The pendulum swung between the domination of Yellow and Orange Yellow as Kings and tribes, even Caesars who raided defensive Red Orange castles such as Julius Caesar invading Gaul. In the battle of Alesia Ambiorix150F[[151]](#endnote-151) took a defensive position in Alesia where any Yellow assault by Caesar would have been suicidal, at other times siege engines such as the Trebuchet151F[[152]](#endnote-152) gave Yellow the advantage with attacks against fortified cities.

Then it might swing back to where the defensive capabilities of Red Orange were stronger, Yellow Empire building became impractical and Empires would fall apart. Then Red and Blue Communities would be able to successfully defend against attack and Left Wing ideologies would prosper. As technology to break these Red Orange defenses grew using siege engines the advantage passed from Red Orange to Yellow so Right Wing ideologies like the divine rule of Kings prospered. The evolution of war then between Yellow and Red Orange has been one of attack and defense each evolving the other stronger and stronger and in times of peace they would devolve or weaken. For example the Red Orange defensive forts and castles might be effective against Yellow, and this removes the need to evolve stronger Red Orange defenses so defensive innovations stagnates, eventually Yellow breaks through with an innovation in siege engines, aiming at the weakest part of the walls, using ladders to climb, a battering ram, etc. This continued evolution in attack and defense continued through history the invention of guns then armor, bombers then anti-aircraft guns, trench warfare then tanks to overrun them, etc.

In World War Two the U-boats were like an Orange Yellow wolf pack attempting to attack Red ships using secrecy and deception countered by Red ships trying to hide by sailing alone or in small groups and scattering when detected. This tactic failed because the ships were too large and noisy to hide and could not camouflage themselves. Eventually England developed a stronger Red Orange fringe with radar, depth charges, the Red ships travelled in convoy with Red Orange destroyers protecting them like shepherds, decrypting Orange Yellow secret transmissions and overcoming the secrecy ciphers provided, using warships disguised as Red merchant vessels to lure a U-Boat to attack on the surface, etc. At the same time the war of Orange Yellow and Red was also in espionage such as in cracking codes of the Germans, misinformation, decoys, etc. This strong Red Orange defense became like lone Lions trying to attack a herd of Buffaloes, the destroyers could cut off the escape of a U-Boat so eventually they worked more in Yellow packs to counter them.

The German Blitzkrieg was like the rush of Yellow Predators such as Lions or Wolves to cause confusion amongst Red Orange Prey and break up the herd into more vulnerable small groups which could then be encircled. Eventually the Red Orange defenses were able to withstand this attack more with antitank trenches, barbed wire to stop troops, mines, flak, etc. Often then in war as in economics and politics the initial aggression by Yellow evolves a defensive Red Orange fringe, then Yellow becomes overextended and collapses, to later rebound.

The evolution of economics has usually been through Empire building which is primarily through Yellow, creating Biv trading networks where Blue workers work on Green Blue resources and create a Violet flowering of refined goods, art, science, crafts, etc. The movements in these variables can explain booms and busts in an economy. For example Blue workers might initially be paid less because Violet entrepreneurs make a new kind of business where there are no unions, and the workers are unsure how much they can charge for wages such as in the early stages of the English Industrial Revolution as Karl Marx pointed out. This is like a new Yellow Predator that at first decimates Red Prey until they build up defenses of secrecy and deception, and a Red Orange fringe to fight back and so profits at first flow more to Violet. An example of this would be when the Belgians first went to the Congo where the natives had no experience in resistance to or negotiating with Yellow entrepreneurs like this, so they were divided and conquered. Often natives would be working with the Belgians to make profits for themselves by hurting and exploiting other natives, this is like Blue workers competing with each other by offering to work for less and this can lower the overall wages through an area.

This creates a boom amongst the wealthy which is like the Yellow Predators suddenly having a lot of food and having more offspring, they may also not want to conserve their Prey because they could compete with other Predators and ones they don’t eat will be eaten by another. This is also like the current crisis in fish stocks caused by Yellow fishing boats catching Red Fish which are defenseless against modern fishing methods like using radar and large nets. In the early part of this boom the Yellow entrepreneurs look good because there are plenty of Red Prey and it appear they have made the market more efficient but as time goes by the poverty in Blue workers and the decimation of Red Prey make this strategy like short sighted. Resistance usually builds in nature by natural selection but overfishing and the pillaging of the Congo were too fast for organized resistance to evolve. There does seem to be a natural selection process with fish where they are getting smaller perhaps because larger fish are slower or easier to see. Instead this resistance built amongst Europeans who protested the cruelty in the Congo once this became widely known, first in England and led to the purchasing of the Congo by the Belgian government from Leopold. Fishing stocks have a chance to recover now there is widespread Red Orange resistance and protests amongst native fishermen who see their livelihoods being taken by large fishing ships off shore and Blue Indigo consumers are starting to boycott non sustainable fish sold. In Biv the fishing business received a boost when Violet entrepreneurs realized that fish and fish oil could be promoted as being more healthy, the Blue workers in these new industries were initially paid less but this leads to an increase in the Blue Indigo fringe as workers demand more money and strike for some of the large profits being made, this can reduce Violet profits and create a recession as wealth flows more back to Blue and causing the value of their speculative investments such as in Violet Art to fall in value, also reducing the ability of Violet talent to create more refined goods, improve science, etc.

A boom can also come from Blue workers, for example if they discover a new gold mine or a new area for farming. They claim this by fencing off Green public land into sections of Green Blue private property which usually needs to be registered to give them title. A new mine for example is like Red grazing animals finding a new plant they can eat or plenty of rain coming after a drought, and increasing in numbers more quickly than Yellow Predators can to catch up. One example would be new mineral discoveries in Afghanistan, this is a Roy country where power control resources rather than property rights and ownership. These new minerals will bring wealth to Blue workers mining there, if Violet mining companies take too much then the government would go Blue Indigo or unionized against this and workers may strike unless paid better. The wealth would flow upwards to those who refine these resources or produce refine goods to help mine it or in exchange for the raw minerals. For example Violet companies may sell advanced mining equipment to a Blue and Blue Indigo government who keeps most of the profits for themselves, then they sell ore in exchange for other Violet refined goods such as cars, modern home appliances, etc.

The rise and fall of the Red Orange fringe economically makes the success of Yellow wax and wane, and so Empire builders such as the Romans, the Spanish attacking South America, the colonization of North America at the expense of the Indians, the colonization of India by the British and other aspects of the Great game like secretive and deceptive interactions between Red and Orange Yellow, and the tendency of the Roy country to become Biv as the technology of the Colonial power improves the local economy can make the treasure and profits from Red and Red Orange countries wax and wane. The Roman Empire expanded and over time created its own resistance as people learned to defend themselves better often by copying the Roman tactics of warfare, leading to its decline. The British Empire also expanded then its colonies aided by Red Orange Communist training developed Red Orange and Blue Indigo resistance and terrorism and was driven out of Iraq, India and other countries. The Monroe Doctrine allowed the United States to dominate South America with colonialism until eventually Red and Red Orange Communism drove their Authoritarian allies such as Somoza and Batista out, then Red and Red Orange Communist societies were formed. When this Communism was finally overcome with the prospects of real Democracy South America is predominately Left Wing. As the threat of Yellow colonialism faded through the world with Imperialism being given a death blow in World War One and Biv nations provided welfare and worker’s rights, Red Orange Communism slowly lost a major reason for its existence and devolved leaving a more peaceful Red Communism, then a collapse of Communist nations around the world. As some economic exploitation still occurs there are still many strong Blue Indigo and Red Orange organizations associated with Green environmental issues and the United Nations, also cartels such as OPEC increase the prices countries get for their Green Blue resources.

The waxing and waning of the Red Orange fringe then creates effects through the Color Codes, just as it does in nature where Red Orange animals become stronger through natural selection until they are able to fend off Yellow Predators. Then as they are too successful they devolve allowing Yellow to triumph again in a cycle. This remains unstable so that religion, politics, wars, economics can switch from Red domination to Yellow and back through history with the periodic weakening of Orange Policing and Indigo markets.

The Red Orange fringe also occurs in a smaller scale in Communities which are attacked by nonviolent thieves as Orange Yellow and violent robbers as Yellow. Such attacks can create a Red Orange neighborhood watch, like the religious priests looking for the Orange Yellow sinners, the KGB looking for the imperialist Orange Yellow spies, and also it can create a Red Orange vigilante like gang of deviants where protection might be given by citizen patrols, lynching, etc. For example gangs in some poorer neighborhoods might evolve from protecting weaker Red people against crime from Orange Yellow drug dealers, thieves, etc. Having more guns in an economy can make a Red relatively peaceful neighborhood capable of being armed quickly with Red Orange resistance if there are attacks from neighboring countries, towns, etc.

The Red Orange fringe has also inspired some of the advances in medicine through the years. A germ might be seen as a Yellow or Orange Yellow invader of the body which reacts with its Red Orange immune system defenses. If the environment is too germ free the immune system can grow up impaired much like the Red Orange fringe of a flock might devolve with insufficient Yellow Predators. So paradoxically germs in a child’s environment might make them more likely to be healthy later as their Red Orange immune system can handle more kinds of attacks. In similar ways drugs can be like an attack on an economy as did the crack and cocaine epidemics in America. Eventually poorer Red neighborhoods developed defenses such as knowing the effects of crack and staying away from it and the epidemic abated.

Just as Red Orange grows stronger from the attacks of Yellow, Yellow Predators tend to devolve where their too successful attacks threaten their own existence or where there is insufficient Red Orange resistance to keep them strong. So for example Yellow invaders such as the Romans or Vikings might have pillaged without restraint but in time realized that if they attacked too much they didn’t allow the Red people time to recover and so they got less money, pillage, etc over time. Also Red learned to hide their wealth more and lie about its existence, just as Red animals learn to hide, use camouflage and be deceptive more. So Yellow often learns to moderate its attacks and forms a trading relationship with Red turning into a Violet and Blue trading relationship instead of a Yellow versus Red adversarial one, for example the trading network of the Roman Empire. If a Red Orange fringe doesn’t evolve or is crushed too quickly then the colony becomes easier to administer but the Red people become better at hiding wealth, also the powerful Yellow forces devolve into weaker but more cunning Orange Yellow to ferret out these hidden assets, for example as tax collectors. An Empire like this can grow weak as its soldiers lose their team instinct, if a Red Orange fringe suddenly develops or an attack from a rival Yellow Empire occurs they may not have time to evolve an army again. This happened regularly in the Roman Empire where successes with their Yellow way of fighting made the Romans expect victory and became weak, occasionally leading to reverses such as the massacre in the Teutoberg Forest of Publius Varus’ forces.

Malaria is an example of a parasite that attacked Red defenseless people killing them quickly, this is not the best survival strategy for a germ or other infectious agent because if the host dies quickly then it has less time to be transmitted to another host to infect them. This is like a Yellow Predator killing too many of its Prey before they can breed, depriving itself later of food. Variations of Malaria killed more slowly and sometimes only made people sick, this was more efficient as mosquitoes could feed on an infected host most often and transmit the disease. This slower onset of the disease gave an opportunity for those with resistance to develop a Red Orange fringe as their immune system learned to survive better against it. In the same way Nazism was a virulent Yellow Predator that probably evolved in part from the attacks of Red Orange Communists in Germany, as well as resentment from World War 1. Then it attacked Jews for their wealth to survive and when it nearly eliminated them needed more plunder and rather than forming a more symbiotic relationship with a colony and more regular and smaller pillage from it they attacked Red Russia and Eastern European countries for living space and to enslave more people and steal their resources, they then developed a Red Orange fringe which learned the Yellow tactics, formed an effective defense, rebounded and defeated Yellow Nazism which was by that time overextended and needed more resources than were available even in their vast Empire.

Sometimes with Red minorities the Red Orange fringe becomes part of the Policing Orange structure of the occupying power, and even Orange Yellow members of their own people can join in their persecution. For example when the Nazis invaded France Yellow and Orange Yellow Germans made agreements with the Vichy government, which Policed the Red French. In similar ways some Orange Yellow Jews worked with the Yellow Nazis against their own people in exchange for extra benefits, sacrificing some to save others. Yellow and Orange Yellow people in Eastern European countries in World War Two tried to help the Nazis because they thought they were better than Communism, attacked Red Jews or handed them over to the Yellow Nazis, helped find Red spies, helped to kill Red Orange Communist insurgents, etc. Empires and colonies then usually have Orange people in those countries acting as a balance or buffer against the Yellow invaders just as the Orange shepherd tries to balance the attacks of Yellow Wolves and Lions on his Red flock, working out which ones he can defend, allowing some to be taken to sate the hunger of the Yellow Predators so they will withdraw, etc.

For example Orange Yellow soldiers and administrators might be backed up by the Yellow army and they tax and steal from the Red population creating Red Orange resistance in the occupied country and an eventual backlash. In this they are similar to Orange Yellow petty criminals protected by Yellow Organized Crime creating a backlash of Red Orange vigilantes, gangs, etc. Orange tries to reduce the amount Orange Yellow takes but agrees to some of it to prevent angering Yellow which receives its cut from Orange Yellow. This is similar to how Police work with some Orange Yellow criminals, letting them operate in exchange for help in catching Yellow violent criminals and also because the taming of Orange Yellow criminals makes the war on crime more manageable just as it makes war in general less oscillating and so more stable.

In exchange for this protection from the Orange Police Orange Yellow is moderated, so the occupying power becomes tamed by the colony in exchange for more regular tribute. Also Orange persuades the Red Orange fringe to attack less with partisan or terrorist attacks, as these provoke attacks from Yellow. So an occupying force such as the Nazis might have an Orange puppet government who persuade the Partisans as Red Orange to moderate their attacks, and in exchange Yellow makes a deal with Orange Yellow to moderate its demands. For example Jews might have policed themselves to some degree with the Nazis in World War Two, moderating some of the Orange Yellow attacks, preventing some reprisals and stabilizing the situation to some degree at the expense of not driving out the Yellow Imperialists and making them part of the economy instead.

Often though Orange is unsuccessful and if it is weakened too much then Red Orange grows stronger in its resistance until Yellow has some of their soldiers killed, trains derailed, etc and the system oscillates back to Yellow attacks again like a pendulum where either the Red Orange fringe is destroyed and the population become Red where hiding and scattering is the best defense to occupation, the Red Orange fringe kills or drives out the Yellow occupiers or the two forces have a continuing struggle consuming resources in the country like Yellow Lions versus Red Orange Buffaloes. For example a crime wave by Yellow might provoke Red Orange gangs in a poor neighborhood to protect their Red relatives, and if the Police cannot stabilize things then rival gangs of Yellow and Red Orange struggle for supremacy in the streets with the advantage swinging back and forth, this is like the Red Orange Communists fighting the early Yellow Nazis in Germany in the 1930’s.

A similar situation is where a Yellow occupier is losing its grip on a country such as the Nazis in Eastern Europe by 1944, they then change tactics and try new weapons, as their losing evolves their strength by the weaker soldiers and less effective weapons being destroyed. Red Orange partisans were also still being evolved by the killing of their weaker members and ineffective weapons were destroyed, causing them to devise newer ones. Eventually the battle ends by either side winning or Orange regaining control and dampening the oscillations, for example the Armistice in World War One would have been an Orange agreement between the two sides. For example there might be a peace treaty, a truce, in the case of gangs the Orange Police might get more manpower and regain control of the oscillations.

As explained in an earlier chapter the Red Orange fringe can be a melting pot for different races, beliefs, intellects, etc because they are deviates compared to the conformist Red center and because of their team instinct they have a tolerance for each other. They can produce a relatively rapid response to attack through selection because the deviates of all kind have many different qualities which can be combined in offspring, teamwork, etc. For example people with many different ideas which are expelled from the mainstream Red center can converse with each other without the straightjacket of conformity to an often false dogma, and fear of exile. Races that have a tendency to be pure blooded, i.e. one ethnic type, one tribal background, one religious belief, etc tend to expel mixed races to the fringe where the combination of novel gene combinations can be a source of an evolutionary jump of new talents as well as ideas. Because there are so many different sects, cults, theories, ideas, etc in the Red Orange fringe then the needed mix of knowledge and strategies can be readily available when attacked, for example someone who might be violent and unwelcome in the Red center might make a good soldier, someone who rebels against dogma might have the talent of an open mind in the fringe, and perhaps create a new theory which might become the new Red orthodoxy in a breakaway group. New ideas from the Red Orange fringe can lead to revolutionary jumps as in the advance of the Red Communist revolution, new scientific discoveries, changes in religious dogma and so on.

For example Galileo was a dissident to the Red dogma of the church, but was able to develop ideas with others in the Red Orange fringe without having to conform to the Red center. General Zhukov152F[[153]](#endnote-153) was able to defend Russia in World War Two even though Stalin usually disagreed with him, other military officers out of favor with Red Stalin as well as criminals and dissidents from the Red Orange Gulags made winning the Great Patriotic War possible. Christianity evolved in its ideas over time more realistically by giving in to new ideas in the fringe often thought of as heresy.

This can also occur in art. Music might have a mainstream which conforms and a Red Orange fringe of alternative music where experiments can be made. Sometimes a band might create something new and acceptable in the fringe and this is allowed into the Red center where it becomes part of the new orthodoxy. This is similar to animals in a Red herd, flock, etc where the Red Orange fringe occasionally has offspring which are accepted back into the Red center. Other musicians might do well in the Red center and get too unorthodox and end up as a Red Orange fringe group. Movies have a similar evolution, of Red Orange or Blue Indigo independent film makers sometimes making a Red or Blue mainstream movie. Many Russian novelists were seen as Red Orange dissidents and either persecuted, killed, or imprisoned, but often formed a Community of dissidents and exchanged new ideas, such as in the Velvet Revolution153F[[154]](#endnote-154) in Czechoslovakia. Extreme Left organizations such as environmentalists can be very intolerant of criticism seeing it as Orange Yellow Predatory attacks rather than sincere suggestions, people not conforming to the politically correct view can be relegated to the fringe even though they are valuable members of the movement.

So a religion and other organizations can have three phases in Red. The first is where the Red center expels the Red Orange fringe, deciding they don’t need them with too strict a view of conformism. The second is where the church for example keeps the fringe as part of the church by being more tolerant. The third if where the church becomes so tolerant that those who demand more conformism go elsewhere and the church becomes a Red Orange fringe in itself, equivalent to the Red Orange animals or tribes that lost their Red center.

### Orange

As seen in the last chapter Orange represents a kind of balance between the motivations of Red and Yellow and also a balance of Red Orange and Orange Yellow. This evolved originally as the center of the food chain, where an animal was both Predator and Prey and so had a balance of both characteristics. This evolved into a primitive kind of Policing system where a tribe or group might mediate or moderate disputes between Yellow and Orange Yellow Predatory tribes and Red and Red Orange defensive tribes. It also developed from the role of shepherd of Red flocks of animals against Orange Yellow Predators such as Wolves.

Because the two sides of an issue are often confrontational they evolve as Red Yellow conflicts hence this gives an opportunity for a mediator as Orange to evolve in nearly all issues as well. It does this by representing part of the interests of both sides, it allows a certain amount of thievery by Orange Yellow on the basis that this indebts Orange Yellow to Orange. It allows a certain amount of vigilante actions by Red Orange and acts as an ally. So it can bring the two together in a form of balance and makes its profit or gains power from this.

From this most of the criminal justice system evolved. Orange can be seen as a jury or judge in court which is supposed to hear both sides, and lawyers argue for Yellow and Orange Yellow on one side and Red and Red Orange on the other. So the system tries to reduce the criminal activities of Yellow and Orange Yellow, allowing some with plea bargaining and reduced sentences for implicating other criminals, defends the rights of Red and Red Orange, and also addresses complaints about Red and Red Orange as well.

For example Orange Yellow represents the evolution of relatively nonviolent crime in society which relies on an element of fraud, deception, stealth, speed, etc and it is the job of Orange to keep limits on this crime and in return for allowing some to take place Orange Yellow is tamed somewhat otherwise they have no incentive to inform on other criminals. This is seen for example in juvenile crime where criminals might get many chances for nonviolent crime as the punishment grows more and more severe. The result is many modern societies have high levels of break-ins, purse snatching, etc and little is done by the Orange Police. This gives an income to Yellow Organized Crime which runs this petty crime as well, and often Orange might get paid off in this.

The result is a relatively stabilized level of crime and reductions in crime waves, this is like the taming of an Empire colonizing a country in exchange for moderating its demands. Since crime cannot be completely eliminated this can gives the best results overall. If other criminals try to break this partnership by too much Yellow violence then Organized Crime is likely to stop them, so it becomes like a crime franchise where the Orange Police indirectly for example stabilize the borders of territories between Yellow Mafia families. In return for leniency and another kind of crime franchise Orange Yellow might turn against Yellow on crimes that outrage the Red Orange Community which demands some action, this moderates violent crimes. Yellow then moderates its attacks because it fears Orange Yellow will inform on them because they owe Orange for leniency on previous crimes. So Yellow needs Orange Yellow criminals for an income, as a partial protection against Orange, but it also fears Orange Yellow turning on it.

Punishment of Orange Yellow and Yellow is used as a combination of deterrence and rehabilitation, Red Orange rehabilitation allows gangs to work within the system to protect their Communities in exchange for moderation and Orange Yellow criminals are deterred from too much crime. Repeat offenders get heavier sentences or they plea bargain and give up other Orange Yellow and Yellow criminals in exchange for lighter sentences, also they can be blackmailed with assistance they gave Orange in the past. So sometimes Orange uses deterrence as a tool, to make more arrests and crack downs to deter future crime waves and other times uses the prospect of rehabilitation to show criminals a way out. Yellow remains supreme against their rivals through deterrence and violence such as the Mafia using revenge killings against those who inform on them, and so is controlled to some degree by Orange Police by using the same tactics.

Orange also deals with crimes by Red and Red Orange. For example Red Orange might be prone to reprisals or preemptive attacks against criminals and these can be punished by Orange. Red criminals use secrecy and deception like Orange Yellow does, the Orange Police use their relationship with Red Orange to be lenient on them if they turn in Red criminals, they are more likely to do this because Red criminals are loners and are not part of the gang. This is also like with Yellow gangs who can turn in Orange Yellow criminals to the Orange Police to reduce their own sentences, they are more likely to do this because Orange Yellow is not part of their team. Also Red and Red Orange can use up too much Violet resources which leads to Violet complaints to the Police, for example Violet oil companies in Africa might complain about Red and Red Orange gangs attacking their pipelines, robbing or kidnapping their workers, and threatening to form a Red government to nationalize oil reserves. Violet defends against this through their Yellow partners attacking these Red and Red Orange gangs, so the Orange Police might use Orange Yellow agents to infiltrate the Red Orange gangs or espionage on Red Terrorists to reduce this. Orange then gains power by these actions by reducing the power of other colors and keeping a balance between them so they are rarely attacked personally. Red and Red Orange have a limited ability to command Orange resources unless they are tamed to some degree in exchange for protection, the Orange Police like a shepherd may not be willing to defend them completely because the Yellow and Orange Yellow criminals are too strong to stop completely, also they might attack the Police as Prey if they don’t have a better target. Instead it moderates Yellow and Orange Yellow in return for payment, taxes, wages, and acquiescence from Red and Red Orange. For example Red business might bribe Orange Police to look after their businesses more and watch out for criminals while Orange Yellow criminals might be trying to bribe them to look the other way when they attack Red so Orange profits in money and power from both, if they favor Orange Yellow too much then the Red Orange fringe attacks them. Orange in some ways gets pressured to take sides, or become more like the Indigo market if resources are abundant and let them work it out between themselves. Red and Red Orange have some responsibilities to not be foolish in exchange for Orange protection, for example locking their homes and cars, not walking in dangerous areas, needing to avoid provoking Yellow and Orange Yellow attacks.

Prisons can be seen as housing Yellow and Orange Yellow like a fencing in of them while Red and Red Orange run free, in other ways like fencing in Red and Red Orange like a shepherd letting Yellow and Orange Yellow run free. Usually though the prisons contain criminals from the Left and Right who form their own Roy ecosystem there. For example this can be like an area with dangerous Yellow and Orange Yellow Predators being fenced off or guarded, this reduces crime by taming them and removing them from society. Alternatively Red and Red Orange might be imprisoned themselves in gated Communities, have to carry Red Orange weapons while Yellow and Orange Yellow run free such as in more dangerous neighborhoods. It can be seen by Yellow and Orange Yellow that Red accumulates wealth from Violet and so feel justified in taxing it, commanding tribute, protection money, etc.

Generally a Policeman as Orange acts like a combination of Red Orange and Orange Yellow. Like the old saying it takes a thief to catch a thief many Orange Police might be genetically predisposed for theft and fraud but select an Orange occupation because it is a steadier income and less dangerous. So these Police might sometimes steal from Red, be corrupt, etc but generally have a steady wage and pension to lose so they don’t risk it. Other Orange Police might be more Red Orange or bull like, stronger and more protective of the weak, less sympathetic to Orange Yellow but primarily interested in the hardened criminals like Organized Crime, bank robbers, violent people, etc as Yellow.

Orange Police have a merging of these two interests, to stop Yellow violent crime with an equivalent powerful force, and to keep a lid on Red petty criminals with Orange Yellow detectives. Also by giving an Orange Yellow criminal a safer way to commit some crime those predisposed to live by crime have an outlet which stops a larger crime spree. By giving Red Orange an outlet to tackle Yellow within the law it stops them escalating attacks into a hot war in the streets. Red Orange has many of the characteristics of the Yellow thug and just as it takes a thief to catch a thief it also takes a thug to catch a thug. In this way Orange Police combine the two kinds of attack and defense, slow and strong, and fast and deceptive to stabilize the Roy society.

Red can also try and rip off Orange Yellow as it also acts like a thief so the Orange courts also prevent this kind of thievery too. Red Orange can be a rival gang and attack Yellow in an equally violent way. While Yellow and Orange Yellow are more Predatory, they can be attacked back by Red and Red Orange in a criminal way.

The prisoner’s dilemma illustrates some of the strength of Orange. Orange Yellow criminals are given a choice to tell on their Yellow allies in exchange for a lenient sentence so this breaks up the groups of criminals where packs are more powerful. Also Red Orange criminals might be given an easier sentence in exchange for informing on Red criminals. So Orange stabilizes the Roy colors preventing them escalating into a conflict that creates catastrophe.

In the same way Orange acts to hold back conflicts between different peoples, nations, etc. For example the United Nations and League of Nations were Orange in their actions to stabilize conflicts though it was unsuccessful in stopping Yellow Nazism taking over Europe and attacking Red Russia. Some neutral countries might act as Orange and allow for diplomatic exchanges between warring parties, for example Switzerland in the Second World War mediated attempts by Heinrich Himmler to end the war early in an armistice. Other countries may side with whoever is losing like the Orange Police do to maintain a balance of power, such as the US and Britain supporting Red Russia and then engaging in a cold war with them later, this stops one side winning and prevents more violent Roy oscillations. Client states of the US as Yellow and Russia as Red might be given weapons to help them fight proxy wars, giving a kind of balance of power or detente154F[[155]](#endnote-155). For example in South America battles between Fascist Yellow governments like Somoza were supported by the US and Red insurgents were supported by Russia.

This is often called the Great Game, where Color Codes fight out hot and cold wars in other countries and the balance changes as one or the other evolves advantages. Orange can also be a kind of terrain advantage as well as Policing. For example in World War One the front line became a stalemate for a long time because the technology of the day was evenly balanced between Yellow attack from the Germans and Red defense from the French and British. So trench warfare meant that Yellow attacks rarely succeeded though Red Orange defenses rarely allowed counterattacks, this was overcome by the evolution of the tank as well as the defenses of Germany being weakened by a lack of food and ammunition. In World War Two the attack on Russia showed few Orange stalemates as the Yellow Blitzkrieg quickly collapsed Russian Red Orange defenses. So these Orange stalemates in World War One were created by the technology of the time favoring Red Orange defense with trench warfare. The Germans learned from this and created the Yellow Blitzkrieg of tanks, eventually blocked by more Red Orange defensive strategies such as mines, anti-tank trenches, RPGs, etc.

Orange also has natural advantages in crime, because it is usually funded by the state, when the Police are well equipped with such as SWAT teams this can be an effective defense against Yellow criminals. When surveillance equipment is allowed as Orange Yellow then this can stop Red terrorism by eavesdropping on them. So the strong Red Orange defenses can also be turned against Red by their allegiance to Orange, Red might fall into line by the threat of not being protected by their own Red Orange fringe. In the same way Yellow is controlled by the threat of Orange Yellow turning against them in partnership with Orange. So an Orange Police with enough assets of strong powerful weapons as Red Orange and deceptive assets as Orange Yellow such as Police undercover can be most effective. Also if the courts are strong with funding from the state then they can mete out sufficient threats and punishments against Yellow and Orange Yellow, and also incentives for Red and Red Orange to cooperate such as rehabilitation and amnesty.

Orange can become strong to the point of operating like a government as a Dictator or Police state. Often a tribe or chief might take this Orange role and a strong man if fair to both sides can be strong enough to do this balancing act. If Yellow is too successful then Red Orange might not stay under control and there can be street battles. If Orange Yellow is too successful then Red might retaliate with similar deceptive practices and a cold war ensues that Orange loses control over. So Orange can wax and wane in Policing and war, and this waning can lead to periodic crime waves and violence, and also outbreaks of wars. For example this can be a natural rhythm where Color Codes regularly become stronger and dominate, then wane as other Color Codes dominate in turn such as with the seasons, they may also oscillate with cycles in economics such as Kondratieff and Elliot waves. Wars, murders, riots happen regularly as the system moves like a pendulum allowing first one side advantages then the other. In practice it becomes nearly impossible to have perfect stability because technology, numbers, wealth and other factors change the balance. Nature also has more regular oscillations such as plants growing more in spring and shedding leaves in autumn, it may be that corporations and economies have a cycle where Blue predominates and then Violet fruits and flowers like a plant then there is a recession. In the same way wars may have a cyclical nature as they often occurred from the Middle Ages on in Europe, Red becomes strong and then Yellow, then Orange, and so on.

Orange then does a balancing act, helping the losing side, trying to divide the stronger Team side of Yellow or Red Orange with plea bargains and payments, sometimes being corrupted in return. It also tries to unite the Orange Yellow and Red with itself, allies in Orange Yellow can help to take down Yellow gangs and Mafias, and allies in Red can take down militant terrorism in Red Orange as well as act as informers on Red Orange gangs. For example when Yellow Nazism and Red Communism began to move toward war Orange was not strong enough to stabilize things, however when the Central Powers of Germany and the Hapsburg Austrian Empire formed an alliance there was an opportunity to split them with a show of force from Britain and the US as an Indigo market wanted to keep trading with everyone to make money but eventually came in as Red Orange, acting like the Orange Police. The Red and Red Orange victors of the First World War in the treaty of Versailles set the situation up for reprisals by Yellow and Orange Yellow as it gave them an excuse to build military power again, by saying the treaty was overly punitive and that Germany was not responsible for starting the war. Also Communist infiltration of Germany evolved Yellow and Orange Yellow and led to a resurgence of Yellow and Orange Yellow while Red in the British Empire and France had little reason to cooperate as they were competitors in trade. Orange then needed to balance this somehow by appeasing Yellow and Orange Yellow, to weaken their motivation, to split them against each other such as dissuading Italy from joining on the side of Germany, rather than their uniting against Red Jews and Communists. So the lead up to the war was dominated by Red versus Yellow instead of Orange hence there was little moderating influence, creating oscillations between the two.

Since World War Two the United States and other countries have acted as a global Policeman or Orange in various conflicts. For example in the Middle East and other areas a balance of power has been achieved by arming the weaker sides, such as Iraq versus Iran, weapons to Saudi Arabia and Kuwait, using money to buy the favors of Orange Yellow to separate them from more militant Yellow factions intent on attacking Israel. In return the US restrained the Red Orange fringe of Israel and other countries from reprisals and avoided hot wars. So just as in Police and criminal work the Orange balancing act has the same kinds of strategies.

In economic terms Orange Policing has prevented various kinds of crimes causing recessions and depressions. For example an economy that is corrupt might have Yellow Fascism and Orange Yellow cronies like a Dictatorship or Oligarchy, and Orange needs to moderate these economic Policies to prevent catastrophe. Sometimes this role is filled by the World Bank or International Monetary Fund, when Cronyism is too rife then the Yellow Dictators need to be persuaded to not support some of the weaker cronies to reduce the weight on the economy. This is like splitting up Yellow and letting some be Orange Yellow and competing with each other rather than forming a team that support each other and stifle competition. For example such a government might tax the poor too much as happened in early times with Monarchies that were too right wing as with Louis the Sixteenth prior to the French Revolution. This often led to protests by Red as terrorism and Red Orange resistance to paying. So this can lead to a kind of class warfare and then Red hides its assets with deception and Orange Yellow tries to ferret these out in a cold war of counter deception, this led to a revolt and the establishment of the National Convention in France then the French Revolution. Red Orange in turn fights against Yellow government forces in protest such as demonstrations which can turn violent. One example of this is in Biv societies where taxes are high, and Red and Blue, or Orange Yellow and Indigo Violet might hide their assets from the taxman, Red usually in a black economy and Orange Yellow in tax havens.

So Orange needs to reduce these economic problems in the same way as in criminal cases and wars, by driving a wedge between the Orange Yellow cronies and the Yellow government, often a Dictatorship, letting them do some economic crime in exchange for moderation and in return controlling demonstrations by Red Orange and avoiding Red hiding assets or money flight from the country. This was seen in Right Wing Dictatorships in South America such as Chile where free market economics led to Yellow and Orange Yellow cronyism, Yellow death squads battling Red Orange Communists and the opposition political party while money as Red fled the country. Eventually the excesses of Yellow and Orange Yellow breed a stronger Red Orange and more deceptive Red and so many of these countries in South America became Communist and later Left Wing Democracies.

Similar oscillations can be caused by Red and Red Orange influencing an economy with Communist infiltration. For example the Communists targeted Germany in the 1930’s and thereby bred a stronger Yellow and Orange Yellow political response, which then became too strong and led to a backlash against Red and Red Orange Jews and Communists. After the war the oscillations were dampened and Orange Policing by Russian and US occupation caused the country to stabilize. Discrimination against Red Jews by Orange Yellow Police was stopped and Communist attacks as Red Orange were also stopped making for more stability.

In another example many countries in South America were infiltrated by Red Communism not just in reaction to Yellow imperialism by the US. So this Communist pressure sometimes supported by Cuba and the Russians created Red Orange terrorism in countries, and Red deceptive espionage. Orange Policing found this difficult to counter and typically would use an Orange Yellow based response such as with the CIA, espionage, and intelligence to find these Red cells and eliminate them. Police then became mainly Orange Yellow in response and so had a lesser Red Orange aspect to moderate Yellow and Orange Yellow Fascist and Dictatorship elements. So the Red surge created an oscillation Orange could not control and this led to the increase in strength of the Yellow Fascist movements propped up by US money. Eventually the oscillations died down with the end of the Soviet Union and the countries became balanced economically as Orange regained control.

The US had many scares in the cold war about Communism, that Red agents in the US were clandestinely causing trouble, usually by infiltrating Blue and Blue Indigo workers and unions, with propaganda, causing damage with strikes, etc. In return the Orange Yellow CIA evolved to become more effective in this battle against the Red KGB. Trying to find these Red cells of deception led to Orange Yellow McCarthyism, for example attacking Red Jews in the film industry. So an outside push by Red into America made the Orange Police become less stable and Orange moved to the right and became more like Orange Yellow, spying on people with FBI wiretaps, investigating Red Orange demonstrations such as later against the Vietnam War with Orange Yellow, etc. Also the pressure of Red Orange weapons in the Soviet Union fueled an arms race of Yellow US weapons in response, though these were not used because of the dangers of a hot war and nuclear exchanges. So Orange also kept control of this with the United Nations mediating disputes between Red and Red Orange nations and Yellow and Orange Yellow ones.

When the cold war ended Policing in Orange became stronger and was more accommodating of the Red Orange protests of citizens such as for human rights, Yellow Police brutality, Orange Yellow eavesdropping on citizens, because there was no Red Orange Communist movement behind it any more. This stable balance has recently come under pressure from Red and Red Orange becoming strong again through complaints of Arab people in the Middle East against Yellow and Orange Yellow Authoritarian governments propped up by the US, this breeds Red and Red Orange stronger causing more terrorism and the oscillations continue.

In religious terms Orange has represented the good shepherd looking after the Red flock for many people. So instead of religion based on the Red center and casting out deviates to the Red Orange fringe, the Red flock sees the divine as like an Orange shepherd as in many psalms, e.g. walking in the valley of death, fearing no evil, there with the crook and staff to protect them. In this aspect of religion there is less intolerance and more fairness in its teachings. Just as with religious Police this can evolve into a criminal justice system such as with Sharia law in Islam and punishments laid out in the Torah like the twelve commandments. Just as secular Police might uphold a law, religious Police might uphold a code of conduct such as no dancing, music, dress codes, no kite flying, etc.

Such laws also rely on a balance of Yellow and Orange Yellow on one side and Red and Red Orange on the other. The Red religion saw people as a homogenous flock to be protected from the Yellow and Orange Yellow demons and sinners. Red Orange was like a militant fringe of religious fanatics who unlike Red turning the other cheek would fight the forces of Yellow evil. In Orange religion there is a more pragmatic balance of the needs of all sides. So a thief as Orange Yellow might be deterred by losing a hand in Islam rather than be regarded as a sinner. An Orange Yellow husband might be allowed to beat or dominate a Red wife and she might have few protections under the Orange religious laws. Even in Christianity though a wife might have few rights and had a duty to obey and divorce was usually forbidden. So religions have evolved a set of laws relating to sin that are similar to criminal laws in Orange, and like how wars and conflicts are mediated in politics and diplomacy. This is also an expansion of religion into the other Color Codes. First Red was Christianity, then some were marginalized as Red Orange with deviant or Heretical ideas, then with their association with Orange Police and lawmaking this combined these laws with religious ideas. Because Orange Yellow is also involved with Orange Policing eventually they will be accommodated in Christianity, such as forgiveness in Church for Sunday Christians for whatever they do wrong during the week. Lastly Yellow Organized Criminals such as the Mafia can often be Catholic because the Church holds out hope for them to go to Heaven and then Christianity spread into the Biv economy.

Religion might have a system of penance for sins such as Orange Yellow theft and Yellow violence similar to in a criminal system. So Orange religious Police inhibit bad actions by Orange Yellow and in return also forbid much of Red Orange revenge as sinful, the church then presiding over the balance of power between sinners on both sides. In some cases this Orange shepherding becomes unbalanced by Red and Yellow oscillations as well. For example modern society has confronted religions with much pressure that has at times shifted them to Orange Yellow or Red Orange. Birth control is a new technology that gives Red and Red Orange more defenses against unwanted children and the churches usually side with Orange Yellow in not allowing these. In another example wars by Yellow Dictators are usually condemned to some degree by the Christian churches in defense of Red and Red Orange, it can also support this to some degree as the Catholic Church did in World War Two with the Nazis.

Such oscillations can erode the authority of the Orange Church. For example Red women might disobey and use contraception secretly and deceptively, and the Church in response takes the side of attacking them as sinful rather than seeing their side as the right to defend themselves against unwanted sex and offspring. Consequently Red women and couples become deceptive, not confessing the use of contraceptives and also as Red Orange protesting against this church doctrine. Yellow Dictators might see resistance by Red Orange Communists and Jihadists in third world countries as a justification for death squads and harsh interrogation, torture, reprisals, etc and the church in refusing to endorse these actions tends to lose control of Yellow. Yellow Organized Crime figures, Dictators might try and be endorsed by the religious Orange in Islam and Christianity, but these usually side with the Red Orange protesters and say it is wrong to kill them.

In the Middle East for example Dictatorships might be more Yellow and Orange Yellow with support from the US and fight Red cells and Red Orange terrorism but the Orange church tends to disapprove of mass killings, reprisals, torture, etc. So as both Yellow and Red disobey the Orange religious Police, they begin to decline in power. They arrest this decline and regain strength in turn by supporting Red Orange protesters as human rights, and thus splitting them from Red and moderating their actions. They also forgive more venal sins of Orange Yellow in exchange for them condemning the mortal sins of Yellow.

### Orange Yellow

Taoism is another example of a form of religious law where people are urged to use moderation, avoiding too much Red Yin and Yellow Yang in society. It also sees disease as a disturbance of this balance between Yellow and Red as Yin and Yang. For example the Red Orange fringe can be seen as a defensive shield against Yellow and Orange Yellow germs. When Yellow is strong then these diseases kill more often, but as Red Orange in the immune systems becomes more experienced with different kinds of germs it creates resistance to disease better. So disease can be a balance of these opposing Color Codes like Yin and Yang. Yellow germs are more direct and try to overwhelm the Red Orange immune system and a fever might represent a hot war between them. So a healthy person might have regular diseases as the Yin and Yang or Red and Yellow oscillate but if this is dampened enough then the person is most healthy. In the same way outside influences can upset this stability though.

For example a Yellow germ like Fascism might be readily recognized but overwhelm the immune system with sheer numbers such as with Malaria, Ebola, etc. A secretive and deceptive Red virus such as HIV, Influenza, etc survives by deceiving the immune system and mutating to remain unrecognized as a form of camouflage.

Orange Yellow is a Predator that is weaker than Yellow Predators and relies on speed, deception, trickery to catch the also speedy, deceptive Red. This Color Code evolved in primitive societies with Red relatively weak and stealthy tribes being attacked by other weak and deceptive tribes who became Orange Yellow. In advanced societies this becomes a major part of crime, with petty theft, conmen, knaves, etc. Just as a shepherd tries to block and domesticate Orange Yellow like Wolves and wild dogs from getting past him to attack his Red flock so too does the Orange Police try to domesticate Orange Yellow and reduce their attacks on the more Red defenseless elements of society.

Typically modern Police use informants to know more about future crimes and in exchange for this use leniency or look the other way as these kinds of Orange Yellow criminals operate. So these become the equivalent of a semi tamed dog, able to be trusted to some degree to warn about attacks of wilder dogs, to be trusted to some degree not to attack the herd and in exchange receive more regular meals from this same herd.

In a way then criminals become domesticated and supported by Orange Police and this moderates their attacks. This is similar to that seen in nature where Orange is around the middle of the food chain, both Predator and Prey. It might have a territory that is often threatened to be overrun by stronger Predators, it lets them roam at times to fight it out with Red Orange animals but can attack them if Yellow is weak, such as injured or alone. For example Hyenas can act as Yellow with an open pack which can hunt Buffaloes, or a smaller looser pack to chase smaller animals such as warthogs. Normally a Pride of Lions are too strong for them so they would hide or scatter, with a pack of Hyenas and a lone Lion they could successfully kill it or chase it off their territory. Hyenas and Lions can then change Colors according to circumstances, a lone Lion might be Orange Yellow if it is injured, a lone female with cubs, or separated from its Pride and must use deception and speed to catch Prey such as hiding and sneaking up on Red animals like Gazelles. A pack of Hyenas could attack Red Orange Wildebeest or Buffaloes and use their numbers to isolate a single animal and exhaust it, they could also drive off or kill a single Lion. More usually Lions form a Yellow pride and attack Red Orange animals and Hyenas must scatter and hide from them as Orange Yellow. Animals that always hunt alone, such as Indian Tigers and Foxes are pure Orange Yellow in their tactics.

In evolution there is a tendency to win in Roy on one of two ways, by strength or by stealth. Orange Yellow then evolves by being more stealthy, to trick or be tricked by Red. This evolves in primitive societies to tribes that raid by stealth, and in modern societies to armies, spies, and petty criminals who survive and procreate according to how well they deceive. Those criminals who do poorly instead of starving as do animals in nature either stop being criminals, change Color Codes, get regular jobs in Biv or end up in prison. So this selects against ineffective Orange Yellow criminals as it does with Orange Yellow animals such as Foxes. Strong Orange Police might have a stronger Red Orange component and so Orange Yellow has more difficulty getting to Red victims, and so criminals might evolve to being a more Yellow violent kind. Again this is a kind of natural selection, much like a petty thief being unable to rob houses by stealth and so gets a gun and robs stores and banks violently. If an Orange Yellow thief is successful then other Orange Yellow criminals might be partially domesticated by Orange and turn him in, so there is also a pressure for Orange Yellow to become Yellow or become domesticated by Orange and occasionally inform on other criminals. Typically then a Color Code is influenced by neighboring Color Codes, to join them or to be at least influenced by them.

Orange Yellow might also act as being part of the way up the food chain, as Predator to some and Prey to others. For example there might be a pecking order of criminals where stronger ones might also rob weaker ones, and weaker ones might show respect to stronger ones like a kind of Mafia. So a person might rise higher in an organization and Prey on those lower down, demand dues, payments, parts of robbery proceeds like a stronger animal might steal part of the kill of a weaker one.

If the society is more Right Wing or authoritarian then it is more dominated by Yellow and so Orange Yellow has the backing of Yellow’s strength in exchange for sharing the criminal proceeds. Here then Orange is weaker because Red Orange is more effective in fighting Yellow criminals because they both use team tactics while Orange uses a combination of teams and loners, so Orange Yellow can get away with more theft. For example there might be a Fascist leadership such as a Yellow military Dictatorship which rules with violence and there are Red Orange terrorists, street marches and gangs that fight the Yellow government while the Police try to stay neutral. Orange Yellow then might be cronies who can steal from Red and Red Orange, get preferential treatment in business deals and still have some influence with the Police who take a long term view of bringing Yellow down.

For example in South America Somoza could have been seen as a Yellow Dictatorship which ruled with violence, and battled against Red Orange antifascists funded by the Red Communists of the Soviet Union. Around this Yellow ruling party were Orange Yellow businessmen and soldiers who used this threat of Yellow power to steal from peasants, levy taxes and fines, etc. Getting money in this way was difficult because Red people were also deceptive and used to hiding their assets, and evading these tax collectors, etc.

In a similar way Nazis were a strong Yellow leadership which was evolved by battling Red Orange Communists in a hot war. Orange Yellow then evolved as an espionage service looking to deceive Red Communism for example by giving them disinformation that the Nazis would never attack Russia. There was also a kind of cat and mouse game in stealing from Red Jews who hid their assets as they tried to flee Germany. So like fleeing Red animals such as Gazelles, Sheep, Zebras, etc these were pursued by Orange Yellow Predators like Hyenas, Wolves, etc.

Western intelligence services such as the CIA, MI5, etc can also be considered Orange Yellow in that they fight a Cold War against Red adversaries, such as Communists, terrorists, Al Qaeda, and so on. So these Red terrorists instead of battling Yellow in a Hot War might use stealth such as in suicide bombing, planting explosives, and creating terror in the weaker Orange Yellow parts of the society. A good example of this was in World War Two when Orange Yellow Nazi intelligence services fought a cold war of misinformation, code breaking, etc against the Red and Red Orange Allies such as having false double agents interested in trying to kill Hitler.

In Economics Adam Smith spoke of considering each man a Knave, and by this action Capitalism works with an invisible hand. Knaves in Aperiomics are Orange Yellow and the deceptive action of Orange Yellow is similar to the actions of Indigo Violet in Biv societies, the invisible hand is where color interactions work chaotically with secrecy and deception namely Red versus Orange Yellow and Blue versus Indigo Violet. Capitalism then can range from outright fraud and thievery in Orange Yellow to sharp but honest business in Biv, the balance between Knave and Fool in Roy is seen in the food chain where a Fox might with secrecy and deception fool its Prey. Honore de Balzac wrote about Knaves and Fools in his Human Comedy155F[[156]](#endnote-156), in Biv Blue workers are somewhat foolish with their money and what they farm or mine and so Indigo Violet agents can make profits from them like Orange Yellow Predators can catch Red prey.

The drug trade can often be Orange Yellow dealers trying to addict defenseless people by deceiving them about what heroin or crack might do. In this case Orange tries to have Orange Yellow informants as spies against other Orange Yellow criminals, to try and get to the kingpins of the drug trade which would be Yellow Organized Crime. In exchange some drug sales might be allowed. A similar situation happened with Prohibition and alcohol but when drugs are legalized it becomes a Biv business and Orange Yellow acts as Indigo Violet, instead of looking for Red people to addict with drugs they might look for Blue workers to sell legal drugs such as alcohol and tobacco to. Just as Orange Yellow might try and deceive Red, Indigo Violet works within the law to use advertising, often deceptive and hiding some bad effects of their products, to deceive people to some degree about the effects of alcohol and tobacco. In modern society then tobacco companies straddle the border between Orange Yellow deception and Indigo Violet sharp business where side effects of tobacco were hidden and deceptive advertising portraying smoking as glamorous were used.

This Orange Yellow Red interaction can be seen as an underground economy, an unseen or cold war between intelligence agencies as well as a stealthy cat and mouse game between pickpockets and housebreakers and victims trying to hide their valuables or run away from muggers. In all cases deception and secrecy are important.

The domestication of Orange Yellow takes many forms throughout this. While Orange Yellow criminals are given favorable treatment from Orange Police in exchange for ratting out their Yellow colleagues, Orange Yellow espionage agents for a government have to be treated leniently or given a free pass by the Orange Police forces. For example the CIA might operate clandestinely and do things that would normally be illegal, but are allowed to do so by the Orange Police much as the Orange Yellow criminal is allowed some leeway. In exchange for this the CIA might agree to adhere to certain rules such as turning in agents who go too far, providing information against Yellow criminals, allowing some Red terrorists to be tried in an Orange criminal court rather than Orange Yellow military tribunals, etc. Private contractors sometimes work with Orange Yellow intelligence services to act secretly and deceptively in deniable operations, for example in Afghanistan and Iraq with Blackwater156F[[157]](#endnote-157).

Much of the Cold War with the Soviet Union was a battle between Orange Yellow and Red like this in espionage, because Red Orange versus Yellow war was too dangerous with the threat of nuclear weapons being used. Orange Yellow then can be more prominent when Yellow violence is dangerous, especially when Color Codes that overextend are usually hurt later as they oscillate and return to stability. For example in a modern society Orange Yellow crime might be more common because Yellow violence such as kidnapping, robbing banks, murder, etc might evoke too strong a response from the Red Orange element of Orange Police. So there is a tendency in crime to remain like a Cold War based on theft small enough to stay under the radar of the community between Orange Yellow and the Orange Police. In war there is a similar tendency for it to remain cold as with espionage, spying, using surveillance of emails, phones, letters, spy satellites, etc instead of Hot Wars because of the dangers of Yellow weaponry. Much of this is also because of the stabilizing influence of Orange Police. Where Orange becomes weak, as in World War Two for example, Yellow versus Red Orange hot war is more likely. In modern society Orange Policing is much stronger and this keeps most Yellow violence in check.

So in some cases the Red Communists had the upper hand and Orange Yellow was an anticommunist force trying to spy on them, plant agents, etc. In others where a regime was Red Orange such as the Warsaw Pack and Red China with a strong military, Yellow Western countries tried to destroy it such as NATO deployments of artillery based nuclear weapons to stop a tank attack from there during the Cold War. This is similar to in nature where a stronger Red animal might be attacked by stealth by a smaller Orange Yellow Predator, like for example a Red mole being attacked by Orange Yellow foxes or cats. Alternatively where Orange Yellow is stronger they might convert to a team strategy, so there might be roving packs of Orange Yellow Hyenas looking to surprise Red animals by sneaking up on them, and they try and survive by hiding, running away, etc.

Orange Yellow then encompasses many positions in modern society. They can form part of the criminal society, and also be partially domesticated and used for government work. For example in Nazi Germany criminal actions were undertaken by Orange Yellow on the basis that the Red threat of Jews and Communists justified allowing these interactions to continue. In Fascist societies in South America and even American soldiers in Vietnam Yellow patrols might be trying to trick Red Communists, who in turn hid and ran away, only to return when the Yellow patrol was gone. Like a flock of birds or school of fish, Red can disperse when attacked by Yellow Predators, hide and then reform. To catch them Orange Yellow was needed to be equally cunning and deceptive.

The deceptions of Orange Yellow can encompass media as well, acting as propaganda. Espionage might also involve using journalists to plant false stories about Red. For example the Nazis used Orange Yellow propaganda to paint Red Jews as evil to avoid people helping them, and in the same way Western intelligence in the cold war used journalists to scare people about Red Communism so people would turn in suspected Communists. In the same way Red Communists used Pravda to tell deceptive stories about Imperialist and Capitalist spies and stooges in the Soviet Union. This relationship can be relatively unrestrained when Orange is weak, such as for example Orange Police in Nazi Germany would have had little power to protect Red Jews. When Orange is stronger this propaganda is weakened because Orange Police use informants in the media and laws about fair and accurate reporting to stop this war against Red people in society becoming too strong, also Orange Yellow is usually compromised by some illegal action or something they want to keep secret, so in return they must moderate their attacks against Red.

This can be difficult where this Orange Yellow disinformation is being protected by more powerful people in the Yellow military or politics. These relationships can be exposed however by Orange reporting where journalists act as Police themselves, or write stories to spur the Police into action. For example Orange Yellow journalists might be corrupted by Yellow money, or to get access to Right Wing politicians and in exchange print propaganda and lies or disinformation against Red and Red Orange left wing political parties, as was often an accusation during the George W. Bush Presidency. This is similar to Orange Police trying to expose corruption in their ranks from Orange Yellow criminals who were backed by Yellow Organized Crime. Here Orange Yellow journalists might print disinformation to attack Red much like Orange Yellow criminals used deception to attack Red people.

To reduce this propaganda then Orange also gives journalists stories to reduce this reliance on disinformation on from the right and also to persuade them to turn on Yellow and expose them. For example journalists in the Cold War were often either paid off by Orange Yellow intelligence agencies or given other stories in exchange for attack pieces against Left Wing Red parties. In recent times Right Wing political parties might have journalists that print distortions about Red Democrats in exchange for favored status with the Yellow and Violet military industrial complex or think tanks later. So this Orange Policing action tries to moderate Orange Yellow’s disinformation, and tries to get them to turn against Yellow extremism, holding it in check.

A good example of this was in Watergate when Nixon used his Orange Yellow dirty tricks agents to use espionage and disinformation against Red Democrats and antiwar activists. This prompted a backlash when Orange journalism succeeded in turning many Orange Yellow cronies against Nixon. So in these times the CIA and FBI might have acted as Orange Yellow, using surveillance on Red left wing activists against the Vietnam War looking for Red Communist spies but also for political purposes, to suppress Red opposition which is inevitable against a Yellow and Orange Yellow government. This happened in America because the Orange Policing system was weakened, leading to Orange Yellow spying on its citizens, Red Orange protests in the streets against this, and Yellow violence against these demonstrators.

Orange Yellow can also be a kind of Policeman working undercover such as in the war on drugs. Red might be the poorer section of society and addicted to drugs by Orange Yellow dealers working for Yellow Organized Crime, even supplied by Fascist parts of the government. They can also be supplied by Red Orange gangs. In fighting this drug war Orange might use Orange Yellow Police to go undercover and look for users in Red and arrest them to deter drug use and stop the spread of the drugs, trying to get around the Red Orange gangs like in nature where Orange Yellow Predators try to snatch a young animal out of a Red Orange herd. Orange would also use the Red Orange parts of the Police against the Yellow drug lords, sometimes preferring to let the gangs deal drugs to keep out the Yellow Mafia. Often then Red people can end up in prison in this way, the poorer parts of society deceived with drugs by Orange Yellow dealers, and this can represent the relatively nonviolent part of the prison populations. Other people in prisons can be Yellow violent criminals and Organized Crime figures as well as Red Orange gang members, also Red Orange demonstrators in a Right Wing society might be arrested and jailed.

Religion can also have an Orange Yellow component, seeing Red as evil much like Right Wing politics sees Communists and Left Wing Liberals in America as evil. They can also be hucksters, looking to trick people into a religion so as to bilk them of money. So Orange Yellow might deceive people in a cult and take their money, and often exploit their desire for conforming to a belief system, even if untrue. For example as said before, Red has an urge for uniformity and might tend to expel deviants into their Red Orange fringe. Orange Yellow might work on this tendency to accuse them of being dishonest and sinful, for example secretly committing sins which are secretly absolved in confession, much as Orange Yellow Hyenas want to separate Red Prey from their Red Orange defensive fringe. Orange Yellow like this might preach against gays and be gay themselves because Red and Orange Yellow can both stay in the closet because each color is highly competitive and people look for an excuse to depose someone in a job they want, and practice the same other sins they condemn. This can also extend to a moralist viewpoint where Red is seen as sinners, abortionists, atheists, etc in the Left Wing and Orange Yellow presents them as a threat to society much like Red Communism though they may also be like this. For example Orange Yellow may not really believe in religion but pretend to do so because it is so lucrative, and also get a secret abortion while publically condemning them. Because Orange Yellow is secretive and deceptive then there can be a battle of hypocrisy, such as where gays in the closet as Orange Yellow in the military need to keep it a secret with Don’t Ask Don’t Tell. Often such religion is related to other Yellow and Orange Yellow organizations such as Right Wing politics, religion in the Yellow military, etc.

This is moderated by Orange, where hucksterism by Orange Yellow preachers is exposed and often where journalism might expose the hypocrisy of moralizing Yellow and Orange Yellow politicians, priests, etc. For example an Orange Yellow church might preach against gays but tolerate pedophiles in its Church who use the Orange Yellow and Red desire for secrecy.

An Authoritarian country might have a strong religious component as well as military and so these excesses might be harder to uncover. For example Orange Yellow might be like the CIA and Red like the KGB who each try and turn or recruit agents in each other. So an Orange Yellow church might see itself as being infected or corrupted by Red practices as an excuse for their occasional bad behavior. In the same way Red churches might see themselves as sometimes corrupted by Orange Yellow bad behavior, like priests as Orange Yellow pedophiles seducing Red or Orange Yellow money in the Church subverting the idea of helping the Red poor. This is similar to the idea of Red Communists watching for Orange Yellow spies and double agents, Orange Yellow capitalists and thieves, etc.

### Yellow

Yellow is the top of the food chain as a Predator in Nature, and in primitive societies Yellow tribes might raid others with violence, going to war often against Red Orange defenses. In advanced societies Yellow permeates all aspects of political, economic and social issues. Orange Police have as part of them the neighboring Color Code of Red Orange which represents a violent, strong defensive nature. So Yellow typically has Red Orange as its adversary, and its interactions are a hot war, where Orange Yellow and Red fight based on trickery and deception.

For example typical Yellow criminals might be bank robbers, Organized Crime, the Mafia, etc. Robbers might violently attack Red Orange defended properties such as banks, shops, liquor stores, etc. In response Orange Police use their Red Orange violent side and carry guns, body armor, use SWAT teams as a response to this.

Usually Yellow has the Orange Yellow fringe of petty criminals just as Red has the Red Orange fringe of protectors. Orange Yellow in this case might get some of the proceeds of such robberies and Organized Crime, and can use the strength of Yellow to protect them as they engage in their deceptive criminality. As mentioned earlier, Yellow in turn often gets a cut of Orange Yellow’s thefts in exchange for this protection. Orange Yellow might have many levels like links in the food chain where a layer of criminals has to pay off the layer above and in turn is paid by those below.

Orange has difficulty in getting to Yellow because Red Orange are loners, timid and prone to avoid conflict, and Orange’s Orange Yellow nature is weaker than Yellow and deceptive, not always useful against the power of Yellow. So usually it reduces the strength of Yellow indirectly by siphoning off its Orange Yellow supporters by domesticating them, much as the shepherd domesticates Orange Yellow dogs to aid it in its defense against wilder animals such as Yellow Wolves.

Like Red, Yellow is shielded by a fringe. Red has a protective fringe of deviates from its orthodox attitudes, and Yellow represents the strongest of Orange Yellow who work together with a team instinct. So Yellow can be seen as a battle for supremacy, where the strongest become like kings (like Richard the Lion hearted), and the losers end up in the Orange Yellow fringe. So leadership in Yellow amongst criminals is dependent on who is strongest not who is most deceptive as in Red.

The result is usually a kind of pecking order such as is seen amongst wild dogs, where the strongest automatically tends to be leader but also a leader that the others feel confident in following which often also applies to Yellow military leaders. This can be relatively stable, challenges only occurring if the leader is injured or makes a bad decision for the team. This is seen in the Mafia stereotypes in movies where a mob family might be seen as weak and another tries to take over their territory. In nature this is like packs of Predators such as Lions which might battle each other for territory. If a pack is weakened then they might be driven off and the territory, with the Red and Red Orange Prey on it are taken over. So gangs of this kind might fight for territory between each other and much like warring families, Kings, tribes, nations, etc the strongest eventually get to the top and a kind of royal status is given to them by the Orange Yellow fringe. The Aristocracy can form this way in not just royalty but in the so called robber barons in Biv such as John D. Rockefeller and Andrew Carnegie. Organized Crime can also become a kind of royalty where their family commands fear and respect from Orange Yellow lesser criminals.

This process of evolving a stronger Yellow is increased by the resistance of Red Orange to Yellow, and in turn by Orange trying to turn the Orange Yellow fringe into informants. For example Yellow Mafia gangs might battle each other for territory, using violence to acquire more at the expense of each other and so the weaker ones have less status or territory and can pushed into the Orange Yellow fringe. In the fringe these criminals have shown they cannot win with strength and so might have to use deception and trickery. So this evolutionary force ensures the strongest prevail over the weakest, but also that deception and trickery by individuals and small groups can sometimes overcome strength and teamwork.

The second evolutionary force however is against Red Orange, where to be successful a Yellow criminal has to not only beat other Yellow contenders for becoming leader and unite them as a team but also to break through the defenses in the Red Orange fringe to rob successfully. So this pressure also evolves Yellow to be successful and those less successful become Orange Yellow or might have to leave this hierarchy. Just as Yellow Predators need to be able to beat Red Orange animals to survive, so to do Yellow criminals have to be able to violently beat Red Orange defensive strategies like burglar alarms, armed defenders, safes, the violent side of the Orange Police, etc.

As in nature if Yellow cannot succeed in this then Yellow criminality declines or disappears and crime becomes mainly Orange Yellow, done with deception and stealth. If Yellow is very successful and Orange Yellow is unsuccessful with its deceptions then society might have many violent criminals but few petty ones. This relates to the strength of the Orange Police, so if they have a sufficient Red Orange defensive force such as weapons and armor then they might hold off Yellow or eventually wipe much of it out. Such a society might be relatively free of violent crime but Red Orange teamwork and force is ineffective in finding and arresting Orange Yellow criminals because they scatter and hide when Police are seen.

Also Red Orange can battle Yellow without the Orange Police. For example a poor Red neighborhood might defend itself by forming gangs, vigilantes, a militia, etc so Yellow gangs, mafia, Organized Crime, etc are stopped as much as possible. In this case the weaker parts of the society might be the old, children, women as Red and Red Orange might be the men and boys being armed. This is also a common defense through the Middle Ages against Yellow plundering such as Roman Legions, Vikings, where the Red center hides or scatters from this danger and the men fight defensively. If they failed then they might be regularly preyed upon by becoming part of an Empire and having to pay taxes or tribute. So Yellow in a poor area might attack shops with guns, and they might be defended by their families who own them with the men acting as Red Orange with guns themselves and Red as their families hiding. Other Orange Yellow criminals might target these weaker Red families looking to break secretly into homes and shops, using fraud, etc against them. So while Red Orange might be guarding their homes and stores with guns they might not see the Orange Yellow burglars which instead of a frontal attack use stealth. This is like in nature where Yellow Predators might attack slow and strong Red Orange animals while smaller and faster Predators might have to sneak up on Red Prey such as raiding the nests of birds, stealing their young, etc.

So Yellow can be relatively small groups of criminals or even single criminals, though usually they magnify their strength as in nature by travelling in groups because of their instinct to work as a team. If these are common enough the Yellow gangs might encounter each other and fight for territory and start to form an extended hierarchy of Yellow gangs based on power, also they can form chapters or alliances with other gangs so they have an overall kinship that allows some crossing over each other’s territories. For example in Sicily the Mafia formed an Honored Society157F[[158]](#endnote-158) of associated territories, each clan had soldiers which worked as a team and a leader or boss with advisors. Red Orange can be isolated groups or even individuals such as families with the Red Orange men defending them, or even loners looking after themselves only against Yellow. This model is often seen in movies where the Clint Eastwood style is Red Orange battling Yellow criminals usually in small groups or singly. Other examples might be the Kung Fu style where Red Orange groups of men might protect a village against roving Yellow bandits. As the groups of Yellow become larger and interconnect then Red Orange to defend might need to form larger groups themselves such as a Police force that is village wide, city, wide, even across a whole nation such as the FBI as Red Orange fighting Mafia families which also might form into a nationwide alliance. Each color tends to evolve the other stronger so that their battles are more even, because the weaker are killed, imprisoned, or leave.

This is similar to in nature where Red Orange animals become stronger because the weaker ones are eaten by Yellow Predators. If Yellow is too successful then they might exterminate the Red Orange Prey and so starve themselves. If Yellow is not tested enough from its battles with other Yellow packs or Red Orange herds then weaker Predators survive instead of being killed by Red Orange and so their genetic pool devolves with the weaker Predators mating with stronger ones instead of the weakest having been killed. In the same way then if Yellow in Organized Crime is not defended against well enough then they might also become soft through easy victories and a sudden upsurge in the strength of Red Orange such as a revamped Police force might cause them more damage later on. Also if Yellow criminals become too strong then they might be too successful in robbing stores and banks then the community might hide their wealth as Red by stealth, for example hiding their money instead of putting it in a bank so the Yellow criminals can no longer find banks to rob. So just as the Yellow Predator by eating too much of Red Orange can make itself starve later so too can Yellow by being too successful impoverish itself later when there is nothing left to steal or it is too well hidden.

This can cause oscillations in the Color Codes as mentioned earlier where Orange is weakened and cannot stabilize these attacks on Red Orange including by its Orange Yellow informants, this happened with Prohibition in America where the Orange Police were weakened by corruption and could not get enough informants to being down Yellow gangs like Al Capone . Yellow gangsters in the story of a Western movie might attack Red Orange shops and banks and become too successful, and then the Red Orange banks start to go bankrupt or leave, people hiding their money instead. The Yellow gangs and Organized Crime need to still feed and so their raids lead to a larger decline in Red Orange targets. Then when the Yellow outlaws have to leave to find a better territory Red Orange might slowly rebuild. This can cause dog eat dog attacks between Yellow and where they might start robbing their Orange Yellow cronies as well. For example a Yellow gang might rob a territory too much and Red Orange targets become scarce there, and so they attack a neighboring territory and this starts a war between them and the Yellow criminals there. In this case Orange Yellow might get less money from being associated with Yellow gangs and makes a deal with Orange Police, and so Orange starts to rebound as some of the Yellow gangs are captured or killed. Also Red Orange banks, stores, etc might then start to rebuild its and the Roy system starts to stabilize. So a more violent or greedy Yellow can cause its actions to rebound on it, so this acts as an evolutionary pressure so that those that are not conscious of conserving Red and Red Orange tend to die out, while those more content with restraint survive better.

Yellow also represents Right Wing politics and Fascism, Nazism and other Authoritarian systems of government. So Yellow might be Organized Criminals and evolve from this into a Kingdom, a Fascist Dictatorship, a Warlord, and also as roving bandits. Genghis Khan was a good example of a team of nomadic Yellow Predators who became very powerful so that few Red Orange defenses even of Rome could withstand them. These raids may have evolved from a lack of rain in their own territory during the Great Warming, scarce resources forcing them to raid other areas and evolving them to consume the resources in an area by plundering others and then moving on while the Prey slowly recovered. This is similar to a strong Predator wiping out Red Orange animals in one area and then moving on, becoming nomadic and wiping them out in this way over large areas.

Inevitably then a Yellow force that cannot conserve its Red and Red Orange Prey must move on to continue its pillaging or it must change. The Nazis exhausted much of the wealth of Red and Red Orange such as by stealing from the Jews and occupying countries and this led to the need to become larger and larger to sustain their huge Yellow army. In a similar way the Roman Empire needed to continue to grow so as to not starve themselves as they ruined some areas with excessive Orange Yellow taxation and Yellow pillaging, also poor farming methods led to crop failures which led to famine.

This is also seen in diseases which survive less well by being too virulent. For example initially AIDS and currently Ebola were quick to kill their hosts and this reduced the speed in which they could spread. So AIDS over time has mutated to people surviving longer as those strains that killed quickly died out or were less successful then those which were less deadly. So the Red Orange immune system in a person or animal if overwhelmed too quickly by a virulent disease like Ebola has an effect like Yellow Predators killing off their food supply and then starving later when food is scarce. AIDS also has a deceptive Orange Yellow side where it is hard to recognize by the Red Orange immune system and gets past it to infect the Red tissues.

Often then hot wars between Yellow and Red Orange have ranged from violent crimes between groups of criminals, up to larger tribes, gangs, militias, then armies, even countries, Empires, etc. As they grow larger the Yellow gangs encounter each other and tend to battle for supremacy and territory until they reach a level of status based on power. In World War Two Italy, Germany and Japan were Yellow Empires, and formed an alliance dividing up territories amongst themselves. Eventually if they had continued to be successful they may have turned on each other. Allied against them were Britain and the rest of the Commonwealth, later Russia and the United States as Red Orange

This amalgamation of Yellow into larger nations is how most of the nations of today were formed. Often there were warring Yellow tribes who formed small kingdoms, who then intermarried and battled each other forming an interlocked series of families all over Europe, England, and Russia who sometimes fought each other for territory and the right to marry into another branch of a royal family, often they allied with other Kings they were related to and to stop any individual King or Queen becoming too powerful, such as in the War of the Spanish Succession158F[[159]](#endnote-159). As these Kingdoms evolved the peasants developed a Red Orange resistance to their rule, sometimes the Yellow Aristocracy smashed this Red Orange fringe and ended up with an impoverished Red country hiding its wealth and fleeing from soldiers. These Yellow armies when fighting would Prey on the Red peasants for food and lodging, often taking most of their food. The potato became popular in Europe in the Kingdom of Frederick the Great for the reason because unlike wheat they could be more easily hidden underground allowing the peasants to avoid starvation. The Monarchy in Russia had a Red and Red Orange resistance to its excesses and resentment to being used as cannon fodder in the Great War, and so with the Red Communist doctrine was founded by Marx this inspired the Red Orange resistance to overthrow the Czar, replacing them with their own Red center as rulers. In nature this is similar to Red Orange animals attacking Yellow ones, driving them off or exterminating them so that few Predators remain.

A similar thing happened with the French Revolution, where Red Orange people killed off much of the Yellow Aristocracy. Normally these reactions have occurred by Yellow plundering the country too much such as by Louis the Sixteenth spending too much helping the Americans to secede from the British Empire, and in turn evolving the Red Orange fringe in the National Convention stronger. So Yellow can evolve Red Orange terrorists to its rule who can eventually come to dominate. Like the virulent Yellow plague and Yellow Organized Crime, a Yellow tyrant, Dictator, king, etc can evolve Red and Red Orange defenses and make themselves ineffective against them.

Before World War One Yellow smaller Kingdoms were becoming consolidated around Europe into large Empires, the Serbian nation was threatened by the Hapsburg Austrian nation with being annexed leading to their assassination of the Austrian Duke Ferdinand, this led to Austria threatening to invade Serbia, the Russian Empire allying themselves with Serbia, Britain and France with Russia, and Germany with Austria. This is how Yellow and Red Orange fight, they are both team players and form alliances they can try and take territory from in Orange Yellow versus Red competition and intrigue, but also face off in war as allies. France, Russia and Britain were more Red and formed a defensive fringe after some reverses in the early stages of the war after the Schlieffen Plan159F[[160]](#endnote-160) partially succeeded, and so the war became like trench warfare where no one could make much headway. Also Red and Orange Yellow fought a cold war of espionage and code breaking.

After World War One there was a period of peace and so Red and Red Orange devolved again into a weaker state as there were no Yellow attacking armies, Britain and France became less allied and more competitors as Red while the defeated Yellow German and Austrian forces recovered like Yellow Predators regaining their numbers. Then after Red and Red Orange Communists attacked Germany trying to take it over this evolved the Nazis into a Yellow defender of their German territory, also the desire for revenge for the loss of World War One caused Yellow to evolve stronger and attack Red and Red Orange again. They also purged Red people in Germany because of a perceived alliance between them and the Red Orange allies.

So in nature this is like Red Orange animals beating Yellow Predators then becoming weaker from a lack of attacks, then Yellow rebounds in numbers from breeding quickly, finding other territory to plunder and then suddenly is strong enough to attack and partially defeat Red Orange, a double oscillation from a weak Orange where Red Orange is weak and Yellow is strong, then Red Orange becomes strong and Yellow weak, and finally Red Orange becomes weak and Yellow strong again. After this of course Red Orange became strong again and defeated the Yellow Nazis ending World War Two.

Another example of Yellow was the Roman Empire which grew by beating the weaker Red Orange defenses of Europe similar to how Alexander the Great had originally carved out his Empire, and making them into a form of feeding grounds for the Yellow Romans, later a similar Empire arose as Yellow Fascism under Mussolini. As the Romans dominated Europe they evolved their enemies into stronger Red Orange and more stealthy Red causing many reverses in Gaul and Germania, eventually causing the Empire to be invaded by rising Yellow Kingdoms such as the Franks and Goths.

The same is seen in most warfare, where Yellow might initially form an advance through Blitzkrieg, much like Predators in nature attack with sudden violence to cause panic, and then the front lines between Yellow and Red Orange slow and sometimes become static. If Yellow becomes less virulent sometimes Red Orange is not evolved strongly enough to counterattack and win, but a line of the Empire is formed as with Hadrian’s Wall for a time, the idea behind the Maginot Line, the trench warfare of World War One, the Siege of Stalingrad etc.

Sometimes the front line uses a flanking attack to encircle part of the opposing color. So Yellow might encircle part of Red and Red Orange much as Predators might try and encircle part of a herd and then attack them until they are exhausted. An example of this is how dolphins might trap a school of fish with bubbles and then consume all of them.

If Yellow wins in an area then Red Orange is virtually eliminated or agrees to peace. In this case then Red terrorism evolves in a more deceptive way, causing sabotage, spying on the Yellow forces, because Yellow is better suited to fight Red Orange as a battle of strength rather than one of Red deception. For example Yellow Germans might have occupied an area, and Red Orange armies were defeated, then Red terrorism develops with Partisans hiding in the general population and Yellow power is ill suited for fighting the stealthy and fast Red terrorists, just as Lions would be unsuited for chasing a flock of birds to eat them. The Orange Yellow part of the army then needs to act in the same way, spying on Red, gathering informants, etc and this becomes a Cold War.

Yellow armies in a country can act like Organized Crime in their effects. An Orange Yellow fringe usually surrounds the Yellow army including some collaborators and they can rob the Red population using the strength of the Yellow occupying army to back them up. So Yellow here might get supplies from a local Orange Yellow government such as Vichy in France and back them against Red Orange violent resistance such as De Gaul’s organization based in Britain, much like a colonial power propping up a right wing Dictator to make money out of the occupied country. Also corruption can occur as Orange Yellow might pay off Yellow soldiers, etc with bribes in exchange for defeating their Red Orange enemies. Orange Police in these circumstances are weak and have little ability to pay off Orange Yellow and weaken Yellow. Because Orange cannot offer a better deal than Yellow does in this case then Orange Yellow criminals, administrators of occupation, cronies of Yellow, etc have no reason to work for them against Yellow. Red Orange is largely defeated and so the Orange Police have a weak Red Orange military force so Orange Yellow is free to pillage Red. Usually this results in either overfeeding by Yellow and Orange Yellow, or building Red and Red Orange resistance with terrorism. If Yellow is weakened then, just as in animals, the Red Orange fringe might rebound and develop enough military strength to push out Yellow occupiers and take revenge on the Orange Yellow collaborators. In this case Orange Yellow also suffers like Foxes that became weak through feeding on the weaker Red, when they develop stronger Red Orange animals they starve from being unsuccessful against them. So Orange Yellow here, whether part of the invading force or local collaborators also goes through a self-destructive oscillation.

Most Empires have had their economic side through domination by Yellow, which acts as Violet in Biv trade. So the Roman Empire conquered much of Europe but this also gave economic benefits by creating a large Empire of Biv trade. So as the Empire grew, Red and Red Orange were beaten but instead of Yellow and Orange Yellow plundering them too much and creating Red Orange battles often Indigo trade and Orange fairness prevented this from happening. This led to a flowering of trade and business as Violet represents flowers and fruit in the Biv economy. This stabilization then occurred because of the relative strength of Orange so that the Empire was run with some justice for its conquered people. Orange Yellow collected taxes, etc for the Yellow Romans but not too much, preserving some just balance and so preventing Red from hiding all their wealth. The local armies of Red Orange instead of being destroyed often became part of the Empire Orange Policing. So Yellow by not destroying these armies completely allowed a Biv economy of trade to coexist and so the Roy Empire also became a Biv economic one.

The British Empire was a mix of Roy conquest and Biv trade in its motivation for expansion, and the Yellow rulers by their restraint usually did not cause Red Orange terrorism and armies to form with the exception of the Boer War, the Indian rebellion of 1857, and the American War of Independence. A good example of the struggles between rival Yellow Empires was shown in the novel The Great Game by Rudyard Kipling where Orange Yellow spies of the Empire would monitor the Red citizens and also the Orange Yellow spies of the rival Russian Empire in India. An Empire is unstable if Orange is not strong enough and eventually grievances over excesses from Yellow military crushing of Red Orange uprisings and Orange Yellow taxes and corruption cause Red and Red Orange terrorism to evolve stronger. In India this was relatively Red nonviolent opposition with Ghandi, and illustrated how ineffective Yellow military power was against Red opposition.

In economic terms then Imperialism, the Great Game of Orange Yellow espionage and intrigue, the battling of Yellow armies against each other to increase territory and status have determined much of the wealth of commerce and trade. As these battles of Yellow became global in two World Wars and a Cold War Orange tended to rebound in the idea of a global Police force with the League of Nations and later the United Nations, and an International Criminal Court though these are still relatively weak. The UN and the US sometimes act to warn off aggression by Yellow in places such as Bosnia, Rwanda, etc and can help to build up their Red Orange defenses by giving them arms and peacekeeping troops. Also it makes deals with Orange Yellow nations and people, giving aid and support in exchange for spying on Red countries like North Korea and Cuba. Often there is more like an Eminence Grise element of Orange Yellow running a Right Wing Dictatorship, pacified by Orange and keeping their and their neighbor’s Yellow armies and generals in check in exchange for money and support from Orange moderators and global Policemen such as the US and the UN. Also Orange keeps Red Orange terrorism in check by moderating the attacks of Yellow armies and Orange Yellow taxes and exploitation, keeping the world order in some semblance of stability.

Economically then the world economy is more stable as Roy when it forms a mixed economy with Biv in trade. Yellow still looks for advantages against other Empires, such as by looking to control oil and other natural resources, forming allies with smaller countries or intimidating them with threats. Yellow can also have a religious aspect, where they see rival Yellow religions and people as territory to be conquered and converted to their own religion, such as Islam versus Christianity in the Middle East. Some churches see their followers as like a territory and try to steal or convert people from other religions to their own. So as with Predators, Organized Crime and Authoritarian governments, Yellow religions can battle each other including by influencing the political governments and parties. Much of the conflicts in the Middle East are seen as a potential resurgence of the Yellow Ottoman Empire into a new Caliphate of Islam, and this is to be battled by Yellow Christianity which is allied with Right Wing US politics by supporting Yellow right wing Kingdoms and Dictatorships in strategic areas. This in turn can breeds Red and Red Orange terrorism.

Yellow religion can also attack Left Wing political parties for religious reasons, such as their approval of abortion. Red and Red Orange see this kind of religion as dominating like an Empire and resist its Yellow government power and its military might to impose Yellow morality on them, for example making abortion illegal. Also Yellow can act as Orange Yellow getting money from the Yellow government, getting subsidies and benefits for their Church to spend on their congregation at the expense of Red and Red Orange, and sometimes people in these religions have businesses exploiting Red and Red Orange peoples through cronyism and their Yellow contacts. For example in America Evangelists have ties to the Republicans and give campaign donations, in return receiving power in the government over the Left.

Religion in Yellow can be like Predators and armies as a struggle for territory, to decide which Yellow God will be supreme just as in politics where wars decide which Dictator or Emperor will be supreme, and in nature where different Predators also battle for supremacy. In some cases Yellow business Empires become associated with Right Wing religion and see the world in similar terms, a clash of rival companies as Yellow, a clash of religions as Yellow such as Islam versus Christianity, a clash of rival Empires as Yellow, and a clash of armies in war as Yellow. Their strength and their team instinct lead them to form interlocking alliances with other Yellow systems that dominates the world.

Yellow here evolves stronger because it encounters other Yellow organizations and then they struggle for supremacy. Those not interested in such struggles do not join Yellow organizations so there is a natural selection for the most ambitious becoming Yellow, each also develops its fringe of Orange Yellow cronies, corrupt and cynical business people, espionage agencies, and other secretive and deceptive people. If Orange is not strong enough in turning Orange Yellow cronies against their Yellow allies then Yellow forces can grow until they explode into open war with each other or against Red Orange which develops in protest. Orange then stabilizes the oscillations if possible otherwise the familiar cycle of Yellow supremacy then Red Orange wins, then loses and so on recurs. For example the Nazis as Yellow had a theory of racial superiority influenced by Social Darwinism. In this they believed that many races were inferior, and saw the world as like where the strongest survived as Yellow and the weaker Red people were to be ruled over or killed. Hitler thought of himself as being like a Yellow wolf, which is why he named one of his headquarters the Wolf’s Lair.

Yellow Predators are responsible in part for keeping the numbers of Red and Red Orange animals down so that Violet plants, flowers and fruit can survive. If there were too many Red grazing animals then these plants could be over eaten. This could lead to the Biv economy, as plants in nature disappearing, and then this in turn leads to a famine for Red animals. Once this occurs then Orange Yellow and Yellow can themselves starve so it is in their interests to evolve a desire to keep the Red numbers down but not too far down to ensure their own food supply.

In Germany at the time the idea was that Red Jews, Communists, gypsies, etc were feeding off the German people or Volk in a way similar to Red grazing animals feeding from Violet plants. Nazis at the time might have observed Red behavior in times of violent oscillations of the Color Codes from World War One and concluded that Red, particularly with Communist insurrections was causing this damage to Violet industry. Since Violet and Yellow Color Codes are related, in nature this leads to the instinct to attack Red to restore balance. So in further violent oscillations of Color Codes Red is attacked, not just as Communists, but as any weaker minority said to be causing damage to Violet including homosexuals, the sick, the insane, blacks, and Jews to reduce their influence.

The Germans at the time referred to the Will of the German Volk or people to create a Violet flowering of society in architecture, rebuilding industry, etc. This is a good description of how Blue which represents the Will, as in the movie Triumph of the Will leads to expression of talent in Violet society. So this Violet talent backed by the Will of the Germans led to the Violet flowering of such as architecture, reviving the economy, etc. To protect this flowering of the tree like economy the Yellow Nazis attacked Red Jews and Communists, who they saw as threatening the efforts of the Blue German people. Overreacting like this then more violent oscillations in the Color Codes and the Nazi’s downfall.

## The Green – Green Blue Group

### Green

In Nature Green represents open lands, sea and air, owned by no one and hence they are territory to be fought over in Roy, controlled by whoever is most powerful. In primitive societies this evolved into the concept of property jointly owned by a tribe rather than private ownership. In more advanced societies this evolved into many complex forms, for example nationalized and state owned industries, even public hospitals and schools represent Green public ownership. In Roy countries such as Communist Russia and Fascist Germany state property was also Green, with Green Blue private property more restricted or eliminated. For example the Nazis produced a large Yellow military force and public works, which were paid for by Green public funds rather than Green Blue private property.

In Biv economies Green public property is also needed for its smooth operation because all twelve Color Codes generally form and then interact with each other. So a Biv economy needs Green public access such as parks, air, roads, for people to move around on, and to position Green Blue private property around. A balance of Green and Green Blue or public and private property is most efficient in Aperiomics, otherwise some Color Codes struggle to regain this balance. While Red Communism tried to do away with Green Blue private property this is also inefficient because Biv people in those economies tend to be born even from Roy parents, and then they want to live according to the characteristics of the Color Codes, some on Green Blue private property, running private businesses, etc.

Other Green aspects include the commons, public domain, fair use in copyright, etc each of which allows Roy Color Code interactions to occur. Also Green can represent the overall level of public resources so a shortage of these can affect all Roy Color Codes. For example the invention of nuclear weapons had a chilling effect on Yellow Red Orange hot wars because these could lead to destruction of the Green environment. This meant that the safer Red Orange Yellow cold war became the main warfare after World War Two.

This can be seen in nature where the Green environment is very fragile. So in a drought for example the battles between Yellow and Red Orange animals might cause some lands to be over grazed and form a dust bowl and Biv plant life collapses, their Blue roots eaten or starved. So when the environment is fragile oscillations of Color Codes are much more dangerous and can lead not only to reduction in Roy Color Code numbers but also their Green lands.

Pollution and war then can threaten Green and so people have evolved to protect its interests, that of parklands, nature reserves, the food chain of animals and plants, etc. In modern times we see these as the Green party which battles the wars of Roy and tries to dampen them to reduce the damage to Green lands, and also to make them more conscious of damaging Green with Biv industrial pollution, over farming by Blue, etc.

There is then a tension between Green and Yellow and Red as each tries to keeps its share of Green resources. If any Color Code does too well then other Color Codes usually respond with oscillations to restore the balance with a counter oscillation where and they for a time end up with less. For example if Green party people are too successful with protecting the Green environment then this creates an enemy in Roy who wants to use those Green resources for industry, food, etc, because Roy is warlike then Green may themselves be attacked for overreaching. In history then there has been many occasions when Green resources have been depleted too much and this has rebounded on Roy, and when Green has been too successful and been attacked. For example with whaling there is an attempt to protect Red whales by Greenies, and this leads to making enemies of Yellow Predators such as whalers. So this leads to a battle between Yellow and Green over who is the most powerful because no Green Blue private property is involved. In another example Yellow Predators might be threatened, for example crocodiles, Wolves in the US, dingoes in Australia, certain species of sharks, etc and these are defended by Green as essential to the ecosystem. This makes their Red victims angry such as people who were attacked by these. So if Green oversteps its Color Code’s boundaries then it makes enemies of Red and Yellow who then work to reduce Green’s influence. If Green politics becomes too weak then Red and Yellow see their actions are hurting themselves and thus reduce their attacks on Green and then Green politics and causes can rebound.

Green Blue as the concept of private property is also an adversary of Green because it wants to covert Green public property into Green Blue private property where it becomes part of the Biv economy. So there is a struggle between Green to stop the Green Blue economy claiming mineral leases, government lands sold off to private people, intellectual property such as software patents, etc and to fund purchases of new lands to make public Green parks, to protect endangered species and plants, etc. If Green is too successful then Green Blue becomes an adversary and there is a battle between them. A good example of this is in Alaska where there is pressure to lease Green public land to oil companies as Green Blue leases.

In another example Red Communists have typically nationalized industries, converting them from Green Blue private property to Green public property owned by the state. Biv economies and companies campaign for compensation for this, to do business in these countries and to privatize Green industries back to Green Blue private property. So there is usually a most efficient balance between Green public and Green Blue private properties. Because of the oscillations of Color Codes such as Red versus Orange Yellow Cold Wars and Red Orange versus Yellow Hot Wars this stability is often threatened and this causes oscillations between Green and Green Blue. Another example is privatizing some Green government services, such as by tendering projects to the Green Blue private sector, selling off Green government services such as electricity, water, gas, etc. Often this results in less efficiency as Green is more efficient in a Roy economy, for example Red people on welfare might need to use water, power, and public transport and higher prices from privatization might mean the government has to pay out more in welfare.

Green can also push for less use of its resources such as conserving water, using less oil, timber, etc as this increases the amount of Green unused resources available and makes it easier for the ecosystem to recover from overuse. Green conservation however can lead to reactions in Roy economies though, for example in the Soviet Union Red governments often polluted the land enormously and resisted Green oversight and complaints. Also Yellow Fascism often uses Green resources to extort wealth from Red and Red Orange such as by nationalizing power and water, and selling them to corrupt Violet cronies who then raise prices. Currently with global warming there is a consciousness of Green under threat and Yellow and Red nations are fighting against having to reduce their pollution levels. For example Red nations such as Communist China protest this because they see themselves as the Red underdogs in a Yellow imperialist world. The US sees its Yellow Empire and profits under threat from Green protection of the environment.

Green can have defenders on any kinds of public property such as looking for pollution in the seas, in the air, from mining, from genetically engineered crops, etc. It can also defend public speech as a right, which is opposed by Red and Yellow. For example an Authoritarian country tries to restrict freedom of expression in art, books, newspapers, etc while Green people try to keep these public forums going. Red Communism censors these and is also attacked by Green. When Green tries to keep freedom of speech too large such as protecting pornography, violent film shown to children, etc then Orange sees this as too much freedom for Green and restricts this as illegal.

The right of public assembly is also a Green right that Yellow and Red try to restrict. Yellow Fascist countries try to restrict demonstrations, impose curfews, issue passes instead of free travel, etc. Red Communist countries also did this and also built a wall and otherwise made it difficult to leave, as did Fascist Germany with Jews. So Green fights this curtailing of free movement. In nature this is like the tendency of Green to expand and thereby give Red and Yellow animals the ability to move around more.

Freedom of religion is also a Green trait, whereas explained earlier Roy Color Codes tend to form their own religious ideas and battle with rival sects and beliefs. So Green religious people see the diversity of religious expression as being desirable and that these are all important parts of the religious experience. If these freer religious ideas become too strong then they are attacked by Red and Yellow. For example Red restricted most religion in Communism. Fascism is often associated with one branch of Christianity being supreme over others.

Green is also antiwar to prevent the environmental destruction associated with it. When the antiwar movement is too strong this is resisted by Roy because it perceives its wars as essential for a particular Color Code to get what is rightfully theirs. So Red Communists resist antiwar Green messages because they see their revolution as liberating Red and Red Orange people from the yoke of imperialism by using terrorism, etc. In turn Authoritarianism and Imperialism sees war as essential to keeping Red and Red Orange subjugated, particularly in colonialism, and antiwar beliefs might cause them to lose control.

In this way Green can also be seen as libertarianism, where isolationist policies prevent wars to conserve the environment. Also the role of government is limited so as to prevent it consuming resources and costing too much, this is against the evolution of Red and Yellow however, who each want to grow bureaucratically with their versions of Socialism. For example Communism represents a large government with nationalized industries and Fascism also involves large government expenditure in military budgets, supporting Orange Yellow cronies in industry with subsidies and corruption. If Green is weak then these can grow and leave an economy with few spare resources not consumed by governments, and so smaller oscillations of Red and Yellow can lead to shortages and catastrophe.

For example in Red Communist Russia the nationalization of farming caused shortages because of a lack of Green freedom for people to help themselves, and so natural resources were overused and depleted. In Empires the weight of military expenditures and security against Red Orange terrorism can be so expensive that minor reversals in the war can cause shortages and starvation in them as well as mounting debt. Green then restricts both Red and Yellow from overgrowing to the point of hurting themselves.

### Green Blue

Green Blue represents private property and has at its left the Green group advocating public property and on the right the Blue group advocating using Green Blue resources for mining, farming, etc.

In nature Green Blue represents lands controlled by plants where it is difficult for animals to move in, such as bushes, forests, etc. So instead of Roy animals dominating grasslands, savannahs, etc and where plants are subservient as food, Green Blue is where plants are much stronger, keep Roy animals out and only animals that can adapt can live there. For example Red grazing animals might not be able to get into a forest, scrub, etc but birds, rodents, etc can because they accept the domination of the strength of the Biv plants rather than treading on them underfoot. Here some plants cannot be eaten, are too tall to eat, are too dense to get through, etc. This difficulty in movement makes a territory impractical for many Yellow Predators because Red animals can hide more easily. Also it is harder for Red because it cannot run quickly as the foliage can be too dense.

Biv plant domination in primitive societies was well known where people lived in forests as tribes, instead of in open grasslands. A lack of mobility made nomadic life impractical and so people tended more to stay in the same area and instead of hunting and gathering they transitioned into having a Green Blue fenced in herd of animals and farming. So people in these environments had a different evolutionary path to those in Green lands and those more suited to Green either moved there or were selected against by those who adapted to the Green Blue environment.

Because tribes could not easily move in such environments they tended to cooperate more with other tribes rather than raid and defend from each other. So a Red tribe instead of nomadically gathering food tended to settle down as Blue, and farm, raising animals, etc. Orange Yellow tribes could raid them and steal horses, cattle, food, etc but in Green Blue lands it became more efficient to simply trade with them. So when Red gatherers became Blue farmers then Orange Yellow knaves became Indigo Violet sharp businessmen, trading more refined goods for the Blue raw materials. So in a primitive society Blue might farm grains such as wheat or rice, and instead of Orange Yellow attacking them they might trade and bring refined foods like salt, cooking implements, etc.

This led to the formation of villages where instead of tribes living in Green Blue lands where movements were restricted they evolved to voluntarily restrict their movements by building in one place. In this case then a plot of land became owned by someone in Blue rather than being common grazing land in Red. In North America Indians for example might pitch Red tents or Wigwams in a mobile city, but in Blue civilizations they formed the idea of owning the same plot of Green Blue land, and building a permanent house. This was also done with a need to use Green public property such as roads, water from a stream, etc though in some company towns and incorporated cities even these can be Green Blue private property.

From this Green Blue evolved into more complex theories of private property. The idea of a Green tribe or cooperative became that of a Green Blue company where people owned private shares in it. Where public speech was defended in Green in Green Blue this was seen as owning some speech and this evolved as copyright. Where public lands were defended by Green for such as grazing by shepherds, in Green Blue these were restricted more and more into private ranches.

Green Blue is also similar to Green as it emphasizes the rights of property owners in similar ways to Greenies looking after the rights of public lands. For example with Green Blue comes a libertarian view of the right to privacy, to not have unreasonable search and seizure, to not having the government confiscate or over tax your property, to have one’s religion as a private matter between oneself and God and not have it dictated to or crowded out by other religions. Instead of a freedom of movement and assembly it has a freedom to protect one’s property from encroachers and thieves with self-defense. Green Blue can be seen as a Right Wing philosophy and Green a Left Wing one, but they both share the idea of preserving resources, conservation, etc at the expense of government and industries at their expense. Greenpeace is an example of a Left Wing Green organization, the Sierra Club would be Green Blue Right Wing because they often buy property to conserve the wildlife on it.

Green Blue also protects other forms such as intellectual property like copyright where artistic expression is private property, patents where an invention has the right to exclude others making and using it, trademarks where a business logo might be privately owned, etc. So where Green works for freedom of speech and actions in Green Blue there is freedom to take a piece of Green open lands in the form of ideas, inventions, art, etc and under certain condition make them privately owned for a time.

This is similar to the idea of public lands in early American history where settlers found land they decided was not owned by anyone, and squatted on it, claiming it as their own. Often this land was Green and used by Red nomadic Indians and so there came a battle between the Roy Indian nations and the Biv Western systems. In the same way a sequence of musical notes not claimed by anyone might be copyrighted as music, a sequence of words that is new could be copyrighted as literature, and so on. In a Roy culture minerals might be publically owned, owned by the state, tribe, Community, etc, for example veins of ore such as iron, tin, gold, coal, etc which were rationed into goods and distributed in a community. In a Biv society mineral resources would become Green Blue by someone making a mining claim, defining a boundary and registering it. So like fences of Green Blue the claiming system represents Green Blue fencing off parts of Green.

Green respond by trying to break down these fences, for example by contesting them and getting claims declared invalid in patents, mining, etc, if this is successful then the Green Blue property returns to the public domain as Green. A battle like this is seen currently with software patents, which are seen by Green open source advocates as invalid, and Green Blue see these as private property. These battle each other mainly in Europe which doesn’t allow software patents and the United States which does, by pushing the fences of these claims to the Left as Green public domain and to the Right as Green Blue private property, and it also tends to oscillate where one gains and then loses ground. This is similar to earlier societies where Green open range grazing battled Green Blue ranchers who fenced and in claimed some of this open land.

A similar struggle occurs with fair use in copyright, where some uses of Green Blue copyrighted materials are allowed under the law, such as for discussion. If not, then copyrighting a text can go against freedom of speech so the boundary between the two is an issue. Parks and similar areas can also have this struggle between Green and Green Blue. Beaches in front of beachfront houses might be technically Green or open to all, but sometimes the landowners try to fence off the beaches as private and people then break down these fences.

Sometimes the Green right of Eminent Domain is evoked by governments over Green Blue private property, where the land is made Green or public property to make way for a dam, roads, power lines, etc and the Green Blue owner is compensated. How this right can be exercised in another battle between Green and Green Blue.

Private rights of Green Blue property might include people claiming the right to build however they want without obeying building and zoning regulations, making noise without consideration for neighbors, etc and the government also considers Green Blue private land in a city to be partially Green as well. So a land owner might have Green Blue ownership but in terms of zoning, noise, etc he has no right to do some things because these are publically controlled as Green. Noise travels through the air which is public property and hence Green so the Green Blue owner has no right to abuse this. Building a house which is an eyesore affects people in a Green way because the air is public property. Green Blue might claim the right to shoot anyone coming onto their property on the basis that it is being invaded. In some countries though there is no right to do this because it is also public property and even trespassers cannot be expelled by anyone other than Orange Police.

## The Biv Group

### Blue

As mentioned earlier, Blue in primitive societies tends to form where tribes stayed in one place instead of being nomads. This also relates to Green because with public land there is no real restriction on moving somewhere else when resources are exhausted such as farming an area then when the soil needs to be fallowed move on to another area. This then is the model of Roy, to keep moving so that exhaustion of Green food in one area is reduced. It is also an adaptation to scarce resources in Roy because moving around prevents these resources being exhausted, in Biv there are enough resources in one place so being nomadic is unnecessary.

In nature this is done usually by Biv plants which thrive quite well without being able to move. Blue is the roots of the plant and so tribes that became Blue usually planted roots of plants in the ground as agriculture, like the expression for people to settle down and put down their roots. So by working with plants people adapted to how plants do things and to some degree became plant like in their thinking. For example if a primitive tribe planted corn or wheat then their activities depend on understanding these plants and living their lives according to their needs, such as watering, not leaving the area in case grazing peoples or animals ate the crop, and so on. Blue workers need to understand the concept of Blue roots on a plant looking for nutrients to grow crops successfully.

So this need to stay in one place with their crops created many other requirements such as a static position for a house, a stable water supply, a fence to keep out animals and nomads, and so on. Once these things are required then it becomes natural to improve and conserve the resources in a single area rather than being nomadic and letting the land recover. Blue then needs to understand the Green Blue Color Code and the nature of private property, to be responsible for it, to protect it, and to have personal liberty within it.

Instead of then of a herd of animals moving together Blue tends to have static fenced Green Blue land which abuts other Blue people’s land. Like Red they get some protection by being close together and so logically this implies a village as a static version of a nomadic tribe. Red Indians for example might have had a moving village of teepees, and Blue a static village of huts. Just as Red has its Red Orange fringe for protection, so too does Blue have the outer edge of this village where Blue Indigo people, or deviates to the central Blue orthodoxy usually go. Blue then also has its fringe dwellers but these instead being nomadic and looking out for Predators they are static, have their own Blue Indigo land and look out for traders. Sometimes also there is a mix of Green and Green Blue (public and private) where Green Blue land might be rented so that nomadic Red people such as crop gatherers might stay for a while then move on. The idea of renting Blue property to Roy people then can be how renting, leasing, etc evolved.

Also travelers might be nomadic and visit a village for trade. While in the Biv system Blue typically trades with Blue Indigo, but they can also be attacked by Yellow and Orange Yellow, to be plundered and treated like they are Red. So often a village has a balance between being Roy and Biv, to work toward trade, but also to have defenses against Yellow and Orange Yellow raiding tribes and armies. A good example would be in Lord of the Rings where villages traded with each other but when threatened by Yellow raiders like the Orcs they retreated into a Red Orange defensive structure like Helm’s Deep. So villages might have traded as Biv societies in peacetime but have retreated into a Red Orange castle or fortified structure of the Roy system when war came to dominate at times.

Blue people are highly competitive with each other, for example with people competing in planting crops, tending them, watering them, trying to claim more land, buy other property, etc.

There is a tendency towards people to be similar to each other to avoid being picked on because people are so competitive, usually eliminating someone from competition gives them an advantage. Just as happens with Red, Blue people tend to expel deviates to their Blue Indigo fringe where they develop a team instinct to compensate for their inability to compete with Blue workers. The orthodox view of Blue need not be true, often it is secretive and deceptive, it is enough for people to agree enough on something to help them cooperate on other things and to expel potential competitors. Just as with Red and as seen in Red Communist countries this orthodoxy might be lip service only and Blue people might not privately agree at all. For example there might be an orthodox Blue religion and some people might hide their differing interpretations of it. If they could not then they might have to move to the Blue Indigo fringe or form another Blue group. Speciation then occurs in Blue in a similar way, where the orthodox ideas promote interbreeding and sameness among people and animals, and if not then a group might, instead of forming a different tribe as in Red, form a different Blue village. Once they had a new village their Blue orthodoxy might be just as strong and perhaps also as wrong compared to reality.

Homosexuality, promiscuity, even exceptional attractiveness might be seen as unorthodox and those people might be pressured to hide this or to move to the Blue Indigo fringe. As in Red this creates a pressure to be in the closet for gays and also for promiscuity to be secret, with discovery causing a scandal in the Blue Community. So these societies have many aspects hidden from other people, when these surface as scandals people are shocked because they tend to believe the deception they are surrounded by. In Red as in Blue this forms a kind of genetic strategy. Red purifies itself of genetic deviates for its perceived orthodoxy or encourages genes that select for secrecy and deception, and the removal of gays, adulterers, atheists or those in a different religion to the Red Orange fringe removes these genes, if a genetic cause does exist. In the same way a genetic predisposition to adultery, being a dissident, being too attractive sexually and causing jealousy, and so on when removed to the Red Orange or Blue Indigo fringe tend to make Red and also Blue more and more similar to each other. As with Red Orange, Blue Indigo people that are offspring of deviates might move back to Blue if they are more orthodox than their parents.

This pressure to form orthodox groups then can form Blue villages where people are similar to each other or are capable of hiding their differences, and other Blue villages where they might be different, look different, have different customs, slang, temperament, etc. This can also be driven by the Green Blue resources, for example where a Blue mining village might require orthodoxy in mining skills, and a Blue farming village a temperament for growing food, while a ranch might require skills and temperament for the kind of animal being raised such as chickens, Sheep, cattle, etc.

All of these can introduce variables and oscillations into the Red and Blue Color Codes, dampened by the strategy of removing Red Orange and Blue Indigo dissidents to their respective fringes. Often then Red and Blue see evolution as not based on genes and survival of the fittest but on the decisions people and animals make on who to breed with known as Sexual Selection. Blue in their center can be a kind of Blue Blood in that this orthodoxy and purification by removing deviates to the Blue Indigo fringe can make a pure genetic strain and form the seed of a kind of Aristocracy, of families with specialties such as in farming, ranching, mining and lay the way for their families to flower into Violet refined trades such as blacksmiths, doctors, craftsmen, sportsmen and in more modern societies have a university education.

In Roy a Red tribe might sometimes have Orange, Orange Yellow and Yellow people born into it and these would be removed or killed as deviants. In Biv these people are also seen as different but because Biv is based on wealth creation by trade instead of violence these people keep some relationship and might move to other villages or areas in a village where Violet talent can be nurtured, fostering later trade between them. Typically then Blue might purify itself for having more powers of Will to succeed by working harder, like the Volk of the Nazis. The Blue job requires Willpower because it requires patient hard work, just as Red requires Positive attitudes and optimism. These two are similar in concept, being optimistic keeps a person or animals struggling in difficult circumstances and so does willpower. This optimism and willpower can be delusional, other Red and Blue people may not think this way but have to hide it or be expelled from the color for being too negative so everyone tends to feel a peer pressure to be positive or determined assuming others think this way too. This can lead to catastrophe because these colors are chaotic and can reach tipping points and collapse with the wrong plan. For example excessive stubbornness and willpower can cause a Blue community to look for minerals where there are none, or try and far in an area which will never have enough water, they could die from this. Color codes in this way form not only distinctive characteristics and philosophies but also distinctive temperaments.

Blue struggles with Green Blue people in terms of how many resources are used. If Blue uses too much then the soil might become exhausted and the village has to leave land fallow or has to abandon it. If a Green Blue mine is worked too much it might be exhausted too quickly and closed. So Blue evolves with a sense of preserving Green Blue resources, because if they do not then they prosper less than other villages and natural selection ensures other villages have more offspring. This is similar to Red grazing animals, those that don’t develop an instinct for not overeating plants; eating their roots and killing their food supply tend to die out or are out bred by animals that do preserve their food supply.

Plants must also evolve a similar conservation of the nutrients in the soil. If a plant grows too quickly then the area around the roots might become depleted and the plant roots begin to starve like the Red grazing animals would from overeating in a small area. This also leads to an oscillation in Biv similar to in Roy. For example Blue roots consume too much like Red grazing animals, consume more food and then start to run out of food. The Blue Indigo area of the plant, such as the upper roots also grows initially with the extra food from the roots with the expectation this will continue, and this is like the Red Orange fringe also overgrazing by following the lead of Red. The Indigo trunk of the plant senses this and causes the upper parts of the plant as Indigo Violet and Violet to grow more, like how the Orange shepherd eats more, perhaps has more children, and the Orange Yellow and Yellow Predators increase with the extra numbers of Red and Red Orange Prey. Then when the Green Blue soil is temporarily exhausted the Blue roots suddenly have little food just as the Red animals that overgrazed do. With Red this causes their numbers to plummet as the increased numbers of Yellow and Orange Yellow Predators eat more and more of them to ward off starvation themselves. Eventually Red and Red Orange become so scarce Yellow and Orange Yellow starve and reduce in numbers, and Roy starts to stabilize at lower numbers of animals.

In the same way the Blue roots which have extracted too many nutrients suddenly begin to starve, and this causes the upper parts of the plant such as Indigo Violet and Violet to also starve. They demand more food from Blue and this causes it to starve even more. So this starvation goes all the way up the plant to Violet and the plant might wilt or even die. Plants that conserve their food better tend to stay stronger and can win the competition against other plants by growing large enough to permanently overshadow others with their leaves, while plants that die this way become food for other plants as humus just as starving Roy animals become easy game for other animals there.

Evolution then favors those plants which learn or evolve to regulate their growth. Green Blue people have some opposition to Blue people in that Green Blue favor leaving land fallow, saving land for future generations, etc and this creates tension between those in Blue wanting to use these materials now. This also causes Violet to be against Green Blue as they want to use resources in the ground instead of leaving them for another plant so just as with Green conservationists battling Red Communists and Yellow imperialists in Roy, Biv Green Blue conservationists argue with Blue farmers and miners, and Violet who refine these resources.

If Green Blue is too successful then a village might not prosper compared to its neighbors who use their materials more, and if Green Blue is not restraining enough the village might be abandoned for lack of resources later. The orthodoxy of Blue might dominate Green Blue as an in overusing resources, this willpower to succeed with a strategy bound to fail can lead to disaster, or it might side with Green Blue with an orthodox view on conserving and lead to losing ground in the cut throat competition against other Blue villages in trade, etc. So as before, a Color Code tends to thrive according to how it balances itself with neighboring Color Codes.

Blue society evolved and became much more complex. From basic villages Blue grew into towns, cities and nations. While a village might have a Blue working population with a few Blue Indigo fringe dwellers and some Indigo Violet and Violet offspring as these villages became larger and merged to form nations there became classes of Blue and Blue Indigo workers. There might be Blue orthodox miners who had skills at coal, steel and other minerals, Blue farming workers, and so on. All had this sense of sameness and orthodoxy of opinion, religion, temperament while expelling those who were too different increased their specialization and so became a particular kind of working class often with their own dialect, slang and customs. Like Red they might be seen sometimes as like Sheep because they tend to follow each other’s secretive and deceptive ideas more than looking for the facts so sometimes they are fleeced of their money by Indigo Violet businessmen.

Just as Red animals evolved into Red tribes and developed a secretive and deceptive political ideology of Communism, Blue also evolved a political ideology, that of Left Wing Democratic politics such as a Labor Party in Britain or the Democrats in America. Blue Indigo and Violet are socialistic by nature because they are team colors and tend to protect other members of their Color Code, Blue and Indigo Violet are highly competitive and are more interested in winning against other members of society rather than supporting them and potentially being beaten by them later. The difference is that Blue politics is based on Green Blue private property instead of Green public property so Blue competes on owning property and Red competes with each other on who is the most powerful and surviving attacks from more powerful Predators. Communism was based on avoiding being attacked and exploited by Yellow and Orange Yellow Predatory parts of society such as Capitalists and Imperialists, this led Red people to want to control and own the means of production, Blue tries to own as a way to control its means of production by running their own farms and mines and then trading with other colors instead of them being owned by Indigo Violet and Violet management and working for them. Owning this means of production can mean owning shares in a business, owning the land and getting a rent or royalty from companies, Blue Indigo also controls this by being able to strike. Control refers to power in Roy where there is only Green public property, ownership in Biv confers a different kind of power on the owner because instead of having to be stronger or better at deception to avoid goods being taken from them Biv has title to goods and the Biv system agrees they cannot be taken from them without their consent.

The team instincts of Red Orange caused people to be generous to each other, which led to the idea of Socialism, pensions, free health care, etc for themselves and for Red people even though they usually are not team players. This team instinct orthodoxy in Blue Indigo led to similar ideas where workers would support each other in unions, have pension plans, contribute to help those less fortunate even in Blue though they rarely wanted to join unions, to develop an insurance system where people could pay a premium and insure against theft, fire, unemployment, etc. While Red Orange created a welfare state to address these problems and to look after the Red center, Blue Indigo created the insurance society to minimize the same risks. This increased in size after the Great Depression in America where Social Security was formed as an insurance scheme where workers paid into a fund and received a pension later, Britain started its National Health scheme as Roy after World War Two. Discrimination against individuals in Blue is discouraged, so they try and have a system where people pay similar premiums for health insurance, pensions, unemployment insurance, etc.

Blue people being competitive, secretive and deceptive avoid this team based strategy because they think they are subsidizing other people or are missing out on a chance to profit from others. So if there are Blue Indigo unions Blue people would prefer to opt out because they can get the benefits of higher wages negotiated by unions without having to pay premiums or go on strike. They also protest against a single premium for all because this subsidizes people they compete against such as lazy workers, those who don’t save for retirement, and don’t look after their health. If available they can overuse welfare because competitively it can be easier money, plus being secretive and deceptive they can work while receiving welfare giving rise to a welfare class exploiting the system.

TV shows or soap operas might track a Blue population’s orthodox attitudes about issues and even small deviations can be hotly debated, for example where characters in a soap opera are secretive and deceptive about affairs and adultery. Blue people often debate and work out a consensus on how society should react to these people, whether they should be allowed in Blue society or shunned. In the same way Red Communists might have propaganda on how the orthodox citizen should behave, work, support the part, etc or be sent to the Red Orange fringe. This is also directed at public figures which are presumed to either be free of scandal or are expected to hide or lie about it which selects towards deceptive politicians. In Blue Indigo and Violet however much less is hidden because the power of numbers and their team instinct protects them instead of secrecy, politicians like this can remain popular even when scandals are uncovered because people can prefer honest for example when a politician is gay or not the most conventional religion. Jack Kennedy was a controversial figure because his Catholic religion, rumors of affairs and good looks were unconventional, Bill Clinton had similar issues. A Blue Indigo candidate is center right in politics and is more moderate, a Blue political candidate is more likely to be circumspect about his private life.

Other media and art forms such as music can be directed at the Blue Indigo fringe and tend to scandalize the Blue center with deviationist ideas to their orthodoxy on many issues. So Blue tends to have their art which is orthodox and the fringe of Blue Indigo their dissident art. This is similar to in Red Communism where the party had its orthodox teachings and dissidents either kept their deviationist ideas, art, books, etc secret or in the closet, or were expelled into the Red Orange fringe where they could be more open and passed books between themselves though this was often dangerous. Sharing of literature between dissidents allowed them to maintain a team spirit and a commitment to truth, Red people were able to be secretive and deceptive in reading this material without others knowing or to be genuinely taken in by Red ideology.

Religion in Blue also reflects this orthodoxy and tailors its notion of sin to what the consensus of people is and what can be safely hidden, often to be forgiven regularly in secret confessions in Church. Sexuality might become a religious issue because it goes against the orthodox view and discrimination against gays can reduce the Blue competition for jobs, gays might stay in the closet, join a religious order as a priest or nun to hide this, or be seen as old maids or bachelors. In Red and Blue this can lead to gays becoming priests themselves as a way to hide and still participate in the orthodoxy which is safest for people, in this atmosphere of secrecy and deception these gays can preach sermons denouncing homosexuality which is believed by their Blue congregation even while some prey on children for sex. In Roy to be in Red is safer because of the threat of being attacked by Yellow homophobes and so there is pressure for deviates to hide their unorthodoxy and stay in Red, selecting for a kind of hypocrisy. The evolutionary pressure of this can be seen in two ways. First the purification of genes by expelling people to the Red Orange fringe forms a kind of orthodox person. Also the need to hide one’s unorthodox ideas forms a kind of inbred deceit and this evolves the Red character of being secretive, deceptive which assists in surviving against Orange Yellow, who also evolves its deceptiveness by hiding its weaknesses.

In Blue as well, the pressure to be orthodox forms the pure bred sometimes gullible person which is why they are sometimes referred to as being like sheep, and also the people capable of hiding their true beliefs. This evolved ability to deceive in Biv also helps it in its trade against the deceptive Indigo Violet group, similar to Orange Yellow in nature. Religion then forms a veneer of sameness, creates a work ethic as a virtue, and forgives people or rehabilitates them for their sins without other people having to find out about them, encouraging them to continue to work hard and be orthodox and repress or hide their deviations. So gays, adulterers, etc for example are purified from the Red and Blue gene pool by being moved to their fringes, which can explain why people want to exclude them from some social Color Codes and how racism and other forms of discrimination tend to arise in every society.

In Blue then this creates pressure on deviates of all kinds, sexual, political, religious, artistic, etc to deny their differences, to learn to hide them, and in exchange to get the advantages of living in the more homogenous Blue society. For example artists might feel pressure to write, paint, make music about more conventional topics and present the orthodox Blue viewpoint and deny their personal opinions. So for example artists for Blue might need to present a drug free, family oriented, heterosexual, happy face to sell their music when they might be just the opposite. This is often seen where gay actors and musicians admit they are gay or drug users after long careers pretending to be highly conventional and idealized role models. In the same way in Red Communism people might have to pretend to believe propaganda and cheer Red leaders as they had to do for Stalin and hide their true feelings.

Religion in Blue then focuses on rehabilitation and forgiveness of people for the aim of keeping the Blue Color Code from fragmenting and losing their consensus. This is similar to in the novel 1984 where Winston not only had to confess his crimes against Big Brother, i.e. join the closet and hide his true feelings again, but he had to really believe the secretive and deceptive beliefs of this society were true no matter how illogical they were and forget previous versions of history as if they had never happened.

In Blue as in Red there is a dual Policing force, to rehabilitate where possible and if not to expel people to the Blue Indigo fringe. So a Blue priest might urge his flock to conform if they can, but if they cannot then they might be asked to leave the church such as for example openly gay, promiscuous or skeptical people. In Red Communism and 1984 this was accomplished by watching people with Secret Police, and when they were exposed Stalin would often have them arrested and sent to Gulags. Secret Police act secretly and deceptively and to avoid them people had to do the same or genuinely believe or be gullible enough to accept often false ideas in the Red society. In Blue churches people might be afraid to be seen as deviates and present a more enthusiastic face to the community, going to church more often, socializing more, and participating in more orthodox social activities approved by the community.

While Secret Police are rare in Blue societies just as in Red where others might denounce a person to the Police, Blue people who are deviates might live in fear of their Green Blue privacy being violated and their being outed by other people who may be secret deviants themselves. Blue Police might have a strict set of laws to reinforce this orthodoxy, for example sexual deviationism might be criminal or once someone is outed they might be shunned from orthodox society or have to register where they live as a sexual Predator so they can no longer be secretive and deceptive. So the laws of Policing in Blue are to keep the Biv peace, to pressure people to conform and keep their unorthodox behaviors private or they might be run out of town, or to the Blue Indigo fringe part of town.

In Biv war is less likely because of the relative abundance of resources compared to Ray and so people compete and cooperate to maximize the utilization of these resources rather than to attack each other as Predator and Prey. Blue does not have an ideological enemy like Red has with Orange Yellow, instead they have a business adversary in Indigo Violet. Whereas Orange Yellow evolved to deceive and rob Red by stealth and trickery, Indigo Violet does something similar but avoids crossing the line into actual crime as a deal should be a win for both parties. So they might be a sharp salesman, use somewhat deceptive or misleading advertising but the Indigo free market tries to ensure there is free choice by Blue in a transaction and both sides gain. Caveat emptor is a good slogan for Blue, to beware what they buy from Indigo Violet but Indigo Violet must also be wary of Blue people who are often equally deceptive.

Like in nature there can be different levels of Blue, where Blue is dominant, equal or weaker than Indigo Violet. If Blue is relatively strong then the Blue Community of workers, farmers, miners, etc are relatively aware of the tricks of Indigo Violet and are careful consumers. They are protected from fraud and deceit to a large degree because the Blue Indigo fringe tries to get all underhanded business out into the open so consumers cannot be tricked. Such a Blue Community might thrive and be relatively wealthy, have insurance and welfare to protect them from industrial, mining, farming, accidents and also the weaker members of their society are taken care of, as in the Red welfare state. Indigo Violet agents can be at a disadvantage here because the Blue Indigo fringe like a trade union or a consumer protection agency tries to expose all their tricks but Blue people are free to be tricky themselves in what they sell, in demanding unreasonable refunds, shoplifting, and using this open information to make Indigo Violet sellers compete with each other to give the lowest price.

Their Blue Indigo fringe might not be so well off. Typically for example this might be a separate part of the town and though they might originally have evolved as living on the outer edges of a town as fringe dwellers they might live in a particular neighborhood. In terms of sexuality then Blue areas might push out unorthodox people such as gays, promiscuous, divorcees, pedophiles, transvestites, adulterers, etc and they might go to one or more Blue Indigo areas like this and still work and travel in the Biv economy. They might also work in and run orthodox restaurants, bars, nightclubs, etc for Blue, suppressing their unorthodox views, and have other nightclubs, etc for those in Blue Indigo to express their views openly. Many cities have this kind of area where Blue working class people go to be open and honest for a while before returning to their conformist lifestyle.

So Blue tends to look after themselves first, to force into hiding Blue Indigo deviate feelings, and to move or shun those who cannot hide them. If in commerce there is strong competition then this Blue Indigo fringe might not fare as well because their deviance is used as an excuse by Blue workers to blackball them, make labor scarcer, and command higher wages as a result. Since Blue are highly competitive and are hard workers then they can accumulate wealth and tend to exclude Blue Indigo from jobs that enable them to participate in it, so Blue Indigo often works with Blue to provide them services while being excluded in other ways. For example Blue Indigo fringe people might run art galleries, restaurants, night clubs that Blue people go to occasionally and where Blue Indigo might hide enough of their unorthodox ideas to be acceptable. This can also give a market for those hiding in Blue and who come out of their respective closets in the Blue Indigo fringe whether sexually, artistically, for different political and religious ideas, etc.

Some of the offspring of Blue Indigo as mentioned earlier have the genes or desire for the Blue hard work, deception, self-delusion, etc and move back to Blue neighborhoods, or at least go there to restaurants, pubs, night clubs, etc. So there is a movement between the two Color Codes of commuting for work, eating out, entertainment, secret meetings and liaisons, etc. In smaller cities this evolves as more seedy areas of town, gay Communities, parts of town with a single race like a Chinatown, swingers clubs, rival churches and sects, drug takers, and so on.

Drugs are another example of Blue orthodoxy. Alcohol and tobacco might become ubiquitous because of peer pressure, because not to smoke or drink might be seen to be different and may help with the stress and pressure of the highly competitive and hard working environment. People who took unorthodox drugs such as marijuana, even if arguably as safe would tend to be forced underground or in the closet and do this secretly or be forced to move into a fringe area. So Blue people might see themselves as not wanting drugs or not being susceptible to them, and they do this by expelling and suppressing people who want them or making them hide it and can build a deceptive view of society with an underground drug culture. Blue people hiding a drug habit might have to travel to the Blue Indigo fringe to buy or use drugs, and if they are exposed they may have to move there. The evolutionary pressure then in Blue Indigo is to cater for Blue needs of those in the closet, for those arriving from Blue or returning to it. Redemption in Blue Indigo can result in people being rehabilitated and becoming true Blue again. The pressure for Blue is to avoid having to live in the Blue Indigo areas, to save up, work hard and move out of them if they want to return to Blue.

In economic terms Blue represents an important part of an economy, the working class who get the resources from Green Blue private property. Sometimes their wages can be low if they get a poor deal in the Biv economy, much as a plant’s roots might keep relatively little of the nutrients in a tall tree. A plant that kept more resources might be like a bush or grass with long deep Blue roots to reach water and minerals and to be hard to uproot by Red animals. Grass is like this, when overeaten it regrows from the stem and leaves rather than from the roots like most plants so this enables it to regrow faster. As mentioned earlier, oscillations in the Biv economy can be caused by Blue working too hard and quickly using up all available resources in a boom followed by a bust, or conserving Green Blue resources to grow in a continuous and sustainable way. The movement of nutrients up a tree is analogous to the movement of goods in a Biv Capitalist economy and this can also be represented by the movement of Green Blue as units of money. So Green Blue can be a legal tender or agent for bartering in the Biv economy whereas in a Roy economy money is seen as Green where the government has the right to take money forcefully from people as taxes, to spend it by public industry, and to hold it in trust for the public.

The concept of money as Green or Green Blue then represents the movement of wealth in a Roy or Biv economy and units of this wealth represent public or private spending. If there is no Green Blue private property, such as where people in a society are presumed to be controlled by the government then the movement and allocation of Green wealth can be by the most powerful people and institutions taking them.

In a Biv economy transactions are by choice and so while Green Blue money as pieces of private property is not compulsory people find it more efficient than barter. When one commodity is easy to carry and to measure its purity while also being useful it is natural for it to start being used as money, gold and silver were an obvious choice for this. As they became more popular standardized sizes of these metals became coins, made convenient to carry and usually with a recognized manufacturer to ensure they were genuine. Each Color Code uses its Green or Green Blue money units according to their characteristics. Blue for example often uses money to get machinery and other assistance in getting resources from Green Blue lands and when they trade these Green Blue resources they get refined goods from Violet and Indigo Violet, or unorthodox services from the Blue Indigo fringe.

Economically if the resources of Green Blue are unreliable or Blue is too greedy then they can create booms and busts in higher Color Codes in the Biv economy. Just as with animals and plants, a Blue wasting of resources can be as follows. Blue uses up resources too fast despite opposition from Green Blue people, perhaps with the encouragement of Blue Indigo, Indigo, Indigo Violet and Violet people. As the resources are quickly mined, grown, etc this leads to more wealth in Blue, which in turn leads to more spending in the Blue Indigo fringe by those in the Blue closet, as explained earlier. So Blue Indigo has a boom as well like the shops and services around a mining town in a Gold Rush which might include in more primitive societies saloons, brothels, selling more furniture, blankets, clothes, etc.

The money in Blue Indigo and Blue creates a demand in them for refined goods, much as the Blue miners and the newly rich saloon owners and stores around the gold rushes in California wanted to sell the gold and buy better food, clothes, horses, housing goods, etc. These miners then might have formed a more respectable Blue Community based on mining and sudden riches, with the fringe part of town for unorthodox services. Many of these towns would have been formed by Red Orange and Blue Indigo people who felt alienated from their own societies such as the Pilgrims from England and banded together as teams to withstand attacks from Indians to make settlements. Once there the Blue center of this fringe began to reform as some found it lucrative to be secretive and deceptive, for example gold miners, a land grab for the best farms, preachers building a congregation to support themselves, deviants such as alcoholics and users of prostitutes who were protected when the team travelled and had a common enemy but when the town acquired a deceptive reputation for respectability had to reform or at least appear to. Then the fringe would have bars and whorehouses people would secretly frequent.

This Blue Indigo fringe then starts to evolve gold sellers and agents, banks, etc who sell this gold in the Indigo market, evolving a commercial district in the town or elsewhere in a larger city and the gold is converted into money by Indigo Violet agents who might sell Violet goods like farming or mining equipment, furniture, glass for windows, and so on. Some Violet businesses would start up, like painting portraits, larger farms or ranches might develop to sell food to the Blue miners and get gold in exchange. This leads to a boom for Indigo Violet agents and salesmen coming to the town looking to sell goods to the Blue miners and trying to bypass their Blue Indigo fringe of agents and shops, much as Orange Yellow tries to bypass the Red Orange defensive fringe of animal herds in Roy and feed on Red Prey directly. Indigo Violet salesmen try to sell things by moderate trickery to Blue such as with door to door salesmen, and also Indigo Violet agents might try and make contracts directly with the Blue miners and bypass their Blue Indigo friends and relatives to get the gold and farm produce directly. Indigo Violet people are also secretive and deceptive and can appear religious and conformist to get better deals with the Blue community, they can also portray Blue Indigo people as deviants to try and get around them. Violet businessmen can be a group of deviants as well, like the outlaws of Wild West movies or owners of cattle ranches and they can use secretive and deceptive Indigo Violet agents to do better deals.

Indigo Violet agents then make more money and experience their own boom, by getting cheap gold and farming produce from Blue miners and farmers. All colors tend to spend more and save less as the wealth continues to grow despite Green Blue environmentalists and conservationists warning the gold might be used up soon or the ground is being over farmed or overgrazed.

Blue Indigo acting as agents for Blue want to get refined goods directly from Violet companies, artists, designers, etc and bypass the Indigo Violet agents and so try to contact Violet directly. Since they are both deviants and outcasts living more openly they tend to do business together since they are more trustworthy. Blue Indigo being more diverse and unorthodox buys more refined goods, because Violet represents the flowering of society in terms of arts and crafts. For example people with many unorthodox interests in the Blue Indigo fringe might buy more diverse refined goods that deviant artists in Yellow make than Blue would be interested in. Artists in colonies in Blue Indigo might with their new wealth buy more expensive musical instruments, painting materials, etc. Nightclubs might buy more expensive furnishings; restaurants in Blue Indigo buy more expensive wines and foods. Since Indigo Violet people are competitive and deceptive like Blue they must at least pretend not to be interested in such things and so Yellow artists and craftsmen make these more often.

This causes a boom in Violet and more talented people go into business as the prices of these refined Violet goods is in demand and their prices go up. Indigo Violet tries to get higher prices for Violet goods acting as agents for Violet, similar to how Blue Indigo acts as an agent for Blue, and so the gold from Blue buys less as the price of Violet goods rise, forming a boom and perhaps a bubble as people speculate on the rising prices.

So far this is like the plant growing too fast by using up the nutrients around the roots. One day the Blue workers find the gold starts to run out, or the rate of growth of mining starts to slow as gold gets harder to find or more expensive to produce. They start to have less gold and so can afford to buy less, particularly as the prices of Violet goods have gone up so much from the boom Blue created. The other Color Codes will become desperate for the gold to continue and force Blue to work on the diminishing reserves even harder, making them more certain to run out quickly. This is like the Red animals as they begin to starve from overgrazing being eaten more by the Predators that have bred faster because of the larger numbers of Red and Red Orange animals. Red then becomes hunted more and more until they are in danger of being exterminated and then Red Orange, Orange, Orange Yellow and Yellow animals starve as the food at the bottom of the food chain runs out.

Blue then is pressured more and more and the gold gets harder to find. The Blue Indigo fringe to service the Blue Community gets less money and starts to get poorer themselves, and cannot afford to buy from Violet as much anymore, and some Blue Indigo shops close down, for example bars and whorehouses in a Wild West town. The Indigo market slows down as less gold is available and they start to have bankruptcies among Indigo Violet speculators.

Indigo Violet salesmen find themselves doing badly in their sales trips in the gold town and might have overspent themselves, got mortgages and wasted their money, and they start to lose their jobs and some go bankrupt. Finally Violet artists and the elite find their Gilded Age is coming to an end. Their art and refined goods no longer sell for a premium and so their net worth plummets. They may have built up a lifestyle that Blue cannot support and so they start to go bankrupt and each Color Code goes into recession.

Violet can then provide less charity and help to Red people, Violet in society often helps the poor like Red grazing animals feed off Violet leaves in plants. This leads to Red people like those too sick to work, unemployed and relying on soup kitchens and beggars becoming impoverished like the Red animals who overgrazed except here the fault for their starving is the Blue roots, i.e. the Blue gold miners who exhausted the mines too quickly by competing with each other. Despite the efforts of their Red Orange protectors and Orange Police, the weakened state of Red causes Orange Yellow and Yellow criminals to steal even more from them to keep up their own lifestyle. Indigo Violet salesmen can turn back into Orange Yellow thieves as a way to survive, and Violet elite turn back into violent robbers like outlaws. When the Color Codes have corrected these oscillations the Roy and Biv systems start recovering as new resources are found, farms and ranches start recovering or people turn to Roy and become nomadic until they find a new place with abundant resources to form a Biv society again.

Green Blue then can partially control these oscillations by holding back some of the resources for the future. Another Aperiomics business cycle is where Indigo Violet by tricking Blue too much makes Blue smarter and wanting to get better deals in the Indigo market instead, using Blue Indigo fringe people to work for them. Red animals, as said earlier, are attacked by Orange Yellow Predators such as Hyenas, and as such they exert an evolutionary pressure by killing off those unable to outwit or hide from Orange Yellow.

In the same way Indigo Violet exerts a pressure on Blue like the Indigo Violet travelling salesman and the Blue gold miner. Initially Indigo Violet might be successful because Blue is naïve and inexperienced and some of Blue might waste their money and have to leave the mine e.g. for lack of capital. Blue can then evolve by the attrition of Blue workers being ripped off by Indigo Violet travelling salesmen and gold buyers to be equally secretive and deceptive so the salesmen no longer do as well. Another way is that Blue represents Will and so hard work, patience and determination are required to mine and farm in Biv. Those that cannot do this usually move to the Blue Indigo fringe which represents Will but Can’t, in that they want to work but cannot do the job. If the Green Blue resources are relatively easy to mine then Blue will be devolved into someone with lower determination because those with a weak Will would also be successful. In this case a boom as described in the Gold mine might be accompanied by a poor work force unprepared for hard times if the easy gold runs out.

Blue then might be weak willed but also they might be unprepared to do business with Indigo Violet and thus get conned. For example Indigo Violet might arrange a contract with the Blue miners to buy at a fixed price and later Blue might find out they could have gotten more money. So like Red there is an evolutionary disadvantage in being too honest and not paranoid or suspicious enough. Red uses this paranoia to survive being eaten; Blue uses it to avoid bad business deals. For example a new gold vein discovered might cause a gold rush of inexperienced Blue miners who have neither the willpower to work hard at it, or the experience and distrust needed to keep their gold and sell it at a good price. These people eventually leave and as others arrive the Blue workforce get smarter, more deceptive and also more determined. Green Blue then can determine how the Blue workers evolve just as Violet grazing lands can determine how Red animals survive and evolve.

The initial successes by Indigo Violet at getting good deals thus might create a boom in Indigo Violet circles, and in their business with Violet. In a large scale example a third world country might have discovered a new oil or mineral deposit, and by being naïve do a poor deal with Indigo Violet mining companies from another country. This windfall for Indigo Violet then might create a boom. Blue then evolves better business instincts to renegotiate contracts or in agreeing to new ones. So often third world countries in these situations might renegotiate, repudiate or nationalize Blue versus Indigo Violet agreements like these and the Indigo Violet agents after an initial success with deception find that the Blue workers use their more honest Blue Indigo fringe people to bypass them and make direct deals with more honest Yellow companies or sell in the Indigo market.

Just as Orange Yellow represents a kind of animal that successfully feeds on Red ones, so too does Indigo Violet represents people and companies that successfully find Blue businesses, people, countries, etc to trade with so this income is an important part of Indigo Violet’s society.

This pressure on Blue to evolve also causes those not as suspicious of Indigo Violet and deceptive enough into the Blue Indigo fringe where cunning is not as useful. For example a new business opportunity such as the gold mine is found and many unsuitable people join Blue in hopes of getting rich. Some are not determined enough and leave, often joining the Blue Indigo fringe and provide shopping services and acting as agents for Blue. Those also not suspicious and crafty enough in their dealings with Indigo Violet might also lose their capital and end up in Blue Indigo so there is a shake out where the surviving workers and companies are smart enough as well as determined enough to prosper. This is often seen in new industries where many companies are formed, for example in computing and software, and then only a few survive the first year. The others often don’t understand how to market their product to Indigo Violet, have sufficient capital, get tricked out of their ideas, get bought out, don’t try hard enough etc.

Blue also has interactions with Yellow across the Green versus Green Blue fence. For example Yellow outlaws steal from Red Orange towns or receive part of the theft from Orange Yellow cattle rustlers and thieves. This wealth of Yellow, which in primitive societies might be from a raiding tribe is Green which means they hold this wealth by being more powerful not from having acquired it through deals in a market. Then they might sell this as raw materials to Blue who views this as like farming, mining, etc. For example in a mixed society of Roy and Biv, Yellow criminals steal goods from Red Orange people such as money, electronic goods, etc and then sell these to Blue whereupon they become Green Blue private property. This can be like a pawn shop where the Yellow and Orange Yellow thieves bring the goods to the Blue shopkeeper who then sells the goods in the Biv economy. These pawn shops appear to be a resource in the economy for new wealth because their cheap purchase makes them appear to the market like a cheaper manufacturing company. For example a computer might cost $1,000 to make and sell second hand for $500, but a pawn shop can buy it as stolen goods for $100 and sell it in the market. This creates a glut of second hand computers on the market and might make them worth only $300 so some consumers benefit from this while the ones who were stolen from lose. There is then a transfer of wealth from one group to another in Biv.

Another example is in third world countries where Yellow might be a Warlord or Dictator who exploits the country’s Green resources by running Red tribes off their land, using Yellow military power to protect taking these resources, killing Red workers or enslaving them to work in the mines, etc. Then they sell these goods to Blue companies where it enters the Biv economy. In the gold mine example Blue represents a miner who also might get some gold from Yellow thieves and robbers and takes it to Blue Indigo or sells it to Indigo Violet as a legitimate transaction. Another example is in the movie Blood Diamonds where diamonds are found in a primitive Roy society and Yellow steals these goods by raiding Red tribes and defeating their Red Orange guards, then enslaving Red people to mine these diamonds, they then sells the diamonds to Violet companies to get Yellow guns and weapons to continue to raid Red Orange tribes.

Yellow hunters who kill Red and Red Orange animals for fur are like Predators in Roy who would then sell them in the Indigo marketplace. This fur would be treated in the Biv economy as if it were farmed or mined, and then perhaps get purchased by Indigo Violet or the Blue Indigo fringe. A similar situation would be Yellow fishermen and whalers who also act like Predators though they may use secrecy and deception like Orange Yellow to catch fish with bait and lures, then they sell their Red and Red Orange fish into the Biv economy. In the early 1900’s this was also done for whale oil, similar to mining for oil in the ground. Slavery was another example where Yellow slave traders would capture Red and Red Orange slaves and sell them into the Biv economy to become Blue workers owned by Violet plantation owners.

### Blue Indigo

As explained earlier Blue Indigo is the corresponding Color Code to Red Orange in the Biv economy. Where Red Orange survives by defending itself against Yellow Predators, Blue Indigo survives by negotiating with Violet for trade. Blue Indigo represents the more unorthodox people from Blue who have moved to or have been relocated to the fringe or separate parts of the Green Blue town, city, nation, etc. Because of this unorthodox mix of ideas, genes, beliefs, tastes, etc Blue Indigo can be more flexible to respond to different circumstances just as the Red Orange fringe was flexible in protecting Red from Predator attacks.

Because Blue Indigo has ties to the Blue Community and is not fully accepted by them because of their honesty and refusal to hide their deviance they can be in a good position to be agents for them and so often work as salespeople and to transport goods to the Indigo market. So Blue people might concern themselves with working hard and leading a relatively Sheep like orthodox lifestyle while Blue Indigo being more diverse and unorthodox has more flexibility to deal with other people including to market the produce and skills of Blue people as well as to protect them with their team instinct. For example an attack by a gang of Yellow robbers on the way to the Indigo market could be repulsed by the Blue Indigo gang whereas Blue people would run and hide losing their produce. In the market Violet tends to band together with a team instinct and if Blue goes to market then they can be played off against each other for a better price. Since Blue Indigo also work as a team the team behavior of Violet gives them no advantage. The orthodox Blue behavior which is an advantage in their work makes them inflexible in dealing with some outside Color Codes, Blue Indigo then can work for Blue not just to supply some of their needs but to act as intermediary between them and the Indigo market. Blue might produce farming goods, minerals etc in more primitive societies and need to get these to the Indigo market and it makes more sense for them to have Blue Indigo people who are not working on Green Blue resources and so are available to do this so the Blue people can keep working in the meantime. Because Blue Indigo and Blue are close like Red and Red Orange they are more trusted, often being relatives in primitive societies.

Red Orange’s Color Code uses its strength rather than speed and stealth to survive against Yellow Predators and Blue Indigo also uses its strength against Violet. Rather than being secretive, Blue Indigo represents many people who have come out of all kinds of closets and decide to succeed without hiding their deviations from the Blue orthodoxy. For example gays in the Blue Indigo fringe might not be afraid to be out because the team protects them, and so cannot use stealth for protection and so they must be stronger. Blue Indigo gays then might be more prepared to defend themselves from prejudice than others hiding from it.

In another example those with doubts about the Blue orthodox religion might decide to live openly as atheists, agnostics, and of less popular versions of an orthodox religion, Christianity has many churches like these believing different things to the main Blue ones. A Catholic Blue area might have small groups of Protestants, Baptists, Anglicans who feel pushed out of the Catholic society and are drawn to overlook their differences in Blue Indigo. Red religion represents Positive thinking, and so encompasses Positive faith rather than Negative doubt. Blue religion represents the Will to follow a religious path or at least to hide one’s opposition to it, to resist temptation and to struggle to follow a religion’s teachings. For example a gay man might have the Blue Will to hide his sexuality in a Blue society, if he can’t and is outed he would live openly in the Blue Indigo fringe which is represented by the word Cannot.

The Blue Indigo fringe might also be a more vibrant area of discussion on all kinds of topics, for study, etc, even on ideas that are on the “lunatic fringe” of modern Blue science. Biv science is based on the concept of owning knowledge, and can be set up methodically where scientists, universities, etc select fields of research and there is an understanding between them that they have rights to publish in an area as if it were their own, perhaps preceded by papers published, a book, a thesis, etc.

For example universities might have companies that give them grants to study technology which is quickly converted into Green Blue intellectual property as patents if a successful vein, like the gold Mine, of knowledge, technology, etc is found.

Blue scientists might publish papers and carefully credit previous Blue scientists who wrote earlier papers in that field, this can also be highly secretive and deceptive where a new discovery is kept secret before publication and other scientists might try and plagiarize or steal it by publishing elsewhere with some minor changes. The result is a tree shape where the scientists on the “coal face” of Green Blue knowledge, i.e. that knowledge worth protecting as private opposed to Green public knowledge, doing new research publishes new results and then others build on those roots by referencing those papers, which in turn are referenced by others as the tree shape of these references grows. The Blue Indigo fringe has more flexibility from its assortment of unorthodox ideas, and so can more easily spot an unorthodox improvement, idea, invention, etc.

In another example a new discovery by Blue scientists in Green Blue might make for initial patents, like pieces of fenced off Green Blue intellectual property, and then other scientists make new inventions by improving these and so the patents form a tree structure with Prior Art they reference and later inventors who in turn reference those patents as Prior Art. Like a neighborhood of private blocks of land these chunks of intellectual property form a thicket of privately owned ideas.

This need not be just in technology, researchers in history might write papers and thereby form a claim of ownership on a subject or field and other researchers cannot write the same thing without being accused of plagiarism. So to write a new paper someone must come up with a new idea or improvement on the published ones, and then reference the prior papers and acknowledge their validity.

This is similar to a growth of a city itself. Some people might fence off land as new plots, and then others might fence off land near it, analogous to claiming in a published paper or patent. Others might improve a piece of land by buying it and building on it, draining it, etc and this is equivalent to a researcher taking an idea from one paper and with the consent of the previous publisher rewriting it, improving it, etc.

The same process can occur with trademarks where a shape or mark is Green property that is converted to Green Blue by the act of allowing people to own marks as trademarks and the mark being commercially valuable, otherwise it would stay in the Green public domain. People select various marks and fence them off by the process of claiming them much like the miner fenced off the gold mine claim, they then need to defend them against trespassers by warning them the mark is owned and if necessary defend it in court. Then others use these marks as Prior Art to fence off or claim other marks similar to the originals or improvements on them and if they represent genuine differences then they are approved in the Indigo market.

Copyright has a similar history, where some art was regarded as Green or in the public domain in Roy societies, but in Biv it is regarded as privately owned. Resistance to and piracy of, copyright, trademarks, patents etc is often strong in Roy countries. For example China and Russia as Red countries had a belief that patents, copyright, etc were not valid private property but that information like this should be in the Green public domain, controlled by the government who has the power to enforce this. So again Roy valuable ideas are controlled by the power of its people and institutions and Biv valuable ideas are owned by its people and institutions.

Instead of all data becoming Green Blue or private, the line between Green and Green Blue is usually a compromise. For example copyrighted works have a fair use component where they might be freely used for discussion and education in some circumstances. Patents usually expire after twenty years or so and the ideas pass permanently into the Green public domain. Copyright ends a certain number of years after the creator’s death and enters the public domain. Trademarks might be lost if not associates with a business or defended when used by others.

Blue then works these veins of Green Blue intellectual property for all the new, not obvious, practical and other applications in it. Just as with the gold example Indigo Violet agents can be looking to make deals with Blue independent inventors for a cheap price, or with a university or research center, etc. Blue then also evolves by being careful and secretive about its discoveries, much as it has to be with its discoveries of gold in the gold mining leases discussed earlier. Those not secretive enough might be ripped off by Indigo Violet entrepreneurs or get a lower price, or other Blue workers might see what they are working on and try something similar like making new mining leases around a gold discovery.

The Blue Indigo fringe includes those scientists, etc who might not be able to find new intellectual property, might not have the Will, persistence and determination to sift patiently through lab results, trying different experiments, etc and often become agents for Blue to market their discoveries and inventions. Also Blue Indigo can include those claims not allowed by Blue, as being invalid, or not accepted as orthodox enough, infringing someone else’s claims, as plagiarism and so on. For example in a Green Blue field Blue scientists might have a relatively orthodox interpretation that they adhere too, even if it might be wrong in many ways. The network of small property rights, papers, references its becomes rigid and so it becomes more important in some cases to be able to manage this system than to actually have the right answer or legitimate Green Blue intellectual property. One Blue scientist might have a theory and then many others reference his work in a tree like shape, afterwards the original discovery might be flawed or not commercial but so many have invested their careers and money in them the secrecy and deception of Blue takes over and they keep trying to patch the theory to make it work instead of moving to a better theory. This is the power of Will also Red Positive or optimism where once the theory is decided then negativity about it can send a scientist to the Blue Indigo fringe.

Like a Red flock then Blue scientists need to be able to agree with each other, to go to conferences and reference other works correctly, and new ideas threaten to topple this carefully constructed root system of incremental improvements. Like the Red flock, they tend to believe in the same thing and move together because with so much deception some will blindly believe wrong theories rather than change and others will find it too lucrative to question the theory, the organization is most important as it is in religious faith. If their orthodox theories are found to be wrong then the adjustment needs to be slow and preserving priority, references, etc. This is like with Lysenkoism in Russia where the theory persisted and was embraced by scientists even though many were either gullible or knew it was wrong because it was not safe to say otherwise, dissenters were expelled to Gulags or even killed.

In the Blue Indigo fringe then can be scientists who do not fit into the conformist system and so are exiled or voluntarily move out of the mainstream. They might then form groups of Blue Indigo theorists some of who might try and rejoin the Blue group where the main money and influence might be, by proposing papers, inventions, etc that are orthodox enough and often deceptively imply things they don’t believe to get funding. Other might develop alternative theories, just as other people develop alternative sexuality, lifestyle, art forms, religions, cults, philosophies, and so on. Just as with the Red animals if a Blue Indigo group gets these new ideas right then this is equivalent to them getting past Blue and finding new Green Blue knowledge. Then they might form a nucleus of a new Blue group and they get their work referenced, quoted as prior art, improved on, etc. they become the new Blue orthodoxy and this is equivalent to a revolutionary leap in science. After a time they might become secretive and deceptive about this subject and intolerant of other ideas that question it, these dissenters then form a new Blue Indigo fringe around them.

For example orthodox Red animals might expel their mutated or unusual looking offspring to the Red Orange fringe. If some of the Red Orange animals however have offspring that have an evolutionary advantage then they might form the new orthodoxy because they survive better against Predators, starvation, etc and the previous Red animals decline or die out. Also this Red Orange group might form a new Red herd, flock, etc and become a new species replacing the original Red center by breeding faster or interbreeding with the original Red animals. So this tends to create new species and also allows a species to make a relatively sudden evolutionary leap to a different type. Then they are usually frozen into a static type again by the orthodoxy of Red.

In the same way a revolutionary Blue Indigo idea, or also those found in Blue can create a new orthodoxy and then people use it as the base of a new root system of references just as the Red animals used it as the center of a new flock or herd. Blue science makes a leap forward while still remaining highly organized in ownership of the many small claims of intellectual property. Because of this intellectual mix Blue Indigo negotiates primarily with Violet who is also relatively honest rather than the secretive and deceptive Indigo Violet who negotiates with Blue. So once Blue discoveries are made and published they are no longer secret, so there is little opportunity for Indigo Violet to make a secret deal. Then Violet can use its talent to refine these discoveries and business is done. These negotiations are not usually based on deception because the Blue Indigo resources are now open for all to see, so there are no secrets to exploit though the ideas are usually protected by patents and priority. Instead of speed and secrecy which Blue and Indigo Violet might use to make deals and get to market first and before anyone realizes it, Violet and Blue Indigo use the element of strength and power in their negotiations, much as the battle between Red Orange and Yellow is one of power rather than stealth.

For example in the gold town Blue Indigo sold goods and services to Blue miners and received gold in return. While the miner needs to be secretive in his work to avoid people claiming land he wants, the same as a scientist not wanting people beating him to the punch in inventing or writing papers, the Blue Indigo person evolves strength instead. Violet then in negotiations determines whether Blue Indigo is strong enough, has enough money, etc and adjusts the prices accordingly.

For example Blue might discover an invention or technology and secretly develops it, much like the miner secretly emptying a vein of gold. Then he goes to Blue Indigo who might be a failed miner himself or in intellectual property perhaps a former scientist or lawyer who advertises this new technology when fully protected say by a patent, or Blue might keep it a trade secret or use a Non-Disclosure Agreement to sell to Indigo Violet. The trade secret then is like the miner selling gold to Indigo Violet while not disclosing where it comes from. A Blue inventor or manufacturer might make a product while not disclosing how to make it, then marketing it to Indigo Violet.

Violet though sees the protected intellectual property as like the fenced claim of the gold mine and determines his strategy in ways similar to the Yellow Predator. Yellow uses violence to kill Red Orange who in turn uses violence to defend himself. In Biv though Violet uses other strength such as trying to break a patent legally, trying to get past Blue Indigo and deal with Blue directly and so on. To respond to this pressure Blue Indigo often uses its numbers to form a union, cartel, inventors association, lawyers in an association or society, etc so that by being united they can withstand this pressure.

For example small numbers of miners might be pursued and tricked by Indigo Violet dealers, and the negotiations are deceptive and secretive because Indigo Violet also doesn’t want anyone to know where he is buying the cheap gold from. Also if people do find out then Indigo Violet wants to do business quickly before anyone else has a chance to cut him out. This is like Orange Yellow in nature where they might secretly stalk a Red herd, because they don’t want to alert other Yellow and Orange Yellow Predators and have to share the kill. So Red and Orange Yellow both have reasons to keep their interactions secret and quick.

The Blue Indigo Violet business then is also the fast paced secretive part of the Biv economy. Blue Indigo though is slower like the Red Orange animal and wins in negotiations from being strong, dependable, honest, open, trustworthy, etc. In return Violet often organizes itself based on power and might be a large corporation, a society such as with doctors or lawyers, an association of banks, a guild of tradesmen or artists, and so on. Blue Indigo might have a group of Blue investors or partners to make it stronger in business negotiations with Violet, and Violet might have similar investors. A Blue Indigo mine would be where the miners have formed a partnership and their team doesn’t need to be secretive about where the gold is because their claims cover it all. They then contract with a large Violet mining company to work it or to buy their gold.

In another example Blue Indigo might have shops in the gold town that buy in bulk and use the power of purchasing larger quantities to get the prices of goods such as mining equipment cheaper from Violet. So Blue Indigo might buy large numbers and sell smaller quantities to the secretive Blue miner acting like a shop or cooperative. OPEC is another example where smaller Blue countries band together and get higher prices for their oil in a Blue Indigo cartel. Indigo Violet oil companies try to get around this and make direct deals with Blue, particularly with new discoveries.

Companies often have Blue Indigo unions, particularly in automotive, aviation industries, etc. The workers have their Blue Indigo union leaders who hold them together and use this strength to match the strength of large companies. Where Violet then has large amounts of money to use in strike breaking Blue Indigo unions can have saved financial reserves to feed unionists to outlast the shutdown of a plant or mine. In the example of the gold mine Violet gold dealers might decide to boycott the Blue Indigo agents to drive down the prices and so Blue Indigo might have to weather this attack much as Red Orange does against Yellow.

Just as Red Orange and Yellow evolve each other into being stronger by losing their weaker members, so too does Blue Indigo grow stronger by some of them being too weak and going out of business. So in the gold mine example those not strong enough to weather business dealings from Violet might go bankrupt, and others might not have the capital to pay Blue. Also Blue Indigo might have to employ Police like workers to protect themselves if the interaction turns more violent and crosses the line to Yellow versus Red Orange. For example in strike breaking Violet companies sometimes used Yellow thugs to attack the Blue Indigo strikers, who then had to employ Red Orange people to defend themselves.

So strong arm tactics by Violet can evolve Blue Indigo to be stronger in response. For example a weak union might not get a good deal for itself and Blue, and so there is a selection pressure for someone stronger to take over. So those not strong enough in such negotiations go broke, leave, are fired, etc until those strong enough to get the better price are found. Since getting more money allows more money to be paid to Blue Indigo then this usually means someone better is found.

If Violet is too successful then the Blue Indigo cartel, union, the Blue Indigo shopkeepers at the gold mine, etc are beaten and then Violet has free access to Blue miners. Usually though this does not help them because Blue is secretive and deceptive, and the power of Violet is not well suited to dealing with them. For example if Violet threatens them, Blue miners might be more likely to run away rather than tell where the gold is. So just as Yellow killing off Red Orange to get to Red animals ultimately causes its own starvation so too does Violet need some form of Blue Indigo fringe to do business with. Typically then Blue Indigo evolves to be strong enough for strong business but not so much that either is driven from business.

For example if Blue Indigo is too strong in the case of the gold mine then Violet might be beaten, and not want to do business at all. Then Blue Indigo has to do business with Indigo Violet who are deceptive and secretive, which ill suits the strength of Blue Indigo unions, cartels, associations of shopkeepers, etc. Also Indigo Violet is ill suited for large scale transactions that Blue Indigo needs to find so they also find it better to not be too hard on Violet. Those that are too hard on Violet also tend to also go out of business, so typically Blue Indigo represents those not too strong or too weak for Violet just as Red Orange is not too strong or weak for Yellow.

Stability is not necessarily the best for everyone in Aperiomics interactions. If Blue and Indigo Violet have severe oscillations where one then the other is doing better then the economy can go through a series of destructive booms and busts rather than steady growth. These can benefit some people who can make profits from this chaos or random fluctuations and then retire or wait for the next period of instability. Instability represents opportunity for someone not succeeding with the status quo to do better if circumstances change, for example the disbanding of a union can give other workers a chance to get a job at a company. The collapse of a company can be good news to its competitors and even a severe recession gives an opportunity to smaller companies to grow faster in the recovery and dominate an industry instead of the former market leader. If Blue Indigo and Violet battle with destructive boycotts, strikes, embargoes, etc then this can also lead to booms and busts rather than stability which can benefit either side in the long run if they negotiate a higher or lower wage. The key to this dampening of oscillations as we shall see lies with the Indigo coordinators or marketplace just as the key to stability in Roy lies with the Orange Police.

Blue and Blue Indigo also represent the assembly line method. For example the production of a finished product can also be seen as the roots of a tree, with each part, improvement, job, etc coming from Green Blue private property. A car might start out as Green Blue raw materials like steel, silica, coal, oil, rubber, etc and at each point materials are owned by someone and worked on with property also owned by someone as opposed to being Green public property. For example steel, coal, silica, etc are worked on by Blue workers and then are combined together in Blue Indigo, much as in a tree where two roots merge their nutrients going upwards into a single root. A car might be seen as one unit like a root of a tree, but is composed of tires, doors, windscreen, motor, etc which each can be seen as roots on a lower layer being assembled together into the car. Then the tire represents the merging of rubber, rubber vulcanization perhaps, molding the shape, and so on, like roots merging into the tire root higher up. A windscreen represents the merging of silica melted into glass, a molding process, a purification process, etc. The process in Biv generally can be seen in this root structure where many Blue farmers, miners, etc getting resources from Green Blue merge these into a single product to send to the Indigo market.

In another example a fertilizer mine, an orchard and a tin mine might produce products seen as roots which merge into a single root of tinned fruit to go to the Indigo market. A wheat farm, a timber harvesting crew, a yeast factory might be seen as separate roots that merge their products together into biscuits in a cardboard box to send to the Indigo market. The merging of products into a new product is represent by Blue Indigo, this is like separate Blue workers joining together into a union to have more ability than the sum of its parts. Adam Smith gave an example of a single worker making a pin and having to do all the different parts of the process himself while in a Blue Indigo association of workers each part of the pin making process can be done by a different worker sequentially which is more efficient. They must work as a team, if one member of the pin making group decides to quit or ask for more money then the pin making stops. Instead the Blue Indigo group would ask for pay rises and settle disputes as a team which can be more efficient for Violet management then individual disgruntled Blue workers quitting at inopportune times. Splitting up the job is an Indigo Violet activity as Taylor founded in America and Henry Ford popularized. By breaking the job of pin making into smaller tasks they can be made more efficiently though this is not liked as much by Blue Indigo workers because it makes the job more boring. Once a factory as workers willing to break up tasks into smaller jobs like this then Violet can use their talent to recombine these tasks into new products, for example a pin making factory might make safety pins by changing the job of a small portion of the workers. Once the workers learn these skills they could work in another factory that made nails and screws and these would use similar materials and processes. Then that Violet management might see these workers and materials split up and recombine them into another related product such as knives, forks, spoons, wire, tubes, and so on.

In the example of the gold mine this can also be seen where Blue gold miners sell gold to Blue Indigo which might melt it into ingots, purify it to some degree though Indigo Violet agents might further purify it to different standards, standardize the size, mark it with a brand that has a reputation for honesty rather than an individual who can be secretive and deceptive and give all ingots a bad name. When these are sent to the Indigo market or sold directly to Violet jewelry makers it is better for them rather than having to haggle with individual Blue miners and being tricked by some of them. The Violet companies might also buy silver and platinum which are also refined and then recombined into different kinds of gold. So the Blue Indigo fringe can add value to Blue produce by merging different Blue worker products together to make something new, much as a scientist might write a paper improving or merging the ideas in two papers together to make a new idea. So just like in higher layers or root levels the ideas in papers can become more generalized, often referencing many different papers in different fields, synthesizing many ideas into one new idea. Then these ideas might be split into different ideas in Indigo Violet specialties, for example a paper on geology might provide information to mapmakers, those searching for gold in specific kinds of formations, those researching earthquakes around certain kinds of slip strike faults, and so on. Then the Violet scientists could combine some of these ideas into a new one, for example making maps of earthquake vulnerable areas, these new papers then go down into the Indigo market and are published, perhaps read by Blue scientists working on looking for gold in an area who now realize the area is dangerous to build gold mines in because of earthquakes.

Products become an amalgamation of many different Green Blue types of materials, being split up and combined until suitable new products are created. In nature a tree does something similar where some roots might be in damp ground and send more water upwards to Blue Indigo where the roots join together, other roots where there is more fertilizer send these nutrients upwards, another section of roots in rotting plant material sends different nutrients upwards and these are merged into a more standardized stream of nutrients in the upper part of the roots. These nutrients are split up more as they go up the tree into those more suitable for making leaves, flowers or fruits and then the energy from the sun allows them to be combined into new organic compounds which go down the tree and perhaps help to build more Blue roots to look for nutrients. These nutrients are traded like an Indigo market in the trunk of the tree because one part of a plant won’t give up nutrients unless it gets what it needs, if it does and dies from this then the whole plant suffers, is less competitive with other trees that don’t try and short change parts of themselves, and would be outgrown by others and likely die out. So the Biv plant model has little to gain from acting as Predator and Prey rather than making sure each transaction of nutrients works as a double win.

The merging of products can also form wholesale businesses in Blue Indigo. For example the gold mine might be near a tin mine, a wheat farm, a Sheep ranch, a cattle ranch, and a forest. So Blue workers might get from Green tracts of land they staked claims on as their own Green Blue property containing and growing gold, tin, wheat Sheep, cattle, and timber. These are then sent to the Blue Indigo fringe which might accumulate large amounts of produce to sell to Violet, which also likes to deal with larger amounts. Also there might be merged products like wool, dried meat, milk, lumber, sheets of tin, etc which can also be sold at the Indigo market. Because the Blue Indigo Violet market is larger, like wholesalers dealing with each other, this aspect of the market is for open dealing and larger quantities and prices that usually apply generally to goods generally. For example gold might develop a typical price which changes little and represents the beginnings of a market with larger sales, such as commodities markets.

When products need to be split up into other components this is done by Indigo Violet and Violet. For example wheat may be sold in the Indigo market and is split up into bran, white flour, and whole wheat flour which is used by different companies then resold back into market. A Blue worker may prefer white flour and another worker needs bran so each can buy what they want in this refined state. Bread can also be made this way, a Blue worker may grow yeast, another has cows and accumulates milk, another has hens to lay eggs, and still another grows grapes. These are sold by Blue Indigo in the market and are refined in Indigo Violet to make yeast for beer or for bread, milk is separated into cream for butter and for coffee, another makes skim milk, another makes powdered milk, another uses egg yolks, another makes powdered egg white, another makes grape juice, and another makes raisins by drying the grapes. Because these steps require a separation this is done in Indigo Violet, as more branches form these are like specialties of different businesses where for example a dried skim milk maker buys from a lower branch which separates cream from skim milk. In Violet businesses these can be combined to create a new product, for example eggs, white flour, milk and yeast might make one kind of bread and they could combine with the raisin drier to make a second product of raisin bread. These are sent down to be sold by the Indigo Violet agent in the Indigo market and then sold so that Blue workers might get the kind of bread they want. The teamwork of Violet is like that of Blue Indigo, where a Blue Indigo cooperative can mix products together from Blue workers such as different vegetables grown to form a large store there is a limit to the ability to refine products because neither Blue Indigo or Blue are good at splitting products up.

By selling these raw products in the Indigo market those good at refining and splitting up the produce can specialize in this, the Indigo Violet agents then compete with each other to sell them in the market which keeps the products improving in quality. This is the competitive aspect of Capitalism where Blue workers compete with each other to grow and find the best produce and Indigo Violet agents compete with each other to sell the most of the refined goods, if either is not competitive then they can move on to sell something else. Violet and Blue Indigo use cooperation to survive, Violet can put together newly refined produce to create a new product such as hundreds of different kinds of bread and produce can go up and down the tree being split up and joined into new products as often as is necessary to create what people want.

The other kind of market is where Blue deals with Indigo Violet and is more secretive with fast changes in price and might be more like a conventional stock market, with people keeping insider information to themselves, with fast changes in prices, deceptive advertising in the media about market trends, and so on. For example oil, and other minerals sold by Blue might have sudden changes in prices in a market with rumors, inside knowledge, deception, and might also have futures where people guess what will happen. On the other hand the Blue Indigo Violet market is more honest and open and deception would be usually illegal. Blue and Indigo Violet like Red and Orange Yellow survive to some degree by outwitting and deceiving each other so this is the nature of the secretive and deceptive side of the market and consequently those people who are most deceptive and fast thinking survive here. So this is also like evolution where those less successful in this business, for example by being too honest or trusting, might go bankrupt or join Blue Indigo, leaving the market evolving to be more and more secretive, deceptive and fast paced. Movements in both kinds of markets can continue to oscillate, forming more dangerous swings of booms and busts much as the battles between Red and Orange Yellow, and Red Orange and Yellow can continue to escalate until both sides suffer. So as in Roy with Orange these swings are dampened by the Indigo market, which attempts to balance the needs of both sides. One half is secretive and deceptive in Indigo Violet agents and the other is honest and team based with Blue Indigo so their deals represent a compromise between these two strategies.

In Blue and Blue Indigo, Policing usually represents some form of contract or property law rather than the kind of law in Orange. For example stealing someone’s property, time, failing to perform a job as promised, etc can result in financial or in some cases criminal penalties. Attacking someone might be seen as an invasion of their person as property, and the attacker might be forced to compensate them with money. So Orange Yellow stealing from Red might be seen by Orange as an assault and the attacker punished, and in Biv Indigo Violet cheating Blue might be seen as theft and property returned or paid for. So unless someone crosses the Green Blue line and commits crimes as Roy, offenses in Biv are property crimes.

### Indigo

As explained in previous chapters Indigo represents the marketplace, where Blue Indigo and Indigo Violet trade, just as Orange represents Police as a combination of Red Orange and Orange Yellow. The Indigo market represents then two kinds of markets, the secret fast paced negotiations of Blue and Indigo Violet, and the slow open negotiations of Blue Indigo and Violet. Indigo then allows Blue Indigo and Indigo Violet to trade with each other, Violet and Blue can also trade with each other directly. Blue Indigo has some goods it gets directly from Violet and Indigo Violet has some goods it gets directly from Blue so any color can trade with any other one, but because Blue Indigo and Indigo Violet have different strategies then it makes sense for them to have a place to compromise and work out deals in Indigo. Violet and Blue can also workout deals together but there is less point in going directly unless the Indigo market dominates too much and uses too many resources. For example as explained earlier Blue Indigo can be an agent for Blue and might be like a wholesaler with large amounts of inventory and an honest pricing structure. Indigo Violet can be an agent for Violet and be secretive and usually looking to buy or sell smaller amounts. When they negotiate with each other all different sizes and numbers of products can be catered for in a deal.

In the example of the gold mine there were farms nearby with wheat, ranches with cattle and Sheep, mines with tin, and those harvesting timber. Also there can be added those Blue people that deal with Yellow and Orange Yellow trappers of Red and Red Orange animals for their fur or meat. These Blue minerals and produce as said earlier might be bought by Indigo Violet directly and also can end up in a wholesale purchase in Blue Indigo for the Indigo market. Such a market is seen in modern cities where all kinds of primary produce and meats are available for shopkeepers to buy from, as well as wholesalers of lumber, metal ingots, etc to sell to factories.

Much of this is also resold to Blue so they see the Blue Indigo fringe as somewhere they can exchange one kind of Green Blue produce for another. For example a Sheep rancher might take meat or wool to the market and either sell or barter it for wood, cattle skins or milk. In a basic market then the Blue Indigo fringe provides a way for Blue to get the produce they cannot grow or mine themselves. This extends not only to a small village, but as it grows into a larger city and a nation such produce might travel from other cities with different Green Blue produce and minerals. This can also represent Karl Marx’s view of a Communist society where small cooperatives replace Capitalism and workers get the basic goods they want by bartering for them. The problem is this system doesn’t work well for refining and splitting up produce so goods don’t advance well technologically so Communist nations became very backward in this way.

Blue Indigo represents then the combining of goods together so that a buyer might go to one store and buy wheat, tin, gold, meat, milk, wool, etc, for a basic village or Community this may be all they need. Usually though there is a desire for an improvement of these goods which requires people with extra ability and this involves Violet and Indigo Violet. In the gold mine example these might be basic, for example a blacksmith, someone to cure skins and make them more durable, to preserve meats, to fashion tin or gold into utensils and basic jewelry, etc. These Violet artisans are similar to Blue in that they specialize in their work and don’t have the time to also be marketing it. They sometimes sell directly to Blue Indigo, who either resells it to the Blue workers or can also resell it in the Indigo marketplace, often though Indigo Violet acts as an agent for these goods. This becomes a problem in Red and Blue Communism because these refiners and splitters in Indigo Violet and Violet can make a profit and if their products are in demand can charge more and potentially impoverish the Blue and Blue Indigo workers as happened in the English Industrial Revolution as Marx saw. For example Indigo Violet might buy iron directly from Blue miners and sells it to Violet blacksmiths, who make horse shoes which are sold by Indigo Violet at the Indigo market at a profit, they may even have a monopoly and hold Blue workers to ransom for these horseshoes. Indigo Violet might buy wheat from Blue farmers and sells them to Violet bakers and then Indigo Violet sells bread at Indigo, the workers need bread and end up working for little more than a subsistence diet of bread where in a Blue cooperative they might buy wheat and make their own bread or porridge and save the profit that the bakers make.

This is similar to in Roy where Orange Yellow tries to get around Red Orange and steal from Red, just as Indigo Violet tries to get around the Blue Indigo fringe wholesalers and buy wheat directly from Blue and then charge high prices for bread. Orange Yellow as a deceptive Predator is similar to Indigo Violet as a deceptive businessman. In practice the Biv system is more self-stabilizing if the trunk of the tree i.e. the Indigo market is strong because the Indigo Violet agents must compete with each other to sell bread which brings the price down and cuts the profit Violet makes.

Blue Indigo tries to employ the services of Violet directly, to work for them on the raw materials so Blue Indigo can sell refined goods in their stores as well as raw materials and cut out the commission Indigo Violet would make as well as their deceptive ways of doing business. For example a Blue Indigo store might employ a Violet blacksmith to make horse shoes on the premises instead of having to deal with Indigo Violet. They might try and hire an architect to design buildings for them and so they can offer doors, windows, etc readymade for customers. They might have a baker on premises bake bread instead of having to get it from Indigo Violet and someone to refine flour instead of having to sell wheat. Sometimes it is better to go through the Indigo Violet agents because they compete with each other to sell more and this brings the price down, also new products can be offered to keep market share. A resident Violet baker might not make the best bread available and people could find going to the Indigo market they get better variety and cheaper prices.

It is often more efficient though for Blue Indigo and Indigo Violet to do business with each other instead of trying to cut each other out. In modern society there is often a chain of agents between the primary producers and miners, and those with the talent and ability to improve these minerals and foods, much like a food chain between the bottom as Red animals and the top as Yellow Predators. These agents often deal with each other and this makes the market more efficient. Indigo then represents Blue Indigo and Indigo Violet dealing with each other. Instead of the Indigo Violet travelling salesman coming to the gold mining town and selling or buying directly to the Blue miner, farmer or rancher they can also go to the Blue Indigo stores and buy this produce wholesale to take goods back to their Violet customers, then bring them back as refined goods to sell to Blue Indigo who sells them to the Blue workers.

This is similar then to Orange Policing which represented a mix of Red Orange defenders and Orange Yellow Predators, so Orange has the abilities of both and so can stabilize both Red and Yellow. The Indigo market as a blend and coordination of Blue Indigo and Indigo Violet also has the qualities of both and so has the power to stabilize the oscillations of Blue and Violet. In Roy when Yellow attacks, then there is a tendency for Red Orange to develop more and better weapons, to evolve stronger in nature as an animal and to escalate reprisals similar to escalation in wars. This is dampened in Roy by Orange holding Red Orange in check by promising to moderate Yellow through Orange’s associations with Orange Yellow. Often this is by Orange Yellow informants and by having Orange Yellow as part of the Orange Police and so they have more of an alliance with them rather than Yellow, which weakens them. So Orange Yellow might turn against Yellow and help to bring them down such as informing against the Mafia in exchange for a reduced sentence.

In the same way Violet might tend to deal directly with Blue Indigo, like Yellow attacking Red Orange, and Indigo tries to stop this by persuading Blue Indigo to deal in the Indigo market instead, where they moderate the activities of the Indigo Violet salesmen instead of them needing to be avoided as too dishonest. For example Indigo makes Blue Indigo stop going behind Indigo Violet’s back to Violet by persuading Indigo Violet to stop going behind Blue Indigo’s back to their Blue customers and so as a compromise they both sell in the Indigo market rather than escalate a trade war. This stops the market from collapsing, and oscillations of Violet Blue Indigo and Blue Indigo Violet trades making Biv unstable. So just as a strong Orange Police moderates Red Orange and Indigo Violet so too does the Indigo market moderate Blue Indigo and Indigo Violet.

In some cases Indigo can also oscillate or weaken just as Orange sometimes does when a Roy Color Code gets stronger. For example if Yellow is too strong in an Authoritarian society then the Orange Police become less effective because Orange Yellow is better off staying allies with Yellow to make money than informing on them and risking their retaliation. In the same way if Violet is too strong, such as in a Meritocracy where the talented command higher prices then Indigo Violet is better off going around Blue Indigo fringe wholesalers and buying directly from Blue miners and farmers because the Blue Indigo cooperatives have little leverage since they need the Violet refined goods so much. This is the scenario the Red Communists feared, like the Yellow Nazis or Imperialists where they thought they would always get a bad deal from Yellow they though that Violet talented people could always make too much money and there would be a rising inequality of wealth in society until it collapsed like a top heavy tree. However as Indigo Violet goes around the Blue Indigo cooperatives the Blue workers do much worse as Marx also saw and so would support their Blue Indigo unions and cooperatives even more until it was strong enough to overcome or balance the strength of the Violet talented people. So in effect the path Marx advocated of building unions and cooperatives to withstand the strength of Violet is part of what the system does automatically and his policy of doing this was itself the system creating people like Marxists to balance itself. Where he went wrong was in thinking this process was futile because Violet could never be balanced stably and the only solution was to overthrow them and have a Blue Indigo cooperative based community. The stability comes from the Blue workers also working with Indigo Violet agents who then divide and conquer Violet by picking the best and cheapest deals to sell which breaks their monopoly, just as the Orange Yellow criminal eventually brings down the Yellow Mafia to size by informing. Western countries overcame these monopolies by antitrust laws and making them compete in the marketplace while investigating anticompetitive deals.

Violet businesses can prevent Blue Indigo cartels from becoming too expensive in a similar way, they bypass these cartels and buy directly from miners and farmers, such as oil, coffee, sugar cane or beet, etc, stopping them from collective bargaining because Violet has more capital and can pursue the divide and conquer strategy for longer than individual Blue workers can, and so Blue and Blue Indigo also gets less money this way. This only tends to work when the Cartels are too expensive because Blue farmers and miners usually have little incentive to deal directly with Violet, and Violet finds it much harder to deal with individuals and small businesses instead of large Blue Indigo cooperatives. They may have to do this when their Indigo Violet agents are ineffective because of the Cartels such as with oil, then they try and find smaller countries and oilfields to sell more cheaply because they can sell much more oil. For example if the price of Cartel oil is $100 a barrel then small producers might sell for $50 a barrel if they have large quantities and can sell many times more oil than their quota would allow, giving them more money overall.

This is like a Right Wing dominated economy where workers get low wages but the higher parts of the economy like the branches of a tree are much wealthier, like with Roy economies this often causes a rebound against the wealthy over time as Blue people realize they need to organize and cooperate to get a fair share, they can also turn to Red Orange and have violent protests. In the Roy economy over time Orange rebounds through the regained strength of the Red Orange fringe as they evolve stronger, through the evolutionary pressures of the Yellow Predators. Eventually the Blue Indigo unions, cartels, shops, etc of this Right Wing economy learn to present a more united front and so Violet has to deal more with them in the Indigo market. Because the market has Indigo Violet agents who represent other Violet clients as well the Violet monopolies find they need to get their own agents and be more competitive to sell there, and so excess wealth drains out of Violet. So the weakening of Indigo can have a rebound effect that can hurt Violet in the long run as Blue Indigo tend to evolve cartels and unions by Violet not giving fair prices to Blue workers. Just as attacking Red and Red Orange builds up a Red Orange fringe stronger over time, so too do Red countries develop a Red Orange terrorist fringe to attack Yellow imperialists and colonialists in a country and often drive them out, get better prices for their goods, or nationalize the resources which is equivalent to converting them from Green Blue to Green or public property.

### Indigo Violet

A similar oscillation occurs when as in Roy, the Blue workers and their Blue Indigo agents decide to deal directly with Violet and cut out Indigo Violet, just as Violet tried to cut out Blue Indigo. So in this case the Blue workers might be like an oil or mineral rich country with a strong Blue Indigo cartel system and they see no need to sell on the open Indigo market to Indigo Violet and instead deal directly with Violet such as large airlines, refiners and shipping companies that use plenty of oil. This becomes like a modern Left Wing Biv economy where wages and commodity prices are high because farmers, miners, etc are well protected by unions. Because of this there is little opportunity for Indigo Violet to make secret deals with Blue and break the union apart, so Violet must deal with them directly.

A good example of this would be OPEC which is well protected by their cartel and the oil is sold on good profitable terms to the Violet consumers, such as oil refiners. OPECs cuts out the oil exploration companies who are Indigo Violet in this example, as Violet has to deal with whatever terms Blue and Blue Indigo are offering. So the Indigo market here is also weakened because Blue Indigo strength dominates it. A similar situation occurs when Blue Indigo unions organize workers in a Biv economy so wages are high and conditions for Blue and Blue Indigo workers are very good, with few opportunities for Indigo Violet to get cheap goods and labor. This is like in nature where Blue Indigo animals are like the strong fringe of a herd and capable of driving away the smaller Orange Yellow Predators and so only Yellow itself has a chance against them. So this might be like Foxes as Orange Yellow against Buffalo as Red Orange, an unequal contest. Saudi Arabia and other oil nations often sell oil in the futures market to small Indigo Violet agents to avoid powerful Violet speculators manipulating the price. For example a speculator might buy all the oil available for a given week and at the same time buy futures with the prices that would have prevailed if he had not cornered the market in oil that week. As this temporary monopoly forces prices up then he makes a profit in oil futures. By selling more oil directly in the futures market the oil prices were more competitive as agents on the futures market competed for much smaller amount of it, and the large powerful speculators like Yellow Predators had less influence. This is like Red Orange animals overcoming Yellow Predators and having a smaller threat in Orange Yellow Predators.

Over time this creates an evolutionary pressure, to make Violet stronger again and there can be battles between these speculators and the cartels like violent attacks in nature and wars in primitive societies. For example Blue and Blue Indigo dominate the produce and minerals of an area and by their unity stop Indigo Violet from getting good deals, and thus Violet such as blacksmiths, artists, bakers, etc have to sell their services cheaper. Over time this lack of pressure on Blue Indigo devolves their resolve because it becomes too easy and the Blue Indigo fringe becomes soft, just as the Red Orange animals devolve because the weaker animals are not being eaten by Yellow. This causes the Blue Indigo union to weaken and Indigo Violet starts to make headway with a divide and conquer strategy, buying goods to sell to Violet more directly. The Indigo market then starts to rebound because Blue Indigo cannot dictate the terms as much as it did before. In the oil example the small speculators in the futures market would start to break up the OPEC monopoly as member nations saw chances to make quick secret profits with these agents.

Yellow then evolves into a stronger Predator by the weak ones starving until it can take on the Red Orange herd again, Violet responds by improving its talent by the less talented people going out of business or becoming Indigo Violet agents, and this makes Violet finally more attractive to Blue workers and so they return to dealing more directly with Violet again, weakening the Blue Indigo cartel and the oscillations continue. So as with Orange weakening and oscillations in Roy causing blowback, weakening the Indigo market can be counterproductive because even if Blue Indigo or Indigo Violet become dominant they miss out on profits by not dealing directly with each other.

The Violet and Indigo Violet side of the market represents diversity, and making more and more different products. In the former Soviet Union the Red society was known to have few choices in products, the economy was more for combining produce and minerals from different parts of the country and Yellow and Orange Yellow Fascists, Imperialists and Capitalists who might have made a greater range of products were not trusted. When Communism ended, this diversity began to rebound partially with the rise of Yellow Oligarchs and Organized Crime in Russia, but also with the Biv economy producing different goods, different restaurants opening, fashions in Violet and Indigo Violet changing like the movements of branches fruits and flowers in a tree.

Products in the Indigo market then represent the combining of different goods in Blue and Blue Indigo, and the splitting of others in Violet and Indigo Violet so all possibilities of combining and splitting materials are covered. In a previous example a car can be seen as manufactured in Blue and Blue Indigo on an assembly line because it combines different materials and products into a single product or car. Part of this process though represents the splitting of different jobs like the branches of a tree. So branches in Indigo Violet might be like one man putting one screw in, and another man fitting a steering wheel, and another fitting on the doors. By specializing these tasks the assembly of a product becomes like a synthesis of roots and branches, the branches using talented people to create different kinds and shapes of windscreens, tires with different treads, different colored panels, and so on. The abilities of Violet and Indigo Violet become used together with the strength and determination of Blue and Blue Indigo to coordinate with each other, the prices each charges and the wages each receives determined by the Indigo market.

Often this harmony can be interrupted by oscillations as described earlier. So a Blue Indigo union might disrupt work so that workers get more money, and a Blue Indigo cartel interrupt supplies of Blue steel and rubber for higher prices, skewing the cost of manufacture to the roots of the economic tree so that Violet and Indigo Violet can make less money. This can then lead to a kind of war between Violet who wants more money against Blue Indigo unions, like the battles between Red Orange and Yellow Predator and Prey, and warring Fascism as Yellow and Communism as Red in politics. Also Violet can be like Capitalists in companies that make the refined goods, such as windscreens, tires, etc and charge higher prices for their expertise with a monopoly, and then this puts the squeeze on Blue workers and Blue Indigo union, often with Indigo Violet negotiators trying to break the Blue Indigo union so the Blue workers are divided and work for less money.

So the company as Indigo Violet buying the refined parts of a car from Violet tries to get around the Blue Indigo union so as to lower wages, in an attempt to keep the market working and make a car which is cheap enough for people to buy. If he fails negotiations may break down and the company fails, becoming then like Roy where the Blue workers become like Red being exploited by Indigo Violet companies now seen as Orange Yellow Capitalist carpetbaggers. Also the Blue Indigo unions start to see themselves as like Red Orange defending the weaker workers against Predatory Yellow capitalists. So the prevention of Biv companies breaking down is done by preventing these oscillations, and by using the stabilizing influence of the Indigo market because a car that costs too much will not be sold and so no one will get any money.

This becomes like in Roy where people in the Color Codes realize they need Orange to impose order to avoid the natural Predator Prey relationship and primitive warring tribes escalating dissolving to war and ruin. In Biv the Indigo market is like the center that holds everything together and people either negotiate in the Indigo market, go to court in the Orange justice system or if both fail then they avoid each other or fight.

In intellectual property there is a similar process of combining ideas together and splitting them apart. A musician in Blue and Blue Indigo might combine different instruments together into a symphony and an artist might combine different colors and paints together to make a painting. An inventor might take two ideas and combine them together to make a new one, such as combining lime, ash and gravel together to make cement. In Violet and Indigo Violet however ideas are improved by splitting them apart into different branches. So as a field of research grows it might be split into different branches of that science and these branches grow further and further part so that the practitioners of one no longer can interact with those of another branch. For example in biology different branches might study different animals, in geology different experts might specialize in certain minerals like oil geologists and iron ore geologists.

An invention such as concrete might be split into further inventions like branches in Violet and Indigo Violet. Inventions for making concrete walls might be different from concrete bricks, waterproof concrete, though they come from a common Blue root of cement as a discovery. Such inventions might be sold through the Indigo market where one company might own a broad patent for a Blue invention such as cement, and then other Violet and Indigo Violet companies own patents for many different improvements like branches, and they must negotiate with each other in the Indigo market to apportion royalties, or they end up in the Indigo civil court.

A science like geology grew for example by many different areas seen as Green Blue knowledge, which was combined as experts understood the common processes of formation between them, so it became a cohesive science. Also though there was a tendency for it to split into branches, for example that the study of oil formation was seen to have many things not in common with the study of iron ore, of gold mines, of volcanoes, and so on and so there needed to be different branches of geology to some degree. The growth then of intellectual property, whether the scientific papers covered by copyright and requiring accurate referencing in journals represents a combining of knowledge as common laws are discovered, and also the splitting apart into different disciplines and branches in Violet and Indigo Violet, and the two coordinate with each other by accurate referencing of papers, patent rights, copyright, and so on.

### Violet

As explained earlier Violet represents I Can or talent, so in a Meritocracy those who rise to the top are Violet. This is similar to a tree where some branches compete with others to reach the sunlight or be shaded by others. So in the same way Violet represents those successful in reaching the top and tends to overshadow the Indigo Violet talented people below. Usually Violet specializes in a smaller field just as with a tree the finer branches tend to grow the highest. This is because by specializing the Violet talent is maximized on a smaller amount of knowledge. For example in the medical profession there are more general branches of General practitioner and as one goes higher there are branches such as neurology, geriatrics, pediatrics, surgeons, orthopedics, and oncology. These can also have branches leading to even smaller fields such as in oncology specializing in different kinds of cancers. Violet has a team instinct while highly specialized they can work with other Violet specialists to combine this knowledge into new insights, this gives them their extra talent compared to Indigo Violet who are highly competitive but narrow in their outlook.

The same system of branches occurs in other fields. For example in architecture and engineering there might be specialists in bridge design, skyscrapers, tunnels, freeways, etc. So in smaller branches a Violet specialist has the opportunity to flower, bear fruit or otherwise have new ideas by combining other Violet specialties, this is like the leaves flowers and fruit of a plant combining their ability to make different organic compounds to send down the tree branches, which are then handled by their agents of Indigo Violet in the Indigo market. For example a Violet medical specialist might work for a large Blue Indigo hospital which standardizes treatment for Blue workers working with other specialists in a team to do operations while Indigo Violet specialists would work alone. He might also work as a private practitioner and market his services through Indigo Violet agents in the Indigo market.

An engineer has similar choices. He might work for large Blue Indigo companies that do construction work that is highly standardized for the mass market and doesn’t require an Indigo Violet agent. For example he might work on designs for cars, bridges, skyscrapers, oil derricks, etc that are built by large construction companies; he uses his talent to combine different ideas into something new. He might also have a smaller business and tender for jobs in the Indigo market where more diverse and smaller projects can be gotten, working for the people of the Blue Indigo fringe. In this way he is similar to the example of a musician or craftsman who has the choice of working for a large Blue Indigo record company or factory or selling more individualized goods and performances to the diverse Blue Indigo people. So an architect might design skyscrapers for a large Blue Indigo business or small house designs for Blue Indigo people. Blue Indigo also combines ideas together and so is more artistic and can appreciate Violet talent. He can also have an Indigo Violet agent who sells his services for contract work in the Indigo market, perhaps to other Violet businesses and so his talents combined with other talent there can create more new ideas and products.

Violet can also develop into a kind of Monarchy where the Blue blood of orthodox people is purified by unorthodox people being rejected, i.e. not marrying them. Then this purer Blue stock can flower into Indigo Violet and Violet artists, scientists, and also as an Aristocracy. Lower branches might become Earls, Barons, Knights, etc either according to a Meritocracy of being awarded such as a Knighthood, or they might receive titles based on family lineage and who is in line for what position.

So a Violet Aristocracy tends to naturally form in a Biv economy where there is a flowering of beauty, intelligence, talent, as talented genes are combined to give many new combinations and those that are not as good can move down to Indigo Violet as agents, their genes perhaps flowering into a Violet offspring one day. In France with their revolution this Violet Aristocracy was also seen as a Yellow Predatory system that oppressed the Red and Red Orange peasants and peoples with a network of Aristocrats all over Europe related to each other and supporting each other against the peasants, and so this Violet Aristocracy was overthrown, to form a Red revolution. So just as Yellow and Red Orange are enemies so too is there class warfare between Blue and Blue Indigo, and Violet and Indigo Violet. The refinement of Blue is seen sometimes as snobbery by the Blue Indigo fringe and Indigo Violet builds a secret blood line that flowers into Violet.

Genetically then there are many tree like strains of good genes developed by the purifying actions in Blue, in such as the arts, science, business, nobility and so on. Often for example someone highly talented might come from poor origins in Blue, where a family might go to great lengths to find suitable brides for their children and work to send them to a higher education so a family can be like a Biv tree itself, working in Green Blue with determination and sending their children higher in the economy to flower in a profession like science. Upward mobility is an important part of the Biv economy because the mobility is part of the nature of a tree, of sap rising and nutrients trickling back down to the roots. In Roy however there is horizontal mobility, and people tend to be trapped in class layers. For example Red finds it difficult to leave the flock or other people in their tribe or city because of attacks by Orange Yellow and Yellow criminals, even to travel from one Red village to another is difficult. For example small villages might have a Red Orange fringe of defenses including perhaps in ancient times a moat, castle, weapons, etc but travel between villages left them vulnerable to Orange Yellow and Yellow robbers. This enabled Yellow and Orange Yellow people to develop a good income and natural selection improved their talents for cunning and deception in Orange Yellow to trap the travellers or combining different ideas into a new Yellow plan such as robbing a more secure transport of money. For example an Orange Yellow thief might rely on hiding behind some bushes by himself and suddenly jumping a traveller or robbing them while they were asleep in a camp. A Yellow robber needed to form a team with different abilities to take on an armed escort, some might have guns, others to be able to open a safe, and others to use Orange Yellow informants to know when the target was coming and pay them off. In the Biv economy there is instead cooperation between Yellow and Red to become Blue and Violet, the robber becomes the robber Baron as a mix of Roy and Biv and finally a peaceful Aristocrat as Violet.

Violet interacts as said earlier with Indigo Violet who can be their agents, who can be less talented relatives. They also interact with Red which is adjacent to Violet if the colors are laid out like music octaves, here the note B is Violet and the note C is Red. For example the colors start at Red and end at Violet in Aperiomics, and then start at Red again then through to Violet, so the twelve colors can repeat in a line like this many times like the octaves on a music keyboard. Violet tends to relate to Red much as it relates to Blue, many of them might have been former Blue workers fallen on hard times and become nomads, on welfare or homeless people. Violet talented people often do charity work for Red people, this is like interacting with Blue people trying to do business that benefits both sides, getting them back into Blue employment so they are part of the Biv system again. For example lawyers might be required to work Pro Bono for the Red poor, also Blue workers that might be too poor to afford legal advice. Doctors might work in free clinics or travel overseas to help in poor countries. Wealthy Violet people might contribute regularly to charity, and it is quite common for charity to be a major part of their lives. For example in a Biv economy there are also Roy nomadic elements such as Red homeless and poor living in parks, often then Violet people work in soup kitchens, provide money for shelters, give money to beggars, and so on. As mentioned earlier this is similar to Violet grass, fruit, flowers, etc being used for the benefit of the Biv tree in nature but also to feed the Red grazing animals to complete the Aperiomics cycle.

If Violet fails to do this then it can make Red people desperate or resentful, causing them to rise up like in the French Revolution, to mug wealthy people or break into their homes. For example Biv is a peaceful economy based more on Indigo coordination than Orange Policing and so they are vulnerable to Roy criminals because so few Police cannot easily handle riots compared to a Roy country with secret Police and a large army to use against the people. So if Violet ensures Red peoples are fed by them sufficiently then there is less chance of being attacked and overall they make a profit because they are then allowed to do business freely and without fear. The Aristocracy in France and Russia normally would have fed and helped the Red peasants, rather than letting them starve, just as plants feed Red animals. Because they did not at various times such as the Russians using them for cannon fodder in World War One then these Red people evolved a stronger philosophy of Communism so that eventually they were strong enough to attack the Violet Aristocracy, and to develop an aim of making Violet talent subservient to manage their economy. These people saw the wealthy and Aristocracy as servants of the people, an attitude the Czar himself believed in, and so when they saw themselves ill served they created a state where they ruled and Violet people were more controlled to serve them, earning much lower wages than before. This is like Lenin’s saying, from those with the greatest ability to those with the greatest need, Violet people have the ability to help the poor who feel they are obliged to if they want to be left to enjoy their wealthy lifestyle. This is also like Red grazing animals learning to conserve plants that feed them well, for example they don’t strip an Acacia tree completely of leaves or graze on one section of grass until it is destroyed and move on to the next, instead they look after it because they expect to be fed by it later as it recovers. When a plant is not good to eat but in the way, such as a forest beginning to form around a waterhole then larger animals can knock down trees they have no interest preserving. The Red Communists saw American business like the post office as organizations that could be managed by the Red proletariat without the need for the Yellow and Orange Yellow imperialists and capitalists, and Violet talented people would be paid low wages and serve Red. To avoid this fate, Violet people try and contribute enough regularly to stay useful to Red.

So if Violet feeds Red too little then Red can either overfeed on Violet and damage it even permanently, or evolve to be stronger and so Violet cannot deny it money, charity, etc. For example if Violet leaves, fruits, flowers, etc are not nutritious or plentiful enough for Red then Red evolves to be able to eat more kinds of plants, sometimes even poisonous ones, those with thorns, etc. For example Giraffes evolved to eat the leaves of Acacia trees around the thorns which evolved to protect those leaves; some animals eat poisonous leaves and then eat clay which draws the poison out of the food in their stomachs. Eventually then Violet has to give part of itself to avoid evolving Red people to take it by force. The best strategy for Violet plants and Aristocracies, and talented people is to contribute to Red and so it prevents them evolving to be stronger. Plants in nature such as grass often thrive then by giving food that animals like and so they in turn avoid killing off the plant like a weed, grass has been highly successful with this strategy and few noxious weeds have done as well. Grass if overeaten usually rebounds because the Blue and Blue Indigo roots are hard to get to, it survives better by growing faster so eating the roots is not necessary. Biv economies that are overtaxed to feed the Red welfare state can usually evolve stronger if the Blue and Blue Indigo parts of the economy are sound.

Violet also tolerates Red feeding on it because they select plants that are more appealing, something that Violet has difficulty judging for itself and then help to spread their seeds by eating them and moving them elsewhere.

In the same way Violet businesses tolerate Red businesspeople, often part of secret societies and persecuted peoples, because their selection of what is good to take gives them feedback and helps them evolve. For example Red Communist countries used to take Violet inventions and refined goods and this showed Violet which ideas were valuable, also the building of defenses to this such as encryption, searching employees for taking secrets, watching for blackmail, etc benefited other firms by improving technology. An invention might be useful but not sell well in Biv because of a lack of research on it, being too expensive or too much competition but it being stolen by Red countries indicates it has innate value and cost is the main problem. Similar problems happen today with Red countries counterfeiting fashion goods and music; this creates seeds in these countries where some people want to buy the genuine item and is free publicity for these companies. Also these are sales they probably would not have gotten anyway because the people there could not afford to buy the genuine items. Another example is with software which is routinely pirated in Red countries such as China and Russia, hardly any genuine software is sold there. This helps to create a monopoly on operating systems for Microsoft and some people do buy the software anyway. If all this piracy could be stopped software companies might well be worse off because people often buy these programs later, IBM compatible computers gained more market share with open architecture and being easier to pirate software than the closed system Apple created. Like seeds of a plant spread by Red animals eating some of them and excreting others to let them grow and at the same time fertilizing them, programs and services given away for free get a large market share. This is now a major strategy on the Internet, search engines like Google started out as a free service and then advertising which is like Violet promoting its own attractiveness often encourages people to pirate more, and use free services with an option for a premium service which cost money and is in the Biv economy like Google Docs. Many companies use this model, of giving away their product for free and hoping enough people use it while they burn through their capital until a way can be found to get people to pay for premium services.

If Violet gives too much to Red then this is like vegetation being too plentiful and leads to an explosion in the numbers and demands of Red people, sometimes causing Blue workers to go on welfare. It then evolves a class of people as welfare recipients feeding off Violet, and they in turn form a larger class of Yellow and Orange Yellow people as criminals feeding off them. So usually Violet gives some money or gives of their talent for free, for example benefit concerts by music artists, to Red enough to stop them getting too angry but not enough for them to grow too large and overwhelm the welfare system instead of working. This can be a drain on the Biv economy with Violet and other Biv colors providing too much money who then protest where their money is being spent and evolve defenses against this such as a black market, defenses against break-ins like plants develop thorns, using weapons for self-defense like plants use poisons, etc. This can then cause the Biv economy to weaken, businesses to close etc under high taxation to feed Red people, which then causes Blue people to lose their jobs, join Red and so the oscillations of the Aperiomics system increase.

To avoid this Orange police restrict the growth of Red with their Orange Yellow component to look for welfare fraud, to chase away Red beggars, to put down potential Red riots for more money from Violet etc. So if Red grows too large the oscillations are dampened by Yellow and Orange Yellow growing to reduce their numbers much as Red animals are reduced in numbers by Yellow and Orange Yellow in nature. For example rain might produce Violet leaves in plants leading to a Red increase in numbers, which are then eaten by Predatory Orange Yellow animals to reduce their numbers again. The Red Orange fringe protects them to some degree but is overcome by Yellow Predators holding down their numbers. Then Red starts to reduce in numbers, starving because of the cyclical unavailability of food from Violet which has been overgrazed, and because of being eaten by more Yellow and Orange Yellow Predators. In the Biv economy Red people would get any work they can to survive because the welfare is running dry, this allows the Biv economy to recover and Red welfare to concentrate on the real needy. Most Blue people don’t need Roy welfare because social insurance can be done privately, for example people pay into a pension and unemployment fund whether private or government run and withdraw money for retirement and when unemployed. Even if they overdraw on occasion on the average the premiums in taxation as well as voluntary investments like annuities can be adjusted. Some people however cannot earn enough to pay these premiums even in taxation such as the disabled and mentally ill so Red welfare covers them to stop them taking money violently.

Chapter Five

# Marginal societies

A Biv system is one where relative abundance of resources causes people, indeed any living thing, to cooperate or compete. A Roy system is where a relative scarcity of resources makes it inefficient to cooperate and compete since some cannot afford to miss out, on food for example, so they act as Predator and Prey on each other. Some modern societies can be marginally Biv, and so there can be a mix of Roy areas where resources are scarce such as slums and ghettoes. Often there is a clear difference between societies, Communist ones were Red and Red Orange, Fascist ones such as Nazi Germany and Fascist Italy were Yellow and Orange Yellow, and very different from the Biv economies of the United Kingdom and the United States.

However even these were marginal societies in some ways. Nazi Germany still had some private property and businesses160F[[161]](#endnote-161), and Yugoslavia had some Capitalism under Tito161F[[162]](#endnote-162). A marginal society in Aperiomics then can be similar to the definition of margin in economics; some areas may have a sufficient surplus income and capital over scarcity to form a Biv society. When a society is rich enough there is little point for most people to be criminals, also when a country or area is too poor Biv Capitalism is less efficient than rationing, crime, and sometimes a dictatorship.

In a marginal society there can be isolated areas of the opposing system, for example small areas of Roy in Biv and vice versa. Some societies can be close to the edge of transformation from Biv to Roy, as happened to Germany with their hyperinflation leading to the rise of the Nazis162F[[163]](#endnote-163). Others can be on the verge of becoming a Biv society such as the fall of the Soviet Union and its transformation into a mixed economy. In these societies there is a confusing mix of scarcity and abundance, often it is hard to see whether the society will continue to prosper or collapse.

For example there might be Yellow crooks selling stolen goods into the Biv economy163F[[164]](#endnote-164), consumers shop there regularly and these goods circulate in the Biv economy some to be stolen again. Some parts of Biv may come to rely on this such as laundered money from organized crime financing legitimate business164F[[165]](#endnote-165). This can be overt such as the Yellow mafia taking over a Biv business and converting its Blue employees into Red prey by plundering the company165F[[166]](#endnote-166), for example running up large debts by not paying for stock and then taking the money. It might also be separated such as deposits by Yellow criminals of stolen or drug money into banks they have no control over166F[[167]](#endnote-167). Some parts of the marginal society may thus be in the process of conversion to Roy by Yellow criminals.167F[[168]](#endnote-168)

Another feature of marginal societies is where public and private property are changing from one to another. For example in the former Soviet Union168F[[169]](#endnote-169) and Great Britain169F[[170]](#endnote-170) under Thatcher there was a privatization of some housing and industries. This is represented in Aperiomics by Green as public land and Green Blue as private land. Other examples of this are with gold leases taken up as private property then abandoned back to public property when used up, and open grazers on publicly owned land conflicting with ranchers wanting to fence off the land as their own private property170F[[171]](#endnote-171).

Red people on welfare as well as government employees can be resentful of the wealth and talent of the Violet Aristocracy, Plutocracy and Meritocracy171F[[172]](#endnote-172) giving rise to the Red Communist slogan, from each according to his ability to each according to his needs. 172F[[173]](#endnote-173) This is also related to the ideas of Ayn Rand in Atlas Shrugged173F[[174]](#endnote-174) where Dagny Taggart sees government bureaucrats taking the ideas of the talented and advocates they go on strike. Violet people tend to act as a team and the idea of them going on strike is a reaction to Red Communism trying to enslave them. Red people tend to develop a Red Orange fringe of people who act collectively against the team attacks of Yellow Imperialism, the idea of Violet going on strike collectively is an extension of their team instinct and their similarity to Yellow. This is also like the desire for Biv plants to not be excessively eaten by Red animals, perhaps evolving poison174F[[175]](#endnote-175) and thorns. This can be like a collective response as thornier and poisonous plants become more common from overgrazing, pollinate each other so these genes become more widespread. Then grazing animals would eat the remaining plants without thorns and poison causing them to develop defenses by the defenseless ones being destroyed. When the Red animals go too far they tend to die off in sufficient numbers so the plants can recover, in this process the ones with fewer defenses regrow more because they spend less resources and energy on thorns and poisons that are now unnecessary with lower numbers of Red grazing animals.

Also Red can be envious of Violet’s wealth and demand payoffs and charity, which Violet people provide to some degree to avoid it being taken by force. This is like plants giving leaves and nectar generously so as not to be overeaten and rooted out by animals, for example elephants can knock down Acacia trees to get at their leaves because they protect themselves too much175F[[176]](#endnote-176) by growing taller, being knocked down kills the whole tree so protecting itself can be selected against for its survival. In the same way Violet wealthy people protect themselves from revolution, nationalization, punitive taxation and expropriation by being generous to charities176F[[177]](#endnote-177), and having a good image such as artists looking beautiful so the public want to preserve them. Plants that are good to eat are more likely to be looked after by Red animals, rather than uprooted, some plants are known to have medicinal properties to many kinds of animals including monkeys and are sought out when they fall ill177F[[178]](#endnote-178). It’s likely animals evolve to be careful with the environment and their food supply so as not to exhaust it and threaten their own survival, this would be from natural selection because animals or plants that didn’t learn or evolve the intelligence to do this would tend to die out or breed slower than other animals who did, like germs that are too deadly179F[[179]](#endnote-179). AIDS started this way, the strains that killed people too quickly to pass on the virus died out and weaker strains survived longer and propagated more to other people before the host died, thus germs become less virulent as epidemics progress and over time animals tend to look after their environment more until a balance between conservation and exploitation of resources occurs. For example an animal that conserves its food too well can leave food for one of its competitors; also a pathogen can stay virulent as long as killing its host quickly does not affect its chances of being transmitted to someone else180F[[180]](#endnote-180).

A marginal society can have areas which are relatively lawless, reverting to tribal or gang versions of Orange policing, for enable tribal areas of Pakistan181F[[181]](#endnote-181), gang controlled areas in the United States182F[[182]](#endnote-182), areas of Brazil183F[[183]](#endnote-183), drug lords controlling parts of Mexico184F[[184]](#endnote-184), and so on. Biv economics can break down in areas of scarcity, this can be from a lack of investment to create jobs and infrastructure, poor education leaves people without high paying job prospects, public works such as roads and electricity make it cheaper to get to work and build homes as opposed to the chaotic layout of many slums, alienation from being a separate race or religion causes people to cluster together and be shunned by others for employment or causing old racial tensions and wars to be replayed in another country, inadequate Orange policing because the wealthy don’t believe there is a need to police the slums because they are not threatened by crime that happens there, poor Indigo market coordination where it is difficult to get to shops and costs of goods are expensive because the job skills of people are poorly matched to manufacture the goods they want because of globalization, geographical isolation such as being too far from the main areas of civilization makes transport too expensive, lack of natural resources make the people unable to offer goods to exchange for the ones they need, and so on. Scarcity can lead to a Roy system forming or make it grow, for example a drought can make a farming area become more Roy, but it can also rebound back to a Biv system and vice versa. For example some neighborhoods can go through a cycle of urban renewal and decay as the economy booms and busts.

Russia has struggled to change into a Biv economy, much of this was because the Roy Red Communist, Yellow Oligarchies185F[[185]](#endnote-185) and organized crime were very strong with the Orange police weak and underpaid leaving them more vulnerable to becoming corrupt. This changed to some degree when Vladimir Putin186F[[186]](#endnote-186) came to power with a background in the Red Orange KGB, which made Russia into more of an Orange police State by pushing back against the Yellow mafia and Oligarchy. Putin had the support of some of the newly wealthy under Yeltsin and his background as Red Orange KGB would have brought support from some Red Communists, being seen also as a Red Orange strong man. His connections to Orange Yellow dubious businessmen under Yeltsin allowed him to find a balance between Left and Right. This allowed the economy as it developed more abundant resources and an Indigo market to establish itself with less criminal influence and more coordination between Blue workers and Violet management. Even so capital from overseas was scared off several times187F[[187]](#endnote-187), bank failures occurred with Orange Yellow fraud188F[[188]](#endnote-188), businesses collapsed from a lack of understanding of Biv business, and Biv shock therapy economics from America189F[[189]](#endnote-189) probably did more harm than good, substituting too much Indigo market coordination for situations that needed Orange policing. For example the market often resembles Yellow wolves amongst Red sheep in such circumstances; it coordinates the consumer being fleeced when they need protecting with Orange criminal laws against fraud.

A scarcity of education can make it hard for Blue workers to make good money, the temptation can be strong to turn to Roy war or crime as an alternative. In American ghettoes low education can cause young people to turn to crime, join the military or join a gang with only a few being able to finance higher education190F[[190]](#endnote-190). In Islamic countries there can be more incentives to go to a Roy religious school or Madrassa 191F[[191]](#endnote-191)rather than getting a Biv education such as engineering. Religious subsidies can also compound the problem by making Biv employment less lucrative, Saudi Arabia gives money to promote its version of Islam192F[[192]](#endnote-192) in other countries. Violet talented people living in Africa and South America sometimes need more education to be employable in the global Biv economy so they join or are abducted into gangs and militia193F[[193]](#endnote-193) as a way to make money by plundering with Yellow power rather than using Violet talent. A struggle for Yellow political power can be self-sustaining because they can control some of the scarce resources in a country with piracy194F[[194]](#endnote-194), kidnapping, diamond and other mines, receive covert aid from overseas195F[[195]](#endnote-195) for creating an army or attacking others, robbing villages and UN bases196F[[196]](#endnote-196).

A lack of public services can create scarcity in an economy and turn some areas into Roy. Poor bus and train services and poor Orange police security can lead to elderly and frail people being unable to work or travel197F[[197]](#endnote-197), losing assets by being preyed on by Yellow and Orange Yellow criminals, this can create unemployment and lower economic activity198F[[198]](#endnote-198) as scarce money needs to be spent on policing, locks on doors and replacing stolen goods. Lack of freeways, subways, train and highways can make it not economical to commute from some areas199F[[199]](#endnote-199), lowering their income and employment prospects and leading to Red welfare and Yellow crimes which like a negative multiplier makes less money from taxation available to improve roads. Building dams can bring water for crops and consumers to extended areas making a Biv economy where before resources were scarce such as with the Aswan Dam in Egypt200F[[200]](#endnote-200). Even investing in tourist attractions such as national parks can lead to Biv commerce. Hydroelectric schemes201F[[201]](#endnote-201) can transform poor areas such as in South America.

Alienation makes it harder to connect to the Biv global economy. India for example has a large advantage in speaking English202F[[202]](#endnote-202). Black minorities in America have faced prejudice since slavery and often collapse into Roy crime ridden ghettoes and projects203F[[203]](#endnote-203). Illegal Hispanic migrants in America there have a disadvantage economically204F[[204]](#endnote-204) leading to low wages, gang wars from competition in the drug trade205F[[205]](#endnote-205), a fear of Orange police because of immigration laws leading to lawlessness and reliance on gangs for policing206F[[206]](#endnote-206). People persecuted because of religion such as Judaism207F[[207]](#endnote-207) or higher crime rates such as African Americans208F[[208]](#endnote-208) can be alienated in business and become stuck in Roy ghettoes being on welfare, being perceived as thieves in business such as high priced shopkeepers in Red slum areas, turning to militant ideology209F[[209]](#endnote-209) with no opportunity to join Biv society and make a good income and so on.

Inadequate Orange policing can give Roy people incentives to attack each other as a way to make money, and this chaos can make Biv areas less efficient for business210F[[210]](#endnote-210). This can cause Biv people to see Roy Predatory strategies as the best way to live in that environment, and become criminals. For example honest Biv traders trading shares and selling bonds211F[[211]](#endnote-211) prior to the Great Recession would have seen Roy crooks212F[[212]](#endnote-212) defrauding people with no clear laws against it. Being honest would have placed them at a competitive disadvantage as they could not offer honest deals at a better price then a fraudulent one, for example with subprime mortgage bonds the ones with legitimate mortgages backing them sold for the same price as fraudulently packaged ones and few customers were interested in checking the mortgages behind them213F[[213]](#endnote-213). This is also the theory behind the Broken Window policy214F[[214]](#endnote-214) in New York under Giuliani. The idea was if Roy criminal saw evidence that Orange policing was ineffectual then it would encourage them to commit small crimes, and become habitual criminals or build up into worse crimes. The formation of Red Orange gangs causes Orange Yellow people to hide and run from them, this can lead to White Flight of Right Wing voters will others organize into their own Yellow gangs such as White Supremacists215F[[215]](#endnote-215). The resulting scarcity from Biv business being interrupted by crime makes the area poorer and with less money to pay for Orange police in a vicious circle.

Poor Indigo market coordination can lead to impoverishment of Blue workers and Violet management because supply of raw materials from Blue and the refining ability of Violet become unrelated to each other, this can lead to the economy becoming Roy. For example if Blue Indigo cannot sell its goods at market, whether produce from an cooperative or labor from a union then it loses money in storage, in disposing of perishable or obsolete stock, from workers losing their skills216F[[216]](#endnote-216) and so on. These people can then turn into Red Orange protestors and see themselves as persecuted and ripped off by the market217F[[217]](#endnote-217), which then needs more Orange police218F[[218]](#endnote-218) to handle demonstrations and increased crime. If Indigo Violet agents cannot sell Violet’s goods in the Indigo market then they can reach tipping points from having fixed outgoings of rent and wages but a variable and declining amount of sales and then go bankrupt. They may then need to become Orange Yellow thieves or fraudsters in business to make ends meet219F[[219]](#endnote-219) which leads to more Blue workers being ripped off when they are treated as Red Prey.

The American consumer underwent a decade of stagnant wages in the 1990’s220F[[220]](#endnote-220) partially because Blue Indigo unions were under attack221F[[221]](#endnote-221) which led to lower wages for workers who had to compete against each other as Blue. Airlines would go into Chapter 11 bankruptcy and break the power of their unions and repudiate having to pay pensions222F[[222]](#endnote-222), this caused their workers to not be able to bargain collectively as Blue Indigo. This led to other businesses needing to follow the same path to be competitive, General Motors for example was weighed down with unions and pension plans compared to Toyota223F[[223]](#endnote-223). Indigo markets were also under attack from naked short selling, perhaps destroying Bear Sterns224F[[224]](#endnote-224) and Lehman and triggering the Great Recession225F[[225]](#endnote-225).

Geographical isolation can make trade too expensive and lock an area into a small scale Biv economy or turn them into Roy, for example an area can be surrounded by other countries or areas with a better product for markets and so cannot compete. The Himalayas and Nepal for example would have disadvantages in trading similar goods to Pakistan because of their isolation leading to increased transport costs. Cities are normally founded and grow close to trading routes and harbors for example being on the Silk Road226F[[226]](#endnote-226) led to prosperity while others too far from it were much poorer, also the Aztec Empire227F[[227]](#endnote-227) benefitted from trade to the North and South.

In the Human Comedy Honore de Balzac constructed an ecosystem of humans, modeled roughly on natural selection by Charles Darwin228F[[228]](#endnote-228). He saw French society composed mainly of knaves and fools, in Aperiomics Orange Yellow can represent knaves and Red fools who each try and deceive each other. Roy society can be a vicious in a way that reminds us of the animal kingdom; Balzac often described it as where Red people seem gullible and being ripped off as a natural consequence of this. Others strive to rise in French society by preying on the weak229F[[229]](#endnote-229) until they reach high enough to be allies with the Yellow royalty, which is also strongly associated with Violet artists in his novels. We see Darwin awards230F[[230]](#endnote-230) yearly given for people who die in what is suggested to be foolish ways. The Orange Yellow excuse is that somehow Red people are stupid and have it coming, Darwinian evolution necessitates that the dumber people die off and mankind evolves a higher intelligence from this. This is also like Social Darwinism231F[[231]](#endnote-231) and the idea that weaker and less intelligent people should die off so the master race232F[[232]](#endnote-232) would be supreme.

No doubt Yellow lions in nature, dictators and royalty through history have believed this to some degree, that they are more evolved233F[[233]](#endnote-233) than the Red peasantry. However Aperiomics proposes a different view of evolution to this, that each color code has its own form of evolution, and Social Darwinian is only confined to one of these color codes. In fact the intelligence of people in the United States is growing faster than eugenics can explain, African Americans for example are now more intelligent now according to IQ tests than white people were in the 1920s234F[[234]](#endnote-234).

In Aperiomics Sexual Selection, also proposed by Darwin, drives many of the different evolutionary changes in different color codes. This may extend to lower animals as long as they are intelligent enough to realize that the mate they select will determine to some degree what characteristic then offspring will have, or they find one mate more desirable than another for some reason. Some birds have larger numbers of chicks and kill some of them to keep population numbers down. It is also known some males are more popular than others from mating rituals of birds in New Guinea235F[[235]](#endnote-235), this is an example of Violet where birds compete with each other like flowers where the most visually appealing gets a mate instead of the most powerful as in Yellow. Females of seals and many other animals are content for males to fight each other in ritualized ways, not to injure each other too much and be vulnerable to predators. So birds and larger animals recognize that some mates are superior to others. It would also follow that animals that can be this discerning can also notice that offspring of a father look somewhat like him, all humans even in primitive societies recognize this.

Evolution can then proceed in social ways in many animals, as well as natural selection according to survival. For example Darwin looked at finches with different beaks on different islands of the Galapagos236F[[236]](#endnote-236). He thought this would happen from random mutations of finches occurring, some being better suited to eating on each island and thriving while others did less well and died off.

However in addition to this if finches had a natural variation in their offspring then mutations would not be necessary, though they would still occur. For example most animals avoid mating with close relatives; this can also imply an instinct to vary the characteristics of their offspring. Darwin’s studies of pigeons in England showed they would be selected according to the tastes of their breeders into radically different looking birds237F[[237]](#endnote-237), such differences over decades could not be all mutations but are also where a breeder sees a desirable trait and puts together pairs of birds to increase those traits.

So if people can recognize these traits then perhaps animals can do so as well. This also explains some of the notions of Lamarckism, the discredited belief that giraffes for example could pass on longer necks in their offspring by striving to reach higher branches themselves. Assume then animals at some level of evolution prefer mates that have variations rather than needing mutations in their offspring, this can be seen in any human family where different gene combinations create children who look different to each other. This could occur by seeing variations in the proposed mate’s relatives such as with gorillas or chimpanzees and picking which one they preferred. Other herd animals such as Red zebras and gazelles would see many relatives of potential mates but here the dominant male is selected instead by a ritual combat.

Also a female or male may notice a prospective mate has many differences to themselves or memories of their own parents and this reinforces the drive to avoid mating with animals too similar to themselves. It may also be animals recognize that in harder times it is better to mate with animal less like themselves, recognizing that it is not doing well so offspring with changes would be better. For example a monkey a see another monkey that has learned more skills and realize its own offspring could have those skills. If offspring from one male are unsuccessful or undesirable the female may look for a different mate, implying they understand that characteristics of the parents are passed on to the children. Such instincts need not be more complex then what we see, such as Lyre Birds imitating sounds or birds building nests of trophies238F[[238]](#endnote-238) in New Guinea to sell their attributes to prospective females.

Once there is a variation in the offspring then animals may be able to move this variation towards what traits they wished they have. A dominant male may have females accept combat between males because they sense their male offspring may have a better chance of being the dominant male this way, otherwise females might refuse to mate with the victor and the contests would die out. So the desire or instinct of animals to have variations in their offspring can supplement Darwin’s mutations so here a supplementary kind of Sexual Selection, can cause some traits to become more common and others to die out.

With the finches in the Galapagos the males or females may have seen variations of beaks in other’s offspring. From their own experience they may have recognized that a prospective mate had a better beak, more suited for vegetation than their own. If they understood their offspring might have this better beak or simply found it more sexually desirable then new beaks would evolve to fit the vegetation. Ravens can learn from each other how to use twigs to get insects out of logs, so birds can envy another’s abilities and also mate with the ones most talented. With Bowerbirds females visit several nests to compare the male’s displays and pick the one who has the best collection239F[[239]](#endnote-239). The appearance would be of Lamarckism as if birds had transmitted their desire for better beaks to their offspring. It would also look the same as mutations of beaks occurring and less successful variations starving.

This could allow evolution to occur quickly at some times and account for short bursts of rapid evolution in some fossil records240F[[240]](#endnote-240). It can also account for slow evolution as variations in offspring might still take a long time to occur and may need to rely on mutations. If animals don’t feel the desire to accept particular traits in offspring than evolution would stall, a desire for conformity might lead to parents rejecting offspring that are too different and not select mates too unlike themselves. A dominant male who wins contests with other males may increase similarities in the herd as more are related to him. The next dominant male would give another term of genetic sameness of offspring and the nature of winning contests would lead to a sameness of the optimum traits such as horns for this, leading to an evolutionary dead end. A variation in males might need one to occur with much better horns to pass these genes to the groups but this is again in addition to natural selection. Since these horns are usually not suited for fighting predators, survival of the fittest does not seem to be evolving these horns. The fittest in a sense are the ones the females accept, or perhaps the females are defenseless to resist the dominant male or resistance to males has been bred out of them under this system.

From this a combination of natural selection and sexual selection occurs differently in each of the twelve color codes. This leads to twelve types of life forms, and fixed ways they can evolve in relation to each other. For example Red female animals when surviving in enough numbers have little incentive to select males that resist predators better. If this survival becomes problematic then they may decide to mate with a male they see is better equipped against predators rather than the one who beats other males in combat.

Sexual selection goes on like this in humans; we often select mates that will have desired traits in our offspring so we are in effect evolving ourselves according to our own tastes as well as with Natural Selection. Genes for being talented at making money are passed on by women looking to marry a rich man to have a wealthy family; this is no so different from a female bird looking for a male with a more efficient beak to have offspring with those beaks. Increases in intelligence among humans as well as our becoming taller can occur by women looking for taller men or seeing intelligence as a trait desirable in her children, as well as her finding them sexually attractive or their being more able to keep children safe and well fed. If gangs are successful in an area then a woman may prefer a gang member as a mate thinking the children have a better chance for success in a gang and that stronger children would look after her later. The twelve color codes then select all living things to classify into these types. Animals and plants then physical laws create these twelve types, if evolved enough then sexual selection also acts to reinforce these twelve types otherwise natural selection creates the same twelve color codes.

In a marginal society there can be an uncertainty as to whether public or private ownership is most efficient. When resources are abundant private property makes more sense, because people can divide this abundance up into sections, competing with each other for a larger piece, or cooperating together to distribute resources fairly. However when resources are marginal people may decide to use a Roy strategy of Yellow predators in a gang or mafia cooperating with each other to catch prey, or a Red Orange strategy of cooperating with each other to protect themselves as vigilantes or Neighborhood Watch. They can also use competition as an Orange Yellow strategy and work alone or in small groups secretly and deceptively to rob Red people. These Red people use a similar strategy of hiding and scattering when in danger to protect themselves. Privatization and nationalization become controversial when private Biv enterprise either doesn’t want to do a business or does it badly, such as bus services to poor Red areas, and health insurance for those with a history of illness241F[[241]](#endnote-241). The government may step in and take over businesses like these, they become Roy public property and the community manages them as a whole. Generally when resources are scarce the Roy system is more efficient, for example most Western countries run public transport because private companies tend to only pick the most lucrative routes and leave other people without buses and trains. Conversely when resources are more abundant or there is not a part of the society with scarce resources that must be catered for then industries are privatized into Biv, for example car companies because poorer people can take the bus or a taxi242F[[242]](#endnote-242).

Mining leases in a marginal society may also be of marginal value, prices may change and they are not economic, and return to Green public ownership. Governments may even take them over to keep people employed as with coal mines in Britain because power can be a scarce resource for many parts of society243F[[243]](#endnote-243). Subsidies to Biv industries may approach Roy ownership such as in farming, renewable energy such as solar, wind and ethanol subsidies in America. This is usually a reaction to Roy scarcity of resources, sometimes capital in the case of solar energy and farmers can have droughts which make for scarcity. The virtual nationalization of General Motors and much of the financial system244F[[244]](#endnote-244) in America and Britain in the Great Recession was because of a scarcity of capital and customers from the sudden recession, though often fraud was responsible for this. With this scarcity a temporary Roy solution is public ownership and then to privatize these companies when resources become abundant enough for the Biv economy to handle them.

Generally insurance doesn’t work well in the Indigo Violet versus Blue and Orange Yellow versus Red parts of the economy because it is by nature statistical and spreads the risk among many people and companies. These colors however are competitive by nature rather than cooperative which is the idea behind insurance, to spread risk among many people acting honestly. Instead people in these colors compete with each other often by being secretive and deceptive; they prefer to take advantage of the misfortune of others rather than their being protected from risk by insurance. They are more likely to be deceptive with insurance such as malingering from injuries covered by insurance or falsifying reports to insurance companies of stolen goods. Instead they rely on competing to recover quickly from an accident; they can also use insurance to make money such as the manipulation of AIG Credit Default Swaps by many financial companies insuring deceptive subprime bonds245F[[245]](#endnote-245).

There are two competing forces in these situations, the randomizing effects of insurance which spreads the risk from unrelated accidents and the chaotic effects where one event causes another to occur as in falling dominoes leading to tipping points and collapses with fast regrowth. When there is too much chaos such as the short selling which may have brought down Lehman then insurance cannot cover these related events. For example many companies may insure against their domino falling and the premium on the Credit Default Swap is based on one falling domino not affecting other dominoes. However of one falls and knocks all the others down then the premiums are likely to not cover this situation as happened with AIG. This is the problem with securitization, credit default swaps, and derivatives because most contracts are done in Indigo Violet and Orange Yellow secrecy instead of Yellow and Violet transparency and no one knows accurately whether the counter party to a transaction can withstand a financial crisis like these falling dominoes246F[[246]](#endnote-246).

Secrecy is essential to these color codes but it also creates rapid growth and a tendency to collapse. An example would be a forest of trees that try to grow quickly and beat each other to get their share of sunlight at the risk of being too fragile to survive a storm, the ones who win this race then form a cooperative as Violet to overshadow the other trees with a permanent advantage. However overshadowing and destroying rivals is not compatible with relying on them to save you with insurance when there is an economic storm. Indigo Violet capitalism by its nature reduces its reserves against recessions and uses high leverage to win or collapse, the overall system works because usually only a few are collapsing at a given time, others buy out the failures while those that failed quickly try to regrow. This chaos is balanced by matured plants that use randomization to protect against these disasters, growing stronger with more complex branches and leaves while being propped up by neighboring trees so in a storm this is like insurance where they cooperate instead of compete. This balance of cooperation and competition when disturbed can cause economic problems, too much competition can cause collapses but give good growth rates, too much cooperation can prevent collapses but give economic stagnation.

Insurance in Violet and Yellow businesses needs to counterbalance these tipping points and chaos by giving them the resources for regrowth. Insurance fraud such as what bankrupted AIG can make insurance part of a competitive edge, by defrauding insurance a company can do better than its rivals and so the others must defraud insurance to compete. Trees have a balanced strategy, use leverage when growing to beat its rivals while risking collapse because other seeds from its species can grow in its place. A company in the Indigo Violet phase should compete strongly and take risk because being overshadowed by a successful rival will probably cause collapse or being taken over later. When a company grows large enough to win this competition it goes into the Violet phase where it cooperates with other winners to form a kind of cartel or monopoly which puts the smaller competing companies at a severe disadvantage. Unless one of these Violet companies fails, the equivalent of a large tree falling and giving seedlings the chance to grow large and fill the gap in the canopy, the smaller Indigo Violet companies become agents of Violet, aim to be bought out or they collapse into the equivalent of humus or fertilizer for Violet companies who buy up their assets cheaply.

The large companies ally with each other to provide a uniform shadow so the forest floor or where new companies start has a permanent disadvantage. Preventing this from happening will allow more small companies to compete and collapse producing more innovation, this speeds up the evolution of products in Biv capitalism which is why Antitrust247F[[247]](#endnote-247) laws can benefit the market. For example Google reached an overshadowing effect on the search market, consumers saw no reason to give most other search engines a chance248F[[248]](#endnote-248). Company with a technology competitive to Google usually to aim to be bought out since the expense of being a public company is often too great249F[[249]](#endnote-249), and as they burn through their capital with fast growth they face collapse without funding. A similar situation occurs with social networks; currently Myspace and Facebook dominate the market and in combination overshadow most of the competition. To succeed a company has to find a way through this overshadowing with a distinct idea such as twitter or be bought out.

Smaller companies must make compatible apps for these larger Violet companies, in effect acting as Indigo Violet agents, and try to find a business model, i.e. a way to sunlight and visibility by consumers, or be bought out before they burn through their capital and collapse. Antitrust law is an attempted solution to this, the equivalent of pruning large trees in a forest to let others grow but can also remove the stability that teams of Violet businesses provide to the market, such as the Chaebol250F[[250]](#endnote-250) in South Korea and cross ownership of share in Japan and Germany251F[[251]](#endnote-251). Other cooperative laws can reduce the competition between Orange Yellow businesses and reduce the chances of collapse, but they also remove some of the ways they grow, by taking over failing companies and getting their assets and ideas cheaply. For example minimum reserves held by banks, limits on leverage for stocks, and restrictions on short selling will reduce collapses but allow less competitive businesses to survive252F[[252]](#endnote-252). However the urge to become Violet and overshadow others will continue, this is a strategy to induce collapse in businesses to get their assets cheaply, so propping up these smaller companies can be futile because the Violet canopy of companies above them can prevent them from recovering. It may be impossible or even undesirable to prevent Indigo Violet failures in the long term; it is innate in Violet to win by overshadowing and may eventually find a way around any laws to do this.

Other examples of hybrids of Green public and Green Blue private businesses are power companies such as in California that were publicly Roy regulated, this made them uneconomical when confronted with unregulated secretive and deceptive companies such as Orange Yellow Enron253F[[253]](#endnote-253). So if a hybrid business of Roy and Biv is set up it can be competed with by both Roy and Biv businesses. Biv businesses will use their advantage of less regulation in the Indigo market whole hybrid companies can also be regulated by the Orange police and courts. Roy businesses in competition can use public funds and a monopoly from the state which can cause hybrid businesses to collapse in competition. For example a state owned airline254F[[254]](#endnote-254) in competing with rival privately owned airlines could be given favorable government treatment and competition would be penalized if it became too successful. Oil companies are another example, a country may allow Biv oil exploration but if a large find is made or the country is poor then they may nationalize it255F[[255]](#endnote-255) or require the oil companies to work with the Roy state owned one.

The issue of deregulation of hybrid businesses represents a change as resources become more scarce or abundant. A more prosperous Biv economy chafes at Roy hybrid regulations and wants the Indigo market to run things more rather than Orange police. The reasoning is in prosperity people will cooperate and compete so that both parties benefit in a positive sum game rather than act as predator and prey as they do in scarcity. If this leads to scarcity because too many criminals took advantage of deregulation or decriminalization of some business transactions then Orange police get more power and new regulations with penalties are added256F[[256]](#endnote-256), which restrict Indigo market coordination. Some businesses are hard to categorize as Roy or Biv because though they make good money which is a sign of Biv abundance they can cause Roy scarcity if they damage the economy and some transactions can be predatory. This is similar to the issue of decriminalizing marijuana, for some people it is a victimless crime and the Indigo market should coordinate sales of it, for others they can be hurt by it and they need Orange police protection. Railways in Britain are an example of Roy ownership becoming a hybrid model with Virgin257F[[257]](#endnote-257) owning them with Roy public regulation. The results according to some are mixed perhaps because railways have a Roy public interest to help the Red poor, and Biv business tends only to give service to those who can pay in full because an abundance of resources is presumed to exist in Biv society. Another example is where privatized power companies in American didn’t spend the money to maintain the power lines leading the massive blackouts259F[[258]](#endnote-258) .

A hybrid organization or business not only changes according to whether Roy or Biv are most efficient but according to the relative influence of the color codes. Yellow dictators and strong men might partially nationalize a business if there is wealth to be gained by this. One example would be the formation of Aramco by partial nationalization so more money would flow to the Saudi royal family260F[[259]](#endnote-259). Royal families are usually Yellow since they become dominant by being ruthless, preying on weaker tribes, and so on.

Nationalization can also occur for Red socialist reasons such as Venezuela taking over much of its oilfields and warring with private oil companies261F[[260]](#endnote-260). Orange influences can cause private businesses to be heavily regulated in a hybrid model, such as Microsoft in Europe being fined for monopolistic practices262F[[261]](#endnote-261) and having to open up its operating systems to other browsers. American countries with less consumer protection regulation often have to comply with Orange laws in other countries. Some countries require overseas companies must set up a local business partially owned by citizens and favoring local workers over people from the company’s country.

Hybrid businesses can also occur where a Roy state owned business is partially sold off or floated onto the Indigo stock market. This privatization can come about by Violet talent presenting itself as better able to make profits compared to the Yellow government ownership. Even Roy armies can feel pressure to privatize such as the rise of Blackwater contractors in Iraq263F[[262]](#endnote-262), Halliburton providing logistical support, the CIA using private contractors, and so on. This can also be from Violet pressure, of businesses sometimes using political influence to secure lucrative contracts264F[[263]](#endnote-263). Privatization of public schooling follows two paths, private schools run for Violet talent such as Harvard and Yale, others in Blue working class areas often run by religious organizations such as Catholic schools. Biv private schools seeking to compete with public schools in a for profit model have been advocated by Milton Friedman265F[[264]](#endnote-264).

Prisons also operate as a hybrid in the United States, where Violet companies try to run them for profit266F[[265]](#endnote-265), sometimes with corruption as a result. Indigo market coordination sometimes weakened Orange policing resulting in corruption and trying to incarcerate innocent people and keep them for longer than their sentences for profit. Faith based charities can run a hybrid business with Roy government financing along with Biv private donations267F[[266]](#endnote-266) to help Red welfare recipients and make them into Blue workers, also to help Red refugees. The right mix of Roy and Biv in organizations may well be impossible to determine, to improve Indigo market coordination an amount of Roy crime is often tolerated and if too heavily Orange policed then there can be too much Red tape.

In a marginal society the peaceful nature of Biv interactions can be broken up into dog eat dog Roy behavior when resources become scarce. An experiment done with budgies illustrates this, when there are few nesting places instead of cooperating they will fight each other for the nesting boxes and sometimes kill the eggs or chicks in another’s nest to take it over. In the same way a marginal neighborhood might have some Blue areas as workers and a fringe of Blue Indigo areas, usually deviates from the conformist normal of the Blue people in the neighborhood. Other areas might have Violet talented people such as doctors and scientists and surrounding them can be cheaper areas with Indigo Violet agents and others who compete with each other to move to a better area.

As an area starts to decay some of the Blue areas become Red welfare recipients and nomadic homeless people. This can place a strain on the Biv economy to pay for welfare; crime usually increases as these people steal by secrecy and deception such as robbing wealthier Violet houses. Blue Indigo areas can start to include Red Orange gang members because they find their team instinct can be used to get money by force as resources become scarce. Successful Yellow criminals become more common as Violet talented people find they cannot make money honestly and use their team instinct to form organized crime connections such as dealing drugs. They then can afford to live in the better areas among Violet, who feel threatened by this. Violet homes start to defend themselves with walled communities, patrols, alarms, and weapons particularly against roving Red homeless people and the poor which brings them into an alliance with Yellow organized criminals to protect the neighborhood. This is like plants that defend themselves against being overeaten by evolving poisons, thorns, being taller and leaves harder to get to like a high rise building. Agents who live in Indigo Violet areas would see Orange Yellow petty or less successful thieves along with dishonest salesmen moving in, and with legitimate sales drying up they are tempted to sell scams or commit fraud. Orange police step up their patrols, before police in these areas would have been rare as the Indigo markets coordinated employment so people didn’t need to steal and shops in the neighborhood along with charity stores would help most people in need. There can also be pressure to form an Orange police state instead of an Indigo democracy, such as a Yellow Right Wing Authoritarianism268F[[267]](#endnote-267) or Left Wing Communism.

There would also be more distrust of neighbors with Red and Orange Yellow people using secrecy and deception to steal from each other. As Biv businesses and families fall apart it is like trees collapsing and this leaves a lot of debris such as housing goods, clothes, broken down machinery and cars, this would normally be recycled to the poor and other businesses with auctions and second hand stores. Biv businesses are used to Blue workers profiting from Green Blue resources such as farming and mining, so there are customers for their refined goods. Red welfare recipients are harder to make money from unless welfare becomes a resource for businesses to profit from, many shops respond by become Orange Yellow predatory. They charge higher prices in a ghetto like area and in return Red people shoplift and Red Orange gangs sometimes rob the stores. They may have to pay protection to Yellow organized crime and also to Red Orange gangs.

Blue people in Biv society tend to compete with each other and when resources are abundant this competition rarely impoverishes anyone. As the neighborhood decays they can become Red people, often former associates of Blue workers who continue to ask favors until they receive no more help. Charities can be run dry one by one as groups of Red people overwhelm their resources, sometimes deceptively taking more than they really need. This is like Red herd animals eating from plants and eventually uprooting them and eating the Blue roots. Red former workers can overwhelm the competitive nature of Blue workers, Blue will pretend to have no money and cut off friendships because they don’t help each other as a team Like Blue Indigo and Red Orange people do. Red Orange can cooperate with each other, as seen in the book Gang Leader for a Day269F[[268]](#endnote-268). People in the projects in Chicago shared their food and helped each other to survive with the gang an integral part of this, much like Red Orange herd animals do. Others were Red and competed with each other, stealing particularly when addicts. There is then a tension between Red people who compete with each other, are secretive and deceptive in poor areas and the Red Orange people who act as a team whether in gangs or as friends and help each other.

A reviving neighborhood goes through this process as well. Examples are seen when new businesses start up in a decayed industrial area such as former steel and car manufacturing. Red welfare recipients and homeless people start to get Blue jobs again, and their competitive nature brings down wages until businesses are profitable. Red Orange gangs that protect Red people go back to work usually in a trade union. Yellow criminals start to find that money is easier to make in legitimate business without the chance of being arrested and Blue workers make profitable customers now that resources are more abundant. Yellow loan sharks might go into legitimate financial services instead such as pawn shops and micro loans270F[[269]](#endnote-269). Talented Violet people again see opportunities for rising higher in the Biv economy and using their Yellow connections to form an organized management structure like a cartel instead of a mafia. One example was a member of the gang in Gang Leader for a Day who was studying accounting as well as doing the accounts of the gang, once he had a chance he intended to become a legitimate accountant. The gang also required its members to go to school to give them a chance in the Biv economy. Orange Yellow fraudulent salesmen find in the improved economy that honest Indigo Violet selling is more profitable and switch to more honest products. With less crime less Orange police are needed which means Roy tax is less a strain on the Biv economy, and so on.

Biv businesses are like trees so the economic decay of a recession can cause sudden collapses of businesses and layoffs. Many people would be unprepared for this despite the cooperative insurance nature of Violet management and Blue Indigo unions; this support network allows them to ride out random fluctuations in the economy by helping each other. Indigo Violet collapses with the increased competition as resources get scarce, as they approach these tipping points other Indigo Violet companies see this as an opportunity to increase market share. With Blue workers as well there can be the need to sell assets such as homes and furniture, other Blue workers can use this as an opportunity to profit from their neighbors by going to garage sales, making low offers on advertised goods, and so on. So an economic downturn is an opportunity for some to profit from the misfortunes of others, and companies in better shape in this shakeout have a chance to grow larger by buying out their competitors, head hunting their best workers, buying up property in bankruptcy or forced sales, dropping prices to force their competitors to go broke and so on. The failed companies then act like fertilizer for Indigo Violet and some can prosper in this time as with plants in nature, for example after a bush fire many plants have an opportunity to grow quickly with no plants above them taking the sunlight and fertilizer is abundant with the ash of other plants. Some prepare for these fires because with natural selection those who can take advantage of this and other natural disasters such as high winds or floods killing plants will dominate later. In the same way Blue workers can have a chance to make more money by taking over a farm or mine that runs into financial difficulty, or when they start to recover good jobs will be available and there will be intense competition to get them. For example in the Great Depression whenever companies were hiring even for temporary jobs there was strong competition for them, others in Blue Indigo unions were more secure with the strength of their numbers but sometimes the Blue workers could replace the unionists as scab labor. So as Indigo Violet and Blue reach tipping points in a partial economic downturn this is like the branches and roots of a tree collapsing which can over time bring down the Violet foliage and the upper root system, which makes it harder for the plant to regenerate later.

The economic shocks can lead to a flight of Indigo Violet and Blue capital, small investors start to see the Indigo market as lacking enough Orange policing and see Violet management as Yellow crooks and Orange Yellow fraudsters. This can lead to hiding and scattering behavior of money and their owners, for example Blue workers hiding money in their mattresses in the Great Depression because they saw banks as Yellow predators. Sacred money is a common occurrence in these times and was particularly seen in the Great Recession as money fled from failed investments looking for a safe harbor, which is like Red and Orange Yellow animals fleeing from danger. Often these problems could be alleviated if people organized and worked as a team rather than selling and running with their money but Indigo Violet and Blue don’t cooperate with each other as much, rather they compete and make money from taking advantage of others. This can lead to a liquidity trap where investors cannot organize themselves to rebuild the Violet and Blue Indigo parts of the economy where wealth can accumulate and ride out the random variations that scare off Indigo Violet and Blue. This is why adding liquidity during the Great Depression and Great Recession did not help much, because people didn’t support each other but rather sought to rip each other off even more to get ahead. In the Great Depression JP Morgan271F[[270]](#endnote-270) and other companies formed a kind of cartel where they helped each other, as this fragmented from Indigo Violet investors fleeing then this brought down the system of cooperation at the top of the economy which then had to be slowly rebuilt. In the same way companies such as Bear Sterns, Lehmann, Goldman Sachs and Morgan Stanley usually loaned money to each other and formed a kind of cartel but in the panic of the Great Recession they became suspicious of each other, saw opportunities to take each other down and profit from buying parts out of bankruptcy, and also saw the chaotic domino effect where one company falling could take down the next one which made their money hide and scatter. Banks did not trust each other because so money turned secretive and deceptive, so TED Spread272F[[271]](#endnote-271) rates grew. This is the Violet foliage of cooperation crashing down because of the chaotic collapses of Indigo Violet under it.

In this decay Biv businessmen start to become Roy because the economic chaos means that more Orange policing is needed, but it takes time for this to evolve. In the short term then this is like a Roy economy without police where the weak are ripped off by the strong, so surviving Violet companies may turn Yellow and profit for a time as some have accused Goldman Sachs of doing. For example in 2010 Goldman Sachs and Morgan Stanley had a string of successful trading months in the stock exchange despite the weakness of the economy273F[[272]](#endnote-272). Chaotic collapse is referring to as exceeding a tipping point because it is like a bucket being slowly tipped over, beyond a point of no return the bucket falls onto its side and markets can go into free fall when there are too many tipping points exceeded274F[[273]](#endnote-273).

Biv businesses also start to rot275F[[274]](#endnote-274) before collapsing like rotting or decaying plants in a drought, Blue workers start to act like secretive and deceptive Red and steal from the company, stop paying their mortgages and loans pleading poverty, or run away like a herd of gazelles as they perceive the management as greedy and dishonest Yellow276F[[275]](#endnote-275). Blue Indigo unionists start to think like Red Orange and see management as the greedy enemy that gets paid too much and resist pay cuts to restore profitability, weakening businesses with strikes277F[[276]](#endnote-276).

The Indigo market becomes more dominated by Orange police with more shoplifters, embezzlement in businesses, people leaving with important company files such as lists of customers, and so on. Indigo Violet can also be contractors or agents in construction for example, in the slowdown these slash their prices to capture the remaining market and be standing when their competitors collapse. Like a pride of lions shutting out weaker Orange Yellow lions, jackals and vultures for scarce food, Violet management starts to short change contractors and agents for their products, also paying them late. Indigo Violet agents start to rip off workers, paying them less by deceptively pleading poverty, and bankruptcy can cause Violet assets to be stolen or not finished being constructed278F[[277]](#endnote-277). Violet normally takes stock options and bonuses to motivate them to make more money for the company, Indigo Violet agents such as in financial services also get bonuses. As the economy sours they can start to act in predatory ways, hurting the business in the long term by doing deals that maximize their personal profits.

Eventually the chaos in Violet can lead to their political downfall as well, such as the American Republicans in 2008. In the Great Moderation279F[[278]](#endnote-278) dictators around the world were overthrown as Roy economies found it was more efficient to run a Biv democracy with more abundant resources. In recessions or depressions the opposite occurs, dictatorship becomes the way for those most powerful to preserve part of the shrinking economic resources. This was seen for example with the rise of Hitler and Mussolini in Europe after the Great Depression spread there. In this time of improving economies most of South America developed into Biv democracies as well. Pinochet was replaced by a democracy; Yellow organized crime in South America has lessened but is still powerful because in poor countries drugs give a better way to make money than legitimate Biv business like farming280F[[279]](#endnote-279). As Yellow drug lords weaken in power they are more likely to be betrayed by Orange Yellow cronies who begin to see alternatives in legitimate business and want to get off the sinking ship281F[[280]](#endnote-280). So like a pride of lions that begins to starve and weaken, the defections make them less effective in evading the Orange police who are more effective now that crime is decreasing. For example a group of wolves if too small has more trouble taking down buffalo and can be hurt by them, the Red Orange part of the Orange police as the economy recovers have more resources against Yellow organized crime.

A Biv economy is often democratic because with relative abundance of resources people tend to come to an agreement to share, rather than fight over scarce resources. It might normally center on whatever is good for the Indigo market, this is centrist Biv politics. Usually the Biv community is divided about an issue so there is a group of centrists or independents that determine which party gets elected, and in congress if permitted some vote with the opposing party on various issues. On Roy issues these swing voters act as Orange police because their vote can adjust the laws to the left or right, when they are more Red Orange then laws protecting people from violent crime such as rape are increased, when they are more Orange Yellow then there can be a crackdown on Red crime such as drug addicts robbing houses. A Blue Indigo party is center left and tends to voice complaints about workers, and they stand together as a union282F[[281]](#endnote-281). They want workplace insurance, unemployment insurance, pensions, maternity leave, universal health insurance, consumer protection laws to insure people are not hurt or tricked by products, access to education for all, and so on. These policies are designed to reduce the danger from random chance hurting people by their teaming up together.

The center right party is Indigo Violet and act as agents or stooges for Violet, they often also meet with Indigo Violet lobbyists283F[[282]](#endnote-282) as well. They want to get around the center left party and its demands for insurance because they believe they can make deals with the Blue workers without it, making more money284F[[283]](#endnote-283), also more flexible wages can allow more Indigo Violet versus Blue business deals instead of Violet versus Blue Indigo collective bargaining. So Blue Indigo and Indigo Violet represent both sides of a market and try to reach consensus in government decisions. As a neighborhood decays its political process becomes less democratic because with scarcity of resources comes the need to fight over them, and being more powerful can help to get a larger share of them. So vote rigging285F[[284]](#endnote-284) and dirty political tricks can be resorted to, and it may lead to dictatorship and a simmering civil war286F[[285]](#endnote-285) instead of consensus. Too much Blue Indigo team bargaining from being successful in elections can lead to a lack of Biv business because Violet talent finds it too expensive to hire the Blue Indigo unionists. Indigo Violet agents break this team up to some degree by pointing out all the jobs they are missing out on and eventually the left splits to allow more Blue nonunionized jobs. When Indigo Violet does too well in elections their competitive approach dominates the economy and Blue Indigo unions are broken up287F[[286]](#endnote-286) leading to more Indigo Violet versus Blue businesses which are more prone to rapid growth and collapse.

An example of this on the right would be George W Bush and Karl Rove. They worked out that firing up the right wing base would get more votes than pandering to the center, and believed this would give them a permanent majority288F[[287]](#endnote-287). This would be Violet rule where their money buys the elections and Indigo Violet agents use this money to advertise their policies. Lowering of taxes on Violet in exchange for more funding allows them to profit from the arrangement; this is similar to the left getting campaign funds from trade unions in exchange for supporting them. In this case as the economy deteriorates more the Blue Indigo lock on power can become Red Orange and gang like, this can appear as unions[[288]](#endnote-288) extorting money from Yellow business men. There can also be Red Orange Marxists in trade unions as happened to unions associated with the Labor Party in Britain290F[[289]](#endnote-289). A decaying economy can also grow into an Orange Yellow lock on power, which is like crony Capitalism291F[[290]](#endnote-290) where Yellow families and organizations cooperate together to use political influence rather than Orange Yellow and Indigo Violet competition. The Roy government budget is seen as an easy way to make money supplementing or instead of Biv business; the Orange Yellow agents can be in control with secrecy and deception to hide the power of the Yellow team. Demonstrations by Red Orange protestors against the secrecy and deception of this government can be viewed as destabilizing to Yellow order and as a justification for continuing in power because the Red Orange mobs are portrayed deceptively as dangerous to the economy292F[[291]](#endnote-291). This is similar to the Rove plan for a permanent Republican majority in America and may be symptomatic of scarce resources turning America Roy to some degree.

The economic decay causes the government to become more Roy and usually expands in size relative to the Biv economy, by raising taxes, nationalizing industries, or accumulating more debt. This happened in Britain with the Red Orange Labor Party nationalizing industry293F[[292]](#endnote-292), over taxation of the Violet wealthy in the Biv economy caused economic stagnation because the Indigo Violet versus Blue competitive economy with its rapid growth and tipping points was suppressed in favor of Blue Indigo versus Violet with opposing teams and an emphasis on avoidance of risk on both sides blocking new growth of businesses. In this case Blue Indigo unions became too powerful and Violet business opted for class based cooperation between them often based on the aristocracy. This led to a lack of growth through competition and with scarce resources it became more Roy with Red Orange domination and business seen increasingly as Yellow imperialists left over from the British Empire.

Debt can give a society time to work out the Roy and Biv imbalances if reform is undertaken to restore the correct balance between competition and cooperation. If there is too much competition then collapses can turn the economy into Roy with scarce resources just as too much cooperation in business and the workplace leads to economic stagnation and Roy. Like a tree there needs to be a good balance between branches, leaves, and fruit, also a balance between the upper parts of the root system as a storage of nutrients and the competitive lower roots looking for more resources.

A deteriorating economy can make it difficult to work out the best balance of Orange police and Indigo coordinate in markets. Scarce resources cause Violet to act as Yellow predators and Blue workers to act as Red prey or sometimes as thieves using secrecy and deception to rob Violet homes and businesses, which then requires Orange police. However laws are not quickly changed, Indigo market laws assume coordination is the most efficient and tend to give the situation time in the hope the market will correct itself. By the time this is seen to be not working Violet businesses may be undermined by all the tipping points under them and start collapsing, Orange Yellow crooks may already have damaged the market by preying on too many of the working class in the financial sector instead of trying to benefit both sides in deals294F[[293]](#endnote-293). So as the market sours it should see Roy behavior going unpunished by excusing it as Indigo market excesses and as the Biv economy improves it should see too much Orange regulation.

Another solution for a marginal society is for a person or organization to have a dual or hybrid color role. For example Blue workers might be part time or seasonal such as fruit pickers and spend the rest of the year on welfare as Red. Part time Blue workers can be secretive and deceptive and might be on welfare getting cash for work or are allowed to earn some income before it affects their payments. This welfare can be Biv where workers pay unemployment insurance as a kind of insurance premium from their wages, or Roy where the government pays those in need and does not stop paying if the coverage from their premiums runs out. Generally in an economy with abundant resources Biv welfare is most efficient because people usually can work before their premiums create too much of a strain on the employment insurance system. In Roy however unemployment might become endemic with scarce resources so trying to balance workers paying insurance premiums with outgoings is not practical.

If the economy improves then the hybrid Red Blue people might become Blue fulltime workers or if they get less work they live more completely on Red welfare. Blue Indigo unionists might alternate as gang members as the economy decays295F[[294]](#endnote-294), also there can be Yellow mafia like connections in unions296F[[295]](#endnote-295) using extortion to get money from other Yellow businesses as well as raiding the Blue Indigo pension funds. The Blue Indigo and Red Orange hybrid union becomes partially like a gang such as in Gang Leader for a Day297F[[296]](#endnote-296), sometimes supporting the community with money and looking after people as unions do, at other times using them to commit crimes such as robbing other gangs or Yellow Violet businesses.

Police can also have a dual role in a marginal society. Their main job is Orange, to arrest people committing crimes but some issues are controversial as to whether they are crimes or not298F[[297]](#endnote-297). For example during Prohibition alcohol was banned but for many people there was no harm in drinking so they would see this as something for the Indigo market to coordinate buyers and sellers freely choosing rather than needing the Orange police to protect them. Orange police sometimes acted as Indigo coordinators of the alcohol market during Prohibition, turning a blind eye to its use. In the same way drugs in a marginal society give Orange police and the courts a hybrid role. When they are Indigo they can be paid off or simply ignore areas where dealers congregate, or they may rob them sometimes like Yellow predators themselves299F[[298]](#endnote-298). Prostitution sometimes has an unspoken arrange ment where as long as they don’t disturb the peace it may be tolerated as an Indigo market. This is where issues can be buried as Orange Yellow versus Red in Roy and Indigo Violet versus Blue in Biv, since both sides act secretly and deceptively such as husbands cheating on their wives with women no one knows work as prostitutes it is rarely seen in public so many people don’t care about it. There are many interactions in the Indigo market like this, where the public don’t want it to be openly transacted in Violet versus Blue Indigo because it offends the community or team instinct for example pornography, drunkenness, and often PDA or Public Displays of Affection. As long as both sides benefit these issues are allowed in the Indigo market.

Indigo Violet salesmen and agents can in a Biv economy do honest business with Blue workers, but when someone is obviously Red and gullible they may sometimes switch to Orange Yellow and rip them off. This is shown in the book Liar’s Poker where financial salesman for Salomon Brothers sometimes dishonestly sold bad stocks to investors, other times they were honest and might try and make it up to them with a better deal later300F[[299]](#endnote-299). American business in the build up to the great Recession was a mix of Violet talent and Yellow crime, such as Enron doing legitimate business and also fraud such as with power in California. Before World War Two cronies of Hitler such as Krupp, Siemens301F[[300]](#endnote-300) and Thyssen acted as Violet companies but also shared in Yellow profits from using Red slave labor with the Nazis.

Variations of Roy and Biv areas in a marginal society can make travel difficult as well as business transactions. For example gang areas in Los Angeles can be traps for the unwary, and people might be assumed to be there for a criminal or gang related reason302F[[301]](#endnote-301). In England Jack the Ripper killed in areas where the Orange police were just becoming organized with foot patrols so there was little protection from criminals303F[[302]](#endnote-302).

Sometimes Biv industry can be surrounded by Roy crime areas, and Biv business people have to stay in their buildings when at work and drive carefully through the area. Red homeless might assail Blue workers going to local shops, Yellow organized crime can try for protection money as well. At night the area may be Roy and unsafe, during the day Biv and well policed. Crime waves can occur for unknown reasons and catch Biv people unawares, turning an area into Roy so Biv business moves out. The crack epidemic was unexpected; people in areas of Los Angeles were unaware of the coming destruction to their communities as drugs made resources scarce and crime skyrocket304F[[303]](#endnote-303). People were unaware of the financial fraud in subprime loans in the American real estate market, and when the collapse came they often lost everything. Sometimes wealthy Violet neighborhoods can be relatively close to Red ghettoes such as Harlem in the 1970s, someone could easily walk into the wrong area. This is because of the secretive and deceptive colors of Red versus Orange Yellow, this crime can grow rapidly and cause collapses in a community because it is chaotic and because of its secretive nature can be unseen by most people prior to the collapse like a termite infested house. A city can have these secretive and deceptive areas where the inexperienced have little chance of knowing about. They also have more visible Roy crime in Yellow versus Red Orange, newspapers often report Red Orange gangs or Yellow mafia operating openly so this kind of crime can be more easily monitored.

Many societies have a class structure and often these can be defined as color codes. For example many people see themselves as working class, this can be classified as Blue where workers are not unionized and compete with each other, and Blue Indigo for those in a trade union to protect them. Many of these workers always vote for a left wing political party, and have few opportunities to rise above this305F[[304]](#endnote-304). If unemployed or retired they may be on Roy government assistance, and if the area is depressed economically such as an American ghetto or some British housing estates there can be Red Orange gangs that protect the area from Yellow criminals306F[[305]](#endnote-305). Chronically Red unemployed and pensioners might live in Roy public housing, their income fluctuating depending on whether a left or right wing government is in power, a left wing Blue or Red government would tend to raise welfare payments and minimum wages of government workers at the lower levels. Since Blue Indigo unions would have helped to finance their campaigns then they often support compulsory unionism, so Blue Indigo can stand united against Violet business. Violet people also organize in kinds of unions such as the Chamber of Commerce, the Law Society, and medical associations; these allow them to get higher wages and government influence to counterbalance Blue Indigo unions. Sometimes the law breaks up Violet monopolies to promote competition such as in America with the Sherman Act; this can lead to overly strong Blue Indigo unions and a transfer of wealth in the economy to the left. The trend in economics currently is to promote competition on the left and right rather than allow cooperation with monopolies versus unionism; this makes economies more Indigo Violet versus Blue so they keep wages and prices down at the expense of more collapses in businesses and personal finances. In the 1970s wage and price inflation was much stronger; this may have been caused by too many Violet versus Blue Indigo interactions where monopolies negotiated with trade unions. This can lead to economic stagnation because growth usually occurs in Indigo Violet versus Blue; also each side could use its team instinct to stand together and force wages to rise and then prices to match giving wage price inflation307F[[306]](#endnote-306).

This can create different kinds of economic activity, an economy with stronger Violet versus Blue Indigo is like trees with large amounts of foliage and strong root systems with few opportunities to grow more because the branches are all being used and new branches would be overshadowed by the foliage on the older ones. The Violet foliage is like mature companies that are stable and support each other, sometimes having cross ownership to reduce competition, and overshadow new Indigo Violet companies trying to compete. The root system is Blue Indigo and mainly trade unions and associations such as apprenticeships, these have many connections between them as well so they cooperate to keep wages and benefits high rather than compete with each other. These opposing systems of cooperation can clash strongly in the economy; strikes can often occur in Blue Indigo as well as price fixing in Violet.

It can be difficult for new companies and technologies to get started because Violet companies try to stymie any competition, for example they can lobby for high amounts of regulation that is too expensive for small companies to comply with before they go public. They also have trouble finding Blue workers at low enough wages to make their business survive this overshadowing, many either belong to a union or must join a union to do these jobs or there will be strikes. The new workers will be highly paid eroding profitability at the start, and sometimes cannot be fired even if they do a poor job. Taxes and fees to pay worker’s compensation, holiday pay, overtime, etc can consume so much capital the business fails so there can be high unemployment. This is like a forest where there is a lot of humus and rich soil not being used, plants would normally grow in this but the Blue Indigo roots of the large trees take the nutrients around them and the Violet leaves take the sunlight so they wither or only grow in a stunted way. This is also why deregulation can give good results initially because increasing competition allows these smaller trees and hence smaller businesses to explode in growth, deregulation proponents can point to this as justification for their policies. If only Blue Indigo is deregulated such as by restricting unions then companies can start up more cheaply but still fail later as they are overshadowed or bought out by the Violet monopolies. It will also transfer more wealth to Violet and leave Blue and Blue Indigo poorer. If only Violet is deregulated such as with antitrust laws then small businesses have a chance to grow into Violet monopolies themselves, these laws will have to be regularly used to break up new cooperation between businesses. This will transfer wealth to Blue and Blue Indigo as prices become cheaper through competition, but companies still have to pay high wages and may find it too expensive to start a new business with competition eroding profit margins.

In the Roy parts of the marginal society this will be Yellow versus Red Orange, with strong Yellow organized crime and Red Orange gangs of a neighborhood protecting their ethnic groups, such as parts of New York in the 1950s such as the Bronx where Italians, Irish, Blacks, Jews, had rival gangs308F[[307]](#endnote-307) and many belonged to trade unions. The Yellow mafia had many violent battles between rival families309F[[308]](#endnote-308), as well as controlling business as neighborhoods. Businesses were often large monopolies310F[[309]](#endnote-309) in steel, oil, railways, newspapers, television, and so on with strong unions opposing them.

In this kind of economy opportunities to compete are more restricted, for example someone might find it hard to move to another color code, though their abilities may be better suited elsewhere. Schools and universities can dominate industries, graduating from Harvard or Yale for example could give someone Violet contacts through many industries not available to Indigo Violet outsiders trying to compete with degrees from lesser universities311F[[310]](#endnote-310). Minorities also found it difficult to break into these Violet cooperatives such as Jews trying to go to Harvard312F[[311]](#endnote-311).

When Indigo Violet versus Blue are strong and Violet versus Blue Indigo are weakened the economy is more competitive with less cooperation, this is more common in the last few decades and may be because of highly competitive globalization and the lowering of Violet and Blue Indigo protectionism. The economy with these colors is not as stable and mature as a forest but more like a mix of light woodlands and Savannah with Indigo Violet agents and small companies dominating the Violet old boy network and crony capitalism, and Blue workers competing with each other rather than joining together in trade unions.

The tendency in Biv is to establish a mature forest and reduce much of the competition by growing a large network of Violet companies and Blue Indigo trade unions, but governments use antitrust and other laws to keep competition alive, this breaks up the larger businesses and gives smaller ones a chance to break into previously protected markets such as telecommunications and the media. This is like after a bush fire where trees grows as fast as they can to establish a permanent dominance over other trees, an economy kept in this state has many companies growing but the stability of Violet and Blue Indigo is inhibited by pruning larger trees. So businesses become smaller and more destructive to each other, naturally aiming to monopolize but are often prevented from doing so. More businesses would collapse in this system because of competition, and also they evolve faster since competition is not shut down by monopoly. With Internet businesses large companies have come dominate as Violet, for example Microsoft in operating systems and office software, Facebook in social networks, Ebay in online auctions, Google in search, Norton in antivirus, Oracle in databases, etc. These companies tend to form a cooperative where each of their services joins to the other rather than for example Norton trying to design an operating system or Facebook doing online auctions. In each of these areas the size of these businesses tends to overshadow competitors but the highly competitive world market allows smaller businesses to grow in their own countries, for example in China Google loses to Baidu. As smaller companies reach the overshadowing of larger Violet ones they can be bought out or anti-competitive laws can restrict Violet to some degree for example Firefox has prospered because of restrictions on Microsoft’s browser Internet Explorer313F[[312]](#endnote-312).

Banking for example used to be very stable314F[[313]](#endnote-313) but increased competition makes it more cut throat for business and more banks collapse and start up again, instead of a mature but stagnant Violet industry it is now more Indigo Violet and innovative. This was seen with the Savings and Loans collapse in the 1980s in America where opening up the financial market to competition evolved exotic financial instrument like fast evolving plants315F[[314]](#endnote-314). When Glass Steagall316F[[315]](#endnote-315) and rules against short selling were repealed in America recently the increased competition led to more collapses, perhaps a contributing factor to the Great Recession. Since Indigo Violet is more secretive and deceptive, and relies more on individuals rather than teams the Roy government can easily not see what is going on when it breaks up the more transparent Violet and Blue Indigo organizations. This secrecy and deception coupled with rapid growth after the canopy of Violet businesses is broken up can make the resulting boom appear to be better economically than it really is because with rapid growth can also come tipping points and collapses. In this situation no one business at the top like a Yellow alpha predator has the power as Violet to impose order on the industry so it can become many unstable Indigo Violet agents competing in a risky way with high leverage, just as plants do when trying to outgrow each other. In Blue this secrecy and deception can also appear beneficial because it allows many new businesses to start up, workers to do jobs formerly not allowed by unions such as people in the European Union working in other countries317F[[316]](#endnote-316). However this increased competition leads to lower wages for many Blue people and if they have too much debt this can cause them to default, as many did in the Great Recession. The black market can also dramatically increase because Blue workers are not part of a union that can be easily monitored.

In the Roy part of a marginal society there would be fewer Red Orange gangs with Red people fragmented, using secrecy and deception to protect themselves rather than organizing into Red Orange gangs. They would be alienated from the Orange police to some degree because the Red Orange component of standing up to Yellow organized crime would be weaker, instead the police would be seen more as Orange Yellow using secrecy and deception to attack them such as undercover drug agents arresting Red addicts and Orange Yellow investigation of Red welfare fraud. Often crime in both groups would poorly documented, for example there would be a black economy of Red people on welfare but secretly working as Blue, also Orange Yellow police would be on the take secretly to aid Yellow criminals. Orange Yellow con men, pickpockets and burglars would be more common and less visible to the police because of the lack of gangs and neighborhood watch to protect and report these crimes, and because Red people would distrust the police.

The Orange police might have broken up much of Yellow organized crime just as the Indigo market would break up Violet monopolies in the Biv economy, for example in the 1960s in London when organized gangs such as the Krays318F[[317]](#endnote-317) and the recent progress by the FBI in America against the mafia. Crime would be Orange Yellow and not controlled or order imposed by a Yellow mafia or similar organization, instead criminals would have little contact with each other and be harder to trace. Globally war in has gone from large scale open conflicts such as Red Orange Russians versus Yellow Nazis in World War two to the Orange Yellow Western nations versus Red Communism is a cold war, and then to a secretive and deceptive war of espionage against Red terrorism. America has changed its defense forces to be smaller, more mobile and secretive such as Orange Yellow Special Forces rather than Yellow cold war weapons such as masses of tanks and large armies319F[[318]](#endnote-318). Stealth and as disinformation are more effective against Red targets such as remaining communists, Al Qaeda hiding in Afghanistan and Pakistan, internet attacks from China, and espionage from Red Russia. Over time however the color codes may oscillate back into Yellow versus Red Orange battles with hot wars, where open conflict replaces secrecy and deception.

In these secretive and deceptive conflicts espionage agencies such as the CIA are more important, such as by listening to and monitoring communications to find secretive Red Al Qaeda320F[[319]](#endnote-319). 321F[[320]](#endnote-320) They in turn try to overcome this with false and deceptive chatter about missions and targets to create too much information for analysts to sift through322F[[321]](#endnote-321). Small groups of secretive terrorists can attack Yellow dictatorships in the Middle East more effectively than Red Orange mass protests, and Red cells can be set up so exposing one terrorist does not affect the others. This is the strategy of the Orange Yellow fox or Red mouse, to act alone and camouflaged because they are much harder to detect. Much of this is also because Yellow versus Red Orange war is less practical because of the threat of nuclear war; in the same way Violet monopolies and Blue Indigo strike prone unions are believed to cause too much damage to a modern economy so both are suppressed to some degree.

In the breakup of the Red Orange Soviet Union many people in Russia became Red and with few protections against Orange Yellow organized crime, the removal of the Red Orange communist party was like removing half the Orange police so crime and corruption increased323F[[322]](#endnote-322). The idea of a Union of Soviet Socialist Republics or USSR is Red Orange, like trade unions the republics have more strength by working together instead of having separate policies like Red. When this broke up each became Red and more defenseless. Oligarchs with secretive government ties created large Russian Empires and many Red Russians starved from the sudden removal of safety nets.

To rise in a class structure a person needs the characteristics of that class or color. To rise from Blue to Blue Indigo a person needs to be a team player and forego advantages they might receive from individual actions such as being more secretive, they must also forego advantages from competing against these team mates, otherwise Blue people are better off doing business directly with Indigo Violet agents who also don’t work as a team. For Blue people to not organize as a team and try to negotiate with Violet teams is highly asymmetric, they have more money and expertise usually and can outlast delays in negotiations but they are also often less maneuverable. To rise to Indigo a person needs to have a neutral fair minded nature and try to broker honest deals between Blue Indigo teams and individual agents, bias for example to the left or right in politics will tend to alienate one side and make it harder to appear as an honest broker in Indigo issues. Commercial law would be one career path, stock brothers sometimes deal for example with Blue Indigo pension funds and also can be agents for Violet hedge funds hawking stocks. Auctions can be Indigo neutral or tilt towards Indigo Violet or Blue Indigo depending on who is their main client, for example Sotheby’s might favor Indigo Violet agents and Violet artists since most of their revenue comes from there. A Commodities future market might favor Blue Indigo cartels such as OPEC as well as individual Blue suppliers like Russia.

In this kind of market Violet producers might negotiate large scale futures contracts such as airlines getting a set price for large amounts of jet fuel, Indigo Violet agents might attempt to manipulate the market by trying to buy up all available oil and then reselling it at a profit to Violet324F[[323]](#endnote-323). Such a strategy can be prone to tipping points if too much supply gets past them with direct deals between airlines and OPEC then they can lose money. In the stock market the rules might favor Indigo Violet who can manipulate the market downward with naked short selling. Instead of cornering the market in shares to make them rise in value they falsely sell large numbers of shares they don’t own, this creates an apparent glut of shares325F[[324]](#endnote-324), looks as though people are selling for a reason and can often be accompanied by false rumors about the shares leaked to the media326F[[325]](#endnote-325). Such tactics represent the thin line between Orange policing and Indigo coordination because the market can change from scarcity of resources to an abundance of them with seasonal changes, new discoveries, etc. Oil in particular is described by some as abundant and by others as running out327F[[326]](#endnote-326). Some might argue naked short selling and cornering the market improve Indigo coordination328F[[327]](#endnote-327), others might argue this is predatory behavior. Deregulation often allows Roy business behavior such as allowing derivatives to remain unregulated or the deregulation of electricity and the rise of Enron329F[[328]](#endnote-328), even loopholes are hard to close like holes in a fence to keep out predators such as in the banking and derivative regulation bills currently in Congress. Orange regulation can appear to reduce business, such as when short selling of financial institutions was banned for a time when the American banking industry was in danger of collapsing in the Great Recession, but it also appeared as if rumors from Orange Yellow short sellers were causing tipping points to be reached and a domino like effect. It was said for example when Lehman Brothers failed that Morgan Stanley was the next targets for the shorts and if they failed Goldman Sachs would be brought down.

For someone to rise to the Violet class they need some kind of extraordinary talent plus a team instinct. In Aperiomics Violet is represented by Can, meaning “I Can” or ability. Indigo Violet is represented by “I Won’t”, meaning they have talent but it may not be good enough or they won’t cooperate with other people enough to succeed as a team which most great inventions and art require. As a Violet artist gains experience his art may flower or bear fruit, so they are seen to grow in stature, have a time when they are in the public eye, and may fade if their talent is not enough to create more successful art. A musician might be a one hit wonder, a movie star become typecast, a novelist might have one good book and fail to come up with a good different enough story, and so on. Often this artistic acceptance is like joining the Violet club of their peers, and as a mutual admiration society this signals to others that their work is to be more widely accepted. For example in music there can be a music hall of fame, in acting to win an Oscar voted by members of that industry, a Nobel prize is generally a consensus that a scientist is highly regarded in that field, and so on.

Once a Violet artist is successful others imitate their talent so there continues to be a team instinct to extend that artist’s achievements to admirers and pupils, a successful band might find others trying to dress like them, musicians might credit others as an inspiration, there can evolve a well-known style where different musicians specialize in a branch of it such as Jazz or rock and roll. A Britney Spears might be followed by a similar artist such as Hanna Montana, while Britney might have imitated Madonna and while competitive they also cooperate with each other by not criticizing that genre. In acting there might be a character pioneered by one actor such as a detective and then in many crime shows actors clone this performance into many variations like branches of a tree specializing it in comedy, drama, suspense, etc.

This is like in nature where a flower successful in attractive insects to pollinate it will find other flowers evolving in similar ways, to get their share of insects. When one flower stands out much more the less successful ones might die out or evolve to be more like the successful flowers so after a time they again become more similar to each other. Violet then has a trial and error component where mutations or random variations in them are trialed to see what is wanted, this is why songs are called hits and the others are misses. Violet can include a melding of different styles into some new kind of music where Indigo Violet creates different branches of music that become further apart from each other. For example rock and roll has evolved into different branches such as heavy metal, punk, thrash, grunge, folk, country, Goth, Blues, etc but then sometimes different branches are combined into something cooperative like a heavier version of country music. Sometimes artists from different branches play together to make something new like Bob Dylan with many other artists. This cooperation fertilizes new music which again branches into Indigo Violet separate types, to become mixed in Violet again later.

Violet can also represent a meritocracy of education where people compete and rise into different Indigo Violet branches or specialties of science. These have usually evolved through trial and error as well, researches may try variations of medicines, chemicals, designs of such as planes and cars, and successful ones bear fruit, while others in such as startups can collapse from lack of funding. This leads to imitation of the successful products, looking for varieties different enough to not infringe such as trademarks, copyright and patents but close enough to share in the success. For example medicine has evolved into many Indigo Violet specialties such as Neurology, Cardiology, and Dentistry. In Violet sometimes these can be combined into a new discovery such as that gum disease can cause heart disease, which can be related to strokes330F[[329]](#endnote-329). So by this differentiation of knowledge into branches a chaotic process of cause and effect finds new ideas, this part is nonrandom because new discoveries can follow from discoveries in that branch alone.

Knowledge consists of two kinds of relationships, dependent and independent variables. Dependent variables occur in Indigo Violet and Blue where cause and effect is examined to give new results, this gives rise to more branches and roots of knowledge that compete with each other. Eventually a result such as for gum disease is found but this does not fit neatly into one branch of science such as Dentistry, so these are independent variables because a result in Neurology such as the dependent causes of strokes is not easily found out about by Dentists. So putting together information from different branches that are independent of each other is a random process because probability deals only with independent variables, this occurs in the team colors of Blue Indigo and Violet where people of different types comes together to pool their knowledge, money, skills, etc into something new. Because chaos and randomness each have a separate color code then the evolution of knowledge and all other systems can proceed in color codes. In Roy the same happens but this is more adversarial. Red and Orange Yellow are chaotic and use trial and error to find ways of predators capturing prey, or for prey to escape from predators. In Red Orange and Violet the team instinct is used so different abilities are mixed into a more random strategy. For example a Yellow pride of lions might have animals with different abilities and strengths so when they function as a team the whole attacking force uses those different abilities to form a new more flexible way to catch prey. A Red Orange herd of buffalo also has different strengths, some are smarter, stronger, larger, and have more stamina than others but when acting as a team like in football those best suited to a role are used. For example those with more stamina might attack the lions more while those with more speed can catch other lions with their horns more often. To catch prey cooperation is used by some animals, others find it better to hunt alone and compete with their own kind such as foxes.

Sport can have a similar process in Violet, a football player might learn by imitating successful talented athletes, then they try and create a new style hard to imitate. A bowler in cricket might develop a variation of spin or pace bowling few others can imitate well and build a career by examining other bowlers in history and trying to blend their skills into a new style331F[[330]](#endnote-330). If batsmen develop a successful defense against it then their career may collapse if it is Indigo Violet because it may have evolved from a long line of spin bowlers which is then rendered obsolete by a new batsmen’s defense. In football there are many different branches or codes332F[[331]](#endnote-331) but in each there are teams of players of different ability, some are stronger, heavier, faster, better at dodging, better at kicking, and so on. Each of these evolved as an Indigo Violet or Blue branch or root, kickers for example evolved to be better by emulating and improving on the technique of others and to be separate in ability from other kinds of players such as goalies. Some of the stronger and heavier players such as a fullback could have gone into an Indigo Violet or Blue solitary sport such as a wrestler and used their strength that way, if they join a Violet football team then they blend this talent with others to form something new that each player could not do alone.

People can also move from a Biv color to a Roy one or vice versa. Usually this will be to their corresponding color, for example Violet turns to Yellow or vice versa, Indigo Violet to Orange Yellow or vice versa, Indigo to Orange or vice versa, Blue Indigo to Red Orange or vice versa, and Blue to Red or vice versa. However just as for example a Blue worker with talent might rise to become a Violet musician333F[[332]](#endnote-332) they might also become Yellow334F[[333]](#endnote-333). This can because of changes in the economy, for example with the economic collapse of Germany after the great depression a soldier and artist in a more prosperous economy may have become Violet but instead Adolf Hitler became Yellow, often referring to himself as a wolf335F[[334]](#endnote-334).

These economic changes can move people from Roy to Biv or vice versa, some are adapted to do this efficiently, such as the salesman who can be dishonest if needed. Indigo Violet can be salesmen or real estate agents, their job is to represent the Violet seller. For example an agent might sell Violet new homes which area refined product from Blue raw materials such as wood, steel for nails, copper for wires, silica for glass, concrete and so on. A home is like a team effort where different materials are put together by a team of Blue Indigo builders, often in trade unions, into something different from the various raw materials. When more specialized materials need to be made then these are done by Indigo Violet branches, for example glassblowing evolved from raw glass into window making and light bulbs, tiles from raw clay into different branches of craftsmanship such as for kitchens or bathrooms, bricks have evolved into many different styles and shapes for different tasks from chimneys to walls, and so on.

Typically a salesman would represent a branch of these goods, for example glass salesmen might be different from tools salesmen and they would visit builders in their territories and compete with other tool and glass salesmen for business. A salesman for electrical goods sells mainly refined metals made into electronic circuitry plus packaging and would compete with others, this can be seen in vacuum cleaner salesmen who might go door to door. If business is good the economy is Roy and he is usually honest, but if money becomes scarce then it can turn into Roy and the more dishonest Orange Yellow salesmen become selected and others must change or leave the business. Then more predatory deals are done using deception and higher pressure selling until the economy improves and the Indigo Violet salesmen drive out the dishonest ones as the bad publicity of fraud is no longer as profitable as legitimate business.

A salesman is a loner rather than a team player, as seen in the play Death of a Salesman336F[[335]](#endnote-335). He might travel a territory much like a lone fox and he defends this territory as his own. Product knowledge requires some specialized talent and so salesmen tend to become specialists in a branch of their product to answer all objections to it and talk people out of buying from competing branches of product such as Willie Loman selling knives. He must be able to explain why his knives are better than other knives or he will lose the customer, some secrecy and deception can be used, for example he would not mention other better knives the customer might be better off buying.

A sales book called the Quadrant Solution defined 4 kinds of salesman, the order taker, the closer, the expert and the friend337F[[336]](#endnote-336). The order taker is more Indigo as like on a checkout of a supermarket they are not really agents for a store but coordinate purchases silently.

A closer uses can be more Orange Yellow as in Glengarry Glen Ross where the sale is predatory and is designed so the Red prey does not escape, often using deception so the client cannot escape the contract. In the movie a client tries to use Blue Indigo protections with a cooling off period, and the salesman Al Pacino tries to get around this like an Orange Yellow predator trying to get around an Orange police shepherd to get to Red sheep. An expert salesman is more Violet, they attract customers with their superior understanding of the product and might often deal directly with large Blue Indigo customers. For example a company selling computers might have an expert handling large accounts, he uses honesty to sell and his wider knowledge usually working with a team of other experts can be more trusted. His can be seen for example in hardware stores where there can be an expert in each section of hardware, instead of competing with others in the store they work together as a team to make sales. A friendly salesman succeeds by customers liking him and trusting what he says, this is forming a bond or team spirit between then client and salesman.

Tom Hopkins338F[[337]](#endnote-337) gives lectures about how to be good salesman. One has to be honest, this differentiates an Indigo Violet salesman from an Orange Yellow one. Another important point is to find good listings, the better the Violet product the easier it will be to make sales. Closing here is getting a decision from the Blue client, not like an Orange Yellow predator closing in on a Red prey. A sale can be like the Socratic Method339F[[338]](#endnote-338) where a client answers questions that try and lead him to decide to purchase the product, sometimes bordering on sophistry. Some misdirection can be used such as not disclosing all the features of a product, rather than Orange Yellow fraud. Because this is a negative technique it tries to overcome the objections of the Blue client by isolating them and using a cause and effect or chaotic style of reasoning to force the client into the inescapable conclusion that the product should be purchased.

Indigo Violet agents instead of competing can team up to support Violet more, so instead of their working against each other and bringing process down this cooperation can fuel a prices bubble. Dealers in Violet artists such as Andy Warhol might support the market by buying paintings that threaten to sell too cheaply340F[[339]](#endnote-339) to support each other as a team, they can also make surreptitious bids on their own paintings at auction to move the price up. The Indigo auctioneers can sometimes favor Violet by conspiring to allow these bids, to offer finance and long payment terms to keep prices higher and can fuel a bubble by giving the appearance of constantly rising prices. This leads to a flowering of art as Violet artists create new kinds of paintings and sculpture by combining different techniques, the support of the Indigo Violet agents with secrecy and deception allows an element of charlatanism and Yellow predatory selling to occur. Much of this art can be random to some degree for example Jackson Pollack341F[[340]](#endnote-340) used random splashes of paint and then Indigo Violet agents try to explain this as a chaotic cause and effect process of artistic creation instead of just randomness which would be less valuable. This is the tension between chaos or cause and effect and randomness or serendipity where chance associations can form new artistic creations. The growth of markets like these can be fuelled by this chaos but this also leads to tipping points where a downturn can lead to collapse, such as happened when paintings lost 75% of their value.

Red people tend to be loners, like animals that stay by themselves with a family or forming loose herds that scatter when attacked. Beavers are an example of a Red animal; they use secrecy by building nests to hide in that can only be entered underwater. Squirrels can also be loners because they hide and run when attacked. Gazelles and most birds have Red and Red Orange components; if the predator attacking them is weak then they can use their numbers to protect themselves like birds moving in a swarm to dissuade eagles and hawks. If the predator in this case dives into a swarm of birds then it can get hurt by hitting many birds at different velocities so they usually wait for a straggler on the outside of the flock. This then selects against being a straggler, those birds most capable of moving in formation are better protected, or those most favored get a preferential position in the flock. If the predator is too large, such as a human approaching then birds will scatter and hide as a Red strategy. Other animals also use this hybrid strategy, zebras attacked by hyenas for their young will sometimes stand together as Red Orange but against a Yellow lion they would run and scatter.

Using the Red Orange strategy depends on many factors such as the size and number of the predators, whether some of the herd are worth protecting such as young or valued females, how much of a team instinct the herd has, and so on. Gazelles usually employ a Red strategy of scattering from predators that often have to use Orange Yellow deception to sneak up on them in tall grass to get close enough to catch them. In this case the young are not strongly protected so they must rely on hiding and staying well away from predators for the young to have time to grow up. If not sufficiently like the others or not as popular, like males that don’t win contests against other males or females getting too old to mate, some animals may end up on the edge of the herd or get left behind when the rest run and scatter. Wildebeest don’t look after each other’s young, so if a lion takes the mother of one then the offspring are left to also be taken and are not protected by the herd. So these weaker animals on the edge can make a prime target for Yellow predators and many deliberately target the young, inexperienced, sick, and old. In Roy society Yellow and Orange Yellow predatory behavior acts in a similar way where people like this are robbed and because Red society tends to not work as a team to protect each other this acts as a selection against infirmity and naivety. I call this personal selection and team selection where societies and animals decide to act in ways that change their evolution indirectly. Sexual selection was a term used by Darwin for how animals select a mate for various reasons that affect their evolution, for example finches in the Galapagos may change their beaks by preferring mates that have a more suited beak to the food available. Natural selection is where outside forces such as predators or droughts cause some animals to die out because they are less able to defend themselves or find food than other variations of their species.

Personal selection however refers to the actions of Red, Orange Yellow, Blue and Indigo Violet animals and people where their tendency to make decisions that favor themselves at the expense of others affects their survival. For example if Red animals scatter when attacked then potential mates can be eaten, also those less fit to escape are left to their fate. This evolution favors competitive behavior where misfortune occurring to another of a species is often an advantage, such as other animals being eaten when food is scarce can leave more for them. This competition need not be fair as in sport in modern society, so camouflage, trickery, cunning, secrecy, misinformation, disinformation, speed, moving and feeding at night, having good hearing and vision, using sonar, etc can be useful for both Red and Orange Yellow animals and also for people in Roy societies where applicable to people.

This is different from natural selection because these strategies might only occasionally lead to an animal starving or being killed, for example those gazelles less favored might be left behind more often or not be warned as often when they scatter as predators are nearby, but this can just mean the gazelles become separated over time into those that look after each other more and those that are ignored making two flocks.

Meercats are another example of this, they watch carefully for predators then hide and scatter if one approach, but they also prefer some mates to another with sexual selection. So those that are not secretive and fast enough can be eaten, which is natural selection and those which prefer one mate over another evolve with sexual selection but other interactions can lead to a personal selection pressure. If some offspring are more favored then they are warned first as predators approached or if there is limited food some may be given priority over others in eating together.

In Hyenas they also have a hybrid Yellow and Orange Yellow strategy. If the prey is a Red Orange herd such as buffalo they may band together as a Yellow pack to use their numbers and strength, if the prey is Red and secretive such as warthogs then they might hunt individually so as not to scare them. Natural selection means that those less capable of finding food will starve leaving those more fit. Sexual selection means that the mates they find more attractive determine their future fitness, such as being attracted to a better hunting male can give a female offspring that are fitter for survival. Personal selection also occurs however where a leader can be selected in a small pack but be deposed if injured and then have lower status. If the original leader would have done a better job than the new leader then the prejudice over the injury can select against the group and give them less chance of getting food.

In Red Orange, Yellow, Blue Indigo, and Violet groups there is team selection more than personal selection where the consensus of the team, pack, flock, pride, herd, etc takes precedence over the personal preferences of the individual members. Personal selection in a team can be damaging to all because for example if a herd of buffalo fragments when attacked by lions they are all in more danger, team selection can also be dangerous when animals are competing against each other because the ones attempting to cooperate are betrayed when this is advantageous. When animals use a hybrid strategy then the changing from personal selection to team selection can be hard to follow, when this happens in society alliances are formed and betrayed constantly as in tribes in Afghanistan342F[[341]](#endnote-341). This personal and team selection can cause animals to evolve as they make decisions which affect their survival indirectly, the same selection cause societies to form and become more complex. When personal selection is more efficient then people can change to betray and compete with others rather than cooperate with them, this leads to a fragmenting in society as well as more secrecy and deception. If this goes too far then the resulting chaos is less efficient than cooperating with each other so some people switch to team selection because by standing together they can beat individuals more easily. This society becomes more honest as cooperation requires transparency and altruism, but the lack of competition can cause some opportunities to be lost and so there is usually a balance between competition and cooperation.

Most herd animals have their preferences for looks which is why females can accept the victor in fights between males, this preferring one male for multiple partners can lead to much of a herd having common relations. This can lead to the development of a team instinct because animals related to each other are more likely to want to protect each other, or at least are similar enough to work better as a herd. A preference for this conformity or for relations can tend to edge less related or sufficiently different animals to the outer areas of the herd where they are strong enough to survive or are killed by predators. This leads to a natural selection effect on these Red Orange animals but also a reverse sexual selection effect in that they tend to be rejects for mating. They would then tend to select each other and form a stronger type of animal which stands and fights like buffalo rather than runs like gazelles. The stronger ones might then take over the Red center evolving the herd to be stronger rather than swifter. This can be counterbalanced by the herd having only one alpha male so others do not have a chance to mate and form a separate group of related animals.

This can also happen in society where groups of related people form a community and a race where their skin color and other features start to make them more distinct from others in the next village, country, etc. This Red tendency to force out the deviants and non-relatives can form the Red Orange fringe around a village, or these people may leave and form another village.

In the same way someone can feel shut out of Red society, as in the Soviet Union for nonmembers of the Communist party343F[[342]](#endnote-342) and so must contend with life on the fringe of society as a dissident. Some might refuse to join the party344F[[343]](#endnote-343), others might be rejected as ideologically suspect, or they might make some kind of error and be ostracized. Many in the Soviet Union refused to join the Communist Party and preferred the fringe of society, where people band together as misfits. To rise from the Red class as a nonconformist someone must then be able to adapt to fringe society such as going into the army, gays might prefer the fringe among those like themselves, scientists might have seen Red Communist society as wrong and were sent to the fringe if not a Gulag. Lysenko was an example of this where a wrong theory of evolution was favored by Stalin and dissenters were seen as unpatriotic. Others might find themselves in a gang, ostracized by Red society and facing dangers from others they form a bond with others like them. A similar step is to join the Orange police or legal system, they also stand apart from Red society but get strength from the right with Orange Yellow to counterbalance Red power in the state.

According to their inclinations and bonds to their former Red community some might become Orange Yellow police and steal from their former Red neighbors or ignore them to some degree when they need help, others might become petty criminals associated with a Red Orange gang. Since they might protect their Red communities they could also form an arrange ment with some Orange Yellow criminals to allow them to plunder Red society for a cut of the stolen goods and in this way they begin to form a kind of Orange police rather than just support the Red community right or wrong. In a similar way a Red Orange gang might become the only protection for a Red community, for example blacks in Chicago projects have gangs that protect weaker people from crime where the Orange police will not go to, and these gangs extort money for working in the area345F[[344]](#endnote-344), sell drugs to weaker people, rob people outside the community, and so on. This could happen as a Red Communist state begins to disintegrate. The Red Communist Party forms an inner circle that tends to expel people who don’t conform to Marxist teachings, eventually the numbers of these Red Orange dissidents swell and can be hard to control by sending them to Gulags, imprisoning them in psychiatric hospitals and conscripting them in the army.

So the Communist state would start to be dominated by Red Orange people who are more honest in their doubts about Marxism and with their team instinct form groups who believe their ties will protect them from Red persecution. People still in Red are secretive and deceptive, they do not trust each other enough to voice their doubts about Marxism and because of their tendency to hide and scatter when in danger they can become dominated by these Red Orange gangs. This is what happens in urban ghettoes, Red people are relatively weak and become dominated by gangs of their own relatives who protect them but also exploit them. A Communist state relies on these dissidents as soldiers to protect the country but if they don’t stop them organizing then they can lose control.

From these Red Orange organizations an Orange police that is more neutral can form, they can attack the Communist Party sometimes for corruption and weaken their grip on the economy. Yeltsin for example became more powerful by targeting corruption as did Gorbachev. These police start to make deals with Orange Yellow petty criminals and turn a blind eye sometimes to their targeting Communist Party officials so the rise in crime also weakens the party. This in turn leads to Yellow gangs becoming stronger as Oligarchs and the Mafia with ties to the police corrupting them, the society then is becoming more balanced in its color codes and Red loses control as they did in the Soviet Union.

The Orange police can become more corrupt from this association with Orange Yellow petty criminals; they can also be corrupted by becoming too associated with Red Orange gangs. This can be like an Orange sheriff in a small town where he sometimes needs to form a Red Orange posse to chase Yellow criminals or a lynch mob might threaten to usurp his authority. He can also become too associated with Orange Yellow petty criminals to use them as informants and then the mobs might see him as corrupt. Larger police forces avoid this by using an Internal Affairs346F[[345]](#endnote-345) department to probe for corruption or vigilantism. For example some police might form a Star Chamber347F[[346]](#endnote-346) where known criminals are punished outside the law much as a Red Orange lynch mob would do it, others might start to take money and drugs from Orange Yellow criminals when they catch them in exchange for letting them go. Gangs can also act as a kind of court or Star Chamber to mediate disputes and punish people348F[[347]](#endnote-347). Someone might rise from Red in this community, become a Red Orange gang member then a drug seller and perhaps study to join the Orange police or become a lawyer.

Orange Yellow drug dealers and petty criminals also can have ambitions to rise into Yellow organized crime and the mafia. Instead of being in a semi alliance with Orange police in exchange for information they would then become more of a target, also Red Orange gangs could attack them violently. This would draw them closer to Yellow who work together as a team, the more they become part of that team and cooperate with other criminals the less they can compete with criminals and use secretive and deceptive tactics such as informing on them to the police in exchange for lesser sentences. Rising further into Yellow would be similar to in a pack of wolves or pride of lions, based on how successful they are at plundering or killing and how trustworthy they are. The Orange police can have undercover agents who are Orange Yellow and pretend to be small time criminals trying to infiltrate these Yellow organizations, but Yellow has defenses against this such as retaliation against informers, relying on family relatives or a certain nationality as in the mafia, etc. Family and a common place of birth act as a bond between people much like with Red Orange herds, when animals are of the same species or related they are more likely to protect each other. Instead of organized crime someone in a Roy right wing country might rise into the government, perhaps into the Orange Yellow espionage areas as an informant of their former Red community or rise higher into where they form a team of powerful companies, generals, and often a dictator. Their main adversary might then be Red Orange demonstrators; a willingness to attack them with military forces can show they have the Yellow team instinct. There can also be dissidents to the Yellow regime that are more Orange Yellow and who could be spies for the more moderate elements of the community or they could also be Red like communist spies.

A similar process formed much of the aristocracy, where people of humble birth might have helped with a Red Orange defense force against invaders, such as when the Vikings plundered England349F[[348]](#endnote-348) or when Red Orange people defended Scotland against English attacks350F[[349]](#endnote-349). Their blood stock would have sometimes been on the fringe of society, but when attacked the Red people came to rely on them and so they dominated rather than the weakness of Red351F[[350]](#endnote-350). As with the 3 types of Red and Red Orange animals conflicts such as these have three outcomes. If the Yellow attacks are too strong then the Red Orange resistance will be crushed and the surviving people will become Red to survive, hiding and scattering from danger. If the Yellow armies are weak the Red Orange fringe will triumph and remain dominant while the Red leadership will become less powerful. If the contest is more evenly matched then Red and Red Orange will form an alliance where sometimes open resistance through armies is successful and at other times hiding and scattering will be the best strategy.

Some Red Orange may become predatory later themselves, turning into a Yellow aristocracy and plundering communities themselves as Robber Barons, then teaming up with other predators and intermarrying into similar families leads to related warlords, hereditary dictatorships, aristocracy where blood ties determine a succession to various titles and lands352F[[351]](#endnote-351), knighthoods, and the alpha predator353F[[352]](#endnote-352) becomes king. Genes tend to select for this rise, those not inclined to plunder and kill others were unsuited for warring on them and were either killed by not being ruthless enough or defected to the left. This is natural selection to some degree, but those who fail at battle are not always killed so the survivors are better warriors through experience. When they are relatively weak or have few allies they may try and make a kingdom based on secrecy and deception such as assassinating enemies, betraying allies and stealing their land, repudiating treaties when it suits them, and so on. Those more successful can attempt to pass on their genes to women through rape in military campaigns and by being appealing with the plunder they get, if genes for Orange Yellow and Yellow behavior spread in this way then some of these children nay become soldiers and predators themselves.

Some unsuited to this life make a personal selection and may become Red peasants to survive by secrecy and deception when soldiers are in the area, rather than by plundering these people by using the same tactics of secrecy and deception to catch them by surprise. Other may choose to join Red Orange defending armies rather than to rise up into Yellow predatory armies and aristocracies. This thins the ranks of those who have the genes and temperament for Orange Yellow predation and makes them stronger, others try to move upwards into Yellow. Sexual selection also works here in the Darwinian sense by Orange Yellow soldiers and minor aristocracy looking for a mate higher in the colors by marrying into a more influential family where these blood ties were protection against attack, gave them allies they could not get otherwise, and often land and a title they could not attain through secrecy and deception.

Some Yellow offspring always tend to revert to the mean354F[[353]](#endnote-353) and would be less interested in marrying for a better place in the interlocking families of royalty, Mafia, families around a dictatorship, etc. They instead might personally select a mate for other criteria such as love355F[[354]](#endnote-354), not wanting to attack other less related kingdoms, being more cowardly, being gay356F[[355]](#endnote-355), for physical attraction, desiring to marry into a talent such as musicians, and so on. Those still determined to marry into aristocratic bloodlines personally select for this ambition, and also might be those who care less for physical beauty or love, or they might seek these in concubines only. While Yellow people can revert to the mean this can be because of the random nature of Yellow relationships, to form teams of related families different blood lines are mixed which can bring out recessive genes and unintended offspring. Orange Yellow marriages are more chaotic because they tend to select mates like them for specific reasons, when their offspring are less ambitious, secretive, or deceptive then this can be catastrophic rather than a random variation. For example if a kingdom is successful by duplicity then an heir that is honest but has no Yellow family ties might not be able to use trickery well enough to keep the kingdom from collapsing. In Yellow an heir that is too secretive and deceptive can break apart the bonds between other families and threaten a Yellow kingdom357F[[356]](#endnote-356).

The path to evolve to a higher color can be difficult and when it fails can go through chaos, collapse and attacks from their former color code associates when they see them as traitors or prey. For example a Yellow criminal might fear reprisals from his former criminal associates if he joins the police or decides to testify against them358F[[357]](#endnote-357), as would an Orange Yellow criminal who became a police informer. An Orange policeman retiring might find himself persecuted by the Red community he sometimes exploited as well as Yellow criminals who see he no longer has Red Orange protection. For example the Orange Yellow side of the police might have a reputation for being corrupt and when he no longer has the protection of being Orange then Red people could get even with him. Yellow criminals could remember wars against the Red Orange side of police such as SWAT teams or apparent vigilante killings by them and want to get even359F[[358]](#endnote-358).

In a similar way a Violet artist when no longer successful might try to work as an Indigo Violet agent, such as Violet retired sportsmen becoming Indigo Violet commentators who promote the sport this way. This shows the team instinct of Violet, players in cricket, baseball, football, etc are part of a larger team that help each other and when they are finished player these connections support them in other ways. A Violet player who becomes unpopular with this wider team, such as being too competitive and criticizing other members might be dropped back to Indigo Violet where they can be an agent but are no longer supported by this team. They might also sponsor products, in effect acting as an Indigo Violet agent, for example golf players sponsored by Nike. This could end up with them owning a store or franchise depending on how talented they were. Indigo Violet agents such as for hedge funds might move down to be commercial lawyers or stockbrokers as Indigo depending on their qualifications. A failed Indigo Violet salesmen or one not liking the job might rejoin a Blue Indigo union or become a Blue worker.

In a marginal society there can not only be changes from Roy to Biv or vice versa, but one area can believe in a Roy philosophy and resist when Biv becomes more efficient or vice versa. For example in Russia even though the Biv capitalist system is now seen as superior many remember Stalin fondly360F[[359]](#endnote-359). An area in a country can temporarily become one color but it can also change back, catching some people who had adapted too quickly to the new conditions. Many businesses tried to work in Russia too early, before it was stable but the market reforms often didn’t work properly because there was too much scarcity of resources. In South Vietnam many pinned their hopes on the Biv system the United States imposed and then were massacred by the Roy North Vietnamese, unable then to appear as devoted communists361F[[360]](#endnote-360). Now Biv Capitalism is ascendant in Vietnam and Roy ways are under threat. South Africa’s Johannesburg can have areas taken over by Roy gangs and communal squatters, then they are chased away by the Biv property owners, only to return later362F[[361]](#endnote-361). Those who have sided with the Biv system in Afghanistan will be persecuted or worse if the Roy Taliban take over again. In Iraq those who tried to work with a democratic Biv system were attacked by Roy Shiites who wanted to be allied with Iran. These can be the most marginal societies of all, where resources are close to being abundant enough for a Biv system with outside support, this aid can wax and wane according to outside politics however causing chaos and tipping points in Red versus Orange Yellow and Blue versus Indigo Violet interactions.

The two systems can then be in conflict on the boundary of where Roy is more efficient than Biv or vice versa. Generally this is where resources become scarce enough to make a Roy system more efficient in some areas and the boundary between these and the Roy areas keep moving. For example on the edge of an American ghetto people might be working and have few incentives to be criminals but the neighborhood is fragile and can reach tipping points making them collapse into crime. Many of the workers could be former criminals so when the work disappears they can readily resume Roy activities. Turkey and Pakistan sometimes teeter on the edge of tipping points in becoming Roy Islamic states; foreign aid keeps much of their Biv business alive. Iran also has a marginal society, a Biv democracy with private businesses and a strong Violet control over the community vying with a Roy religious state with nationalized oil and a predatory agenda using terrorism363F[[362]](#endnote-362). Despite large amounts of aid and attempts by the Bush administration to create a Biv capitalistic society Iraq still functions more efficiently with public ownership of oil and rations of food from the government.

Africa has had many failures with aid and democracy because the resources in most areas are too scarce for a Biv society, this usually only works if a left or right wing dictatorship concentrates resources in a small area or part of the population to allow them to have a Biv society. This has been tried with Yellow dictatorships propped up by Western countries in the Middle East and Marxist states supported by the Soviet Union364F[[363]](#endnote-363). The ruling class and their cronies receive a greater percentage of the country’s resources, this can be seen in Saudi Arabia for example where crime is low in the more wealthy areas because people can make money in a Biv way where both sides gain. In other areas the economy is Roy and Red terrorism must be constantly watched for by the Orange Yellow security apparatus365F[[364]](#endnote-364). South America has a former Roy Marxist state in El Salvador366F[[365]](#endnote-365) that changed from a Yellow regime, now trying to be a Biv democracy balancing the Violet right controlling much of the wealth of the country with the poorer and more numerous Blue left. Chile threatened to become a Red Communist state under Allende, then ended up as Yellow. The Philippines had a Roy Yellow government under Marcos while battling Red Communist insurgents, now it is managing to have a Biv democracy. Indonesia had a similar history with Suharto367F[[366]](#endnote-366). China is still a Red Roy dictatorship but has a strong Biv economy which may bring it to democracy. Hong Kong368F[[367]](#endnote-367) and Taiwan had a long Roy history of Yellow anticommunism against Red China before Biv democracy. South Korea was also a Yellow dictatorship defending itself against a still Red North Korea. The apparent move from Roy governments to Biv may still be cyclical because modern technology is creating enough resources for Biv economies to be more efficient. If these falter, such as the Green Revolution369F[[368]](#endnote-368) not continuing or minerals becoming too scarce and expensive then many of these countries could revert to Roy again.

The switch from Roy to Biv or vice versa is often difficult and bloody because the systems are so different. A similar situation is seen in nature on the edge of a forest, where animals in a Roy plains area might strip and kill trees for food, trees also try to expand their boundaries which wax and wane according to Green Blue resources such as rainfall. A desert is difficult to turn into woodland like a Roy economy with scarce resources is difficult to turn into Biv, there is little topsoil which can easily blow or erode away. In the same way temporarily abundant resources can be absorbed by the Biv economy without changing it unless it is balanced by Orange, otherwise Yellow or Red powerful parts of society may take most of this wealth and leave the rest of the society poor and Roy. To avoid this it may be necessary to create a strong enough Orange police state first so that wealth is not unfairly taken and then slowly relax it in parts into an Indigo market as resources are conserved and aid more fairly used. A drought can cause vegetation to collapse before it has adapted sufficiently, in desert reclamation370F[[369]](#endnote-369), in the same way a temporary shortage of resources can undo the changes from Roy to Biv.

A Biv ecosystem in Africa can recover from drought because it has adapted by conserving resources, the roots go deep into the water table and thorns such as on the Acacia tree mean they cannot be completely destroyed by starving Roy animals. Plants use poisons and thorns to protect parts of them, like businesses using weapons, security alarms, safes, and grills over windows to defend against Roy riots, famines and robbers. A country may be mainly Roy and have some smaller areas of Biv prosperity where the market provides goods efficiently in shops and crime is scarce. On the edges of these areas resources are scarcer and in these transitional parts the Biv economy protects itself like plants do to survive, even so this boundary may move in and out with variations in the economy. Trying to make even these areas completely Biv with urban renewal is difficult unless there is a sustained abundance of resources sufficient for the Biv businesses to take root and also time enough for them to adapt defenses against Roy criminals and people wanting to nationalize their assets. Animals can adapt to a shortage of plants and other resources by restricting their birth rates, sweating less, concentrating their urine, avoiding predators more, not being fertile when they are underweight, etc so they don’t overpopulate and create oscillations in the Biv ecosystem. In the same way many Roy societies such as in desert areas of the Middle East conserve resources to survive, so it becomes more difficult to create a Biv society by using conservation as this already fails to yield enough results.

At the boundaries between Roy and Biv areas there are two main interactions; Yellow Blue and Violet Red though any Roy color can attack or otherwise interact with any Biv color or vice versa. Yellow Blue is for example where Yellow organized crime, warlords, dictators, theocrats, etc do business with Blue workers. They use their power to take goods from Red just as lions are the top of the food chain in parts of Africa and trade them for Biv goods; this can be seen in Middle East Yellow dictatorships where the ruling class lives well on Western Biv goods by exploiting the less powerful people in the country. In nature Biv plants receive a payoff from Roy animals when their bodies decompose to be fertilizer, a Yellow Blue interaction is provided by decomposers of dead animals and in return these bacteria are fed by plants by providing food to Red animals, these nutrients go up the food chain and then back to plants again371F[[370]](#endnote-370). In a right wing Roy society the higher up towards Yellow someone is the more they are likely to have something to trade with a Biv business. In a left wing Roy society Red is more powerful such as many communist countries, this group becomes more wealthy because they exploit the more talented and potential imperialists to work for less money so they interact with Biv societies with Red Violet. They need the talent of Violet society for some goods so the former Soviet Unions used to sell grain and oil to the West in exchange for this372F[[371]](#endnote-371).

Changes from Roy to Biv and vice versa can also be viewed in terms of changes from Green to Green Blue and vice versa. Green represents publicly owned resources, this can be like the natural environment of animals where they have territory but not fixed ownership of property. All property in Roy is provisional because it can be taken away by others if they are more powerful, whether this power comes from being strong and in a team such as with lions or solitary using secrecy and deception such as with foxes. In Biv people don’t steal private property from each other because resources are abundant enough for competition and cooperation to be more efficient and where both parties benefit from each transaction in a positive sum game. Red societies such as herds of wildebeest, Bushmen of the Kalahari373F[[372]](#endnote-372), Red communism, a Jewish kibbutz374F[[373]](#endnote-373), nomadic herders of reindeer all use Green land as private property rather than owning pieces of it.

If the society becomes wealthier then private Green Blue property makes more sense, like African tribesmen moving into a city and renting or owning a dwelling. The nomadic reindeers have also mostly moved into cities where a new Biv society based on free enterprise is forming. The conflict between public ownership and private ownership in Russia has been difficult because privatization of resources into Green Blue on this scale was unprecedented. Often assets were stolen by Yellow oligarchs and privatized into Violet businesses while other assets went to poorer Red people who became Blue workers owning their own home. As a reaction to this some Green Blue assets of Oligarchies were taken back by the state to be Green public property again375F[[374]](#endnote-374).

In Britain council flats as Green were sold off as Green Blue under Margaret Thatcher, often to their former tenants376F[[375]](#endnote-375) . This generally happened because in a Biv society private Green Blue housing works better, as Britain became more prosperous privatization became more efficient, this Green public property was a hangover from the war years when much of the public housing began. Owners look after their homes more in Biv, the Indigo market causes people to protect their property without needing the Orange police to prevent damage to them. In other cases privatization is less well looked after, privatized electric utilities have not done maintenance and caused blackouts.

Parks and roads are another example of the balance between Green and Green Blue. A city might have town planners resume Green Blue property for roads, freeways, parks, public beaches, government building, subways, electric and telephone cables, railroads, trams, sports stadiums, airports, patents for military use, and to avoid excess profits by Biv companies such as nationalizing oil and other mineral deposits. They might also resell these as Green Blue private property later, such as when a Green project is no longer needed or the economy becomes more Biv and private property is more efficient.

Property can also become Green through non-payment of taxes, fines, as forfeited bail assets for a court appearance, as seized property such as from drug dealers, as unclaimed lost property, as unclaimed inheritance money, from donations to the government from private people, discarded property such as in litter bins and public dumps, where children become wards of the state, if property is not economical such as oil or mineral leases, and so on. Much of this might subsequently be resold or become Green Blue property again, for example a child might become a ward of the state or a criminal be confined by the state but get their rights back in time. Lost property or property forfeited for bail or nonpayment of taxes might be auctioned off to the Biv private sector again. Sometimes this change is from economic conditions such as low prices for minerals cause leases to be abandoned, recessions cause people to not be able to pay their property taxes, where tax laws make it worthwhile for people to donate art to public galleries or bequeath it to them, where a thriving economy causes people to throw out still working goods such as older mobile phones, and so on. Goods might be then fought over as Green, with the most powerful winning out, who might then sell the goods, including sometimes as a Red Violet or Yellow Blue transaction. For example a dump in Nigeria might be scavenged by Red poor people377F[[376]](#endnote-376), sometimes they compete against each other and sometimes they work together as Red Orange and share, even help out sick and injured scavengers. They would then sell these goods into the Indigo market.

A Biv society might send its Green trash such as older computers and mobile phones to poorer Roy societies and these might be recycled into a Biv industry there378F[[377]](#endnote-377) because they are worth enough there to be private property. Green can also include charitable donations such as clothing, food, military aid for a Yellow government to defend itself against Red terrorists or Communists, preferred nation trade status giving lower tariffs, dams might be built in an aid program, free medicines for diseases such as aids, grants given for research, scholarships for students, military advisors for an army, loans such as from the IMF or World Bank, and so on. Farmland can be marginal Green Blue, after a few years of crops it might be abandoned as Green fallowed land to recover, then claimed again as Green Blue379F[[378]](#endnote-378). If mineral prices rise a lapsed mining lease might be taken up again. Aid for Red people such as from the drought and war in Darfur might be stolen by Yellow warlords and sold back to them or sold to Blue businesses. Corruption may see aid money end up in private Biv bank accounts of Roy government offices, contracts for aid work or military equipment might be given to Biv private companies according to Roy bribes380F[[379]](#endnote-379).

The financial system can also alternate from Biv to Roy and vice versa. In a Biv society there is a pattern like roots and branches of a tree, these are also like the arteries and veins of an animal along which goods and money move. At any point in this system Roy people can corrupt how it works, for example Orange police can disrupt the Indigo market by making some transactions illegal, Violet entrepreneurs can become infiltrated by the Yellow mafia, Indigo Violet salesmen can turn into Orange Yellow con artists, Blue Indigo unions can become Red Orange communists trying to damage the economy, and Blue workers can become unemployable as in the Great Depression and steal rather than work for low wages. In nature Roy can work harmoniously with the Biv system or it can damage it, Biv than either develops effective defenses or starts to wither. For example trees usually have edible leaves and strong branches safe from many predators as they are too fragile to climb, birds and bats then find places in them to build nests, take twigs and leaves in this nest construction, or dig into a branch or trunk to lay eggs, some birds wound the tree and feed off the sap, trees allow many animals to eat their fruit and seeds with a small chance some of this will lead to a seed germinating, and in flowers they even provide free nectar for insects and birds. Some roots of plants are also edible. In the same way the Biv economy provides many resources that can be stolen or used by Roy people, for example it may still work well when highly taxed, property developers might provide free public parks, companies may donate excess and old stock to charity, the wealthy may sponsor charities, and much intellectual property is pirated such as music and movies.

Birds and other animals such as badgers eat these seeds and fruit, and if they excrete these far enough away then the plant and the animal engage in a double win or positive sum game, the animal gets a free meal and the plant gets its seed moved and deposited in fertilizer. The animals might see this as a negative sum game however, they must expend energy to search for food as the lesser evil of not starving, and they see the plant losing food like a predator sees its prey losing when it is killed. So in Roy the transaction with plants can be seen as a predator and prey relationship where the plant is the prey, while the plant experiences this as a consensual transaction where both parties benefit. Red people in society might profit from welfare and see themselves to some degree as preying on Biv society because they get money for nothing and can threaten violence if it is not forthcoming. Violet people however see this as a double win because paying off Red people allows them to remain wealthy and some people will eventually become Blue workers or do business in other ways, like a Red Kibbutz selling its grain in the Indigo market.

The reason then why plants are so generous is that they gain from this transaction in many ways, when the animals die they become fertilizer, they move their seeds to better places to germinate, and their pollen is transported to other plants. These Red animals often work like the Blue parts of a plant, the Violet parts of a tree must provide nutrients for its roots to continue to work, its leaves when they fall might provide fertilizer to another tree instead of itself, and so Violet is trying to make a partnership with Red grazing animals and make them cooperate like they were part of the Violet team instead of competitors. In the same way with a Yellow Blue interaction a Yellow mafia might be trying to get Blue pawn shops to cooperate with it in fencing stolen goods, for example a Yellow dictatorship might be stealing diamonds and gold from its people and sell them much cheaper than usual to have Blue companies take them. Yellow drug lords in South America might be a resource for North American banks to get more money at cheaper rates than they could from legitimate depositors in these countries. Blue is by nature secretive and deceptive and so they often don’t say where they get these resources from, and so they launder them into the Biv economy. Saddam did this during the Oil for Food program with the United Nations, companies that would secretly buy oil to low prices would pay him to get around the sanctions on Iraq382F[[380]](#endnote-380).

Animals have also evolved to not kill off the plants they derive benefits from. Those that do tend to die out as they run out of food; they become weak and then are easy prey. Also plants tend to evolve defenses such as thorns and poisons so these animals may and up worse off. When birds and other animals feed they usually don’t strip a plant completely, they take a few leaves or berries and move on, so it’s likely they either recognize the danger in killing plants they eat or it comes from instinct. Many predators may also do this by having a range of foods they eat including plants as well as prey; instead of decimating one food supply they seem to try to have many food sources. Grizzly Bears are an example of this; living on plants, rodents, salmon, and whatever else they can catch383F[[381]](#endnote-381).

In the same way Roy people tend to attack the Biv financial system, making profits that the system can sustain or benefit from, though sometimes damaging it enough to cause a recession or depression384F[[382]](#endnote-382). The system was attacked in this way many times in the 19th century, in the 20th century, this contributed to the Great Depression. Like some animals385F[[383]](#endnote-383), people are not always aware of how fragile their ecosystem is, Bears might eat too many salmon before the salmon lay eggs and cause a lack of salmon for themselves later. In Mauritius cats, dogs and rats wiped out the Dodo because they didn’t realize that they were making their food source extinct. Usually such events happen when the ecosystem is unbalanced, such as from new plants and animals added or weather changes that are too extreme to adapt to. In a Biv economy there can be rapid innovation and this can make part of it vulnerable to a superior product which causes an industry or product to become obsolete and collapse like an animal vulnerable to an introduced predator, this is called destructive innovation or disruptive technology386F[[384]](#endnote-384). Losses from these innovations can leave a company weakened and vulnerable to predators such as a hostile takeover, this is like a weakened animal in nature from an introduced competitor for its food, like an introduced product is a competitor for consumer dollars. Short sellers can use rumors and naked shorts to spread panic and give an impression people are selling a stock, this however usually only works if the company is vulnerable in some ways such as from a new competing product like a competing animal for food, needing finance in a recession like animals weakened in a drought, etc. If the company cannot compete against new innovations then the business may stay at a lower share price and the short sellers cash out at a profit like predators finding a new and easier food source, or take over the company and sell off its assets like an animal going extinct.

Since they buy it cheaply they can often sell off parts of it at a profit, this is similar to a predator harrying a weakened animal and receiving much more energy back from eating it than they expended in hunting it. Greenmail387F[[385]](#endnote-385) in Biv is similar to where predators in Roy might harry a Red Orange herd until they give up one of their young or sick. If businesses are too Blue or Indigo Violet, i.e. competing with each other rather than teaming up to help each other then this can create a domino like effect where companies that did business with them are also hurt, might be taken over, and eventually large parts of the economy might go into recession. A Red Orange herd can handle this greenmail like harrying from predators because only a few might get eaten, but eating too many of one animal or plant at a trophic level in the food chain can create oscillation in the color codes and cause over breeding of some animals or others becoming extinct388F[[386]](#endnote-386). For example if Red animals fed too much on a plant they might wipe it out, make it rare in an area, or cause it to evolve thorns or poisons. Birds and insects that had evolved to only eat those plants, such as birds with long beaks for a kind of flower might go extinct or leave the area. Other animals that fed on the insects living on that plant might also die out or leave, and predators that fed on then in turn die out or leave.

So this is like the domino principle in businesses, where a relatively small change may have large effects. In the lead up to the Great Recession securitization was popular, often bonds were created with either a fraudulent or negligent disregard as to how secure they were and investors did not realize that flow on effects that would come from Blue secretive and deceptive home owners defaulting on their mortgages they lied about to obtain. Loans would be made to people who were unlikely to repay by Indigo Violet agents who were also secretive and deceptive, reselling these loans in bonds even though they often knew the borrower didn’t have enough income to repay the loan. False estimates of how many mortgages would not be repaid underpinned the value of many of these bonds. As this was discovered by other secretive and deceptive investors389F[[387]](#endnote-387) they bought large numbers of Credit Default Swaps on these bonds since they knew they would eventually fail and waited for them to collapse. Since the Indigo Violet and Blue parts of the economy are prone to tipping points and collapse statistical methods based on probability failed to accurately model this risk390F[[388]](#endnote-388) so collapses in the value of these bonds led to a domino like series of collapses in other businesses helping to cause the Great Recession. Once companies were weakened like this corporate raiders, short sellers, and speculators continued to attack the economy like Yellow predators feeding on weakened animals in a drought.

These weakened companies had to sell off assets which fetched a lower price in a buyer’s market because so many needed to sell, in this phase speculators did well like predators do in a drought. This caused other assets which had to be marked to market to be valued lower, so ripples from these sales made other companies have to devalue their assets. For example a company might sell half their bonds to improve liquidity. The buyer later might have to resell at a loss if the deal was bad for them, then the original company would then have to devalue the half of the bonds they hadn’t sold which would make them have to sell more bonds because the value of their other bonds was decreased as a result from the mark to market rules391F[[389]](#endnote-389). So short sellers could cause widespread devaluations of related stocks and bonds by shorting one kind, also companies were penalized in this way for making asset sales because they might establish a lower price for the assets they still held. Few by this time had the money to buy because the earlier bargains they had snapped up expecting an economic recovery had turned into losses, this is like where predators have grown in numbers from the easy food available in a drought and now that they find the food is running out they begin to starve themselves. This collapse in values occurred in part from the secretive and deceptive nature of Blue and Indigo Violet, once this deception was revealed and assets were worth far less than supposed this became like a contraction in the money supply. In this last phase Violet companies start to collapse from the excessive leverage of deals made by Indigo Violet agents in their company, often ones they didn’t understand or know were being made. In this way Indigo Violet with secrecy and deception undermined Violet companies like Lehman, and long before them Salomon Brothers.

Collapses in business happen because of leverage in any economy though they are more common in recessions, small decreases in value in a market or liquidity available can lead to tipping points of margin calls on shares or missed repayments on loans, like in the wild where weakened prey often are found such as being injured in an accident, and these make easy targets for Yellow predators who watch and take advantage of these smaller and temporary advantages. In this weakened state Orange Yellow deceptive predators can profit from naked short selling, spread rumors about businesses, cause credit lines to be withdrawn from struggling businesses, maneuver them into convertible bonds or pipe loans392F[[390]](#endnote-390), force them into allowing short seller related directors on their boards for insider trading and more ammunition for short sales, damage the resale value of neighborhoods by renting houses to dangerous looking neighbors and letting houses become dilapidated bringing prices down and so on. Yellow predators such as the mafia393F[[391]](#endnote-391) can be a large source of cash for this, laundering their money into the Biv economy at a discount and using this for short selling, to loan money to businesses at high interest rates then try to make them fail to collect from Credit Default Swaps or to take over the company, to buy into businesses at low prices to profit as the economy recovers, and so on setting off further waves of collapses from tipping points.

Violet will try to be bailed out because they work as a team that often encompasses political, financial, corporate, aristocratic, etc connections. Blue Indigo will do the same thing, their trade union strengths will help to compel left wing parties to help them out, such as deficit spending to keep spending and jobs up through a recession. Violet will ask for this spending to keep up business profits and in the Great Recession to help refinance banks. They may be bailed out to some degree by the government but moral hazard dictates those with less influence will lose the value of their shares in their companies and their bonuses. This was seen in the Great Recession where Goldman Sachs had better connections and was bailed out while Lehman and Bear Sterns had no government connections and were allowed to fail. In America the largest banks had too many Violet ties to different parts of the economy and so were too big to fail because of fears of more domino like collapses. Other banks that were smaller and Indigo Violet had much fewer connections and so could be closed without much disruption to the economy.

Complaints from investors and investigations from politicians and Orange law enforcement will remove much of their political influence, those with the strongest team instincts will work together openly and those with fewer will turn Indigo Violet and use secrecy and deception to hide their involvement in bad business deals. This was seen with hedge funds in the Great Recession, many collapsed because of high leverage and being so competitive with each other meant that they were overcommitted when the economic storm hit, this led to tipping points and collapse. If they were Violet there would have been cross ownership and cooperation between them to loan to each other, not withdraw money from each other, etc and most would have survived.

International finance can also alternate between Roy and Biv. Between Biv countries such as Europe and the United States Green Blue money flows like a liquid stream in the form of currencies converted according to exchange rates. These rates can change according to economic factors such as trade deficits, inflation, recessions, natural disasters, current account imbalances394F[[392]](#endnote-392), and manipulating the exchange rate instead of letting it adjust freely. Mercantilism often works for example in keeping the exchange rate artificially low to promote exports and discouraging imports395F[[393]](#endnote-393), the idea is to steal or replicate the manufacturing base of other countries. While exchange rates are normally an Indigo market where the supply and demand for various currencies are negotiated they can be policed with Orange as well, for example America is currently pressuring China to raise the value of its currency and threatening retaliation if it does not.

Mercantilism would be an Indigo Violet rather than Indigo exchange rate because goods refined by Violet are kept at a lower price to compete with other Violet manufacturers. This leads to more prosperity in the Violet section of an economy by selling more goods, but less prosperity in the Blue section because the emphasis is on export rather than distributing goods back to the Blue workers. Profits are held so countries like China, Taiwan and Japan currently hold trillions of US dollars outside of their countries, they could not bring the money into their own currencies because this would raise their own exchange rates and make their export industries uncompetitive. Mercantilism is predatory to some degree because the strategy is to steal the manufacturing base of other countries, similar in principle to dumping goods on other country’s markets until their manufacturers are bankrupted and then raising process later to recoup the losses from the dumping.

Consumers in the United States for example receive extra value since they can buy goods more cheaply during this process because of their stronger dollar but they lose out because higher paying manufacturing jobs are lost to the mercantilist countries, and the trade surplus they get from this causes money to be loaned back to the United States keeping interest rates lower. Violet industries become more and more transferred overseas so the American economy moves towards selling them Blue resources which they refine as Violet, and sell back to America and other countries. This is like a top heavy tree that receives nutrients from the Blue roots and in return sends back refined nutrients which have been altered by the energy received from photosynthesis. In the same way Violet countries receive raw materials from Blue countries, refine them using energy from stored sunlight i.e. coal and oil and then send back refined goods to pay for the raw materials. This globalization is part of the Biv world economy where the Indigo market coordinates the most efficient use of resources in each country depending on transportation costs, wage costs, environmental regulations, etc. When resources are scarce however the Indigo market can coordinate damage to a country’s economy just as some legalized drugs would use the power of the free market to hurt some consumers such as schoolchildren.

This is why some free trade is illegal and controlled by Orange laws, such as dumping goods at a loss to bankrupt competitors. Because this is a highly competitive tactic relying on damaging other companies by damaging oneself by selling at a loss this is a negative sum game where at this stage both sides lose, the dumper calculating they will lose less and later when it becomes a positive sum game and the competitors are out of business they will recoup their losses. Mercantilism is also a negative sum game to some degree, economists agree it damages the economy of the countries that use it and arguably Japan’s economy has not been able to take advantage of this negative sum game in the last two decades with a near depression in their economy396F[[394]](#endnote-394).

Blue nations can become impoverished in this negative sum game, even though they receive better prices because of the artificially lowered exchange rate they lose out because they cannot build Violet wealth as easily. This can lead to a collapse in trade because Violet in the mercantilist countries is artificially higher than it should be and like branches of a tree they depend on the Blue roots getting enough nutrients to do their job. If the Blue countries become exhausted then the Violet countries can’t sell their products leading to tipping points and collapse. This could be seen as a partial cause for the Great Recession, higher paying jobs taken from Western countries and transferred to mercantilist countries leads to a loss of purchasing power and the resulting scarcity of resources could have led people into Roy ways of making money such as lying about Blue housing loans, Indigo Violet financers lying about the quality of loans made, looking to make money from speculation on housing to make up for a lack of legitimate money making opportunities, and so on. This can also lead to greed and a rising wealth inequality, one part of society powerful enough can alter the tax laws to keep their standard of living rising to compensate while others miss out. Violet parts of America had little or no economic losses in the Great Recession397F[[395]](#endnote-395), they enjoyed cheaper imports, easy credit from the trade surpluses loan back at low interest rates, often they owned parts of companies manufacturing in mercantilist countries or made profits importing these goods, or they had enough educational qualifications to remain employed.

A similar economic situation can happen inside a county, one area might be Blue with natural resources and workers and a second area is Violet with talented people to refine these resources and sell them back to the Blue area. If the Violet area has a comparative advantage such as lower taxes, corruption, crony capitalism, union busting in Blue Indigo, then the Blue area becomes poor and might make little money to buy the Violet products. Violet areas might simply keep these profits but like the countries with trade surpluses they want to loan this money to someone to gain interest and also want to increase their markets by selling more products. Now they are in the same position as China on Japan, they might loan it back to the Blue areas which people use to buy Violet products. This money is surplus to the running of Violet just as it is for China and Japan or they would use the money themselves.

Plants would usually give this money back to Blue roots which would strengthen the lower parts of the plant and grow deeper and stronger roots. Loaning the money or nutrients means it must be repaid but the Biv system here is set up that Blue areas don’t make enough to ever repay it. Consumables bought with loaned money wear out and real estate can’t rise in value indefinitely to repay the loans. Blue people use the money to do normal things in a Blue economy such as retraining, buying houses then using them as a way to pay for other consumable goods as they rise in value from the boom caused by this loaned money and so on. Violet assumes this is good business activity because there are the things which should happen in a balanced tree as well as a Biv economy, they also believe that some loan defaults will occur but these will be random and can be forecast. The Blue loans can create a bubble because people now have money they couldn’t earn and Violet has a false assumption Blue can pay it back. What should be happening is wealth flowing into Blue should be owned by them not borrowed and then any bubble in real estate would be less likely to collapse.

The loans create prosperity because Blue jobs such as construction earn money that stays in Blue, but eventually it becomes apparent that the loans sometimes cannot be repaid. These new jobs are also chaotic because each industry depends on another to survive, for example if builders stop then sandwich shops nearby go out of business, manufacturers of building goods fail, etc because they are all interconnected and competing with each other using leverage with loans to try and drive their competitors out of business to succeed. This leads to tipping points in Indigo Violet which planned on that money returning because they work on high leverage and competing with other businesses, and like a top heavy tree it partially collapses. It also causes damage to the Blue roots because they expanded more than they should on the assumption that they could earn money to repay the loans , this was also deception from Indigo Violet agents many of whom knew that securitization was a house of cards and the competition to them was like a game of musical chairs where they needed to be out of the market before it collapsed. Also Blue pension funds bought many of the bonds from the Indigo Violet agents in the Indigo market so this expansion also caused losses in the insurance section of the Blue economy, though they can weather these losses better because of the way people help each other and pool resources in Blue Indigo.

Marx believed this was a fundamental weakness in Biv Capitalism, that overproduction in the upper classes would occur through too much competition between capitalists and because they cut wages to compete this means the workers would not be able to buy the goods and the economy would collapse. This is the nature of chaos that too much growth can reach tipping points and cause collapse and why the economy has to also rely to teams of people cooperating with each other rather than just competition. Marx also believed that this inevitable collapse was temporarily overcome by imperialism and colonialism where new markets for goods were opened up by colonizing and enslaving to some degree other countries. Yellow imperialists would colonize or invade Red countries and according to Marx, enslave Red people and force them to become Blue workers and buy surplus Violet goods, but the urge to keep their wages low runs into the same problem that they will not be able to afford to buy these goods over time. One solution to this is Blue Indigo unions because they cooperate to demand higher wages and can then afford to buy more Indigo Violet goods, but the need to compete in Indigo Violet is so strong they must resist unionization for fear they will go bankrupt and their competitors survive. So they try to break these unions and drive down wages which brings on the crisis Marx predicted in recessions, what they need to do instead is cooperate more with each other in Violet so that this competition between them is not so destructive. Just as Marx saw cooperation of workers in trade unions as necessary for workers to protect themselves and avoid being impoverished capitalists should also cooperate to avoid surpluses of refined goods and the need to cut costs too much and take on too much debt to compete.

Now the world has no more opportunities for colonies and exploitation, in part because of Lenin’s original Red plan to break up Biv colonialism, this was supposed to make it easier to weaken Biv Capitalism so Roy Communism would take its place as the dominant economic system. Biv Capitalism was seen as like the American post office in the sense that once the structure of the capitalistic system was built it could be used to finance the Roy society, this is why Marx thought communism would come first in a fully developed country where these institutions could be nationalized but instead capitalism developed a socialist side with a mixed economy. This is the idea behind the plains rather than the forest; a forest is where plants dominate animals which survive in a slave like relationship to them such as birds and insects getting nectar in return for spreading pollen. A similar idea was seen in the book Erehwon by Samuel Butler where he believed machines would evolve and man would become more and more subservient to maintaining them in exchange for food and other needs398F[[396]](#endnote-396).

This idea was taken up by Frank Herbert in his Dune series of books; Man became too dependent on machines and rebelled in the Butlerian Jihad, named after Samuel Butler399F[[397]](#endnote-397). So there are two visions of the future here, a forest dominated Biv economy where corporations as trees rule and Roy governments are subservient. The second is a prairie or savannah where Roy governments such as Red Communism or Yellow fascism dominate and Biv business is kept subservient as Lenin hoped and Hitler also tried to do. In between these two ideas there is a Green versus Green Blue battle of plant structures in society verging for control against animal structures.

Science fiction has continued to offer these two kinds of visions of the future. In the movie Mad Max400F[[398]](#endnote-398) a Roy based world of scarcity was portrayed in which Max attempted to restore an Orange police. In the movie The Postman a Roy society also developed, and Kevin Costner showed a Biv way of cooperation with the restoring of mail as communications between Red Orange fort like towns. The Matrix was similar to Erehwon where humans were subservient to machine to the point of being used as a power source for the Biv machines, much like birds and insects in a forest where they recycle nutrients into fertilizer for plants as they die and while they are alive they spread seeds and pollen for them. In return the machines gave an illusion of a prosperous lifestyle. Those who rejected the machines were like Red animals, they became prey to Yellow predator Sentinel machines to keep their numbers down. In the movie Colossus computers designed to fight the Cold War between the Soviet Union and the United States instead joined forces, and people were to be always under their domination like in Erehwon. In the Terminator movies a Roy world of scarcity is created when the Internet is taken over by artificial intelligence and Skynet forms, and it uses Yellow terminators openly and deceptive Orange Yellow human shaped terminators which treat humanity as Red animals to be exterminated. Like bacteria against antibiotics the humans develop a Red Orange resistance against them.

Mercantilism countries can create a series of top heavy trees in the global economy by artificializing moving the Violet manufacturing base to their countries, this drains money from other countries that could still so their own manufacturing in some cases and when these Blue countries run out of money to pay their trade deficits the color codes can try and rebalance like a Yellow predator having overeaten and then having to starve for a time as its prey revives its numbers. This happened to Japan when China used the same techniques and priced it out of some markets, leaving it with few markets and a lost decade of economic contraction because so much of its economy was built on exports and stealing manufacturing from other countries so when its manufacturing was in turn stolen it was like a larger predator taking over its territory. Tipping points and collapses are also inevitable because competitive Indigo Violet and Blue failures always lead to collapse like pruning of branches of uneconomical industries.

Much of this mercantilist problem also comes from a Roy attitude of scarcity, that economic success must come from others losing, like Yellow lions winning and Red gazelles losing, this can lead to Orange policing in the Indigo market such as with the World Trade Organization401F[[399]](#endnote-399). Ideally in a global economy all countries would be linked with Indigo markets coordinating Blue, Blue Indigo, Indigo Violet and Violet areas. Orange policing is needed when countries and businesses have Roy strategies, such as the potentially Yellow predatory nature of Mercantilism if carried too far. With Japan this was connected with many Yellow business practices, perhaps related to its recent Yellow Empire402F[[400]](#endnote-400) before and during World War Two.

Dumping of goods at cheap prices or even at a loss was used by Japan to bankrupt American businesses in semiconductors, the idea being to raise prices later to recoup the losses when the American competitors are out of business. A similar tactic was used by Microsoft in selling the X Box at a loss to take market share from Sony PlayStation and perhaps drive them out of business as a negative sum game where both companies lost money on their gaming platforms to get market share. Other smaller companies such as discount electrical retailers also use this tactic inside an economy to bankrupt their competitors and establish a Violet monopoly. This is like trees growing as fast as possible by selling at a loss, like using its nutrient reserves quickly hoping to overshadow other trees and build a Violet shading canopy over them, with a permanent advantage. If competitors are forced out of the race this way in business a company when mature may be impossible to compete against later.

Another mercantilist tactic is making it difficult for foreign businesses to sell products in those countries, Japan did this with cars and electronic goods to the extent where people were made to feel ashamed if they owned an American car. Imports were delayed by government agencies until Japanese copies could be made to compete with them then these products were exported back to America to undermine the original businesses there. This shows a Yellow Violet control over the economy, instead of Orange Yellow and Indigo Violet competition with other companies to succeed the collusion of the zaibatsu businesses with government agencies as a team allowed them to overcome small Indigo Violet competitive businesses from America.

Responses to such Mercantilist Roy tactics in America include using the Orange police by fining countries with predatory trading practices, banning some products from import, withholding most favored nation status, using temporary tariffs to give an industry time to defend itself as George W Bush did with the steel industry, banning dumping of goods at below cost and so on. Orange undermines Indigo coordination, and the Smoot Hawley Act in America created tariffs in the Great Depression, other countries followed suit and in the Roy environment of scarcity Orange policing increased. Too much Orange policing of trade that should function in an Indigo market can create even more scarcity, requiring more policing in a downward spiral.

The situation internationally is the same as inside a country, when Indigo coordination has too much Roy predatory behavior then Orange regulations are needed. These can be seen as unfair and lead to an escalation of Orange policing on both sides, even to war. Nazi Germany went to war in part because of trade embargoes on it by Britain and America after the Great Depression and having to pay high war reparations which caused hyperinflation403F[[401]](#endnote-401) and the threat of a Red Communist takeover. The Yellow Nazis were formed to fight the Red Communists and the perceived Jewish conspiracy behind the trade embargo and this led in part to persecuting Jews in revenge and attacking Red Russia. Communism was seen as a Red Jewish creation because Marx was Jewish and some of the Russian Communist leaders were Jewish.

Yellow Japan went to war against the United States mainly according to them over trade issues. America refused to sell them more oil and they decided they needed to expand their Empire to compensate before they ran out404F[[402]](#endnote-402). They also believed the Americans and British were hypocritical about Japanese occupation of Red Manchuria and Red parts of China when they had built up their own Empires with the same Roy tactics. Trade and war can go hand in hand, trade can provide the funds for war and war can open up new opportunities for trade, this was seen in the British naval blockade of Shanghai to open up the Chinese opium trade to foreigners405F[[403]](#endnote-403). Violet talent in business often allies itself with Yellow imperialist ideas, in smaller ways leading to trade imbalances and disagreements and sometimes leading to war.

Corruption can also be a major part of international finance, a country’s officials can be bribed to take on large loans to finance contracts to overseas companies, and such a country is Red prey to Orange Yellow deceptive business. When the country cannot afford to repay the loans the IMF or World Bank might loan them the money which comes from various governments. It amounts to the private company getting business the country could not normally afford; also this is like the Biv economy supporting Red prey so it can rebound from the predators of Yellow business. Finance for these countries then can alternate from Roy to Biv as the loans help restore the economy after the predation, and then decay back to Roy again as resources become scarce with repeated Yellow corruption.

Privatization of Roy public utilities can also be done corruptly such as with water supplies or power generation. Using political influence from a Biv country or with bribes the Roy utilities are sold off cheaply to foreign Biv corporations, once they are privatized the prices consumers pay are raised making large profits and often the infrastructure is not maintained saving more money. The privatization is Biv but the owners act as Yellow predators feeding off the captive Red consumers. Roy manipulation of exchange rates can also be similar to what happens in financial markets with speculators selling a currency short trying to force devaluation. This happened with George Soros and Britain; speculators also attacked Iceland’s currency406F[[404]](#endnote-404) similar to shorting a vulnerable company’s stock.

Human interactions also alternate from Roy to Biv in a marginal society. Sex is strongly bound up with evolution, according to Charles Darwin only those fittest to survive have children. In Aperiomics people as well as plants and animals have offspring according to their color codes, and these unions lead to their evolution when their survival is not a factor. People have evolved even in the last few centuries, becoming taller407F[[405]](#endnote-405) for example and breeding between different nationalities has occurred at an unprecedented rate.

Sex if abundant can be Biv, and if scarce can be Roy. In Biv society sex is a positive sum game, in that people have relationships and offspring based on free choice of a partner and generally the man and woman each considers they profit from the relationship. This can be viewed in terms of genes plus how the environment activates or represses these genes with epigenetics408F[[406]](#endnote-406). The expression of various traits is mediated by these genes, for example blond hair might be expressed by genes and if someone with blond hair has children with a dark haired person then some children usually have dark hair and some blonde hair. Each partner might consider overall they benefit by this other hair color, they may find it attractive or desire it in their children. Biv is a sexual society in many ways, with relaxed sexual mores such as sex before marriage, promiscuity, sometimes legalized prostitution, and pornography there is a sense of abundant sexual opportunity. This causes Biv sexual society to be based a coordination of the desires of its citizens rather than needing the Orange police though some aspects are still Roy such as under aged sex, homosexuality in some countries, banks on gay marriage in some countries and restrictions on valid grounds for divorce.

Instead of a sexual Orange police such as in Islamic countries, where showing a woman’s hair can lead to public beating, the Indigo sexual market ideally allows the desires of people to coordinate themselves. If people of the same or opposite sex both see a profit in it they might have a relationship, and if one considers the other less attractive they might decline a relationship but in Roy countries one person might force the other into having sex or getting married and the Orange police can prevent this or in some cases such as with prearranged marriages or slavery force people to get married or have children. The same applies for all kinds of friendship as well in Roy and Biv. Roy countries often see Biv countries as decadent and indecent409F[[407]](#endnote-407), Biv can see Roy countries as repressed and sexually violent.

Blue people sexually tend to conform like Red; because they survive according to how well they work and compete they tend to select mates that fit into this work ethic. They usually want to raise a family, fit in with other relatives and friends they desire to conform rather than be ostracized to Blue Indigo. Church views of Blue sex are against deviant behavior such as promiscuity, homosexuality, adultery, bigamy and divorce. However people may be free to opt out of the Blue community to go to the Blue Indigo fringe, they might feel economic pressure to conform to keep their job and please their customers. For example Blue people might be conformists and might not want to patronize a store where a worker is gay or divorced, because their church preaches against it. A Blue Indigo store might have Blue Indigo patrons avoid it if the workers are too conformist, for example a gay bar might prefer to have gay people working there. Blue is highly competitive, secrecy and deception can be part of the mating rituals with people dressing up and woman using makeup to change their appearance to get a better mate than they would otherwise. Alcohol and drugs might be used to reduce inhibitions of a potential mate by coercion for sex would by Roy and regulated by the Orange police.

Blue Indigo represents those who sexually don’t fit into Blue conformity and tend to be ostracized and form separate communities to some degree based on openness and a team instinct. This deviancy can be open, such as where gays come out of the Blue closet into Blue Indigo openness as part of a team of other gays in a community. This open attitude can be a target for Yellow Roy societies such as many Islamic ones in which gays might have to form a more militant Red Orange gang or teams to protect themselves against Yellow homophobes. Interracial sex can occur more in Blue Indigo as different races usually have their own Blue or Red conformity in their families and feel some pressure to marry one of their own race. The deviants or dissidents to this might move to the Blue Indigo fringes where they can mingle without prejudice. Nightclubs, bars, dating agencies, can be an Indigo market where people can go to find more diverse partners. Like the Indigo market in economics it represents two kinds of people in Indigo Violet and Blue Indigo. Blue Indigo women for example would go sometimes to these places, which would be forbidden in Blue society. In many cases Blue people have the same urges as in Blue Indigo but there is a pressure there to be secretive and deceptive about it, so people have affairs, stay in the closet as gays, secretly visit prostitutes, and in many cases might engage overall in the same sexual activities as in the Blue Indigo fringe except it is hidden so others in Blue society don’t find out about it. When they are exposed there can be scandals and often these people are then ostracized into joining the Blue Indigo fringe. Sometimes this can be from their highly competitive nature, exposing someone in an affair or being gay can allow them to take their job or gain some social advantage so hypocrisy can profit Blue people.

A nightclub might be primarily Blue Indigo and have openly gay partners, swingers, adulterers, prostitutes, interracial couples, and heterosexuals mingling in harmony with a sense of community much like a trade union where their numbers give a strength and immunity to be attacked so they don’t need to hide anything. If attacked by Yellow gangs like neo Nazis they might defend themselves as Red Orange, for example gay bashers might find many gays together capable of defending themselves and also having weapons. If the nightclub is Indigo it can have some Indigo Violet people, such as single men from the secretive and deceptive Indigo Violet areas slumming in a predatory way to meet someone in this sexually relaxed community. Here can be a mix of Indigo Violet and Blue Indigo genes, offspring would have some Indigo Violet talent and Blue Indigo teamwork. Indigo Violet people are usually secretive and loners, so they might be in the closet as homosexuals and visit openly gay Blue Indigo clubs.

Indigo Violet social clubs would tend to competitive, much like salesmen with a more deceptive approach. While Blue Indigo people would tend to not dress up and wear makeup as much, Indigo Violet are competitive and like Blue social gatherings use makeup, deceptive clothing to accentuate or hide bodily assets or flaws, might exercise to appear to have a better physique then their natural one, wear expensive or fashionable clothes which give an appearance of wealth, and so on. Deviance would be secretive, people here are generally talented and don’t want to lose a competitive advantage at work by being found out to be gay, an adulterer, or someone bringing their business or friends into dispute. They are similar to Blue in many ways and might seek out an equally secretive partner there, such as gays so they can both stay in the closet. Both of their communities would disapprove, the Blue person might be ostracized if outed and the Indigo Violet person might also be ostracized because their society often looks for a chance to discredit others to get ahead.

Violet people sexually are similar to Blue Indigo in that they are open and have a sense of teamwork and community. If someone is talented enough to rise to this level they might feel confident enough to be openly gay, promiscuous, get divorced or have affairs. An outed Indigo Violet person might go to this color level, this is seen in Hollywood movies where many Indigo Violet actors and actresses are gay but cannot be honest about it because others would use it to damage their careers. Some manage to come out and then form a team of talented people that have enough connections to survive the disapproval from conformist audiences like Blue. The idea here is Violet people have proven themselves to be exceptional in some ways and important to society and because of their team connections they can ride out the occasional disadvantages of not being secretive and deceptive about their sexuality. Heads of business, movie stars, musicians, might be followed in the media being promiscuous, having children out of wedlock, being gay, with no need to be secretive as in Indigo Violet.

Generally Biv society allows people to have offspring in a tree form of lineage, hence the saying family tree. Talents evolve in these trees as the genes are mixed from a person’s ancestors and if they continued to select partners for such as medicine the genes useful for this can come together. At some stage when these genes are sufficient for someone to be seen as talented in medicine they move into the Indigo Violet and Violet part of the family tree where there are branches looking to the future rather than the roots in the past. This person’s descendants then would be seen as branches and according to how talented they are they might end up in a branch of medicine such as Neurology or Cardiology or stay on a lower more general branch as a General Practitioner. If they evolve higher up in this tree their descendants might become Violet where they join with teams of other medical professionals.

In Blue and Blue Indigo then the family tree consists of roots only because different genetic attributes become mixed together, for example a farmer might marry a miner and then their family marries a truck driver so these genes select for the ability to work hard. If farmers continued to marry other farmers then over many generations these genes would become highly selected for the job of farming and they might develop talent for going to university and studying agriculture in Indigo Violet and Violet parts of the family tree. So instead of just showing the family history as roots of a tree as used in genealogy it can be displayed as roots and branches and the more talent in the family the more branches, and the more working class the more roots. A society is the total of many families so overlaying all their family trees on each other it would appear like a forest with branches of talent and roots of workers.

Beautiful people can select others like them and have more beautiful children; they might then rise to Indigo Violet becoming models and actresses. Actors and people working in film such as producers and directors tend to intermarry in Violet where different talents are combined into new ones, like an actor with genes for direction might be a better or more versatile actor. Often athletes also intermarry with musicians and actors in Violet forming attractive talented actors. Aristocrats in Biv society intermarry and by favoring each other can rise in society with Violet connections. People in Indigo Violet and Blue tend to marry people with similar talents to themselves because in a highly competitive environment this is the best way to improve their genes. A truck driver might marry into another family of truck drivers because he expects his sons will be good truck drivers too. If he married into a farming or mining family then his children would be more Blue Indigo with a mixture of skills, this works well with the team instinct in Blue Indigo where people of many skills cooperate rather than compete with each other. When people are Blue or Indigo Violet they narrow their genetic abilities because they seek to improve their genes by marrying someone similar to them, and this is at the cost of making their genes less resilient in hard times because their talents become more specific. Improvements in their genes are chaotic because they are planned, if they evolve more specific talents and they become redundant then their ability to earn an income collapses with a tipping point. Blue Indigo and Violet people however have more varied genes and this gives them more random chances of serendipitous combinations of them giving a new and useful talent, but they are less competitive if they cannot find others to team up with because their genetic talents are scattered rather than concentrated in a specific ability.

In Roy scarcity makes people act as predator and prey in a negative sum game. Blond hair or some other desirable trait in a woman might be scarce in a Roy society and she might be in danger of rape, intimidation, or unwanted attention for it. She may have to hide it as women in Islamic societies have to wear Burkas or even dye her hair. In a negative sum game predatory men miss out on her genes even if she must also miss out on dating opportunities. This can become an Orange police matter, if the society is Orange Yellow in policing then women might have fewer rights and if men can secretly and deceptively rape or force women into marriage then this may not rise to a sufficient standard of proof to catch them. This is like Indigo Violet relationships in some ways where secrecy and deception are used but here they are used to stalk a woman like prey and she uses deception to avoid them, in other cases she might stalk the man she wants like prey.

Yellow men could propagate their genes also with violence but more overtly, such as royalty or gangsters often being able to compel women to submit to them or they can use their power in society to attract them as a kind of aphrodisiac. To defend against this some women may form Red Orange alliances to protect them, for example a gang in a Latino neighborhood might punish Yellow predatory sexual behavior again women there. This is different from the Violet and Blue Indigo sexual relationships where the diversity in those colors allows people to break social mores, here in Roy the team instinct is used for protection from others while more open relationships still occur. For example Yellow homophobes may form gangs to attack gays who defend themselves in Red Orange gangs, Yellow groups of men may seek to find a Red lone female for rape because she has no protection against their numbers, but if she has friends of her own she can travel with them and they could mete out revenge. The difference is in Biv sex might be more abundant because of the double win assumed in relationships where both parties benefit, where sex is made scarce such as by religious prohibitions or by a large disparity in the ratio of females to men or vice versa.

Men might be considered more powerful and so in Roy society could treat women as Red Orange prey, to be courted by intimidation and women resist as Red Orange to take the least bad mate from this. In Islamic countries sometimes women can be blamed for being raped, compelled to marry who their parents select, be legally beaten at times, be unable to withhold sex, have less property rights and so on.

Feminism developed as a Red Orange reaction to Yellow domination of women. Just as animals attacked by predators become stronger and bacteria attacked by antibiotics become resistant, women developed resistance to male domination. Orange Yellow men used deception and secrecy in seducing women, women might keep this a secret to avoid a stigma and the suspicion they encouraged it, even to the extent of faking blood from a hymen on their wedding night. One defense to Yellow rape and Orange Yellow seduction was the development of abortion or having a child in secret, for example a girl might get pregnant then pretend to go on a trip while they have the baby in secret and have it adopted.

Abortion was a dangerous yet common practice in England in the 1800s, common law defined it as legal in the first trimester or 3 months of pregnancy but illegal abortions were also practiced. So abortion evolved as a defense in Red to hide the consequences of a rape or accident, and Orange police attempted to find a balance between the rights of the mother, the father, and the unborn child. Red women tried to deal with an unwanted pregnancy secretly to maintain Red conformity in the community, others might become ostracized to the Red Orange fringe if found out to be promiscuous, pregnant out of wedlock, a lesbian, and so on. This developed a Red Orange fringe of dissenters and nonconformists and as they tended to socialize together had offspring with their viewpoints and traits, from this came a more feminist viewpoint where women would defend themselves by working as a team and fighting back rather than the Red strategy of running and hiding.

So this concentrated certain genetic traits such as homosexuality, larger and stronger women rather than Red meek and flighty ones, those more courageous against male arrogance in what women could and should do in society, women becoming Red Orange soldiers and police, being open and honest about issues rather than secretive and conformist, and so on. Over time this can lead to a fairer balance between the sexes in society and influence on the Orange police to give more rights to women because Orange always tend to find a middle ground between the left and right so as not to be attacked too much by one side or the other. In this process conflicts between Red Orange women and Yellow men became more violent such as in women getting the right to vote, standing up to rape, demanding to keep her own property or get child support and part of their common property in a divorce, equal wages for equal work, and soon . Homosexuality in Red Orange also fights for Orange protection under the law. A common response in Orange is that homosexuality should be secretive and thus confined to Red and Orange Yellow. An army that is right wing might want it to be secretive in Orange Yellow, with Don’t Ask Don’t Tell.

Yellow armies have through history been associated with rape, from such as Alexander the Great, the Roman Empire, the Mongol Hordes, Tamerlane and his armies, and the Nazis in World War Two. Often such armies were like Yellow predators in that they were a team of Yellow soldiers who profited from pillaging towns; these were occupied by Red people inside Red Orange walls, moats and with Red Orange soldiers as defenders. Usually plundering by Yellow soldiers was not allowed in the Roman Empire unless the town was actually defeated such as by a siege, if the town surrendered the Yellow army received only their wages. Under Tamerlane plundering occurred unless the town surrendered immediately and soldiers were free to rape, kill and plunder at will. If the town later rebelled Tamerlane often killed everyone in them and destroyed all the buildings so the town ceased to exist, Babylon’s inhabitants were all killed when they rebelled.

The open strength of the Yellow team can lead to a secretive and deceptive fringe of many people with perceived weaknesses such as homosexuality, cowardice, corruption, etc. They are often seen as inferiors and need to hide this from the open, honest, and more violent Yellow people. By contrast deviants to the conformist Red community go to or are expelled to Red Orange areas which are more open and honest about the issues leading to the expulsion. Because Yellow is stronger the weaker ones get expelled into this Orange Yellow fringe where they can be secretive and deceptive, also in this fringe those strong enough to be outed about their deviance and team orientated enough can move up into Yellow. Red develops a stronger protective fringe around it while Orange Yellow evolves a stronger center.

This gives a sometimes violent conflict between Red Orange outcasts, misfits, and deviants who form this stronger and more open fringe society fighting for their rights against Yellow Social Darwinists who see Red Orange as standing in the way of their natural domination of others, like lions seeing themselves as kings of the jungle but often unable to beat larger Red Orange animals like elephants and buffalo. This pressure from Yellow on Red Orange society can be intimidating and some may be tempted to return to Red society and survive by being secretive and deceptive, for example some Red Orange gays may be intimidated into returning to the closet or pretending they have been cured of homosexuality by a Red or Orange Yellow church organization411F[[408]](#endnote-408). Red secretive society has ostracized them though so returning to secrecy and deception may not be easy because Red being competitive doesn’t want Yellow homophobes attacking them for suspected gays among them, so gays must defend themselves from both Red conformists and Yellow homophobes. This leads to an evolutionary pressure to stand up to Yellow, who sees them as a threat to their natural right to rule by being superior, Yellow gangs might assume that because they are strong and don’t like gays then they have the right to meet out their version of justice on society.

Other kinds of relationships such as friends and enemies, family ties, business and official relationships such as at work or church, and so on also tend to conform to color codes. In Biv these relationships as before are cooperative or competitive and in Biv based on predation or defense. In Blue there is a solitary aspect to their strategy for survival, for example miners might have to protect where they find gold, farmers tend to not trust strangers for fear they might be robbed. Because Blue doesn’t create Blue Indigo unions by itself but relies more on expelling people to form a Blue Indigo fringe and then using them as a shield, Blue people can undercut each other in business to the point of financial ruin. Many might have deviant ideas and should be in Blue Indigo but hide these to conform; this makes it hard for them to be too close with other Blue people. Minding one’s own business is important in Blue, new neighbors might be viewed with suspicion for a long time and watched carefully for signs of deviance which can lead them to be marginalized in the Blue community.

A good example of this is with Red shoals of fish, they conform to each other so they can swim together but if there is danger they will scatter rather than protect each other. Like the Blue roots of a tree they compete with each other and the cooperation of having many extra pairs of eyes looking for danger is mainly used to desert the others when in danger. The roots of a tree each compete separately to find nutrients and one root doesn’t slow its growth because it might be taking nutrients from another root, instead where they join together in Blue Indigo the nutrients are mixed in a way that the roots cooperate there. If one root succeeds then another root may miss out and wither. With Blue workers it is a similar situation, each man tries to work hard and usually doesn’t care if his hard work leads to his getting a better job or promotion and someone else being fired. He might aim to buy a better house and furniture, in the process he watches what his neighbors are doing like the school of fish does to see if they are confident about the economy in which case he might buy a house or if everyone is nervous about their jobs then he might wait.

So this apparent cooperation in society where people watch over each other is to gain a competitive advantage rather than helping others. In the Inuit tribes people would develop complex ties to other tribes in case weather or poor fishing affected them, then they could draw on these favors later to help them through tougher times as a form of Blue Indigo insurance. The Bushmen in Africa also make ties with other individuals in different tribes with gifts412F[[409]](#endnote-409) to insure against bad times in the same way. In New Guinea a tribe might have agreements with others to borrow a certain amount of food or stay with a neighboring tribe for a time, like a Blue Indigo insurance for a limited amount. No community is completely Blue and competitive, they usually have some Blue Indigo cooperation as with the Inuits and Bushmen, by helping each other out the community can insure themselves against random disasters while maintaining a highly competitive system that maximizes their chances of succeeding as individuals.

Blue Families can scheme against each other for advantage; sometimes they have to be secretive with each other to protect themselves. Other families might be more Blue Indigo and support each other more as a kind of insurance. Often a family will have a variation in the color codes of their children; a Blue family if adapted to a kind of work such as farming over generations would likely have a range of Blue and Blue Indigo children. Blue children usually have strong willpower and are hard workers, this helps them to succeed in having children themselves, like Darwin’s evolution the hardest working tend to survive here but they also tend to revert to the mean and have some Blue Indigo children who are not good workers, they would tend to marry other Blue Indigo people because Blue being so competitive would want to marry someone just as competitive as they are. Sometimes these families have children from other color codes; one might by Indigo Violet with some talent and goes to university and another Violet becoming a well-known artist. Others in the family can be more Blue Indigo and might not be able to conform like the Blue family members; they may have to leave as they cannot pay their way. For example they might have poor health, be disabled, be too frail or delicate for hard work and so on. Instead of being solitary Blue people they often overcome this by Blue Indigo teamwork, the less able children are referred to as Cannot in Aperiomics which means they want to compete against Blue but they cannot and so form teams to cooperate and overcome the advantages Blue people have. If the Blue members of the family plow the fields, Blue Indigo might help thresh the grain, tend animals, help with bookwork, defend against outsiders, and take produce to market and so with this teamwork they compensate for not being able to plow the fields.

Scholastically then poor students can find work because of a cooperative altitude in families and connecting to other families, one helps to find work for a child from another family and gets other favors in return. So by teamwork Blue Indigo families make the equivalent of whole workers, a disabled clever child and a strong but less clever child might team up as friends to overcome the inadequacies of each other. This is common in friendships, Blue Indigo friends make a gang or group and the abilities of all are combined. A kinship also forms from being looked down on by more able Blue workers and people in school, social outings and so on. This is a common sight in schools where is can also form a student union, at work it tends to form trade unions. When Blue and Blue Indigo are balanced in a community the abnormal ones, or the ones less suited to hard work are looked after, encouraged to work together and the community gains from it. So survival of the fittest implies the inadequacies of one person or animal make it less likely to survive and so their genes should die out purifying the Blue gene. Instead Blue Indigo overcome defects by teamwork, so that these defects are advantages sometimes.

For example Red herd animals such as Zebras survive by superior speed and hiding from predators. They are Red because they don’t team together when danger threatens. Some offspring might be slower and stronger and if the herd scatters they might still survive despite being slower and perhaps less alert against danger, so this selects for a slower and stronger animals less likely to run at the first hint of danger, and if they survive often enough like this then they start to evolve as a separate species to the Red animals. They might survive this way against Yellow jackals or wild dogs in Africa, but be easier prey against Yellow lions so the mix of Orange Yellow and Yellow predators can determine the mix of Red Orange and Red prey. If lions are rare this pressure to team together and fight might evolve Zebras into something like Buffalo, for example Zebras try and defend their young against hyenas by putting the younger animals between them. If this strategy fails then Zebras might evolve to run away earlier at the first sign of danger and try to hide more in long vegetation, if it succeeds then other Zebras might learn to do this together and they would start to form tight herds like buffaloes with the young kept in the Red center. Buffalo can defend themselves against lions to some degree and even take back young buffalo taken by them413F[[410]](#endnote-410).

In the same way there is an evolutionary path for Blue Indigo people. Blue people attract mates by working hard and by avoiding less suitable mates; Blue Indigo is an accumulation of these rejected mates who then form a separate group by offering the security of a gang or group of friends and cooperating to overcome their defects. For example Red Orange may have evolved taking goods to Indigo markets and by their numbers overcome Yellow highway robbers like the buffalo do, something Blue workers are not suited for. In the Biv economy Blue Indigo evolves to handle Violet businessmen wanting to make deals outside the Indigo market, if Blue Indigo has the strength to negotiate deals in this way they can make a profit, this is like Red Orange defeating Yellow predators. Also if Blue workers are specialized for hard work then it is more efficient to delegate other tasks to Blue Indigo. Buffalo can act as Red Orange teams to sometimes hold their own against teams of Yellow lions while the younger animals are protected to grow up safely, elephants as teams are even stronger though a solitary elephant can be taken down by a team of lions. If Violet talented people form a team or gang in business then they combine their talents to overcome their own defects because individually they may not be as talented as some Indigo Violet people.

In school and social gatherings there can be rival gangs, Blue Indigo is usually defensive and Yellow such as neo Nazis predatory. In Biv there can be a Violet group of talented people in school, by being attractive looking, athletic, smart and supporting each other they may attract mates more easily, they would go into jobs needing more talent. A Blue Indigo gang might offer a rival attraction to those who look for a team, gang, group to feel secure in and for those who will join the working classes. Marrying into the Blue Indigo group is good for people without Violet talent but an instinct to work with others. Sometimes they can be stronger and Violet people can be ridiculed and harassed, and made to feel being a good student is unpopular or dangerous as happens in many schools, a student might feel under pressure to not study because of this.

Indigo market friendships can form in schools by a recognition of the strength of the Blue Indigo gang of group of friends, so Indigo Violet loners want to make peace with them. In exchange they might use their superior talent to help with schoolwork, fix their cars, and mediate disputes with the Violet team. Their loner ways can be useful to people in Violet and Blue Indigo teams, sometimes things can be done better that way rather than with the peer pressure of a gang or team. A Blue Indigo family might include relatives who are solitary Blue workers and Indigo Violet agents; they use their group powers to mediate business and disputes between the two. This is similar to how Red Orange gangs, shepherds and police protect Red poor people from predation.

Indigo Violet people have more individual friends rather than being in a group or team. They might be loners to some degree at school, be secretive and have some talent at schoolwork, sports, art, music, might be attractive and so on. They can also have something to hide, for example some might be secretly gay or geeks. Some of them have ties to Blue Indigo groups and others have ties to the Violet gang of elites so they can ask for protection from each and mediate communications. If talented enough and good at making friends they might be able to join the Violet elite or they might if failing in the highly competitive educational system end up joining Blue Indigo for union protection to getting a job after school. Indigo Violet families sometimes have Violet relatives who are very successful with connections to other Violet people, and others who act as Indigo Violet agents and salesmen who work in the Indigo market or they may represent Violet people. The situation is similar to Blue workers, Indigo Violet people are better off concentrating on their talents so Violet friends and family can do things for them as a team, help them to communicate if they are socially inept or have talent combined with Asperger’s Syndrome, and so on. A good example is the Big Bang Theory where Sheldon would be Indigo Violet and needs Violet friends who can communicate better with others to function in society.

Violet is surrounded by Indigo Violet and Red, both secretive and loners. Violet also socializes with the Red poor, persecuted, and disabled. It is common for Violet wealthy people, actors, sportsmen, to sponsor charities, visit disabled people such as sick children, act as spokesmen for charities, work in soup kitchens at Christmas and so on. Red people are nonviolent and are not usually a threat to the Violet team, and like Indigo Violet it gives them a place to socialize. By helping Red people Violet people have a chance to form friendships and romantic relationships with other Violet people in ways otherwise unavailable to them, this is because each group of Red people gets to know a different group of Violet so reaching out to Red people and losing time and money by helping them can give benefits through these contacts. This is like Violet flowers and fruits being cross pollinated and seeds moved to more suitable soil to germinate by donating food such as nuts, fruit, and flowers to Red animals. By giving Violet new ways to forge friendships and marriages it gives them an evolutionary advantage and because they are seen as useful in society they are more likely to be lightly taxed.

It may be the intermingling of aristocratic and talented Violet people in history with Red poorer people gave rise to poor illegitimate children with Violet talents. Stories such as the Prince and the Pauper illustrate this. Violet genes become increasingly generalized so having offspring with Red people who are highly competitive can result in children with talent and more ambition. Indigo Violet are highly specialized, separate branches might have medical specialists, sportsmen, actors, models, musicians, scientists and businessmen and there is no direct way to form relationships between branches to combine genes for evolution unless they develop the Violet skills to work as a team. If Violet people intermarry with Indigo Violet and Red people then this allows these Violet genes to become more specialized again and work their way back up to Violet with new talents. If so then charitable instincts in Violet may have evolved because they eventually lead to more talented people who still have the genes associated with poverty so these Violet people feel more kinship and sympathy for them. Like with cross pollination, those Violet people who were less charitable were killed off in riots when resources became scarce like the Red revolutionaries in the French Revolution, there could also be a pool of Violet talent they recognize in some Red poor people they want to nurture and bring into the Violet team.

There can be a relationship where Violet businessmen where they regularly give Red beggars change, if they didn’t do this then they might be mugged or verbally abused on the street. Violet people might join clubs such as Rotary and Lions to help the Red poor and at these meetings they meet with each other and form business relationships. These bonds also protect Violet just as generous trees with edible leaves, fruit and flowers are rarely attacked and often are looked after by animals. The French Revolution happened because Red poor people were starving and the Violet royalty was seen to not want to help them, the famous quote of Marie Antoinette about letting the people eat cake if they have no bread illustrates this sentiment. Marxism became popular because it portrayed Violet greedy capitalists letting the Red poor starve in the English Industrial Revolution.

Poor Red people in America get helped by Violet people with charity; they also have a Red Orange fringe of relatives and friends who protect them from Yellow and Orange Yellow criminals. Red then are more solitary people flanked by teams of protectors, Violet helping financially and Red Orange helping with security, so Red can also help to communicate between the two teams. In Roy Yellow and Red Orange are enemies, In Biv Yellow becomes Violet and befriends Red Orange who become Blue Indigo so here Violet can befriend Red Orange people through Red. In the book Gang Leader for a Day people living in the Chicago projects received government Roy welfare as well as Violet charity; they also developed a Red Orange gang that protected the area from violence by other gangs as well as Yellow crime. This gang became part of the community with many friendships with Red people as well as a lot of friction with those who preferred to be loners and didn’t want the gang’s protection. Gang members usually had Red family in the projects that they protected, and a higher status in the gang often led to having more children which means in that case having Red Orange team instincts made them more likely to pass on their genes. Red people were highly competitive with each other, also secretive about income while the Red Orange gang wanted this income to be transparent and punished those trying to hide it. Some Red Orange gang relatives would babysit for each other, share food when someone was short, pass around donated goods such as electrical goods and clothes, etc which acts like a social insurance against random shortfalls. The gang would donate food and throw parties, but also were highly competitive as Red in some ways by selling drugs deceiving people into becoming addicts. Red poor countries or those hit by natural disasters there also receive Violet aid and publicity, often they face attack by Yellow gangs such as in Darfur and have to defend themselves with a Red Orange militia.

Red Orange people tend to form friendships and mate together partially because of their being ostracized from Red society, for example being in a gang is looked down on by many Red people, but they also have family ties there which motivates them to defend the Red community as well as having a place to recruit for new Red Orange gang members. They might also have friends and family in the Orange police and legal system, Orange makes ties with the Red Orange gangs to control and moderate their battles against Yellow gangs and also to try to get around them to arrest Red criminals. This is like Orange animals in the middle of the food chain such as hyenas trying to get around Red Orange animals to kill their Red young, but also being at risk from Yellow predators like lions. Often Red Orange gangs can run an area with the cooperation or resignation of Orange police who recognize that the gang will police the area to some degree in keeping out Yellow and Orange Yellow criminals as vigilantes. In return for this the Orange police can have a crackdown on their gang activities such as drug selling if they become too violent or shelter too many Red criminals so there is a balance between them. In Gang Leader for a Day Orange police sometimes met with gangs and sat in on their disputes to give advice. Orange Police also encourage similar Red Orange organizations such as neighborhood watch, and in older times formed Red Orange posses to catch Yellow criminals such as outlaws. In South Africa townships might have a private Red Orange police from the community who catch Yellow or Orange Yellow criminals and turn them over to the Orange police414F[[411]](#endnote-411). Sometimes they would punish the criminals first to act as a deterrent in case the criminals bribed the police, this is like the Orange police having an association with Orange Yellow criminals and letting them off sometimes in exchange for information of Yellow criminals as well as becoming corrupted by them. So when Orange becomes corrupted by Orange Yellow criminals then the Red Orange community can take the law into their own hands, when the police become too corrupted by working with Red Orange gangs then the Orange Yellow criminals have little reason to give information to the Orange police on Yellow criminals. These Yellow gangs then grow more powerful and so Red Orange gangs are indirectly punished by corrupting the Orange police. This is like Orange police having a dual Red Orange and Orange Yellow nature, and sometimes siding with one side or the other for bribes which leads to a counter oscillation from the opposite color. Like the gangs in the American projects the Red Orange private police in the BBC documentary Law and Disorder in Johannesburg walked a fine line between persecuting a Red criminal too much, the Red community would protest the domination by Red Orange and ask the Orange police to arrest them. So Red can use the Orange police to keep its Red Orange fringe from becoming too powerful by becoming informants on them as well.

Orange police and the legal profession such as lawyers and judges can have good relations with both Red Orange and Orange Yellow, in some areas a case might have been decided by bribes, a plea agreement from one side, a settlement of money and so on. An Orange lawyer might after leaving law school instead of being completely neutral and defend both sides as Orange elect to be a defender of Orange Yellow criminals or he might defend Red Orange members of the Red community as victims. Orange Yellow might be more profitable to represent if they are successful criminals. Prosecutors and judges might side with Red Orange if they are seen to be protecting their community or they may side with Orange Yellow criminals if they see Red Orange gangs becoming too powerful and above the law as vigilantes. Lawyers the like some police might have attitudes more to the left or right than in the Orange center and overall the proportion of Red Orange to Orange Yellow lawyers may not be equal.

Because Orange lawyers might defend either side they can sometimes make more money by having more clients, they could form friendships and marry people from both colors, their offspring would then grow up and potentially become more neutral Orange police, lawyers, and judges. Police might have Orange Yellow friends who they protect as criminals for bribes or for information on Yellow violent criminals and organized crime, the courts and prosecutors usually accept these tactics and give prison sentences and leniency accordingly. The courts might also befriend some gang members as Red Orange protecting their community, giving smaller sentences or parole initially to persuade them to moderate their behavior or go straight. Orange can also moderate other issues, controversial subjects in the Roy community include abortion, the death penalty, pollution, sentence length for crimes, decriminalization of drugs, etc which can be criminalized to some degree.

On TV shows and in the media Orange neutral journalists try to present both sides and understand each of them, if they are biased to one side then the other will be reluctant to talk to them in interviews, this is like a biased police force alienating the opposite color like an Indigo Violet police being shunned by Red Orange communities. This provides a link between the moderates of Red Orange and Orange Yellow on both sides of an issue while the extremists are Yellow and Red. Orange moderators may try to be friends with both sides, respect each other’s point of view, and try to find a fair and balanced position between them. This can also be like moderate Red Orange Democrats and Orange Yellow Republicans who are friends, sometimes switch sides in a vote, and make Roy laws. They can also be Blue Indigo and Indigo Violet friends in the American Senate making Biv laws. A group of centrists can be Orange and Indigo and act as moderators by opposing extremism. Because most elections are decided by independents in the center laws are enacted which placate both sides equally, if one side is unhappy then at the next election a higher percentage of their side might vote and a greater number of Indigo Violet congressmen for example puts pressure on the Orange and Indigo centrists to help move the laws about those issues to the right to some degree. This placates them and if they go too far the Red Orange left will become unhappy, a higher percentage of their base will vote in the next election and the laws might be moved back to the left to some degree. Sometimes the base on one side can become energized in Red or Yellow and the Orange centrists lose control of the decision making, this can lead to wild changes in the laws and a corresponding violent backlash from the opposing color. For example Karl Rove calculated that the Yellow Violet American voters could be energized by the issues of God, guns, and gays to vote in such high percentages that the centrist Orange Yellow and Yellow voters could be ignored. The evangelistic voters were Yellow and Violet because they saw the left as evil because of abortion so they were energized with the idea of banning it. They also acted as Yellow by being against gays because of religious reasons and some homophobia. Guns were seen as embodying the Yellow Imperial aspect of American foreign policy and that the left were too dovish to defend the country properly.

This lead over time to a strong Red and Red Orange backlash among the left wing voters who saw this as an attack on their right to have abortions, Red women sometimes used it to hide an unwanted pregnancy and Red Orange women saw themselves being pushed around by the Yellow religious right, making a Red Orange versus Yellow heated war of words. Gays when secretly Orange Yellow and Red turned against these policies, this energized the Red base and undermined the right wing vote. This is also like the Orange police, here the centrists, reestablishing their influence by undermining the strength of Yellow by making more allies among the Orange Yellow moderates some of whom were gay and others had had abortions or knew of friends and family who had. Because they could not say this openly their secretive and deceptive nature caused them to publically be against gays and abortions but in the ballot box their percentage of voters dwindled. The Yellow tendency to attack viciously like lions usually results in war, in this case in Iraq and Afghanistan and meeting Red Orange resistance there caused them to overreach like lions attacking too many buffalo. This failure caused Yellow to lose more support and the political pendulum swung back to the left, perhaps too far with more Red policies known as Liberal being enacted. Normally the rise of the independent vote means that the policies will again become Orange neutral between the two sides. Orange tends to wax and wane in strength like this, when they waned under Karl Rove the political balance was upset but as it regrows it will become stable for a time then Orange will wane again. At the same time the Indigo market became undermined by strong Violet domination as seen by the growing wealth inequality in America towards Violet with crony capitalism, this favoring the far right disrupted the coordination of the Indigo market to some degree and helped cause the Great Recession around the world. It was not just in America but many countries had moved more to the Yellow Violet right to cause more market dislocation as well as a rising Violet wealth inequality.

Orange Yellow people form friendships with Orange police as well as Yellow violent criminals; they stand between Yellow dictators, royalty, organized crime and the Orange police and legal system. A dictatorship has an uneasy relationship with the courts, the police and the army because they are afraid they will be overthrown by them using Orange Yellow spies and informants. Marcos for example eventually had the army turn against him415F[[412]](#endnote-412). He had a lot of influence with the Orange Yellow fringe around his dictatorship by sharing the spoils, so he has a balancing act of corrupting some of them while others secretly side with the Red Orange protestors in the regime or are being paid off or blackmailed by the Orange police to work for them. So these Orange Yellow cronies of dictators have influence and friendship enough to profit from the dictatorship, sometimes they can marry into a ruling caste and become part of the Yellow team or they can remain secretive and deceptive and try to profit from intrigue and double dealing.

Royalty has had a similar precarious situation throughout history relying on the friendships and loyalty of lower aristocratic rivals and so Orange Yellow aristocrats here as well used their influence with Yellow while also negotiating with Orange law makers. For example the English Parliament was formed after the Magna Carta because of pressure from Red Orange Clans against the Orange Yellow King John after he attacked them deceptively with higher taxes. Richard the Lionhearted was more Yellow and joined the Crusades, his Orange Yellow brother John tried to depose him in his absence. Through his weakness King John allowed the clans to become united as Red Orange and to force him to sign the Orange Magna Carta reducing the power of the Yellow throne in England permanently.

Yellow organized crime also walks a fine line to avoid being betrayed by Orange Yellow smaller criminals or Orange Yellow police undercover. Some Orange Yellow criminals have influence with the police which allows them to not be charged for some crime, so it becomes profitable for them to inform on Yellow organized crime sometimes. Just as with Marcos and royalty Yellow organized criminals such as the mafia must use a carrot and stick approach of rewarding Orange Yellow criminals for loyalty and punishing them for betrayal while Orange Yellow must use secrecy and deception to maximize their own profits and survival.

Yellow people also have friendships with Green people, who are best seen as naturalists, Greenies in politics, and others who want to preserve natural environments. The relationship of Yellow rulers to Green can be friendly because they rarely seek to interfere with Yellow’s dominance. For example a dictator may have Greenies petitioning for national parks and protecting species but rarely on human rights because they are not usually advocates for Red people. In nature documentaries Yellow predators such as hyenas, lions, and cheetahs have been befriended by Greenies almost to the point of domestication but they don’t interfere with them killing other animals. David Attenborough has done many documentaries on Green nature but not on the politics of those countries except to argue for more preservation.

Green naturalists sometimes have friends with Green Blue people who believe in fencing off and exploiting commercially viable resources. The fence between Green and Green Blue moves back and forth according to how supply, demand, and prices make land worth enough to fence off as Green Blue, which is then worked by Blue people such as for minerals or farming, then it may be abandoned back to Green public land if prices decline or the resources become unpopular such as for example coal falling out of favor because of pollution. Sometimes as with any neighboring colors this can be contentious and create enemies, the bargaining process can also allow people to see the other’s point of view. Much of the world is now being divided up between Green and Green Blue like this, to preserve animal life and allow Biv plant like businesses to mine and farm.

This is similar to how plants strive to dominate as Biv forests because they recognize the soil as being fertile enough to make into more abundant vegetation thick enough to keep most animals out like a fence, when the land is more infertile or there is less rain then plants are much smaller and weaker so Roy animals dominate more with plants being more a Green public resource for them to feed on as they wish. Yellow animals prefer the open plains because it is harder for its prey to hide as Red, this however can adapt them into becoming Red Orange herds that protect themselves with their size and numbers. If they cannot protect themselves like this then Yellow predators become too successful and by keeping Red animal numbers down they ensure that their own numbers remain smaller as well. It is not to Yellow’s interest for them to become too powerful because they can sow the seeds of their own demise, this is also like Yellow dictators, royalty and mafias where becoming too powerful evolves Red Orange resistance or they become too powerful, impoverish the Red population and become poorer themselves as a result. It can be to their advantage for vegetation to not become too short, if they decimate their own numbers by eating too many Red animals then plants will become more abundant and grow taller, this gives more cover to Red animals and lets them recover in numbers and also allows more Orange Yellow predators such as foxes that use this cover to deceptively stalk Red prey. Yellow predators then have a more precarious position in nature as with royalty and organized crime, Orange Yellow tends to rebound to the point of challenging Yellow and this also forms an Orange middle of the food chain that restricts the power of the Yellow alpha predators like police restrict the power of the mafia.

Green Blue people have Green and Blue neighbors. They have Green friends who are naturalists that they argue over about whether land should be left free of development or not, and also Blue workers who want Green Blue to get as much land and resources for them as possible. So Green Blue like the other colors experiences a tug of war with the colors on either side which makes for a balance, if it goes too far to the right such as too much land for development then the Green environmentalists will gain in power until they restore the balance of a sustainable natural ecology. If they go too far to the left by allowing too many resources to remain public property then Blue workers will complain until they grow strong enough to take resources for themselves. For example fishing of whales, dolphins, and tuna are currently a controversial issue between Green environmentalists who want them protected, Green Blue who wants them to be caught and eaten where economical and sustainable, and Blue fishermen who compete with each other and would if unchecked use up all the fish and completely deplete the fishing stocks. This is because Blue as so competitive with each other, since they are also deceptive and secretive they tend to lie about how much they catch and get around fishing restrictions.

Green also has to strike a balance between Yellow on its left and Green Blue on its right. Yellow dictators thrive in economic scarcity otherwise a Biv economy grows and they lose power to Violet talented people. Because Yellow rules by power they have more influence when property is owned by the public as Green because they control more of Green. Nationalizing resources such as the Nazis in Germany gives them more power, but on the right on Green is Green Blue that wants to privatize or fence Green property when it is economical for the Biv economy to farm or mine it. Green must then find a balance between making property public to preserve it only to have Yellow dictators control and perhaps spoil it or allow it to be taken by Green Blue as private property in the Biv economy. When Green weakens then they cannot look after this public land so as for example in Saudi Arabia oil land might be nationalized and the environment damaged in some areas or taken by Green Blue private oil companies who might again spoil the environment as happened with BP in the Gulf of Mexico oil spill. In other areas Green can be much stronger so they can protect property from Yellow power as well as compel Green Blue developers to protect the environment when mining and farming it. In the same way Green Blue can become weakened in some areas so it becomes more of a conflict between Blue workers and Green environmentalists. For example the ocean can be difficult for Green Blue to mark boundaries for fishing so it can become a battlefield between Green Greenpeace and Blue fishermen trying to deceptively take as many whales under the guise of scientific research. Where Green Blue is strong then boundaries can be accurately measured, for example in Alaskan waters where quotas of fish are worked out by restricting the times Blue can fish and watching they don’t overstep this boundary. Green environmentalists watch them and so the fish are caught in a sustainable way which satisfies Green and because stocks are not depleted then the Blue fishermen are satisfied too.

Friendships and relationships also form directly across Roy and Biv color codes, particularly in a marginal society. Red and Blue people might socialize; Red people can be temporarily unemployed or disabled Blue workers. There can be a social insurance in Blue where people pay money into an insurance fund and receive unemployment benefits, pay an insurance premium to have bank loans paid if they become sick or injured, etc. The Roy part of the economy takes money from Biv for Red welfare but often it also runs businesses that are Green or not economical for the Biv economy to run such as the post office, buses, dams and water distribution, etc. Taxation can be regarded as a hybrid of Roy and Biv, businesses can be allowed to be private if they pay taxes that cover the public interest, for example cigarettes can be a private business that cause public health problems so a tax on them can pay for medical bills of people injured by cigarettes that disable them, make them unable to work and so Biv insurance schemes do not work efficiently in this case. Because any business has the need for some policing because it can hurt some people with its products they need to pay tax for Orange policing, also they need to pay towards national defense to stop attack from other Roy nations and armies. The employment tactics of Biv businesses can also hurt people such as not wanting to give jobs to disabled people and those less skilled or out of work too long, so letting the Indigo market freely work in hiring and firing workers leads to some casualties as with cigarettes so in exchange for allowing the Indigo market to operate businesses must pay taxes for policing of their discrimination against some job applicants as well as Red welfare for those people they refuse to employ on good enough wages. When the marginal society is well balanced the damage caused by the Indigo market is policed and compensated for while the public businesses of Biv are restricted to where Biv businesses cannot or will not operate. For example public bus systems are efficient when they are needed and Biv businesses will not run them without injuring some people such as by not providing cheap fares to poor people and not covering less economical routes.

Red people are usually this poor disadvantaged community hurt by the Indigo market because it allows predators to attack them and substitutes the Indigo market for when the Orange police are needed. They tend to be fed by Violet with taxation because Violet in most societies ends up with the lion’s share of the wealth and so can afford to pay the most tax. Much of this assistance to Red is given voluntarily such as with tax deductible donations but as in nature sometimes Red people like Red animals take eat more than Violet can provide provoking them to defend themselves. There is a balance then between Violet, Red, and Red Orange when if Violet is too greedy then impoverished Red people are defended by Red Orange gangs who attack Violet and rob them. If the Red Orange gangs are too strong and impoverish Red people then Violet charities may help them like plants giving food with their Violet leaves to Red grazing animals. For example Red Orange herd animals like buffaloes may overgraze an area but secretive Red animals can find small areas of plants hidden that they can feed on without the Red Orange animals being able to eat without breaking up their herd and leaving themselves open to danger. If this Violet food is too hard to find then Red animals may start to die out and Red Orange herds can uproot plants and knock down trees for food as elephants do for example to Acacia trees. This restores the easier to get food by selecting against trees that defend with thorns and grow too tall to feed from.

Social relationships between Red and Blue can involve loans and gifts of money since Red often acts as if this Roy insurance was theirs by right so they can take too much from Blue friends, this can lead to them splitting apart to some degree and ensures that Red and Blue people while similar in some ways also stay separate in others. Blue Indigo and Red Orange can also make friends. A marginal society can alternate in areas from Roy to Biv and so Blue Indigo business can be attacked by Yellow predatory businessmen. For example Blue Indigo unions lost much of their pension funds in the great Recession because of Yellow financial fraud. General Motors and Chrysler, also several airlines in the years before this went through bankruptcy and Blue Indigo union workers lost their pensions. Later these companies made large profits for management by paying much lower wages. With stagnant income growth for Americans and a second gilded age of wealth for the richest people, this led to a strong protest from Democrats, a Red Orange series of demonstrations and what was referred to as Bush Derangement Syndrome. Blue Indigo unions feeling themselves under threat raised more donations for the left along with a common cause uniting Democrats as Red Orange gave them more people voting which with more Democrats elected should restore more of a balance between Violet and Blue Indigo. It is then dangerous for Violet to succeed too much against Blue Indigo unions because the resulting scarcity can turn some of them into Red Orange gangs and protestors who can then attack Violet, reduce their influence and restore the balance with more union laws safeguarding them.

Indigo market people and Orange police also have bonds between them; the Securities Exchange commission has a mix of Orange police and Indigo market coordinators. They must allow Indigo market coordination to continue, but also prosecute as Orange police when Roy predatory behavior occurs, though often the two jobs are hard to reconcile416F[[413]](#endnote-413). Corrupt police can have Roy and Biv aspects; they might fight Roy crime where there is a clear victim or someone being preyed on, and take payoffs for allowing some victimless crimes to go unpunished such as in the Biv drug trade with Ecstasy and Marijuana.

Indigo Violet salesmen and agents can have cordial relations with Orange Yellow ones practicing fraud. A sales office in a marginal society might have some Orange Yellow salesmen that practice deception and fraud while others are more honest and sometimes earning less as Indigo Violet. Eventually the Orange Yellow salesmen might get the company sued if the economy is Biv or they might also be arrested by Orange police for fraud. The dividing line between Roy and Biv can shift according to circumstances such as recessions, competing products, plausible deniability of dishonest sales spiels, caveat emptor, etc and in a corrupt Roy economy Orange Yellow fraud might be rarely punished417F[[414]](#endnote-414). The dividing line between Orange criminality and Indigo market coordination in the stock and bonds market with naked short selling, front running, Credit Default Swaps, laddering, Ponzi schemes, etc depends on changing laws because many apparently illegal and predatory trades in the market are allowed because of an excessive trust in Indigo.

Violet and Yellow often socialize together; there is a rich history of Yellow gangsters such as the Krays418F[[415]](#endnote-415) with socialites, actresses, singers and so on. Business on Wall Street can mix talented Violet quants with Yellow mafia connections419F[[416]](#endnote-416). Frank Sinatra had Violet talent as a singer but also had alleged ties to Yellow organized crime. These friendships can be unstable, Roy organized criminals rely on Yellow teams and connections to trusted people to avoid chaos from Orange Yellow informants and undercover police, also in a Biv economy where honest profits are possible Violet people are tempted to stay away from Yellow as it can lead to more trouble than it might be worth. Violet talented businessmen can have their Empires collapse in a recession and can seek out Yellow mafia money which can take over their business with their being forced out. Talented people can have their careers collapse from scandal or a fickle audience so often they can be undermined by Indigo Violet more talented people just like Yellow.

The media in a marginal society has a dual role, to provide information in a Biv and a Roy format. The media includes newspapers, television news, content in movies and TV shows, advertisements, blogs on the internet, videos on the internet, forums, and social networks. Information can be publicly owned in Green or it can be privately owned in Green Blue, such as with copyright, trademarks and patents. The blogosphere has become a good example of color codes in the media as all different political viewpoints420F[[417]](#endnote-417) are represented. Television is usually Biv if privately owned because the owner needs to profit from it, Roy television can be state owned or there can be public broadcast channels relying on donations. Biv media usually adapts to a particular color to be its audience demographic, or else it has TV shows distinct for a particular color code. Demographics421F[[418]](#endnote-418) and market research attempt to find out what these people in different color codes want and test marketing can show groups of people new shows and movies to see their reaction, as market research matures the tendency is to focus the media more accurately on those people most likely to subscribe, buy tickets in the case of movies, and buy products from advertising.

Blue people are usually working class and might want shows to watch after work. Because advertising will try to target what Blue people want and conform to what they believe in the shows need to hold their attention, actors will generally be Blue conformists, seen as hard workers in what they do, and the show will emphasize hard work, no deviant activities such as homosexuality, adultery, promiscuity, unless they want to see these as a scandal, and often the shows will be safe for children to watch. They are unsympathetic to Yellow criminals and like to see Red Orange police overcome them violently such as in car chases and shootouts while Red people run and hide. This is like Red Orange animals such as buffalo that battle Yellow lions while protecting their Red young. Blue workers are loners and concentrate more on work, and so they expect Orange police, and Red Orange parts of the police or vigilantes to defend them. They also have some distrust of the police because Blue is by nature secretive and deceptive, they realize the Orange Yellow side of the police might try and catch them in a devious way which makes them afraid sometimes.

A good example of this was seen in the documentary on crime in Philadelphia422F[[419]](#endnote-419) by Louis Theroux. Orange Yellow police patrol like foxes, secretly monitoring Red addicts who are relatively defenseless and pouncing on them like a predator in an ambush. Red Orange parts of the community protect them as well as sell them drugs and a mob can quickly form and turn violent so the Orange Yellow agents usually travel deceptively in unmarked police cars and get out quickly with the Red people they arrest. This is like Red Orange buffalo who can respond when they see Red young or vulnerable buffalo attacked by a secretive predator such as Orange Yellow hyenas under cover of night. Different color codes each see an issue from their own viewpoint rather than objectively, Red people are poor and perhaps have an addiction to crack or meth that they cannot break so they see themselves as victims needing to run and hide from the police to survive. Because of this they see Orange Yellow police raids as persecution and police sometimes providing work for themselves because Red addiction is not tackled in a way that could eliminate it, not are drug dealers who addict new people often arrested, sometimes these police act like predators corruptly stealing drugs and money or blackmailing people to not arrest them in exchange for informing on others.

Blue working class people in these high crime areas would see friends, perhaps relatives similar to them who have lost work and cannot break their addiction. They also see the police in a positive light because lawlessness and drug use makes it less safe for Biv areas and stops them collapsing into Roy. Red Orange people in this situation might be in a gang or can form a mob and riot or attack the Orange Yellow police. They protect the Red victims and in the documentary no one was willing to cooperate with the police because Red Orange people form a team to protect each other and Red people use secrecy and deception to survive. Blue Indigo people in these areas would form a neighborhood watch to defend their property and that of Blue people but they were more willing to follow the directions of the police.

Orange police have a difficult balancing act, to reconcile the actions of Orange Yellow police who are only following the law and convince people of their Red Orange side to help solve Yellow crimes with Red victims such as murder, rape, armed robbery, loan sharking, protection rackets, etc. Indigo shops have a difficult environment to do business in and cannot easily oppose Red Orange gangs because they can be very powerful but also because they have drug money can be good customers. Orange Yellow people in the area see police sometimes stealing from people and because they are often informants they can be allowed to commit some crime which makes Red people see the police as not protecting them. Indigo Violet people might see Red addicts and poor people as a menace or Red vermin that needs to be cleaned off the streets , like wanting Red sheep and grazing animals behind fences rather than running wild eating and attacking other people’s property. They also can also regard them as prey to be defrauded, objecting to Red Orange gangs which make it more difficult to succeed with scams such as with door to door selling, phone cold calling, etc. They would tend to support the Orange Yellow police and are right wing politically. Yellow people can be organized crime and violent criminals that clash with Red Orange gangs and mobs, for example a neighborhood in America with Red Orange black or Hispanic hangs might be close to an Italian neighborhood with Yellow mafia.

This is similar to the situations that evolved in Iraq and Afghanistan, explained in the book Fiasco423F[[420]](#endnote-420) by Thomas E. Ricks, the army coalition moved from a Yellow and Orange Yellow attacking force using Orange Yellow deception in shock and awe to an Orange police role in Iraq and they often adopted an Orange Yellow secretive and deceptive approach of ambushing suspects or raiding them at home or elsewhere. This is similar to police raiding Red drug addicts mentioned earlier, this bred resentment because often innocent people were arrested and some became Red terrorists using secretive and deceptive roadside bombs in revenge. Like the Orange Yellow police there was an unsympathetic view to the Red people and this led to the formation of a Red Orange resistance who protested openly like the mobs and gangs when Red addicts were arrested. Some people who acted as Red by not fighting back against military searches complained of being robbed like Orange Yellow police sometimes do and this led to an impression of the military as being predatory. Because there was little cooperation with the Red Orange teams in Iraq such as the tribal elders the military found it hard to be Orange neutral and this made people not trust them as much as was necessary to win the war against Red terrorists.

The other color of Orange policing is Red Orange, and General Petraeus adopted this approach of protecting the Red community from humiliation from searches by the Orange Yellow military as well as paying people compensation for goods damaged in raids or claimed to be stolen. The Red Orange tribes were paid to act like a neighborhood watch for Red terrorists and in exchange were allowed to police themselves, this is like Orange police in a ghetto allowing Red Orange gangs to police their own people in exchange for handing over more serious Red criminals as well as being like paying welfare to poor areas in American cities. The Iraqi police were strengthened as Red Orange, though sometimes they also acted as Orange Yellow against a different faith to their own, for example Sunnis might be more likely to rob Shia and vice versa. Just as with the Orange police the Orange Yellow actions of soldiers allowed Yellow criminals and terrorists to wreak havoc such as with the robbing of Iraqi museums and yet be protected by the Red population, who sometimes saw them as being like the occupying soldiers with themselves sometimes used Yellow violence. Orange Yellow soldiers also secretly tortured Red Iraqis at Al Gharaib prison free from the knowledge and reprisals of Red Orange tribal elders and protesting crowds of Iraqis. This became a war of secrecy and deception on both sides where Red terrorists used secrecy and deception to hide amongst Red civilians and pretend to be innocent when arrested, deceptive interrogation and torture was then used to get information but this was often deceptive misinformation. In the meantime Red Orange Iraqi protesters such as the Mahdi Army battled the Yellow Coalition forces openly424F[[421]](#endnote-421). A similar situation developed in Afghanistan where Orange Yellow raids by the CIA began to alienate the Red population, with Orange Yellow prisons and torture building a Red Orange resistance that joined the Taliban425F[[422]](#endnote-422). Also violent Yellow attacks such as bombing villages and killing many innocent people to try to get deceptive and secretive Red Al Qaeda led to this Red Orange fringe forming, and then joining the Taliban to fight as a team against the perceived Yellow occupiers.

The media covers situations like these according to the global political situation and the demographics or color codes of their audience. The right wing countries fielding Yellow armies tend to take a Yellow and Orange Yellow attitude and call Red victims and poor people terrorists while other more left wing countries might sympathize with Red and Red Orange calling them freedom fighters. Sometimes police actions in a neighborhood and army actions in another country426F[[423]](#endnote-423) can reach a kind of equilibrium where both sides lose lives and money, or blood and treasure. This is the negative sum game where both sides lose by being involved but believe they would lose more by giving up. Strategy is then dominated by the lesser of two evils, similar to the prisoner’s dilemma427F[[424]](#endnote-424) in law enforcement, and so there is no aim for a solution but just to moderate some of the worst problems. Evolution tends to bring both sides to this stalemate, the attacks on Red develop a Red Orange team based resistance that fights the Yellow team based forces, such as a pack of wolves attacking a herd of buffalo. Yellow like predators such as lions cannot aim to annihilate Red since that leaves predators without a food source. In war also the annihilation of the population usually defeats the whole objective of Yellow soldiers, even the extreme final solution of the Nazis against the Jews was resisted by others who wanted them as a labor force, and were not against Jews personally. The My Lai massacre showed the futility of trying to separate Red terrorists and soldiers from Red villagers because both were secretive and deceptive, killing the villagers in order to save them was not acceptable so the negative sum game of selecting the lesser of two evils as a strategy continued until there was a parity between the strengths of the opposing forces in Vietnam. Then the outcome depended on whether one side or the other would collapse chaotically in the Red versus Orange Yellow secret war or whether one side would be slowly ground down to defeat in the Red Orange Viet Cong versus Yellow South Vietnamese army hot war.

Orange Yellow must also not wipe out Red since this is like the fox wiping out their food source. So they play a cat and mouse game, the name comes from cats being Orange Yellow and mice are Red, Red terrorists as well as innocent people hide from Orange Yellow, act alone or in small cells because they don’t act as teams but prefer being alone, and strike back in secretive deceptive ways such as roadside bombs at the open Yellow forces.

Like in nature wars can become a Roy ecosystem where Yellow intends to accumulate plunder from Red people. In Iraq this may partially have been oil, at least intended to pay the cost of the war. Another factor was the negative sum game that developed even before 9/11, where smaller attacks were responded to with small counterattacks such as with cruise missiles, with few alternatives and invasion too expensive a token response was the least bad choice. It was necessary to compel other nations such as Pakistan, Iran and Saudi Arabia to ally with Yellow in the Iraq war to remove Saddam even though their main allegiance was to Red Islamic peoples. Al Qaeda in the negative sum game saw 9/11 as a least bad option to provoke attacks on Red Islamic countries, to thereby create a Red Orange resistance. This would overcome Yellow dictators and eventually restore the Caliphate.

This is similar to problems in various colonial Empires throughout history. India eventually developed a Red Orange resistance that forced the British to commit Yellow violence they were not prepared to do, and so they eventually left. Israel was formed from a Red people persecuted by the Yellow Nazis and in many other countries through history428F[[425]](#endnote-425) such as Russia, France, Romania, etc. When they were attacked by Yellow Egyptians in the Six Day War this compelled the Israelis to develop a Red Orange defensive army to last for decades429F[[426]](#endnote-426). Orange Yellow attacks by suicide bombers led to Red evolving secretive deceptive tactics in return, by assassination of Orange Yellow enemies. They are now evolving a Yellow faction in politics, this is normal as all twelve color codes tend to evolve in a society. This also tends to evolve to a negative sum game stalemate where the least bad option is selected by both sides rather than looking for peace.

In Western countries the media usually takes a Biv view, having little interest in these conflicts except that they are bad for business and sometimes spill over into these countries as with 9/11. This was a similar isolationist attitude to America in World Wars One and Two where it stayed out to pursue a neutral Indigo market strategy until forced to enter as Orange by German attacks. A similar attitude surrounds Roy conflicts in areas with scarce resources such as ghettoes. Orange police actions blend in with fictionalized accounts in crime shows and novels as Biv makes money from them, and it also profits from coverage of war and crime by selling advertising. The strategy is to contain these Roy areas, and to eventually turn them into Biv just as a forest tries to grow to encompass all the land it can. Roy ghetto areas are also contained by the Orange police, Red people leaving those areas except for work are not protected by the Red Orange gangs any more outside their territory, they stand out and can be intimidated by the Orange police not to loiter.

Roy media is bound up in the predator prey relationship and generally follows the logic of the negative sum game of the lesser of two evils. In a Roy nation the press is either government owned or substantially government controlled, sometimes this happens in Biv countries as well to serve the public interest. For example a newspaper might not publish details of a Yellow criminal to aid the Orange police in capturing him before he realizes he is a suspect. They might also print false information about a crime so the criminals believe they left no evidence. Other misinformation can benefit the public, the media may feel under pressure to say drugs are bad to discourage people from trying them, say epidemics are more serious than they really are to slow down new infections, reduce discussions about sex in case children are watching, censor political opinions if they conflict with the government, promote community initiatives such as saving water and not littering, give a patriotic slant on news if the government is nationalistic, portray the Orange police as effective and honest to discourage crime, and so on. This can be the secretive and deceptive side of the media with Red versus Orange Yellow and Blue versus Indigo Violet interactions, lies on both sides are used as a survival strategy so Red addicts may lie to each other that drugs are safer than they really are and Orange Yellow police and the media lie that drugs such as marijuana are more dangerous than they really are430F[[427]](#endnote-427).

Much of this secrecy and deception can conflict with Biv objectives, for example exposing police inefficiency can boost ratings and sell more ads and saying an epidemic is declining could get people killed but be a profitable story. The second kind of story is open and honest and involves the community as a team on one side or another of an issue; these are Red Orange versus Yellow and Blue Indigo versus Violet interactions. For example gang warfare is a Red Orange and Yellow issue in a community so usually these are written about honestly to get the community angry about them as a team, they might want tougher laws and longer prison sentences to curb them. Similar ideas can be in Roy media in Biv countries such as urging people to be alert for Yellow criminals on the run who might be using secrecy and deception to avoid the law or open Yellow violence with a gang, tell news shows about Orange Yellow rip offs in business that might then be exposed by an undercover reporter to make the Red Orange community take action and to boost ratings, phoning in reports of traffic congestion and accidents involves the Violet and Blue Indigo communities because people act as a team to report openly and honestly, and so on. Neighborhood watch newsletters might circulate in Red areas listing crimes committed and asking people to join Reed Orange defensive teams, to be vigilant and call the Orange police if they see suspicious people, similar to in Red Communist countries with secret police. So Red people can be a secret police, but with Orange and Red Orange to fight criminals and Yellow counter revolutionaries in Communist countries. The sense of Red community places safety above truth, as shown in 1984 where history could be altered where it would be disturbing to people or hurt the war effort. Similar things happened under Red Stalin, history was altered when party members fell out of favor and photos edited to deny their existence.

Red Orange media is more militant and can be used by terrorists and freedom fighters; it emphasizes people standing together and fighting rather than just be alert and sound the alarm in Red societies. This was seen in media releases by the Irish Republican Army who saw the English army as occupying Ireland in relation to the centuries of English occupation of Ireland which developed a Red Orange defensive resistance. The media might report on Red Orange demonstrations against a Yellow government or criminals in a take back the night campaign431F[[428]](#endnote-428), stories that make the Red Orange community angry rather than afraid such as reporting child abductions, sex offenders being released and living among them, attacks against the elderly and lenient sentences for Yellow violent criminals can make Red Orange communities act because the Yellow danger is not so strong that they are Red afraid and hide rather than Red Orange angry. If a Red society is afraid it can develop a Red Orange media as well as Red Orange gangs and mobs to deal with Yellow threats. Red media is usually positive in its reporting, looking though rose colored glasses at a world where Yellow and Orange predators should not exist, just as Red grazing animals can see no useful purpose for predators. In Red Communism positive thinking was employed, criticism of the party seen as negative and unpatriotic. This is similar to the ideas in self-help with positive thinking, that being positive and goal directed will lead you to success. Yellow negativity was said to demoralize people about the revolution and was guarded against in Communism.

This is similar to Red prey in nature, they have a positive attitude in that they need to get over seeing other animals being cruelly attacked and eaten. If they became despondent and stressed from this then this would interfere with their vigilance and being able to survive and procreate. Similar ideas are found in some parts of the church, seeing Jesus as a lamb and hoping the lion will lie down with the lamb, which is about freedom from fear and persecution. Red media then encourages people to stay positive through adversity; Blue media encourages people to have willpower to handle adversity. Blue teaches hard work will bring survival, Red preaches being alert, secretive and fast will bring good things such as food and water or escape from Yellow prey, both rely on chaos and improving the odds of success by plans based on cause and effect rather than random chance. Red sees Orange Yellow as its enemy, in religion this is not a violent enemy but a trickster seeking to deceive the faithful Red flock, like Red animals fearing foxes. They might bring heretical ideas which break up the Red conformism which is their main defense, there can be a lot of superstition and paranoia in Red because so many are secretive and deceptive rather than truthful, if witches for example were seen as a possible threat then this could be magnified with paranoia and lies until they are attacked. Red Communism did this to alleged Orange Yellow counter revolutionaries with show trials under Stalin, the paranoia and lies made it impossible to determine who was really guilty but safety was preferred by eliminating them.

In Red positive thinking planning and goals are important, this was also used in Red Communism with five year plans which are deterministic and rely on a plan based on cause and effect rather than serendipity432F[[429]](#endnote-429). Yellow Nazis emphasized the strength of the Volk or people to work with determination; the Triumph of the Will433F[[430]](#endnote-430) was a movie to celebrate the idea of the working class to try harder as Blue rather than turning to Red communism. So the rivals of Yellow Nazism and Red Communism each had a different plan for the working class, Red positive thinking and Blue willpower. Similar ideas appear in self-help books, while some emphasize Red positive thinking and plans; others discuss determination, persistence, hard work as the key to success. Nazis were Yellow but supported Violet talented people who would thrive if Blue workers like the roots of the Biv economy worked hard.

Yellow Nazi propaganda emphasized this Blue hard work and created vast amounts of slave labor to force Blue to work hard so as to create Violet art and architecture. Red people were seen as parasites on this economy just as Red grazing animals can be seen as parasites when they eat Violet leaves, and were forced into Blue slave labor or exterminated. By contrast in Red Russia workers were to be motivated with positive thinking and faith in Communism rather than needing determination.

Red Orange media is not only Positive it is Not Negative in Aperiomics, so it is against negativity which it blames for much of its problems. Red Communists would demonize critics as counter revolutionaries and often send them off to Gulags so Red society would not be poisoned with their ideas. When the Yellow Nazis invaded Red Russia the Red Orange propaganda demonized them and inspired Red Orange people to sacrifice themselves for the fatherland, much as buffalo might stand and fight Yellow lions to protect their young.

Such media will be tough on Yellow crime and emphasize successes in catching them, and blaming much of society’s ills on them. In Communism they attacked Yellow capitalism and imperialism as responsible for the problems in society, much as Blue Indigo media such as trade union media attacks Violet business management as greedy and not as talented and deserving of such a high percentage of the profits of a Biv business.

Orange media tries to give a balanced view of police actions, one example is overseas journalists in war torn areas. They try to show which sides are at fault and might interview Red Orange protestors and Yellow authoritarian government officials. Normally the evidence they accumulate would be grounds for convictions by Orange police and the courts but usually this has broken down in a war zone. They can also do stories on police corruption to show what police should be doing. When journalists talk to Orange Yellow criminals and soldiers they are often informers for Yellow dictatorships and organized crime. This is the way Orange works against Yellow, turning Orange Yellow cronies of Yellow against the Yellow organization and each other. When they talk to Orange Yellow soldiers in a war they are told Red people such as Communists are the problem and Red Orange gangs are stopping them from capturing them. They see Red Communists using Red Orange terrorism to overthrow the Yellow government which is often a puppet of a Yellow Empire to install a Red dictatorship as happened in Nicaragua and El Salvador. Such problems appear intractable for Orange journalists because it is a negative sum game that can only proceed by fighting and conflict.

Indigo journalists discuss the Indigo market and try to show where it is failing to coordinate like Orange journalists try to show how Orange police and the courts are failing. They usually analyze real estate and the stock market, and show where bargains may exist or when it is time to sell out but this can often be deceptive when the journalists are Indigo Violet as talking up stocks can be like a placebo because people buy the stocks recommended and the prices rise. Blue workers can be the target for much of this deception, they want them to have a positive attitude or to work hard on building investments in the stock market as this can give profits to their advertisers. If the market seems illogical such as in a boom or bubble then pundits such as from Blue Indigo and Indigo Violet offer views on it. Usually they take the side of either Violet management or Blue workers, one might argue their color code is not being paid enough or the other’s prices or wages are too high making the economy uncompetitive compared to other countries. Much of this argument can also be secretive and deceptive because in Blue versus Indigo Violet there is competition instead of cooperation.

Stories on market abuses such as insider trading by Violet management and hedge fund managers would rarely be discussed, this is like a Yellow dictatorship or organized crime in Roy where the team instinct causes the Violet media to have many links to teams of businessmen and they help each other out by hiding some stories in exchange for interviews and sometimes jobs for relatives. This can develop into a Violet aristocracy where there is corruption to subsidize Violet such as tax cuts, the media cooperating with short sellers by criticizing stocks they want to drive down in price, reductions in estate taxes, deductions for creating foundations though companies can still be controlled by the voting rights for this stock, lax enforcement of inside trading so cronies can make profits from each other’s contacts, lax enforcement of front running so brokers can buy shares and sell them at a profit to fill the orders of customers, enforcement officials willing to not prosecute in exchange for a job in the Violet team after they leave the SEC, etc.

Blue and Blue Indigo stories from the left wing media can discuss greed in Violet and Indigo Violet, often portraying them as Yellow and predatory. Other stories on the plight of the Blue worker and erosion of the middle class are similar to Communist propaganda about Red people being victimized by predators, the erosion of the middle class is about how Indigo can wax and wane because it is an unstable color along with Orange, how Blue Indigo unions are losing strength though often Blue workers don’t care about this because they free ride on unions to get wages without having to pay union dues, etc. Indigo Violet agents can be interviewed about Violet management, usually instead of appearing themselves management might send a public relations employee as their agent or representative. He is subjected to a similar questioning that the Orange journalist gave to the Indigo Violet cronies and criminals, trying to get more information out of him than Violet would want him to give but because Indigo Violet is secretive and deceptive he is more capable of misinformation to protect his client, Violet might cause trouble for himself by using too much candor. Blue workers might be demonized for wanting too much money, this is like the negotiations of deception that go on between Blue and Indigo Violet all the time, much like Red Communists were attacked by Indigo Violet to the Orange journalist. To defend Blue workers usually there is a Blue Indigo organization such as a trade union, consumer watchdog, and the Indigo journalist tries to get around them to ask Blue workers directly. Like Red however they are secretive and deceptive as well and might lie to a journalist exaggerating their own problems much like Red refugees can when being interviewed. The Indigo journalist then has the same problems as in Orange, in investigating the Indigo market problems he can get honest answers from Violet and Blue Indigo to some degree because their strength in numbers as a team makes it usually unnecessary to lie, but they can use Indigo Violet and Blue representatives to convey misinformation if needed.

Orange Yellow media is deceptive and attacks Red people calling them communists, terrorists, parasites, lazy, etc because when there is a Yellow dictatorship this gives cover and justification to some of their violence and robbing the countries resources. They have some alliances with Orange police and the courts as well as the Yellow ruling class and so must strike a balance between being too associated with Yellow and not having any credibility or being too honest and neutral as Orange and being attacked by Yellow, arrested, or losing their job. Sometimes they defend Yellow or bury some stories about them, they also sometimes attack the Orange police and courts or work with them secretly as an informant to pass on stories they don’t dare tell openly. Where there is some Yellow corruption in Biv politics such as organized crime links to politicians and judges, lobbyists paying off politicians or funneling money to their relatives as sham lobbyists, the Orange Yellow media is also often owned by wealthy Yellow and Violet people and they can be fired for exposing powerful people in the Yellow Violet team. So they need to walk a fine line of attacking this Yellow corruption and power because it is infringing on the Biv economy and can threaten to damage it like large animals in a jungle breaking trees, but not to be targeted by organized crime themselves, or having Yellow influence brought to bear to fire them or deny them access for interviews. As with Orange the technique to use is to find Orange Yellow cronies of these Yellow predators who have less of a team instinct and can give information secretly, much like Deep Throat in bringing down the Yellow Richard Nixon and Henry Kissinger team434F[[431]](#endnote-431).

In Yellow journalists propagandize for dictators; Goebbels was an example with the Nazi Party. They are also similar to demagogues in that they blame problems of society on the Red minority as Hitler did with the Jews, but they also threaten violence from their team. Documentaries on Yellow dictators can be made by this Yellow team of journalists such as with Hitler and the Triumph of the Will, where they discuss the leader from his perspective rather than from the perspective of his Red Orange enemies and there is not attempt at Orange or Indigo neutrality. In nature this is like a documentary on lions or crocodiles. Yellow journalism as currently defined is similar such as when Hearst used the media to advocate war against Mexico435F[[432]](#endnote-432). It is also similar to a war of words in the media calling out to other members of the Yellow Violet team to work together preceding an invasion, to manufacture a pretext for war as Saddam did against Kuwait, to incite the Red Orange enemy to attack first as Hitler claimed the Polish had done, to point to historical territorial boundaries as an excuse for war, to be enraged by the actions of the enemy as a reason for war, and so on. The main purpose of these articles is to communicate to other predators that there is a potential target and that the more of them there are the more likely there will be success and perhaps profit in it.

Violet journalism often focuses on the talented in the team such as sportsmen, actors, singers, musicians, businessmen, politicians, inventors, and so on. The stories are similar to Yellow in praise, such as stories on Hitler and Mussolini in the Violet media before the war. Sporting legends might have a documentary about their childhood and accomplishments later, the emphasis is usually how they excelled in a cooperative background where they were helped extensively to develop their full potential rather than a destructive competition against other sportsmen. For example they might have gotten scholarships, sponsorships, been treated with kid gloves by the media and had bad stories buried such as with Tiger Woods, been paid very highly, etc. Stories might also attack other Violet teams so one team faces another such as with rival prides of lions, for example on Newton’s invention of the calculus and the alleged plagiarism by Leibnitz436F[[433]](#endnote-433) where it became and English versus German war of words. This is similar to Yellow leader having a war of words against rivals, and also like rival lions fighting and threatening each other to gain their territories. The rise and fall of Yellow dictators and organized crime figures can be a war of attrition and random accidents hurting and helping members of their team, such as gang wars in the time of Al Capone where soldiers of the various mobs fought in the streets and usually one mob won where the other ran out of money and power. The Saint Valentine’s Day Massacre437F[[434]](#endnote-434) was an exception where Orange Yellow secrecy and deception created chaos undermining one gang. In the same way the rise and fall of celebrities is similar, if another Violet artist becomes better than them then this is like one lion being better than another, the victor might win the other’s territory in a war of attrition where one takes slowly over the other’s fans, ticket sales, music sales, speaking engagements, etc. This is seen in the music industry for example where two bands might be similar but one is older and begins to lose their younger audience slowly to the other band, declining concert sales can happen slowly and randomly because each fan could change allegiance without knowing what other fans are doing so this makes these changes independent events and random.

Drugs in a marginal society also vary in effects from Roy to Biv. Before Prohibition in America alcohol was a Biv industry and there was a growing movement to ban it. Mainly this was because it hurt a small percentage of the population such as with drink driving, alcoholism, health problems such as cirrhosis of the liver, families were poor because the breadwinner spent too much money on alcohol, selling to minors, and so on. Alcohol was Roy with these people because it hurt some people and others profited from its sale therefore it was not a positive sum game where both sides benefitted, rather it was a negative sum game because the prey or person hurt by the alcohol lost but the seller also lost because they had boycotts, protests, and lost sales because of this aspect of the market. Often they would have been better off not selling to these people because the negative publicity could well have cost them more money than they made from the sales. A similar argument could be made for tobacco, it causes cancer, wastes money because people often cannot quit, and advertising lured people into reducing their lifespans. Like alcohol, tobacco is a Biv industry which means the Indigo market generally tries to solve problems relating to it rather than Orange police but the victims of tobacco often try to find Orange justices by accusing the tobacco companies of Orange Yellow predatory behavior in addicting them with deception about tobacco’s effects and secrecy by withholding tests done on its dangers.

Both currently are a Roy and Biv hybrid. It is Roy illegal to sell alcohol to minors, drive a car while drunk, and make more than a set amount for personal use. Tobacco is also illegal for selling to minors and also to advertise in many ways. Prohibition tried to go to the opposite extreme, from a Biv market solution to completely Roy. Banning it caused Biv color codes to rebuild and so the Biv alcohol economy kept going to some degree. Orange police became partially corrupted into Indigo coordinators, they often allowed alcohol to be made and sold with bribes438F[[435]](#endnote-435), much as sometimes happens today with marijuana, ecstasy and cocaine.

This can lead to a balance between Roy and Biv with drugs, users are often left alone and often dealers work for long periods of time without being busted because both sides operate in secrecy or are too powerful to shut down easily. Red Orange gangs often distribute drugs for Red people and many Orange police could be killed in breaking up Red Orange gangs, but also then they would lose the cooperation with Red Orange that allows them to find Red criminals. They are also like a Blue Indigo union or cooperative getting a good deal for Blue people even though they are not part of the union, Red Orange gangs have ties to Red people and it makes it much harder for the Orange police and predators to bypass Red Orange to get to these Red people. Medical marijuana is following the Biv model with some Roy restrictions, where there is a legitimate market need then they can be sold to medical patients in the Indigo market, but otherwise users can be prosecuted by the Orange police. Blue Indigo dispensaries and doctors act like a cooperative to look after Blue patients and users, also protecting them against exploitation and deceptive additives and strengths of the drug like many Indigo Violet drug pushers would do, for example some marijuana might be sprayed with herbicides by the DEA yet sold deceptively as safe. Blue Indigo cooperatives can grow the drug more safely and free from pesticides. Sometimes Violet entrepreneurs are trying to improve the product to make more money, for example in the Netherlands cafes can sell refined variations such as hashish439F[[436]](#endnote-436). Dispensaries are to be kept away from schools; this is a Roy issue for the Orange police to protect Red children and restricts the Indigo market.

Yellow organized crime develops when a drug is made Roy just as Violet businesses develop when they are Biv. Beer and spirits for example can be highly refined for quality, this makes alcohol and tobacco more saleable and will over time do the same with medical marijuana as it did in Holland, for example there are many varieties of spirits made by Violet breweries that used to be made by Yellow organized crime such as Al Capone. When laws become too Orange then Violet businessmen might be replaced by Yellow criminals, as Prohibition shut down Violet distilleries Yellow ones took their place probably often using the same staff. Prohibition led to the rise of the American mafia just as legitimate liquor sales led to the rise of breweries, other Yellow drugs are now distributed by this mafia network such as cocaine, heroin and ecstasy. Similar organized crime developed around other illegal drugs, heroin was legal as Morphine in America and distributed by Violet companies in the Indigo free market then as it was banned it was taken over by Yellow organized crime and grown in countries with Yellow dictatorships such as in Afghanistan. This led to the same problems as with alcohol where some people were hurt by heroin for example, banning it completely as a recreational drug made it Roy and taken over by Yellow organized crime but made little difference to the supply to addicts. Some Biv uses have remained, for example morphine is used extensively in medicine much like medical marijuana for pain relief and this is refined by Violet pharmaceutical companies. Abuses of medication can be dangerous so there are onerous Roy restrictions on its use. Methadone is a Biv solution to heroin addiction; addicts are sometimes free to use this in the Biv system. Free heroin has been trialed in some Biv societies such as Switzerland440F[[437]](#endnote-437) in conjunction with medical treatment, which combine a market approach with medical supervision but this is not a free Indigo market.

Red addicts can become thieves to pay for drugs, and be protected to some degree by Red Orange gangs. This can lead to crack downs by the Orange Yellow part of the police, also the Yellow mafia may stop the Red Orange gangs from expanding. Red addicts can seem like vermin in the Roy economy much like mice and rats in nature because they are secretive and deceptive, steal and capturing them seems to make little difference to their numbers. Attacking them leads to Red Orange resistance because gangs evolve to protect them and make money from selling them drugs, the Orange Yellow dealers don’t have the strength to go against the Orange police in a drug crackdown also they are paid off by lower sentences to cut down on their drug sales. Orange police then wage a battle to control the Red addicts by letting the Red Orange gangs operate in exchange for controlling the Red addicts to some degree, they also use some Red addicts as informers against the gangs to control them. The war on drugs becomes similar to wars on diseases and wars on terrorism, the Red target is a pest because it consumes too many resources and builds Red Orange resistance to attacks. This is sometimes bad in nature as well; animals are usually in balance because Yellow and Orange Yellow predators keep the numbers down of Red and Red Orange prey. If Red becomes too strong by evolving defenses from these attacks then they can grow in numbers and wipe out Biv plant life creating a famine for themselves, for example if Red addicts multiply too much then they cannot find enough to steal and can die from withdrawal symptoms.

Also these Red animals if too hard to kill can cause Orange Yellow and Yellow to starve and dramatically decrease in numbers just as Red Orange black and Hispanic gangs reduced the influence of the mafia in drugs, they can take time to regrow their numbers or evolve better ways to attack Red Orange. This can lead to a feeling of desperation in these wars, each time Yellow people such as doctors create new antibiotics they are adapted to because the bacteria can mutate quickly allowing some variants to survive or act cooperatively by passing resistant genes to each other, in the same way arresting Red addicts just causes them to try different secretive and deceptive ways of stealing until they are no longer caught, the cooperation of Red Orange gangs means that new stings by the police on them are discussed with other members of the team so they all become wiser over time over what to be careful of such as talking on the phone, using email for drug deals, etc. This happened in the cold war where each new technology America developed against Russia was copied or stole by them because there were always Indigo Violet and Orange Yellow people in the West who would secretively and deceptively sell out the Yellow Violet military industrial complex for money or because they had a secret and could be blackmailed about it.

Al Qaeda evolved by studying CIA techniques in Afghanistan and realizing the same systems still were used, enabling them to plan 9/11 successfully and evading detection. They also succeeded in leaking many false plans of attacks to overwhelm Orange Yellow defenses with deception, this is like germs overwhelming an immune system with mutations of themselves and the immune system cannot know which ones are not safe to ignore. Aids infected the Yellow immune system, this is like Red spies infiltrating Orange Yellow espionage agencies and rendering them ineffective with double agents stealing their plans.

A measured response to Red builds up Red Orange resistance, so the usual method to avoid this is short strong attacks such as with short term use of high dose antibiotics, in war this is like Blitzkrieg or shock and awe. A good example is the Schlieffen Plan, how Germany overwhelmed the defenses of France in both World Wars by overwhelming force, in the First World War however the Germans were not fast enough giving the Allies time to develop a Red Orange resistance which led to trench warfare where secrecy and deception were useless because soldiers could be easily seen between the trenches. It then became a war of attrition dependent on random events until Germany after a failed Orange Yellow surprise attack ran out of resources and surrendered. Giving antibiotics over a long period creates bacteria resistant to them, so large amounts of antibiotics are given over a short time to eliminate them before they adapt to it. In the same way Orange Yellow police stage irregular large scale raids on Red areas such as ghettoes and areas with Red drug addicts to deter their growth and also to avoid a mob having time to form or long term Red Orange gangs. The police are then gone and Red people start to forget about them, then the police return. This is the strategy that predators use in nature, Yellow lions might attack in different areas so that animals become alert then after a long time when no predators are seen they drop their guard and are easier prey. This also allows weaker animals to grow rather than killing them all because this would then select to Red Orange genes turning the prey into a stronger herd such as buffalo. The surge in Iraq was similar, this caught the Red terrorist enemy by surprise with a sudden increase in Orange Yellow troop numbers, because these were withdrawn and could easily be quickly redeployed this prevented Red Orange resistance forming. In Afghanistan currently larger troop presences are a kind of surge which if not deployed quickly can just build more Red Orange Taliban resistance while Orange Yellow predator drones secretly and deceptively kill Red Al Qaeda.

In nature predators attack quickly with shock and awe while the Red prey are relaxed and not wary, they may also stay close to Red without attacking them, this causes Red animals such as gazelles to tolerate their presence without running. The presence of predators makes Red animals select mates they perceive as better suited to survive. This causes Red animals to evolve becoming faster and more secretive like Gazelles, or slower and stronger like Red Orange buffalo or elephants. If the prey are attacked so much that it affects them with natural selection such as from there being few predators they select mates less than for their survival skills and more for other factors such as males fighting each other with horns more useful for mating contests than protection, looking attractive, a better mating ritual as with some birds, etc. If predators are too common then a Red Orange herd could get broken up into small groups such as meerkats who then hide and scatter when attacked, this may be harder for Yellow predators to overcome than the strength of a slow and strong herd that they can sometimes separate an animal from, such as with buffaloes. Since there are limited males in a small group there are few opportunities for duels between them, a female might select ones that appear to run from predators better or over time more makes might be killed from defending its family so males could be rarer than females. A rival male has less chance of being chased away and might succeed if the female selects it, something she could not do when males duel over them.

A similar process would happen with people, females might select male mates according to them fighting each other in some cultures or the most powerful males could be in a gang and scare off other Red or Orange Yellow males who then have to date secretly and deceptively to get the girl they want. There can be mating rituals such as dating and parading where people dress up and show off their clothes, cars, wealth, charm, humor, etc. It there was a war then each gender might then select mates that had the best survival prospects such as strength, cunning, strategy thinking, speed, courage and so on while the gangs and teams need to use their strength in the war allowing more secretive and deceptive males to get females, such as during World War Two when some wives were unfaithful to soldiers overseas. For example in war, American soldiers would meet and often marry women from countries they were stationed at. These relationships often developed because the soldier offered safety and relative wealth, there was much less dueling between men to dominate large member of girlfriends as in peacetime. This over time would evolve people even over a few generations to fight more successfully, and after the war they would revert to the previous criteria for mates.

In war Red also evolves defenses if the attacks are regular and measured because they can be anticipated as Yellow while Red excels at being deceptive and camouflaged. A Yellow army such as the Nazis occupying Europe evolved Red terrorists who learned to be secretive and fast in attacks, ambushing patrols, convoys and trains. The Nazis to respond would use unpredictable sudden raids, occasionally massive reprisals, and speed to counter their tactics but because Red people are highly competitive but not part of a team they are not usually deterred by reprisals on other people. As a Red Orange resistance develops there can be a hot war between them and the Yellow forces like a war of attrition, the problem with heavy handed occupation is it evolves this response. Initially in France the occupation was light and provoked little Red terrorism and no Red Orange fringe, instead under Petain the French tried to hide and scatter as a means of survival, this in turn kept the Yellow Nazi forces small relying mainly on Orange Yellow secret forces such as the Gestapo. Over time the Red Orange resistance increased as De Gaulle from Britain tried to build a larger resistance organization while the British preferred a small scale Red terrorist network to secretly ferry allied airmen out of the country and provide intelligence. Large teams where the resistance trusted each other too much were infiltrated by Orange Yellow deceptive spies, this showed that with the stronger Yellow strength of the Nazis the Red Orange fringe was still too vulnerable and as they were captured this selected to allow Red resistance to survive better. When the Nazis became weaker the Red Orange resistance could operate more openly and engage in reprisals themselves when the Nazis exacted revenge, this selected against the Nazis overreaching by killing those too violent leaving those more circumspect, secretive and deceptive to survive. Eventually the Red Orange resistance was stronger than the Yellow Nazis and many collaborators who became Yellow such as in Vichy had to try becoming Orange Yellow to hide and scatter to save themselves.

Red Orange resistance grew in the final stages of the war where the Nazis were weak enough that Partisans could sometimes fight openly as with Communists in Greece. As they gained experience this natural selection caused the most successful partisans to survive making them stronger whereas earlier those most trusting in forming teams with other soldiers were betrayed by Orange Yellow spies. In Iraq Yellow allied patrols moved in teams while highly visible and predictable, this also caused Red terrorists to evolve and adapt becoming more secretive and deceptive in planting road side bombs and hiding in the civilian population, like gazelles hiding in the tall grass. Paying former insurgents a wage to be watchdogs against other terrorists made a Biv connection to them rather than Roy, instead of evolving Red Orange gangs they became like cooperatives looking after the Blue Iraqi workers by using money to make the Yellow army act like Violet. This safety from constant allied patrols caused Red to relax and so sudden attacks later would be more effective in the surge.

In Biv a similar process happens when Violet is consistently tough in negotiations, this evolves Blue Indigo unions and cooperatives to learn their tactics. For example if Violet employs strike breakers to remove picketers then the unions learn to have similar weapons on hand, bribe police to counter bribes by Violet, have lawyers to protest infractions of the law, take evidence such as photos so Violet cannot use Indigo Violet strikebreakers to act secretly and deceptively, etc. Some of this can be Roy such as violent confrontations during strikes441F[[438]](#endnote-438). This is also similar to war situations where open Red Orange resistance learns from Yellow tactics. If Violet develops a strategy of waiting out the strikers by having more financial reserves then unions save money for strikes by dues collected from members. This is like a siege in Roy where Yellow soldiers can’t breakthrough a defending wall of a city and so try and starve the defenders into submission.

Genghis Khan and Tamerlane avoided this problem by not employing gradual increases in force, which would breed Red Orange resistance. By sudden overwhelming forces and extreme retribution for any rebellions they made it much more difficult to have time to learn and adapt. Eventually laws made many of Violet’s strategies illegal442F[[439]](#endnote-439) and the evolutionary pressure on Blue Indigo unions subsided, many have weakened or disappeared. Government protections have made some union protections unnecessary also forgetting about Yellow tactics in strikes just as Red prey drop their guard when they don’t see predators for a long time can make Blue workers vulnerable to sudden downturns in the economy where they then have few Blue Indigo protections against having to compete for lower wages rather than cooperating in a union to keep wages higher.

Military tactics against drug lords have the same kinds of problems, such as the army attacking drug cartels in Mexico and Columbia. Cocaine for example is a hybrid drug with a Roy and Biv economy. It is used in medicine so there is a de facto acceptance of large Biv drug networks, also because many people seem to be able to use it safely there continues to be an Indigo market for it often with bribed Orange police becoming Indigo coordinators much like what happened in Prohibition. As long as users don’t commit too many crimes to pay for drugs or dealers create a public disturbance such as with shootouts between rival gangs the Orange police may tolerate its use.

The Blue roots of the drug problem are seen with farmers of poppy plants for heroin, coca for cocaine, and marijuana. Attacking these farmers is like attacking Red users, a regular force will lead to resistance and building a Blue Indigo defense in the tolerated Indigo market and a Red Orange resistance in the illegal market. Usually Blue farmers here will operate deceptively in secret using camouflage and run away if discovered. As they understand more of the army’s tactics such as in Mexico with sudden secret raids they can learn how to escape like Red Impalas escape Yellow lions. If the army is strong they may continue to be Red and Blue and only lose small amounts of the drug by running rather than fighting, especially if the Yellow army has financing from another country. If it is weak then Red Orange fighters might take on the army in an open fight or commit reprisals against soldiers if they find out who they are so the army might have to be secretive and deceptive to protect the identities of its soldiers. They may also have Red spies in the army warning them of attacks, this happened also in Iraq with spies in the Iraqi police and armed forces betraying the allies when hunting for Red terrorists and planning raids.

Blue Indigo drug dealers develop to ensure the locals get a good price for their crops, buyers may regard this as a cartel keeping prices up and excess stock off the market, much like OPEC. Like many other products this stops Indigo Violet agents from playing people off against each other to reduce prices. It also makes it harder for Orange Yellow undercover agents to penetrate into the Red Orange armed side of the cartel. The Red Orange aspect ensures they are armed and understand the tactics of the other side and can resist powerful adversaries like Yellow organized crime, drug enforcement agencies and right wing dictatorships often intending to steal the drugs for their own profit.

The Indigo drug market can be where the Blue Indigo cartels sell cocaine to Indigo Violet agents for many destinations such as the United States, this market can also be tolerated in a smaller way in many cities where some areas are commonly used for drug sales. The agents wanting to buy these drugs may be unsuccessful in going around the Blue Indigo cartel like Orange Yellow predators may not be successful in getting around Red Orange herds to get at the weaker Red animals. Since they cannot get to the smaller drug farmer to buy drugs cheaply or they do not have enough to sell large quantities then the agents will have to negotiate with the cartel. Orange police such as the Drug Enforcement agency will try to break up these markets in the cities with partial success; they also try to break up larger drug transactions in places like Columbia with partial success. Some might be bribed like the Orange Yellow police who see part of the market for cocaine as safe and prefer to help in market coordination rather than policing. The Indigo Violet agents would be secretive in buying cocaine, and usually would make buys for Violet management who remain at arm’s length from the transactions and may be wealthy and ostentatious, part of a team with influence in the government and might even be able to claim an association with the intelligence services or national security to protect themselves as happened with associates of the Contras443F[[440]](#endnote-440). They can also be a part the Violet elite of artists, sportsmen, and bone fide businessmen using the drug recreationally and may not be seen as a danger by the Orange police because they do not need to steal to buy it and they can afford medical care. The agents can also be Orange Yellow, part of an Authoritarian dictatorship or the police trying to set up fake drug deals to destroy the Biv business, steal some drugs or take over the business for themselves. Yellow organized crime can be dealing with the Cartels in this way or trying to rob them or wipe them out.

Criminality in Aperiomics has two aspects, of Roy and Biv, but it also can be viewed as Green versus Green Blue. For example in the movie The Cove444F[[441]](#endnote-441) there was an issue as to whether dolphins were private property of whoever could catch them. The meat could be sold for food, or they could be enslaved to work in marine parks. This is a Green Blue attitude, drawing the fence so that they can become private property because there is Biv profit in them. A similar argument is used with whales, all kinds of fish, trapping animals for their fur, and still in some parts of the world to make humans private property as slaves445F[[442]](#endnote-442).

So the dividing line between public property as Green, and private property as Green Blue, moves constantly as people on both sides try and move it for their advantage like a tug of war. It is a zero sum game because any dolphins that become private property that same number are no longer public property. The two basic arguments in Green and Green Blue are that actions in Green are policed by Orange under criminal law while actions in Green Blue fall under civil law and are resolved by money or something of value changing hands.

The premise of the movie as Green is that dolphins are sufficiently sentient that killing or enslaving them is like doing the same to people. Currently only a few species of monkeys and dolphins are considered possibly sentient enough to make this argument though many other species might feel excessive pain when caught and killed, this can be regarded as a public Green issue to be regulated by the Orange police such as killing cattle quickly in slaughterhouses. So under Green laws killing dolphins would be a Orange Yellow crime of acting in a secretive and deceptive predatory manner because they hide that this slaughter happens and then often sell the meant deceptively as whale. The argument also tends to convict the Green Blue world view as criminal, that it is not a valid defense that dolphins are economically valuable enough to make them private property just as Red communism tried to make the case that Yellow imperialism and capitalism were immoral and should be abolished.

The Biv economy produces emissions from burning coal, car exhausts, nuclear radiation from power plants, toxic chemicals leaching from plastic containers, carcinogenic food additives and so on. These kill people all around the world yet the free Indigo market manage to continue to do this by saying that the market does more good than harm, without it more people would starve and die of disease than die from pollution in an unregulated market. People are said to have a free choice not to eat unhealthy foods and to move away from toxic emissions. However this is like the argument that women not wanting to be raped should not go out drinking or wear seductive clothing or that those not wanting to be murdered shouldn’t get into arguments, to try and argue that everything should be Green Blue or private property and there is no economic crime can be as extreme a position as that of communists who say that no market should be allowed.

The implication is that people do all things in Biv by free choice, in a positive sum game. This means that people make choices and transactions that benefit both parties, unlike in Roy where predators attack prey and the prey does not benefit. So in Biv dolphin killing and enslavement is not a crime but the actions of the Indigo free market, as was enslaving people and killing them if they tried to escape when slavery was legal and defended as the Indigo market in action. This was in fact Indigo law for hundreds of years, with white people also sold into slavery to the Turks446F[[443]](#endnote-443) as well as Africans sold to Americans. Only after a long period of protests did this become an Orange crime instead of a civil Indigo crime.

Just as Green can try and criminalize the concept of private property in some situations, Green Blue can try and make too many Orange crimes into civil crimes of the Indigo market. With dolphins the argument is that they are valuable as private property and there is no Orange crime in making use of this value. Another possible Orange crime is that of extinction and that plants and animals are treated like defenseless prey and we threaten to consume them all leaving ourselves without food and possible plant medicines later, like Yellow lions might do without realizing it to their food sources such as gazelles or impala leaving themselves to starve later. We tend to recognize that some people making an animal extinct is morally criminal because the animal has no defense to our powers, and we feel guilty at making other animals extinct. So again this is Orange criminalization of Green Blue business. It can also be regarded as an economic crime because future generations might lose money and resources because food and plant stocks have been squandered rather than used sustainably.

Sometimes the dividing line is moved for personal gain, the dolphin hunters arguably have a Biv interpretation because they profit by doing so. They might argue that Biv consumers could stop this by refusing to go to marine parks and not buying dolphin meat but the meat is sold deceptively as whale and people going to dolphin parks may not realize the dolphins they see were bought from fishermen who slaughtered the rest of them. Green people might tend to over criminalize Green Blue fishing because they fear more dolphin fishing and a slippery slope to more unrestricted whale fishing, it can also be an economic crime however if some fishing is allowed and these animals are overfished into extinction.

Sometimes when the line between Green and Green Blue moves it has large scale effects. Orange Yellow and Indigo Violet might face chaos or collapse, Red Orange and Blue Indigo might face random fluctuations that lead to a crisis later. For example the stock market can have some kinds of transactions as Roy and some as Biv. Insider trading can be an Orange crime, if this law is repealed as many argue it should be then Violet people would make more money from it because other investors may not realize that Violet investors are gaming the market and they have no chance against them. Others argue that inside trading is Yellow predatory where the Red prey is the small investor, and if Yellow does too well in insider trading they might wipe out the Red small investor and leave themselves with no one to make money off later. So removal of Orange laws can lead to a bloodbath where Yellow predators suddenly find themselves able to overcome Red Orange animals more easily because their Orange allies and protectors have been removed. For example if lions worked out a way to beat buffalo more easily they might prosper and have more lion cubs while they killed buffalo to extinction leaving only Red animals to feed on, this would not be good for the lions in the same way treating Orange crimes as a necessary part of Indigo market coordination can hurt the Violet team later when they go too far and fleece too many of the Blue and Blue Indigo investors leading to a collapse as happened in the great recession with subprime bonds. If this fraud had been Orange illegal and policed correctly then the feeding frenzy would have been averted and the economic collapse avoided. This has happened where Yellow predatory animals have been introduced to a new environment, such as cats to New Zealand attacking the Kakapo parrot447F[[444]](#endnote-444). The parrots could not fly, and so had no defenses and were nearly made extinct.

In Biv this initially seems good for the economy because the ripping off of Blue workers generates more business and raises the Gross National Product just like car stealing could be seen as boosting the GNP because the former owners have to buy a new car, the insurance companies make money and the thief makes money selling the car he stole. Caveat Emptor or buyer beware can be used as a justification for predatory behavior, that people choose to invest and also choose not to research stocks looking for insider trading so they left themselves open to losing money because of it. Also traders often decide not to sell based on inside information and this is undetectable as well as not known to hurt the economy, there is no way to detect this activity. When the fence moves towards Green then more Indigo market actions become under the jurisdiction of Orange police and the courts. This can cause business to suffer because insider trading might be so profitable that it appears that ending it is bad for the economy. When the victim of the Indigo market is dolphins the Biv financial argument is strong because the victims aren’t people as they are in the share market. In this way laws relating to resources people use can be analyzed in Aperiomics with animals, plants, the environment, and so on.

Crime can be examined in more detail in Roy and Biv. Once it is established whether an issue is Green or Green Blue then their corresponding colors can more precisely define it. Green is Roy and Green Blue is Biv so Green public issues and crimes can be analyzed further. In the case of Dolphins they are trapped and slaughtered so generally this would be Yellow because the dolphins are not voluntarily caught and killed. Dolphins would be Red as they have no way to fight back and could only flee to survive, Orange policing then would treat this like Yellow violent criminals attacking Red defenseless ones. The Red Orange part of the police defend Red, the Orange Yellow part would permit limited exploitation or killing. The Whaling Federation have created a solution like this, allow some Orange Yellow exploitation and killing by deceptively calling it scientific research while Greenpeace and other monitoring give some Red Orange defense of Red dolphins and whales. Sometimes this conflict is violent with Yellow whalers firing on Red Orange Greenpeace boats who try to disrupt the whaling, at other times it is a game of cat and mouse or Orange Yellow versus Red where whalers try to exceed quotas by hiding how much they catch. The Orange police are relatively weak here and so the Yellow versus Red Orange hot wars and the Orange Yellow versus Red cold wars are more unstable, creating confrontations and crimes that are reported in the media. Orange and Indigo act to stabilize conflicts because of their neutrality, these conflicts are often flaring up creating a strain on the Orange police and Indigo market which makes them wax and wane under this pressure. Because there are no easy ways for police to watch the whaling and dolphin being caught then conflicts balance the color codes but much more inaccurately, this is why wars often happen because there is no neutral influence.

In Biv there is the assumption dolphins can be property as Green Blue, hence this property is regulated under commercial law. Dolphins here would act as Blue workers in Marine Parks, and have some rights similar to other Blue workers in enough food, medicine, and habitation. This is similar in concept to Orange police allowing limited killing of dolphins but protecting many of them as well, in Indigo some dolphins would die from a poor diet, being on tranquilizers448F[[445]](#endnote-445), etc but the others would be relatively well taken care of. To improve the rights of Blue dolphins a Blue Indigo cooperative of workers who look after them and animal rights activists use their numbers and political influence to improve their living standards. They advocate stronger protections for them such as better food and places to live, shorter working hours and better treatment of inferior dolphins such as not killing those who are sick or hard to train. This is like how trade unions look after Blue workers, with better pay, shorter working hours, and caring for the sick and less able.

Because man is dominant he normally plays a Yellow or Violet role in nature like an alpha predator or alpha male449F[[446]](#endnote-446), though in the Cove actions were secretive and deceptive by fisherman so they would have been Orange Yellow and Indigo Violet. Red dolphins were secretly slaughtered and their meat sold deceptively as whale, with some cooperation from the Orange Yellow part of the police to keep this secret and stop Red Orange animal rights activists from finding out about it. There was also some Red Orange defense by local councilmen, to stop dolphin meat high in mercury from being sold to children. This is another Orange Yellow tactic, selling fraudulent and poisonous meat and corrupting the neutrality of the Orange police to some degree. In Biv Indigo Violet agents buy dolphins for marine parks and try to avoid Blue Indigo protections of them to increase profits, for example these agents might be able to exert influence to stop the dolphins being killed but because they compete against each other rather than forming a cartel then they have an incentive to be secretive and deceptive also. If one agent protests at this then the fishermen would probably not do business with them, the other agents would make more money by taking over his agency. Only if the agents acted as Violet and cooperated with each other could they have a chance to succeed at this.

Crimes of man versus man also follow color codes. While it is Orange illegal to own slaves in Biv society, people can be enslaved in many other ways such as owing money on credit cards, needing to work to pay a long term house mortgage, having wages garnisheed to repay debts, compelled by a court to stay away from a former spouse, bankruptcy and so on. People can be restricted in where they can go because in Biv all is private property, public property such as roads and air are Roy, so this restriction of movement can be like a prison for Roy people such as the homeless because there are few places they can sleep, wash, use a toilet, etc. These harsh laws are tempered by negotiation between the left and right wings of politics usually through democracy. Citizens own a vote each as their Green Blue private property, and like with money they are free to choose what candidate they prefer. If they get elected these politicians might not keep their promises, and voters are free to not vote for them next time. A right to vote is like owning a share in a Biv public company, giving voters rights to choose between various policies if they feel strongly enough about them, but often the management can align with the swing voters and create a stable bureaucracy and hold on power.

Because Biv is a system to distribute abundant resources and Roy scarce resources, this voting chooses between two strategies, that of Blue Indigo versus Violet cooperation or Blue versus Indigo Violet competition. That is, Blue Indigo and Violet each form teams of cooperating members, then they use their numbers and solidarity to negotiate with each other for example with a public company Blue Indigo pension funds might struggle for influence with a wealthy Violet upper class and aristocracy who use their connections to each other to game the system to some degree. In politics Blue Indigo unions fund many elections for the left because this is usually the only way for the left to get large amounts of money. The right gets its money from Violet businesses that also use their connections such as the prevalence of oil money in America to get tax concessions, etc. This is like how a pack of wolves uses teamwork to attack a herd of buffalo, both sides use teamwork in attack and defense. Blue people compete with each other, such as miners looking for gold, farmers starting up on new land and then trying to outgrow each other in production and land size. Indigo Violet agents also compete with each other such as real estate agents and then negotiate with Blue.

Violet is like the leaves of trees in a rainforest, once they have outgrown the smaller Indigo Violet plants they cooperate together to create a canopy of leaves and overshadow the competition. In the same way Indigo Violet companies compete with each other but once they dominate as Violet they form alliances to maintain prices and market share. They can agree to cross license all patents with each other and deny licenses to smaller companies. Violet companies can have a strong influence on the Biv government, most of them were bailed out in the Great Recession, while smaller banks were left to compete with each other and fail. Too big to fail becomes a cooperative strategy, often employees from these companies become government employees to look after their industry and restrict the chances of smaller Indigo Violet businesses from threatening them. This is like crony Capitalism, which can also be Yellow and surround a dictator or organized crime.

In Indigo Violet however competition is more important than cooperation. This is where smaller companies vie with each other, like smaller trees racing to grow faster enough to overshadow and stunt its neighbors. This can be destructive innovation, where companies can bring out new products that damage the market for others, making the older investments wasted and often consumers won’t buy or get rid of the old products. Then they might in turn be damaged by another product, if not then they might grow large enough to be a threat and be bought out by Violet, they might be bankrupted by Violet bringing out a similar product at a loss if necessary, or if there is a break in the Violet canopy they may grow to be a Violet company themselves and overshadow their former Indigo Violet competitors.

Sometimes a Violet company can reach a tipping point and collapse because the Indigo Violet agents under it compete too much with each other and are too secretive deceptive, this is like an apparently healthy tree where the branches are secretly rotting or weakened by termites. This collapse can leave a gap for other Violet companies to fill or a fast enough Indigo Violet company may be able to grow to fill the gap. Bear Stearns and Lehman created this opportunity because their Indigo Violet agents unknown to the company had made so many deceptive investments, often to get large bonuses that were undeserved, that they brought the companies down. This gave Morgan Stanley and Goldman Sachs an opportunity to fill this gap in market share and Barclays jumped at the chance to buy parts of Lehman and expand more into America. Another example is Enron because when they collapsed viable parts of their business was snapped up by others, Enron was still in an Indigo Violet and Orange Yellow phase because it was highly competitive, secretive, and deceptive and the market was too difficult to create a Violet cooperative with other energy traders. Sometimes a Violet company withdraws from a market, this is more like an orderly shedding of plant materials such as leaves than a collapse, this can also allow Indigo Violet companies to become Violet. For example General Motors sold Saab450F[[447]](#endnote-447) to a group of entrepreneurs, this gives other companies and syndicates a chance to grow or get into the car business if they are fast enough to take the opportunity. Some banks may be forbidden to engage in speculative trading after the Great Recession, this will give smaller Indigo Violet firms a chance to grow but can also create instability if they are too competitive and deceptive.

Some Violet companies can help plant like businesses that are not a direct threat to them; this is like trees that encourage grass to grow under them because this stops rival trees from growing there. Apple encourages apps or small programs for the Ipod, Iphone and Ipad, these benefit sales of Apple products and diverts the Indigo Violet talent of programmers from starting a business which could be a threat, or a business which could be taken over by a rival. Because the apps are not compatible with other phones they cannot help such as Symbian and Android without rewriting.

Yellow can be highly associated with Violet companies, this can be a web of cooperation such as between insider traders, short sellers, pump and dump promoters, withholding finance from a company to damage it, financial media distributing planted stories designed to falsely promote or damage a business, laundered drug money, the Russian and American mafia involved in Wall Street, lobbyists corrupting politicians, and so on. Their cooperation can be directed at Indigo Violet companies, to destroy and take them over with short selling, to build up the share price of companies with fake good news and then take a profit and short the stock when the truth is known, to corner a market in a commodity or manipulate the prices of it, to use Greenmail, and so on.

Indigo Violet businesses can commit crimes against each other, and against Violet. Espionage can be Indigo Violet because they are by nature secretive and deceptive; the CIA was mainly staffed from elite schools as it grew. Prototypes, patent details, and trade secrets can be stolen, forcing a rival to a tipping point can mean they collapse and can be taken over. Also Indigo Violet companies want to bring Violet ones down to give them a chance to grow to Violet themselves. Antitrust complaints can damage Violet, an example was in the European Union where Microsoft was restricted from promoting Internet Explorer as a default to let smaller browser companies thrive, this occurred in part because of complaints from smaller competitors like Opera, Chrome, and Firefox. This is like smaller predators such as hyenas attacking vulnerable lions to expand their territory. Yellow predators can have a good relation with other predators in neighboring territories. Domesticated cats are an example of this, they often allow other cats passage through their territory as a cooperative, but they also compete to some degree to expand their territories. A smaller predator such as hyenas must compete to get a territory of their own with this larger network of cooperating Violet predators so they must move more secretly and deceptively when lions are around.

Indigo markets can have crimes where they handle transactions that should be Orange; this can be because of too much faith in the Indigo market to solve some problems such as slavery, heroin sales, sales of contaminated or unsafe products and so on. Also some transactions can be deceptive and Blue Indigo laws may offer consumer protection to Blue people. Goods might be returned, the goods might hurt people or property and there can be a lawsuit, goods might be ordered or paid for and never delivered, and so on.

Blue Indigo is cooperative like Violet; it builds a web of contacts and alliances to match Violet economically so they can command higher wages, shorter hours, and a percentage of the profits of the business. Usually they want the same kinds of benefits Violet does. Blue workers can be coerced into joining a union and threatened if they try to compete with union jobs as scab labor rather than cooperate. Blue are competitive like Indigo Violet and can break up the union monopolies because they cannot resist trying to get a competitive advantage at the expense of other workers , some countries act as Blue to compete against Blue Indigo cartels to raise the prices of produce and minerals, for example oil. Often Blue and Indigo Violet try and do business secretive business deals between them because each fears losing the deal to a competitor. In these deals they also try to deceive and outwit each other secretly from Violet and Blue Indigo who can try and take over their business. Blue Indigo tries to interfere with this market because it hopes to extend union power to Blue workers; Violet tries to overshadow Indigo Violet’s business to take them over or to keep them as an agent rather than a rival. Blue also tries to break up the Blue Indigo monopoly, like some Red people resent a Red Orange gang despite some benefits451F[[448]](#endnote-448). One example would be where farmers and miners get low prices from large Blue Indigo stores and cooperatives, have a quota of how much they can grow or mine, and are blocked from taking their own goods to the market. This can happen with milk and eggs in Europe, prices might be higher from this system but it can be hard to increase production or get a larger quota.

Laws can also be tailored to favor Violet, for example in America the cost of companies going public is high and this gives an advantage to those that already have so they can maintain their domination. They can then take over and buy out smaller Indigo Violet companies before they threaten them, the competition between Indigo Violet companies makes it hard for them to make enough profits to pay for going public. This domination by Violet can be monopolistic; economies of scale can make their products and research hard to match. Sometimes Indigo Violet business can protest about Violet market domination with antitrust laws in America and have them fined, restricted or broken up.

So in Biv cooperation allows people to neutralize their individual shortcomings, often a group of people can be stronger and smarter than a single Violet person. Plato considered a Violet aristocracy to be a superior form of government452F[[449]](#endnote-449) but democracy now often ends up to be superior because the color codes are more balanced. The total voting population usually comes up with answers to political problems better than Violet aristocratic talent or a meritocracy because elections are usually decided by a swinging vote of Indigo and Orange people who act to keep the country more stable, unlike in Plato’s time. Distributing wealth by Blue Indigo and Red Orange cooperation can be quite efficient; in the book Gang Leader for a Day people cooperated with each other as Red Orange to complement those living on Red welfare. Some might babysit to help each other, others would use cooperation by loaning friends money and food, and getting a loan back themselves later.

Too much cooperation at the expense of competition or vice versa can be inefficient. Competition is often needed to select the best product for the Indigo market, otherwise as in Red Indigo Communism and economies dominated by Blue Indigo unions the quality of produce suffers from a lack of variety. People cooperate and this makes it impossible for the competitive solution to win so a new potentially better product can fail to get to market, a worker might not be allowed to work at his best to avoid making other workers look bad, etc. Campaigns to buy American goods in America try to use this cooperative spirit to preserve American jobs, having a similar effect to Red Orange protectionism and mercantilism in Japan where buying an overseas made item can be seen as unpatriotic. However competition can also be destructive in sport as larger and larger amounts of money can be spent to determine small differences in a race or game, sometimes the different clubs cooperate to avoid this by agreeing on a salary cap for the players. Movies and books often retell similar stories and compete for our attention and money, if this wealth was spent on food and health care many people would be better off. In technology destructive innovation and disruptive ideas compete to waste resources sometimes by inducing us the buy the newest fashion and throw away the out of fashion goods.

This is like plants that evolve to compete with each other, to grow faster and overshadow another plant, to produce the best flowers to attract insects and the most delicious fruits so animals will spread their seeds. By contrast the Blue Indigo roots of a plant cooperate to distribute nutrients as the best way to evolve because this where the roots join together on the trunk, and each root gets what it needs to keep searching for nutrients. The Blue roots work more individually trying to find water and nutrients so the plant balances protection against bad luck by cooperation at the risk of stagnation, and innovation with competition at the risk of chaotic collapse. In a Blue Indigo cooperative society helping each other allows people to work with less chance of a chaotic disaster, for example if there is a collapse in a mine then everyone can help to dig the miners out or if one farm needs seed then others may loan it to them and get some seed back the next year, and overall people farm or mine more than they would otherwise. In a Blue society workers have cut throat competition and this allows businesses to play them off against each other but gives sometimes higher productivity and innovation. For example a coal mine might have higher production with miners on contracts and competing against each other, fearing to lose their jobs if someone works harder than them. If there is a mine collapse which is a chaotic event then there might be no Blue Indigo community to help the trapped miners or anyone to contribute to the miner’s families.

In this competition versus cooperation either one might be legislated against at the expense of the other. Breaking these laws is a crime in Biv, and is usually punished by loss of property such as a bailiff taking goods to give to the winning party in a lawsuit. If Blue Indigo or Violet is more powerful on an issue then competition is restricted. For example Blue Indigo unions might hold back some workers from trying harder as it would make others look bad and Violet might use crony capitalism or corporate socialism to reduce innovation but maximize profits. Competition can lead to tipping points and collapse, so Violet banks might be restricted from loaning money with insufficient deposits, having too small a cash reserve, trading stocks or shares in investments, etc as they were after excessive competition led to instability and collapse in the Great Depression.

By each bank being limited to less competition they are less likely to bankrupt each other by trying to win. Banks were like this in America before changes led to the Savings and Loans crisis in the 1970s. Prior to the Great Recession banks reduced cash deposits and made dubious loans to deceptively grow bigger than competitors and to take advantage of all opportunities. The result was a meltdown or collapse of Indigo Violet branches in the United States, by contrast banks in Canada were more restricted in their lending, forced to cooperate more than compete and though they missed out on much of the more competitive business they avoided collapsing. So the Great Recession was created in part by Indigo Violet agents and Blue workers, game theory which emphasized the individual and self-interest at the expense of cooperation was used as a rationale for this system rather than open teamwork of Violet business versus Blue Indigo unions453F[[450]](#endnote-450).

In the same way Goldman Sachs, Morgan Stanley, Lehman, Bear Sterns and in earlier times Salomon Brothers competed with few restrictions using secretive and deceptive agents they could disown with plausible denial if they were too deceptive, but this led to only Morgan Stanley and Goldman Sachs barely surviving the Great Recession. This was destructive innovation as they employed Indigo Violet agents to invest other people’s money though the 2000s created virtually no wealth for the American middle class from this extra competition. Deregulation then is usually loosening the bounds on competition; to be more efficient with more risk of collapse which is why after the initial good results deregulation almost always appears to have been a mistake. The previous stagnation of cooperation leaves a legacy of antiquated technology for example with power generation in America, and so increased competition begins to restore the balance between cooperation and competition so innovation fixes some of these problems while the cooperative framework is still operating. However because of the rapid growth of Blue versus Indigo Violet this can go too far to the point where there is too much competition leading to fraud, deceptive bookkeeping, and collapse such as high energy prices in California. Antitrust suits against Violet companies are intended to promote competition and benefit the consumer but there is little evidence they do in the modern economy, though they did help to break up more dangerous monopolies such as Standard Oil454F[[451]](#endnote-451). Often a Violet or Blue Indigo monopoly holds down prices to avoid a competitor from becoming a threat, so the consumer already benefits.

Deregulation of airlines in America led to many of them going bankrupt, Blue Indigo workers losing their pensions and airline pilots being paid very low wages because of competition. The wealth destruction here affected workers but Violet airlines with Blue Indigo unions more regulated in Europe can be profitable, pay good wages and pensions, and still have reasonable fares. Electricity deregulation often caused prices to rise, with such as Indigo Violet Enron manipulating the market, damaging large Violet electrically companies, then collapsing with much of the profits wasted.

On the other hand insufficient competition has also been wasteful. Britain nationalized Leyland because it was uncompetitive as well as many other industries, shielding them from competition to let them continue to make inferior products. Restricting competition is good for Blue Indigo and Violet, by stopping workers competing with each other higher wage prices and profits are maintained at the expense of innovation, this lack of competition made the Soviet Union fall behind when it became too Red Orange. A sector of the economy may be a Blue Indigo closed shop or the government may award Violet monopolies in such as railroads and cable television, others are not permitted to compete.

Unions and other Blue Indigo cooperative have a form of crony capitalism with the left wing parties, higher wages, holidays, consumer protection and workplace safety are legislated for in exchange for votes and campaign contributions, there can be union lobbyists and union people in government to look after their interests. Airlines are sometimes shielded from competition by having sole rights to some routes often purchased from the government; trains by their nature can have little direct competition like bus companies. Electricity generation can be a kind of monopoly with no competition unless power can be purchased from other areas economically; this sudden competition from other states in America selling power was destructive in some ways as some plants were less economical and lost money because of their previous economic stagnation from excessive cooperation.

Cooperation and competition can also be compulsory or highly encouraged in Biv society. If a person sees someone injured or dying they are legally obligated to help them or call someone who will. Society in these cases is assumed to be a cooperative and where people are obligated to help each other, while in other areas competition is allowed. People are encouraged to line up in queues in shops and bus stops, rather than compete with each other to get on a bus first. In traffic drivers are expected to cooperate and let another driver into their lane, not tailgate, and be courteous, but they can also compete to drive faster than and pass each other. Partnerships can be a legal structure for people to cooperate together in relationships or business and not compete with each other but workers in that business might compete as Indigo Violet to rise up the corporate ladder with back stabbing and deceptive tactics. Sometimes when a business is sold or an employee hired a non-competition agreement is signed where they cannot join a competitor or start a competing business, but sometimes it is illegal to not restrict competition in this way.

In business cooperation can be illegal, such as Violet companies cooperating to set prices between them rather than competing. Journalists are not permitted to cooperate with people telling false stories to drive down a company’s share price for short selling but there have been many cases of this. Generally in Indigo Violet and Blue cooperation is less suitable and sometimes illegal, in Violet and Blue Indigo competition is less suitable and sometimes illegal.

In Roy, crime is a negative sum game and usually the lesser of two evils. Few people commit crimes willingly, it is the least bad alternative. For example a Yellow violent criminal can be like a lion, they need to kill someone to survive. In organized crime it is difficult to get out; people who try often end up being killed by their former allies so they might have to continue to commit crimes to survive. Lone leopards can be attacked and killed by groups of other leopards so there is a disincentive to leave Yellow, if a hyena is injured it can lose the leadership of others in a pack so like with criminals even being weakened can be fatal. The Yellow system drives people to maintain their place in the team, and giving up this struggle or being hurt such as a businessman losing money is a sign of weakness and a person can become Orange Yellow prey to the others as they become part of the fringe of the team. Yellow dictators often must continue to commit crimes to maintain their power; weakness can lead to their being deposed or killed.

Yellow can impose order on society with their team instinct so that random fluctuations are buffered from causing damage, when they weaken there can be chaos because the competition and deceptions of Orange Yellow can cause collapse, so Yellow weakness can be destabilizing and even disapproved of in Biv. For example the West propped up many Yellow dictators to fight Red Communism in the cold war because they feared a recurrence of the collapse of the Yellow Shah of Iran, when Somoza in Nicaragua was weakened the situation became chaotic and collapsed into Communism. In South Vietnam the government was Yellow to fight against the Red North Vietnamese, it was weakened by arms support being reduced by a Blue Indigo Democratic congress. This led to chaos because the Orange Yellow parts of the government disintegrated into warring factions as the Red Orange communists advanced, then Orange Yellow collapsed.

This is similar to the Domino Principle where Orange Yellow regimes might collapse one after another from Red Orange Communism. Because it was a negative sum game the least bad option appeared to be to prop up Yellow dictators such as in Taiwan, the Philippines, Indonesia, Hong Kong, South Korea, and Malaysia. Later it was apparent these Yellow dictatorship committed many crimes, even genocide against the Red population but if they were not supported then their Orange Yellow side could make them collapse. These Yellow governments fought Red Orange insurgents similar to organized crime fighting Red Orange police and gangs, and Yellow bank robbers fighting Red Orange bank security. Saddam Hussein was a Yellow dictator, as was the Shah of Iran. The Shah lost control because the United States was unwilling to support crimes in his crackdowns against Red Orange protestors. Orange Yellow chaos ensued and a Red Orange revolution succeeded as it did in Vietnam, Nicaragua, and El Salvador. Saddam as a Yellow dictator was then used to attack Red Orange Iran in a violent hot war financed by Biv countries. This is like Biv plants in nature that rely on Yellow predators to keep Red grazing animals in check, to stop them overeating plants. Biv countries then prop up Yellow dictators to stop Red Orange Communism and Red Islamic jihad from overwhelming the west. Red Islamic terrorists are highly fragmented, they survive by avoiding cooperation with each other, instead they secrecy and deception to compete against each other in attacking Western targets. Their aim however is to unit openly one day to form a Red Orange Caliphate455F[[452]](#endnote-452).

Yellow dictators and organized crime have been used throughout history to maintain order, but like a rogue lion they can go too far and then need to have their control weakened then Orange Yellow chaos can bring them down. In the Second World War Lucky Luciano used his Yellow mafia to find Orange Yellow German spies, in exchange he was released from prison early and deported. Often Yellow organized crime in America is tolerated at a low level, it can reduce other crime by its control like an alpha predator such as lions or wolves can be beneficial to an ecosystem456F[[453]](#endnote-453). If it goes too far it needs to be broken up much like Yellow dictators, this breaking up of the mafia is similar to the reduction of the power of Violet corporations like Standard Oil by breaking them up into smaller companies. Sometimes a Yellow dictatorship becomes similar to organized crime itself; Afghanistan prior to the takeover by the Red Orange Taliban was a large supplier of heroin from poppy cultivation. This was mainly shut down by the Taliban, when they were defeated by the Yellow Northern Alliance the heroin production resumed.

When a Yellow dictator is weak and outside military aid is needed such as in Vietnam, Iraq and Afghanistan this Biv involvement can come close to war crimes in its actions. Yellow Nazis in World War Two were prosecuted for war crimes in the Orange Nuremburg Tribunal and Violet companies helping them such as Siemens and Thyssen came under criticism for this. Orange examination of secretive and deceptive acts by Orange Yellow soldiers in Vietnam was shown in the Winter Soldier documentary though the Red communists fought in a similar way, and the Orange Yellow massacres at My Lai by Lieutenant Calley were largely supported by the public at the time. Fighting a war can break up Biv structures of business in a country because the scarcity caused by war makes Roy interactions a more efficient way to survive. If the Yellow fighting succeeds then the Yellow dictators will survive, the Red Orange resistance will weaken because they are not directly attacked as much and the Red people will accept it and return from hiding as refugees or settle down. Refugees can be Red like gazelles that flee from danger while freedom fighters tend to stay and are Red Orange. Other Red people try to stay and hide to avoid the fighting, Red Orange terrorists can also hide among them when needed, be fed and clothed by them in exchange for protecting them to some degree like Red Orange buffaloes protect their young. Soldiers can also try and act as Orange as they did under Petraeus in Iraq. Instead of propping up a new Yellow dictator with connections to Violet oil companies as was planned with Chalabi a new direction of balancing the desires of Red and Yellow people in democracy is being attempted there.

Propping up Yellow dictators can coincide with the interests of Yellow and Violet plutocrats in right wing parties. Business saw the chance to make Yellow money in Iraq from defense contracts, such as in private contractors or mercenaries, and support of troops with logistics businesses, they also wanted to get predatory control of some of the oilfields. They also tried to weaken Red Orange resistance and Blue Indigo consumer protections in Iraq. When a left wing or Blue Indigo government comes to power in America this predatory behavior is weakened and Yellow dictators have collapsed, the resulting Orange Yellow chaos causes the right to say that the left in America causes foreign policy disasters leading to a timidity on the left to be too pacifist. This is the dilemma with Yellow governments, they often can only collapse chaotically and this makes it difficult to moderate Yellow allies. In the same way Red Orange left wing countries such as the former Soviet Union and Warsaw Pack can collapse if their Red Orange strength is weakened such as with Gorbachev being too moderate. Yeltsin represented a more Red Orange strength as well but his team was not strong enough to prevent a lot of collapse occurring in the Red parts of the country and the takeover of many assets by Orange Yellow criminals. Poland was more strongly a Red Orange union country and so the strength of Lech Walesa was more intimidating to the Red communist party there so there was not an actual Red collapse but a conversion to Red Orange union control and then a move to the right to incorporate more Orange law and police.

Yellow predation by teams of hedge funds and the mafia probably contributed to the Great Recession as short sellers allied with newspapers, television, blogs and even Wikipedia used rumors and phantom stock to bankrupt much of the American financial system. As with Yellow dictators the order provided by this predatory stock shorting stopped smaller companies from growing to threaten the Violet establishment but eventually they went too far in damaging Violet companies, the market might remain weak in a period of chaos and tipping points because of this and may provoke the Roy government to reform the system with more Orange policing. Relations between Wall Street and the mafia have been investigated by the Orange FBI and Indigo SEC, rules such as the uptick rule for short selling and requiring short sellers to locate stock before shorting it were relaxed and led to a surge in attacks on businesses.

Yellow crime can dominate entire nations as dictators and the mafia, in less powerful organizations they can include small criminal gangs, groups such as Neo Nazis, bullies in schools and so on. Sociopaths might generally be Yellow or if loners they can be Orange Yellow, they have little conscience in hurting others which is like Yellow lions not being guilty at killing other animals. Yellow criminals are usually controlled by prison, fines, and sometimes the death penalty. This is similar to how Yellow predators are handled, they can be caged in zoos or wildlife parks to keep them away from farms and towns, they can be chased away as deterrence in the hope they don’t return, or they can be killed or executed.

Many can reoffend when they leave prison like an unsuccessful taming of a lion or pit bull dog, others can control a Yellow criminal organization and run gangs from inside the prison itself. Sometimes prison reforms Yellow offenders, other times it reduces their impact in society by removing them from it for long enough to cause chaos in the rest of the Yellow organization. Even weakening the organization can be a respite for Roy society to work on breaking up the rest of it causing further tipping points and collapses as Orange Yellow criminals inform on each other for lower sentences. Deterrence is another factor; Yellow criminals may see others being imprisoned and restrict their activities to avoid the same fate. This is like Yellow wolves and lions learning to avoid people and confining their kills to other wild animals, mafia wars with each other may be more tolerated than their attacking non criminals.

The Orange police might often have little sympathy for Yellow victims hurting each other, particularly if they are rival Yellow gangs or Red Orange ones because the police and courts generally do not see it as their role to settle disputes between criminals. If the government is right wing then they might see Red and Red Orange as a threat, and tacitly use organized crime to control them. If the government is left wing then they might support Red Orange police to attack them more strongly. Communists often saw capitalists as being like organized crime, their Red Orange component for example in the Cuba takeover was effective in removing the Yellow mafia that prospered under Batista.

A reformed Yellow offender has a difficult task in returning to Roy society. He may be attacked by other Yellow criminals if they perceive him as a threat to their own power or they have taken over his territory, this is like reintroducing a tame lion to the wild as in the movie Born Free. If he is wealthy from his previous criminal activity he might be robbed or if he is suspected of having cooperated with the Orange police there can be reprisals against him. Others in society might be suspicious of him, much as Red prey would fear even a tame Yellow lion. Work then would be difficult to get, Red Orange gangs that protect Red areas might attack him as well. Often it becomes easier to drift back to the Yellow cronies again, so prison can have a revolving door for people like this. There is also a tendency as in Yellow predators like lions to do a big crime such as robbing a bank and live on the proceeds for a long time rather than making small amounts of regular money at a job. A lion, python, or crocodile might kill a large animal and not need to eat for a long time. Yellow people usually need to become Violet in Biv society to succeed so they need to find talents in them to replace violence. This is sometimes done with rehabilitation where cities receive Biv training, learning a trade or degree.

Sometimes Yellow criminals feel more at home in prison over time, much like a tamed lion in a zoo and no longer know how to survive as Yellow in Roy society. They may feel safer there, and have many of the problems tame predators have in being introduced to the wild. Others can be recognized as never being safe to be released and live out the rest of their lives in prison457F[[454]](#endnote-454). Sexual predators that offended with children face many of these problems, and Red Orange society can violently reject them to protect their Red children. Sometimes they can be held indefinitely even after their sentence is completed, and like trying to release a tame leopard near farms and livestock few people trust them to live nearby. Red people tend to take the attitude that a leopard cannot change its spots, and that violent criminals can never be trusted again, like a dog that has attacked or killed a person.

While in prison Yellow criminals try to be dominant, much as Yellow lions or other predators would fight over a limited territory. If someone acts weak then they can be perceived as prey sexually or for blackmailing to send money from outside. Usually rival gangs will evolve much like prides of lions and it is important not to be caught alone by a rival gang, like a lone lion by a pack of hyenas. Gangs can maintain a kind of control and prevent chaotic fights between prisoners, instead of a single fight a grievance might be negotiated between gangs458F[[455]](#endnote-455) or they go to war with each other. Prison guards usually act as Orange, sometimes with Orange Yellow informants to watch the situation or they might allow Red Orange gangs some latitude to protect themselves and Red prisoners. Behavior is rewarded and punished by parole and extra sentences; much like a predator is tamed by a carrot and stick approach.

Sometimes these gangs are teamed up with the rest of their gangs on the outside, so disputes can be fought not only on issues in the prison but to settle an outside issue that has started a gang war. Often however wars are avoided by the Blue Indigo part of a Red Orange gang because they are bad for business such as drug sales, Yellow is also restricted by its Violet legitimate business connections which can be more closely examined if they bring attention to themselves with Yellow wars. With many Yellow prisoners reoffending, the gangs control and look after them in prison and punish them if they inform on the gang. If Orange police are weak in a Roy society Yellow criminals can become warlords, as seen in Afghanistan, Somalia and Darfur. Yellow forms a group that operates openly, and battles other warlords for territory much as lions do. When America wanted to defeat the Red Orange Taliban and Al Qaeda they recruited Yellow warlords from the Northern Alliance often involved in the poppy drug trade and who would likely be in jail in a Biv Western society.

Orange Yellow criminals often form a fringe around Yellow, they are usually weaker, less ruthless, not team players, and so on. In nature they are like the fox, which hunts alone and quietly, its prey is Red which is also fast and secretive. These criminals are intimidated by Yellow and are usually not trusted to be part of the inner sanctum of organized crime. They are more fearful and can be beaten by Yellow predatory criminals and also Red Orange gangs. Since they usually cannot succeed by open force they must use deception, so con men, pickpockets, purse snatchers, housebreakers succeed by being secretive rather than doing violent Yellow home invasions, etc. They can also be protected by the Orange police as informants and this gives them some protection and leniency. Some police commit similar Orange Yellow crimes, stealing drugs and money from Red Orange gangs, shaking down travellers in third world countries, stealing from houses where crimes have occurred, taking bribes from Red criminals, and so on.

Because these crimes are more secretive and deceptive like a fox they can be difficult to catch unlike Yellow who is often too powerful to arrest even with evidence, for example Yellow criminals might have corrupt political connections, be able to bribe judges and afford the best lawyers while Orange Yellow criminals may be secret informants that the Orange police don’t want Yellow criminals to find out about. Corruption in the Orange police can be equally hard to prove, policing in some countries can be a virtual license for some to be an Orange Yellow criminal. They can also be lawyers and barristers, taking bribes from Yellow criminals, representing Yellow and Orange Yellow criminals in court for high profits, embezzling from trust accounts, and so on. In jail Orange Yellow is weak and survives by being a crony and sycophant. They can lie about hearing another prisoner confess in exchange for a lesser sentence. They can then be useful for a prosecutor to lie to convict Yellow criminals by framing them or they can use their secrecy and deception to accumulate real evidence on them in exchange for helping to convict or frame more dangerous criminals they can survive. This is not really like Darwinian evolution, they survive by being more fit, but the more deceptive and secretive they can be the better they do so this is an example of Personal Selection. Orange Yellow would also use blackmail because it is secretive, then crimes are usually nonviolent unless the victim is Red and weak.

Machiavelli would be quintessential Orange Yellow. He gave advice for Yellow kings, that they should be feared as a Yellow lion is rather than be loved. The idea of using deception and misdirection in politics is now called being Machiavellian. Lobbyists can be Orange Yellow on the right wing of politics; also like cronies to a Yellow dictator they receive scraps of wealth taken from the Red poor.

Orange are usually not criminals, but if they are too strong then a police state forms. While citizens are safe the costs of maintaining an extremely low level of crime in a society can be prohibitive. The Red Orange section of the Orange police can be criminal gangs, often dealing in drugs, this can lead to fights between Yellow and Red Orange over these profits but the Orange police tend to favor Red Orange. Most gang wars are with rival Red Orange gangs, which can also act as Blue Indigo businesses for drugs. Usually this is over territory or a perceived injustice from a gang member and normally they try and settle this as gang wars are bad for business.

Gangs often protect Red people from Yellow attacks; this can land them in trouble with the Orange police for taking the law into their hands. Often a gang is imposing a legalization of drugs on an area while trying to maintain a quality product free of dangerous impurities. Addicts can be looked after to some degree in the Red community which is similar to a medical approach to drugs. In other ways Red Orange gangs can supplant the police by allowing some Orange Yellow members and police to steal from and exploit a Red community so the crimes of gangs can be both sides of Orange. This can happen of the police are particularly ineffectual, for example in Gang Leader for a Day the police left the projects alone to a large degree so the gangs became a de facto police and justice system. They can use extortion by demanding money from people doing business on their territory, this is like a Blue Indigo union in that union dues to be allowed to work are forcibly collected, some benefits and protections to the community are provided, and business outside the union or gang’s control is not tolerated. This can include legal business such as car repairs and washes, babysitting as well as illegal ones such as prostitution and theft from people outside the gang territory.

The gang might attack stores in the area, often these are Orange Yellow in that they charge higher prices to serve Red ghetto areas and tolerate an amount of protection money to gangs as well as shoplifting from Red people. In a Biv marginal society the gang operates as a Blue Indigo cooperative and business and as a Red Orange criminal organization. In a Roy society gangs can be a rival government such as the tribal areas in Pakistan ruled by Red Orange Al Qaeda with some support from the Orange Pakistani armed forces and police. The Tribal areas are self-governing and look after people like unions do, attacking what they perceive as Yellow incursions into Islamic countries as imperialism. Their strategy in the attacks on 9/11 was to lure Yellow into overextending in a counterattack, much like buffalo might turn on an overconfident lion Al Qaeda and the Taliban pursue a war of attrition against the Allied Yellow forces in Afghanistan to make it too expensive to succeed.

Red Orange resistance can occur in countries with Yellow dictatorships, often these can be Marxist and Islamic but supplement their need for fighting funds by taxing Blue drug cultivationas an equivalent of union dues, kidnapping Yellow or Orange Yellow soldiers for ransom, kidnapping Biv workers such as engineers journalists and aid workers, and so on. They can also do these things for an advantage in their fights against Yellow. A resistance like this is usually seen as criminal but it can also be fighting a criminal Yellow government or organized crime. Gangs can also support each other as well as fight for territory much like unions, they might be example overall as one large union with many chapters that buy drugs more cheaply in bulk, help each other in gang wars, contribute to charities and have a public spokesman.

In the same way political Red Orange can have chapters and related organizations they support with money, people and arms. Al Qaeda is a loose collection of Red cells that can send fighters to each other, they can be secretive and deceptive as Red terrorists or Red Orange teams of fighters that meet and cooperate in training camps in Iraq and Afghanistan. Communist parties in various countries had a similar model, often infiltrating legitimate Blue Indigo unions or hiding amongst Blue workers as sleeper cells. Sometimes Red Orange can dominate a mining resource instead of farming poppies, marijuana or cocoa, blood diamonds are an example of this, where Red Orange supports an insurgency. Some oil countries in the Middle East donate to Red Orange terrorist groups in exchange for protection, money like this helped to grow Al Qaeda. Red Orange communist insurgents would live off Red peasants in many countries such as Vietnam and throughout South America. This would give them food to continue fighting as well as being able to hide amongst civilians.

Red crimes are less violent than Red Orange and are secretive and deceptive like Orange Yellow. Persecuted minorities sometimes engage in banking and business that is deceptive, when challenged they can retreat behind the walls of a ghetto as Red Orange, also stronger relations and friends as well as gangs. This is the inverse of Yellow teams using Orange Yellow secretive troops, here the center is secretive and Deceptive as Red but they can surround themselves with Red Orange protection. Yellow is like the endoskeleton of an animal with a stronger backbone, Red is like the weaker insides of an insect protected by an exoskeleton or Red Orange shell. Like Orange Yellow they can form secret societies to dominate an industry then use their Red Orange ties to favor each other, bankrupting and driving out others. For example people in a Red ghetto might work in outside Biv business such as cleaning, gardening and direct Red Orange gang members to rob the houses. Working in a business they might know when valuable goods are stored plus the weaknesses in security. In business there might be a Red Orange team based on ethnicity where those of a certain race favor and protect each other in business. Inside this team there is the secretive and deceptive Red center that engages in counterfeiting, fraud, etc.

A Red secret society might look for inside information on companies and pass this information on to more powerful Red Orange cronies to use their financial power to exploit it, for example a Violet company might have Blue workers who engage in espionage to find out when takeovers are being contemplated, this is acting as Red because it is not a positive sum game benefitting Violet and Blue. They then use this information to profit with their Blue Indigo and Red Orange protectors who buy shares in anticipation of the takeover. They could also plant spies in Orange Yellow to find out when the Yellow government plans to crack down on them and influence their policies away from attacking them, they might find out information that allows the Red Orange resistance to attack the Yellow dictatorship more effectively. Such crimes might weaken the Yellow dictatorship enough for Red Orange gangs to overthrow it, the South Vietnamese government for example had large numbers of Red communist spies deceptively acting as Orange Yellow in the espionage services and the government, this helped the Red Orange Viet Cong to realize that Yellow was losing the war of attrition. This is similar to relatives of Blue workers rising to become Indigo Violet agents of businesses and right wing political parties, then using that position to look after their own people more. In this secretive world competing ethnic, political, and religious groups might form secret societies and dominate business and politics with a web of intrigue and deception.

For example the Inquisition started out in Spain to torture Conversos459F[[456]](#endnote-456), Jews that were Red and had converted to Orange Yellow Christianity to escape persecution by Yellow, mainly the Spanish royalty of Ferdinand and Isabella. There eventually came prohibitions against Conversos holding public office because it was feared some had faked a conversion and were secretly attempting to take over the area from Yellow Catholicism. Later the Inquisition looked at different heresies that Red people either secretly believed in or openly resisted Catholicism such as embracing vows of poverty and that the church should not be wealthy. Yellow troops had fought the Manicheans460F[[457]](#endnote-457) and the Orange Yellow Inquisition like a fox used confessions from people to implicate others. This is like an Orange Yellow predator using a captured prey to lure others to it, or for it to call out to others. It is also similar to using Orange Yellow espionage to sniff out Red Communist and terrorist cells, also like McCarthyism in America looking for Red communists hiding in Hollywood and the media. Because Red are solitary and tend to turn each other in, the Orange Yellow Inquisitors would profit from false confessions and accusations because the Church would keep all the property of the convicted. If they confessed then they might be killed before being burned, rather than being burned alive. Red Orange people in the time of Isabella and Ferdinand strongly resisted the appointment of Inquisitors and sometimes managed to pay a fine instead being burned. However it was hard to stand together as Red Orange rather than secretly accusing each other as Red, this is like the rival strategies of Red Orange buffalo standing together or Red gazelles trying to run and abandoning the defense of each other.

Secretive crimes by poor people are usually Red. They might shoplift, steal small items when working as cleaners in Biv households, counterfeit money and bonds under protective of Red Orange gangs, sell fake and counterfeit designed pharmaceutical and fashionable clothes as in China, pirate software movies and music, steal cars, do black market work, and so on. Red people are competitive rather than cooperative so they can steal from each other and also inform on each other in exchange for being let go by the police as with Indigo Violet criminals, in the Prisoner’s Dilemma they are more likely to turn on each other while Red Orange criminals would tend to protect each other. This is like Red animals that stay together in herds to watch each other for signs of danger or for better food. If there is danger they scatter rather than help back other while Red Orange buffalo recognize their strength in staying together for a war of attrition against a Yellow team of predators such as lions or wolves.

Punishment in crime also changes according to color codes, there can be rehabilitation, revenge, exile from the population for a time, torture, and so on. Biv punishment is generally related to property, such as fining or taking property in a civil suit, also peer pressure using Blue Indigo boycotts on companies or Violet teams refusing to hire someone like blackballing an actor in Hollywood can make them conform. For example if a pundit on television offends part of the population then people can complain to the advertisers on that show and refuse to watch it. Often the advertisers fear lost sales and switch their advertising to another show, and the pundit might have to change his ways or be fired. A company might damage an area around factories and cause sickness and this can lead to a Biv civil lawsuit rather than a Roy criminal one. The bad publicity with boycotts and lost sales can persuade them to settle as much as the legal case, this was seen with the recent spill of oil in the Gulf of Mexico where BP feared boycotts and a bad public image and preferred to be seen as generous to counter this.

The same works in any media such as newspapers and internet blogs. Indigo Violet stores and agents are vulnerable to the same peer pressure, Blue Indigo consumers can spread the word about their secretive and deceptive business practices and to a highly leveraged business with many competitors this can drastically accept their profits, so things that displease consumers are usually fixed quickly. This is like Orange Yellow predators trying to deceptively attack a Red Orange herd but when they are seen and the herd turns on them they must escape. Consumers also can be penalized, if Blue customers are caught shoplifting or acting suspiciously then they can be ejected from a Violet store or arrested while a smaller Indigo Violet store might not be able to detain them without leaving the store open to another thief. If they are slow in repaying loans then their credit rating and ability to borrow are revoked, on Ebay if they are not fair in transactions they get a bad rating and lower prices for future sales because buyers may not trust them again, if they are abusive in internet forums they can be labeled a troll and banned, and so on.

Indigo can regulate civil crimes such as with the SEC, managers and executives who commit crimes might be banned from being a director or even working in a field such as securities. A bankrupt might be banned from keeping more than a set amount of property or wages, and might have to disclose he is a bankrupt when doing business. A lawyer might be disbarred from practicing law for ethical breaches and a doctor might be deregistered for fraternizing with a patient. To ensure competency many professions require people to pass tests from a university or college, if not then they cannot practice in that field. Damages can also be claimed in Biv society, if someone suffers loss of income, is libeled or slandered and so has damage to their reputation, is injured and so suffers loss of performance in work or social activities, then they might claim damages against a person, a state, a corporation or often an insurance company. In Violet and Blue Indigo insurance acts to spread the risk of random but improbable damage among many, and is an aspect of teamwork in these colors. For example an unlucky event such as a car accident or freak weather might be insured against in this way. In Blue and Indigo Violet collapses from tipping points can be insured against, for Blue workers this could be a mine shaft collapse, overwork leading to a vulnerability to disease, a drought leading to loss of a crop and so on. Because Blue is secretive and deceptive then insurance companies must investigate to avoid fraud.

In Indigo Violet insuring against collapse can include credit default swaps and can involve a bank or hedge fund run leading to insolvency, a sudden lowering of prices in highly leveraged investments bankrupting a business or making a bond worthless, a lack of clients from a recession causing a shop or agent to close, and so on. Such collapses are hard to insure against because in chaos theory a collapse is hard to predict and these colors don’t model with a pi based normal curve. Instead they are e or exponentially based where too much growth leads to collapse not a random variation of probability. Contraction of the money supply can also lead to collapse like too much growth can, such as a highly leveraged business shrinking in size from a poor market with high overheads, a contraction in the money supply in the Great Recession led to tipping points from lack of liquidity, bad weather slowing down deliveries and staff getting to work leading to failed orders, and so on. To assess these tipping points an understanding of the strength of components is needed, this is done in engineering in building bridges and skyscrapers where more than enough strength or resilience is factored into the construction to keep tipping points from being reached. In the same way a banking system needs larger than expected reserves of liquidity to avoid disastrous events such as the attack on 9/11 to cause tipping points to be reach. This is more difficult to calculate in economics when people may break under stress in unpredictable ways, and do a bad or fraudulent job for secretive and deceptive reasons no one may ever fully understand, not repay a mortgage as many have during the Great Recession and why people would lie on a no document loan to buy a house, and so on. Systemic risk in an economy requires monitoring tipping points throughout it, understanding how they link together like parts of a bridge, and providing a sufficient margin against tipping points. Insurance algorithms are poorly suited to this because they assume random events are occurring in statistical equations and so give a wrong answer when events are chaotic. They are less able to handle the enormous levels of secrecy and deception that led to the Great Recession in subprime bonds and no document loans, when people can buy insurance for secretive and deceptive reasons such as for insuring subprime bonds they know will fail or it being more profitable to insure a business and let it fail than make profits from it running.

In Roy remedies to crime can be a negative sum game as well. Putting someone in a Roy jail or asylum can cost money as well as cause pain to the prisoners and his family but it is the lesser evil than letting them go free. At best it can be a zero sum game where the remedy leads to no loss for the aggrieved party, such as an execution or killing on the battlefield. Biv crimes are often remedied as a zero sum game, such as an offensive pundit on television is not watched any more resulting in a gain for the viewer and a loss for the pundit. Damages paid in a suit can result in a transfer of money from one to the other, and is nearly zero sum if lawyer fees are minimal, this is often Roy however because lawsuits can be the lesser of two evils and cost so much that only a small percentage of the actual damages are recovered. Sometimes penalties are a positive sum game, where for example a fired employee gets a more suitable job elsewhere and the company finds a more suitable employee. Roy crime then has a limit in Green and Biv crime as a limit in Green Blue as zero sum games.

Yellow people normally rule by violence such as with organized crime and dictatorships, and can die the same way from other Yellow people. Organized crime has often gone to war with rival gangs; many are killed in this battle for territory or perceived injustices between them. Orange police treat them in much the same way, execution such as with Saddam, executions by hit men on rival gangs, execution in many parts of America for violent crimes, a coup often executes the leaders they replace and so on. The alternatives to execution of Yellow are mutilation, imprisonment like caging a wild animal, and torture. Mutilation and imprisonment have also been used by Yellow in history on their victims and on each other such as the Nazis torturing prisoners in World War Two and also executing Rohm and Rommel. So punishment of Yellow criminals probably evolved from the way they treat each other as well as how they treat Red prey, Red Orange gangs evolved a similar disregard for Yellow suffering, and buffaloes for example would not be concerned about hurting lions though they would usually go around rather than hurt non predators. This Red Orange attitude with vigilantes and neighborhood watch carries into the Orange police who have little sympathy for Yellow criminals but are also tempered by their Orange Yellow side to be lenient with them on occasion.

Treason was another reason for torture, imprisonment, and execution of Yellow rivals such as one king executing his rivals. Often this was because the Yellow victor saw losers as treasonous; leading to the saying that treason never prospers because if it does none dare call it treason. Yellow governments also have historically treated Red spies this way just as Red Orange communist governments would execute or exchange Orange Yellow spies in their midst, in war a soldier out of uniform was liable to be shot as a spy. Prisoners of war were often tortured, imprisoned in poor conditions with bad food such as in concentration camps, and executed. This was done for example by the Yellow Nazis and Red Orange communists, each of them would cage their color rivals like dangerous animals in a zoo but Yellow would be predatory and sometimes kill them or let them starve while Red Orange communists would do the same out of hate. This is also similar to Yellow predators in nature, such as lions, leopards, cheetahs, hyenas and jackals interacting in Africa. In their battle for territory they are like the saying live by the sword and die by the sword.

Orange police then mete out justice to Yellow similar to what they do to each other leading to the saying that the punishment should fit the crime. In prison Yellow prisoners can attack each other as with Yellow predators in nature, letting them do this can be a form of punishment as well as a sentence if they kill each other. Often Red Orange prison guards beat up Yellow prisoners for misbehavior, some prisons such as Alcatraz were famous for this.

Indigo Violet punishment can be less severe because they are often part of or allied with Orange police against Yellow. They can get reduced sentences from turning in other criminals, because being petty criminals they are more likely to turn straight, also Orange Yellow crimes are more of a grey area where they are doing a service for the Orange police in exchange for committing some crime. Orange crimes can often be suppressed like the saying who will watch the watchers, penalties have mainly involved expulsion from Orange, people such as judges and police might be asked to resign. In America the rise of Internal Affairs has been controversial in Orange as it pits cop versus cop, which seems traitorous to many because Red Orange are team players but Orange Yellow internal affairs can attack this tendency to act as a team even if corrupt. Judges and police are sometimes caught in stings, or fake offers of bribes. This is like Orange culling people from itself that are not really Orange, they might be Orange Yellow petty criminals stealing from crime scenes or accepting bribes in collusion with Yellow organized crime, or they can be Red Orange vigilantes going outside the law to beat up Yellow criminals or even execute them in a kind of star chamber.

Red Orange criminals may have lesser penalties for crimes because these are often from overprotecting Red communities. Gangs might deal out justice to Yellow criminals rather than calling the Orange police, who often either would not come or rob the gang themselves in ghettoes461F[[458]](#endnote-458). In this case the crime is that the gang or vigilantes, sometimes even neighborhood watch punished the criminal rather than leaving this for Orange to do though historically the Orange police have relied on limited self-policing by Red Orange with lynch mobs, neighborhood watch and citizen’s arrests. A harsh sentence in this case can look like siding with Yellow criminals so Red Orange can be treated more leniently like Orange Yellow criminals.

Red crime is more harshly dealt with by Orange because like Yellow it is not allied with it. Red criminals are solitary and secretive, sometimes like Orange Yellow and can be spies against Yellow dictators in their own organizations. Associated with Communists and terrorists they can be executed as traitors, rendition can be used to send them to another country for execution or torture, or secret prisons can be used. Red can be viewed as dangerous in a marginal society; they can be Robin Hood like thieves against the Orange Yellow wealthy using stealth and disguises. The Red poor can be disproportionately sentenced by Orange such as with addicts though often they cannot control their addiction, as homeless sleeping in public areas or near wealthier residences, as thieves stealing for food and harming the community much less than corporate criminals with fraud, and so on. With California’s 3 strike’s law462F[[459]](#endnote-459) Red people can get life imprisonment for stealing for food even though Red welfare has been drastically cut.

In Aperiomics Orange and Indigo correspond to grey areas in logic, which normally deals in black and white or excluded middle logic463F[[460]](#endnote-460). However in Roy negative sum games and Biv positive sum games this excluded middle leads to an overemphasis on extreme positions such as Red versus Yellow or positive versus negative, and Blue versus Violet or imagination versus the will. This extended logic in Aperiomics is called “not logic” or color logic, because it can refer to what things are not rather than what they are. In Roy, Red is positive, Red Orange is not-negative, Orange is not-positive and not-negative so it is neutral and being not-black and not-white it is a grey area, Orange Yellow is not-positive, and Yellow is negative. In Biv Blue is I will, Blue Indigo is I cannot, Indigo is I cannot and I will not so it is also neutral because there is no action, Indigo Violet is I will not, and Violet is I can.

Not logic leads to an easier way to analyze color code interactions, because these conflicts in Roy and negotiations in Biv are often more defined by what they are against or are not. This is consistent with Bertrand Russell’s three laws of thought464F[[461]](#endnote-461) where nothing can be and not be. If Red is positive and Orange Yellow is not-positive then being is Red and not-being is Yellow so both terms can be used in logical arguments.

For example Red Orange is against Yellow in any issue they interact on because they are enemies, and changing facts can give a false impression with logic that they will become allies or friends if one or the other wins an argument, this is why bipartisanship in politics rarely works. Also neutrality is poorly defined in logic, the implicit assumption is that all parts of the situation are black or white and that grey does not exist except as smaller black and white interactions that appear grey from a distance. Real world situations then appear irrational or illogical because this is excluded in logic, however the term irrational means not-rational and illogical means not-logical. Not-logic in Aperiomics allows a mix of the rational and irrational in society to be analyzed as they can be in mathematics, for example complex numbers are a combination of rational and irrational numbers and are consistent mathematically. Society is also a mix of the rational and irrational so Aperiomics instead of dismissing the irrational includes it in arguments, wars and trade because it is not necessary to avoid its intrinsic irrationality. Because irrational means not-rational then rational arguments are broken down into Red positive and Yellow negative which is the familiar form of Aristotelian logic. Orange Yellow people can be against Red people winning an argument even when this is not-logical and not-rational, in the same way Red Orange people can be against Yellow winning an argument again when this position is not-logical and not-rational. Because Roy is predator and prey it is not obligatory for someone or an animal to submit because they are wrong or not-rational, they usually fight on until defeated. So for someone to be not-rational in Aperiomics is no barrier to analysis of the issues.

In Aperiomics Orange is neutral because it is not-Red and not-Yellow, or not-for and not-against any proposal or issue, this is how color logic replaces standard logic in Aperiomics because Red stands for positive and the other colors as defined earlier. It is easier to use colors to define this logic because these colors mix together in ways equivalent to logical statements, for example in an argument where a positive proposition is colored white and a negative proposition is colored black then showing these as shades in a debate might show that the outcome was shades of grey where each side cast enough doubt on the other to not win outright. In a courtroom if the victim’s statements are white and the alleged predator or criminal’s statements are black then the outcome might be grey with a hung jury where black and white each are believed to some degree. Replacing white with Red and black with Yellow means that a hung jury would be a neutral or Orange decision and the debate’s outcome would be Orange because Red and Yellow mixed together gives Orange. So the colors in Aperiomics not only show interactions between animals, plants, people, system, etc but the actual colors mix together in ways that show the same interactions which is useful for illustrating these interactions. For example a map of a city might show Red poorer areas with Red Orange fringes, Orange police stations and law courts, known Orange Yellow criminal areas and Yellow areas controlled by the mafia. From a distance these would all look Orange indicating the ecosystem is balanced to some degree and changes in color codes in an area, such as an expanding Yellow mafia influence can be seen as a tilt from Orange to Orange Yellow overall. In the same way Biv areas can be illustrated with Blue worker areas, Blue Indigo unionized areas, Indigo market districts, Indigo Violet agents in shops and Violet talented people in wealthier areas. If the economy became poorer then Roy colors would start to replace these, for example Red poor and unemployed would start to increase in the Blue areas. The world can also be broken up into Green publicly owned areas and Green Blue privately owned ones, all these colors interact with each other according to the laws of Aperiomics.

Indigo is a neutral market because it is not-Blue and not-Violet, it is composed of people who cannot do a job or won’t do it so they act as intermediaries. Game theory can be extended by adding these extra colors to interactions, so that people who are Roy against something are not left out.

For example the Prisoner’s Dilemma is not complete according to Aperiomics because one of the participants, namely the Orange police is not in the game theory representation and so how they react is not always the same as in real life, for example they may be corrupt or framing the prisoners. Sometimes they decide to offer different deals, for example they might offer a lower sentence for giving evidence against someone else that is not involved and doesn’t have a chance to plea bargain, also the prosecutor might be Red Orange, Orange, or Orange Yellow which affects how they act. In the case of positive and negative being used, the negative side is the Yellow prosecutor wanting to maximize the sentences on the positive Red criminals in a predatory way perhaps to build their career by looking tough on crime. If he gets rid of too much crime then it seems less necessary to elect him to public office so like Yellow predators they can make their own job unnecessary by downsizing the department if they are too successful like lions can starve if they eat too many Red animals. Aperiomics by using color logic can analyze all these kinds of interactions including the irrational or not-rational behaviors of criminals. Like Yellow lions against Red gazelles the logical approach for Red is every man for himself, but quite often criminals do support each other as Red Orange because Yellow gangs attack them and they must form gangs or teams themselves to survive. In Aperiomics the prosecutor is ideally Orange or neutral, there are then five groups of prisoners, Red, Red Orange, Orange, Orange Yellow, and Yellow.

Orange separates the Red prisoners and as in the Prisoner’s Dilemma Red turns each other in because they are solitary, deceptive, and competitive by nature. The Red Orange prisoners when separated tend not to turn each other in, this is how gangs, freedom fighters, and terrorists act because they see standing together as a team the only way to avoid being divided and conquered by the Yellow enemy team. This is also because they joined Red Orange to defend Red, so won’t betray them easily now or they wouldn’t have joined in the first place. So Red Orange has been selected as in nature to work as a team, also betraying others could lead to reprisals against their Red relatives or themselves. Red people would usually be kept in the dark about the Red Orange crimes because they are known to be weak and less trustworthy by Red Orange. Threatening Red relatives with prosecution rarely works to break the Red Orange team because Red has plausible denial, relatives of gang members can always say they didn’t know what was happening or were not legally obliged to turn them in.

The Orange prosecutor can then examine Orange prisoners; these might be corrupt police and judges. Often Orange wants to cover this up because the community can lose confidence in the police and also they tend to be loyal to each other like a Red Orange team but internal affairs might find some Orange police are not really neutral and have become associated with Red Orange or Orange Yellow. In this case an Orange prosecutor could be confronted with two apparently Orange police who have been arrested on suspicion of corruption. If they are placed in separate rooms then they might each assume the other will be faithful to the Orange team and cooperate with each other rather than talk, they might even talk by competing with each other for a lower sentence and implicate part of the prosecutor’s team and destroy his career.

The Orange prosecution next separates two Orange Yellow prisoners. They are also solitary, competitive and deceptive and are more likely to turn each other in, though they would not know much about Yellow criminals because Orange Yellow are usually known to be untrustworthy and would not have been confided in as much. One or both may also be criminal informants and the deal they are offered may depend on past information, the Orange prosecutor may prefer they cooperate with each other and do not confess so they can stay free to inform more on Yellow criminals. Because they are usually secretive and deceptive they may not tell the truth when they implicate each other which may ruin the prosecution in Orange court later.

Yellow people are then separated, the non team players have not been allowed into this team, so team selection makes them more likely to not turn on each other. Team selection is where people or animals make decisions as a team rather than personally that may indirectly affect their evolution or the sexual selection of their partner, for example Yellow criminals may join the mafia and this could affect who they marry and how many children they have. It can also affect many other factors that indirectly affect other people’s evolution, for example if they kill people as a mafia then those people would not have more children. Other aspects of society are affected by team selection that have no bearing on childbearing, for example a Yellow mafia might spend more money in society or go to prison more often but this affects whether a prison guard might be able to afford to have a family only slightly. Like a social insurance with Red Orange the Yellow criminals tend to look after each other’s families when they go to prison, give money to bribe guards and buy luxuries, and help with Orange Yellow lawyers looking for loopholes, intimidate or kill witnesses, and bribe Orange police and judges. This along with reprisals against those that talk makes it much harder to break the team strategy. Yellow criminals might already have agreed to do some prison time in exchange for these protections and payments to their family so the Orange prosecutor may have nothing bad enough to threaten them with but the same threats against Orange Yellow prisoners might work because being competitive and having no safety net of family protection they would turn each other in immediately.

The difference here is that this modified Prisoner’s Dilemma predicts more of what actually happens in the Orange legal system. This can then be used to model any issue with color logic, which includes Aristotelian and not-logic or illogical statements. Not-logic leads to conclusions as with Aristotelian logic. For example:

Major premise: All animals are mortal.

Minor premise: All humans are animals.

Conclusion: All humans are mortal.

This is Red because both premises are positive and so the conclusion is positive. In Yellow we would try to refute this, so Yellow uses honest but negative logic to overcome Red logical arguments so the two together would make up excluded middle logic. In Orange Yellow this is not-negative in Aperiomics so we could say not-animals are not-mortal here, and some inanimate objects such as rocks are not-animals so mortality does not apply to them so they are not-mortal. Because Red and Orange Yellow are both secretive and deceptive an argument between them can become sophist as each tries to trick the other with word games. Here Orange Yellow might assert that Red’s argument implies that rocks must be alive because they are immortal i.e. not-mortal. He might also assert that some not-humans or all that are not humans are not-animals such as rocks.

Aperiomics uses dashes to show terms that apply to some color codes. Not-animal means anything not defined by the term animal. Terms like these could be shown in Venn diagrams, a circle might represent animals and everything outside this circle represents not-animals. This also relates to the Incompleteness Theorem by Kurt Gödel where he shows that any sufficiently complex system is incomplete because there can also be terms we can classify as not-system rules which can be true but not provable in that system. In Orange Yellow then we are looking for conclusions from the major premise about things that are not animals, i.e. not-animals. Not-animals are not just an abstraction, for example we can go to a quarry and see the rocks there as not-animals and so many logical things about them, such as their being not-human and not-mortal. Often a part of society can be defined by their opposition to something rather than being able to articulate what they are for or what their policies would be if they were elected. For example it was common years ago to promote anti-communism which would be not-communism or not-Red as a philosophy. This could be deceptive because Orange Yellow conmen could justify an economy built on fraudulent deals or Yellow dictators justify their rule on being not-communists and this could be enough for them to get support from other countries such as with the United States supporting Somoza in Nicaragua. The idea is often that this opposition to a color will grow into a more coherent philosophy than naysaying what Marxists believed. Something was known to be wrong with the Red communist philosophy but because it was so secretive and deceptive there was no way to debate with communists so that the victor would give up and convert to the other’s system. Some Red communists got advantages from their system and would not give those up to become potentially an impoverished underclass in an Authoritarian dictatorship. The decision then was often to simply oppose Red communism with Orange Yellow anti-communism, this becomes like Orange Yellow predators hunting Red prey like a cat and a mouse with misinformation and deception used by both sides looking for victory. Often however neither side was looking for total victory because that would imperil their own position, for example Orange Yellow spies were out of a job when the Soviet Union broke up and Red spies in a capitalistic country would also be out of a job when that country was taken over as with Nicaragua and El Salvador. Often then these conflicts became a permanent cold war just as in nature where both sides were defined by the other and needed the other to make a living.

The subject becomes not-animals in Orange Yellow and what we can say about it, humans are not part of this, some are mortal such as plants and some are not-mortal such as rocks. Orange Yellow here is acting as a critic of the Red statement, pointing out additional information. This can also show some weaknesses in Red’s argument, for example if Red said that only some humans are animals then Orange Yellow could say that implies that some not-animals are humans which is not true, not-logic here shows a flaw in Red-logic.

So not-animal becomes a topic for logical analysis, this also relates to Gödel’s Theorem because a logical system of sufficient complexity cannot be complete because if the system is called A then it cannot include not-A but as I have shown not-A can also be consistent logically. Orange Yellow here is not a critic like Yellow, who is against Red Orange, but extends the logical arguments to all that is not-positive, here about things that are not-A as well as not-animals, not-human and not-mortal. We could say that some things that are not-animals such as rocks are not-mortal, but as will be shown later rocks here would be Orange, because they are not-mortal, but because they were never alive they are not immortal, i.e. not-not-mortal or not-eternally alive either. So because rocks are both not negative and not positive this makes them Orange in this argument in color logic. We could also say rocks are not-alive, and also say they are not-dead, and so they are Orange neutral from concepts of being alive or dead. A corpse as not-animal and not-human might also be not-mortal because it cannot die again.

In Red Orange logic we discuss things that are not-negative instead of positive. So here instead of discussing positive logical statements we are against negative ones. Yellow covers all statements that are false, and includes where this is used for gain. A Red Orange resistance group in a country might define itself as not-Yellow because they are against this form of dictatorship, in the example of Nicaragua the Red Orange communist resistance might define themselves as being anti-Somoza or not-Somoza. Where before the Orange Yellow part of the government defined itself and received foreign aid for being not-Red or not-communist here the Red Orange resistance might not be overtly communist but be against many of the predatory actions of a Yellow dictator such as death squads, corruption, and impoverishing the Red population that Red Orange gangs protect. This anti-Somoza attitude may have gotten them support from the former Soviet Union even when they began to doubt the validity of Red Marxism because they say that Yellow dictatorship was bad for the Nicaraguan people in many ways. Not-logic then causes blood and treasure to be donated from the left and right in this way and the war between them because hard to comprehend as shades of grey, or in Aperiomics shades of Orange.

In logic Yellow is a cynical and pessimistic attitude, they may say that humans are not rocks and animals are not immortal, these would be negative statements. Red Orange is against negative statements because they are not-Yellow and the color Red Orange contains little Yellow in it, color logic then works not only in logical arguments but in actual mixes of colors. Red Orange might say that some not-humans are not not-rocks and some not-animals are not not-living forever. Diamonds for example are not-human and they are also not not-rocks because diamonds are a kind of rock before they are cut so this is a true statement, also there are some cancer cells that never die so they can said to be living forever. A tumor then might be not-animal because it is foreign to the genetic Blueprint of the animal and yet it is not not-living forever, or in a simpler way a tumor is not-animal and it is not mortal. Red Orange and Yellow can also show illogical statements in the other as with Red and Orange Yellow for example Yellow might say that all humans are not animals, Yellow Christian fundamentalists who are creationists could also argue this, and then Red Orange could reply that means that some not-humans are not not-animals i.e. some not-humans are animals because animals exist and none of them are humans so they can only be not-humans. This part is logically correct. Not-animals are either plants or inanimate or not-animate objects like rocks, these are also not-humans, therefore since humans do not fit into any definition that is not-animal then Yellow’s argument is false.

These two interactions, Red versus Orange Yellow and Red Orange versus Yellow arguments show the pitfalls of arguing in terms of what something is not, or being against something as a logical position. Being anti-communist is to be not-communist, anti-capitalist is not-capitalist, anti-abortion is not-abortion, anti-tax is not-tax, anti-death penalty is not-death penalty, these are all used in political arguments, can decide elections and even start wars. These arguments are unstable and lead to cold and hot wars whether of words or of actual violence, this is because Red versus Orange Yellow and Red Orange versus Yellow are mot moderated by an Orange influence. In society arguments like these are usually decided by Orange moderators, police, judges, etc which stops these conflicts getting out of control. For example an abortion versus anti-abortion argument can become heated, the Orange courts being neutral find a neutral point mid-way between the two positions, often this is that abortion is legal in the first trimester of pregnancy. If courts refused to rule on abortion and the police refused to intervene then this war of words would lead to attacks on abortion clinics and reprisals against those attackers, women having an abortion would be verbally abused and perhaps beaten while others would target these attackers of women leading to street battles.

The waxing and waning of the strength of the Orange courts, police and moderators such in the media where both sides present their argument means that sometimes both sides feel too imposed on by the courts and at other times the situations can collapse into anarchy. Usually wars occur because Orange is weak, for example the United Nations was unable to effectively manage the debate between communism and anti-communism by restraining the United States and other Western countries from supporting Yellow dictators like Somoza and Pinochet. It was also unable to restrain the capitalism versus anti-capitalism debate so that communist countries did not try to export their beliefs to other countries and subsidize revolutions there.

Examples of false logic are straw men, appealing to authority, from the general to the particular and vice versa, irrelevant conclusion, false cause, circular argument, and non sequitars. Just like in Aristotelian logic we can list all the syllogisms in color logic form465F[[462]](#endnote-462) but in Aperiomics the majority of syllogism that are not accurate are also important because they show that color codes will not necessarily agree or submit to another just because their argument is illogical. For example the conflict between Red communism and Yellow capitalism had many illogical arguments on both sides and yet this did not much affect the blood and treasure lost on both sides because each found the other unacceptable which made not-logic the main interaction. When a color code uses an illogical argument or syllogism they can justify this as a strategy for the greater good in Biv or lesser of two evils in Roy, the conflicts cannot be avoided by making both sides more logical though the neutral Orange judge and police can show these illogical statements as a way to impose Orange order. For example not-logic can use a straw man argument where anti-communism ignores some good examples of a communist state such as the former Yugoslavia or benefits to communism such as free health care, they imply that free health care is bad because it becomes part of anti-communism yet health insurance is not different to any other form of insurance used in capitalistic countries except it is government run like other necessary services like pensions, the armed forces, and the police. Sophistry can be secretive and deceptive use of false logic and is like misinformation, for example the effects of drugs in society can be exaggerated and falsified to scare Red people away from trying them because a small percentage may become addicts.

Orange acts to balance the two not-logic colors, Red Orange and Orange Yellow by exposing their illogical statements then finding a middle ground between them. It does this because it is not-positive and not-negative which is neutral so if Red Orange is a not-negative argument against Yellow such as anti-capitalism and Orange Yellow is a not-positive argument against Red such as anti-communism then Orange being not-negative and not-positive is not-capitalism and not-communism and so represents a mixed economy in the middle where excluded middle logic prevents this argument from being resolved. For example the Orange United Nations is against excessive imperialism and so is not-capitalistic, it is also against excessive communism as happened in Cambodia with the killing fields so it is not-communism, and instead it tries to moderate the wars between the two with resolutions against the extremes of both. An Orange court is also neutral and looks at two arguments for example with a violent Yellow rape against a defenseless Red girl. The Orange Yellow defense lawyer defends Yellow by an anti-Red or not-Red argument and the Red Orange attacking lawyer has an anti-Yellow or not-Yellow argument in which each tries to expose weaknesses and contradictions in the other’s version of events. The court after seeing all these defects in the arguments exposed will often take a middle position between the two as a resolution of the case, a jury will do a similar job where a majority of jurors may be for one side or the other. The jury then might agree on a penalty or acquittal based on this middle ground between Red Orange and Orange Yellow. Moderators in the media also do this, they give equal time to both sides to use not-logic arguments to expose weaknesses in the other, this is also like in war where both sides try to attack and break through each other’s defense except that Red Orange is generally defensive and Orange Yellow offensive. Untruths on both sides may also be allowed, it may not be possible to disprove them so the moderator tends to take the middle ground between secrecy and deception as well as open and honest team based arguments. For example Red abortionists may argue deceptively with Orange Yellow anti or not-abortionists and the moderator must try to expose some deceptions on both sides. There can also be a Yellow pro-life and Red Orange anti or not-pro-life argument which can be more violent with opposing teams and where the argument is decided more by strength of numbers, for example Yellow evangelists trying to use their voting numbers to pass laws banning abortions and Red Orange feminist organizations forming women as a team to demonstrate, write mass letter campaign to politicians, and rival demonstration groups may even clash in street protests. The Orange moderator tries to let both sides state their argument, in the usual news services he may withhold judgment and allow these battles to continue sometimes because they are good for ratings and he is publicizing this conflict rather than trying to judge it. A pundit on TV or journalists in the opinion section of a newspaper may render an Orange verdict, often however the debate on these issues continues in the media as well. If the pundits are extreme Red and Yellow then they may be irreconcilable, if more moderate Red Orange on the center-left with their own newspapers and opinions in Orange Yellow newspapers on the center-right then Orange neutral people such as independents and swing voters in elections might read both of these and form an opinion in the middle. When there is an election these moderate Orange voters tend to swing to Red Orange or Orange Yellow acting like a kind of police and the courts to give fair laws between these two positions on various issues.

Many people in society are not very logical in what they buy, and this is not much of a disadvantage to them. Hypocrisy is not logical but it enables some people to act in a predatory way in business without feeling guilty, and this can give their offspring like lions more chance to survive. If a predator started to wonder too much about how it would feel if it were the prey then it might not survive as well as one that was like a sociopath. Even mental illness which we define as illogical is often useful for procreation. Paranoids can survive natural disasters most people would discount, and sometimes can anticipate criminals better. Red gazelles survive in nature by being sufficiently paranoid. Even depression can be a natural response to problems, much of this mental worrying is wasted but sometimes it provides a solution not depressed people would not have found. Laws are not logical; they provide a middle ground between rivals that is acceptable enough for all.

In Roy society Yellow and Orange Yellow people regularly win arguments by being illogical or not-logical, by getting upset when contradicted, by revenging themselves such as by ending a friendship, and using false logic or sophistry, in fact they usually win more often than not. This is like in nature where predators tend to win encounters with prey. Insobriety people need not submit to logical analysis if they survive better by not using it. Science is seen as a battle between the forces of logic and irrationality but this progress has been painful and slow, and is like Red animals evolving defenses as Red Orange against Yellow predators. The goal of logicians and mathematicians such as Bertrand Russell was to explain the world and mathematics this way, but Godel showed this was impossible even in an abstract set of rules such as mathematics.

Red Orange logic is a counter to Yellow false logic and is also like in a courtroom where a Yellow criminal’s lies are shown to be inconsistent, it refers to logic that is not-false, different from true-logic. This cannot be done with true-logic which only refers to statements that are true; one cannot derive false statements from it. A lawyer could point out a Yellow criminal’s statements are not logically consistent; this is the same as saying they are consistent lies. Usually though the Red Orange lawyer would distort the facts much as Yellow does but to support a verdict of guilty.

The battle between Yellow and Red Orange here is thus between Yellow lies and exposing this as Red Orange. To prove Yellow is false does not mean it does not exist, we can prove with logic that many parts of quantum mechanics must be false as Einstein tried to do, but they do exist. Reality seems to be a similar process where some parts act Red logically, some Orange Yellow illogically, other parts are false such as particles temporarily being in many positions at once or having the wrong energy by breaking the laws of conservation of energy, and this law breaking is restricted by the Heisenberg Uncertainty Principle. Because we can describe all this mathematically using irrational numbers and in arguments using lies then it also describes a partially illogical and false reality. This is also important because we know from Godel’s Theorem that some things are true but not provable in a sufficiently complex system. Heisenberg’s Uncertainty Principle tells us the same thing; some parts of reality can never be observed or measured without changing them in ways we cannot measure. The irrational, illogical, lying, law breaking, deceptive parts of reality can be defined and used in color logic rather than dismissed as inferior because they are significant and often win in society. Plato and Aristotle had different views of reality in Ancient Greece, Aristotle thought everything could be understood with reason, but Plato thought that there was much more than that. To him revelation was superior, and that we could never see all this reality directly, as the Heisenberg Uncertainty Principle later showed. Plato’s philosophy was more Orange Yellow in its attacks on Red logic, and when the Catholic Church grew it turned to Plato’s ideas as a model for understanding God. Logic was seen as irrelevant and was lost in Europe completely, only rediscovered in Aristotle’s works in the 12th century in the Moor controlled areas of Spain.

As the rediscovery of Red logic spread through Europe it competed with the prevailing Yellow and Orange Yellow alliance of the Church and State. People were expected to believe kings and the Church even when they were illogical such as trying to explain the Trinity, hypocritical when the Church grew wealthy while Jesus advocated poverty as the way to heaven, relied on faith rather than evidence, and so on. The new logicians such as Thomas Aquinas were seen as heretics and sometimes investigated and burned alive by the Orange Yellow Inquisition, censured by the church, excommunicated, forbidden to preach in the case of priests, expelled from universities as happen several times in Paris, and even attached en masse by troops in the case of the Jansenists and Manicheans.

Logic was seen as subversive and exposing illogical parts of Christian faith as well as criminal actions such as using the Inquisition to take wealth with false accusations was seen as evil. Only gradually did begin develop defenses to these attacks, and by Red Orange they cast doubt on Yellow doctrines, leading to schism in the Church and the formation of such as Protestantism, Lutherans, and Anglicans. Later Communism tried to assume the mantle of a logical version of history with dialectics which was seen as a threat to belief in the invisible hand of Yellow Capitalism. Logical positivism attempted to do the same for science, to remove superstition and faith, and make empirical science and logic supreme. Bad effects of Capitalism were like evils that God permitted to continue for mysterious reasons; God’s plan was to be relied on in faith to be correct just like the Invisible Hand used evil and selfishness in people to do good.

Not surprisingly Yellow people tended to be the big winners under Yellow faith, capitalists and the Industrial Revolution became wealthy by exploiting the poor just as the Church did, as its predecessor the Roman Empire soon to become the Holy Roman Empire did, and how Yellow predators prosper. Just as in nature this predation causes evolution and revolution, animals evolve and Capitalism evolved more and more technology vindicating the faith in the invisible hand. The Church in many ways vindicated this faith in God’s invisible hand by doing much good, and technology did increase under the Church’s guidance, leading to the Renaissance for example.

For example the statement about humans being animals tells us nothing about whether rocks are animals, or about things that are not-human and not-animals. If we extend the number of things we make Red logical statements about, there are always things not on the list which are true but not provable, like Hilbert’s Hotel. Like Cantor showed with numbers, the list of things we can make logical statements about is not denumerable because we can include terms like not-on-the-list which can be true but not provable by looking at the list. Cantor did this by looking at a list of irrational numbers and by taking a digit not in the first place of the first number, then a second digit not in the second place of the second number he could make an infinitely long irrational number not on the list. In the same way with a list of all Red logical statements, even if each is infinitely long one can take the first term from the first statement, the second them from the second statement and so on, and construct a statement not on the list.

If Red is about things that are true then Orange Yellow is about not those things and what is not true. If Red describes things that are true and provable, then Orange Yellow contains statements that are not true and provable, and true but not provable, as well as statements not true and not provable. Things that are not true and provable are those with incorrect or contradictory axioms, there are also not-axioms which are not included in any list of axioms by which things can be proven. Incorrect axioms are not true but things can be proven with them such as if rocks are humans and humans are animals then we prove rocks are animals. Things that are true but not provable relate to Godel’s Theorem. Indigo Violet also implies things that are not measurable, not definable, not geometrically definable like transcendental numbers and so on. If Yellow is about statements that are false then Red Orange is about statements that are not false. For example Yellow asserts that the statement rocks are humans is false, Red Orange says that not-rocks are humans is not-false but we don’t know if it is true because this is outside the list of what is false, and this list is also not denumerable.

In Orange other contradictions can be reconciled, such as that some things are not-true and not-false, irrational numbers are not-odd and not-even so the two kinds of irrationality are combined into the definition of not-rational, and zero is not-positive and not-negative. For example the real numbers are odd and not-odd, even and not-even. The integers are odd and even and the idea of a number being not-odd is explained by their being even numbers. When a number is not-odd and also not-even then even numbers cannot explain this and so the number is irrational but can be explained as being Orange just as in mathematics irrational numbers can be used though not definable in integers except through an infinite sum for example. In addition and subtraction there are positive and negative numbers but there are also not-positive and not-negative, for example 5-4=1 can be seen as positive 5 and not-positive 4 and like a conflict this is resolved to equal 1. In a war there might be a battle where 5 soldiers fight with 5 and 1 is left alive. This equation can also be -5+4=-1, here -5 is not-positive and 4 is positive and this equals not-positive 1. The result is the same as standard mathematics but it provides a definition for zero that prevented some earlier mathematical systems from developing because they could not explain the concept of zero as nothing466F[[463]](#endnote-463), in Aperiomics it is not positive and not negative as a definition so it is defined sufficiently by what it is not. Paradoxes can also be defined in this way; the heap paradox says that a heap of sand can never be formed because a single grain of sand can never be the difference between a heap and not a heap. However if there is a concept of a not-heap and the concept of a not-sand grain then in between is the Orange not-sand grain and not-heap which connects the two.

In the Cretan paradox this is resolved by the concepts of not-lying and not-truthful. The Cretan says all Cretans are liars and he is a Cretan. Instead of this the Cretan can say all Cretans are not-truthful so now because he is a Cretan he is not-truthful and because he told us he was a Cretan he is not-lying, he is then Orange not-truthful and not-lying. Zeno’s paradoxes are also resolvable this way which leads to the concept of fluxions discovered by Newton. A point an a line present a paradox because a line is supposed to consist of an infinite number of points but each point is of zero width, but if this is true then an infinite number of zero width points side by side would still be of zero width and not be a line. However if there is a concept called not-line and another called not-point then the paradox is resolved. A point is a not-line, and a line is a not-point, but there is also something which is not-point and not-line which is between the two. In mathematics this could be written with the concept of limit, the limit of a line is a point and the limit of a point is a line, and in between there is the limit of a line and point, the not-line and not-point.

These can be paradoxes but it is also where a judge sits while both sides try to win in a court case, for example a judge might try to rule on Zeno’s paradox. Orange Yellow might say things in a case that are not true, trying to skirt the border of perjury while still manipulating the facts. Red Orange says things that are not false but are not the whole truth; the judge then tries to find a balance between these manipulations for a verdict. For example the Orange Yellow lawyer smears the other side with sophistry which cast doubt on the truth by making accusations that are not true, then withdrawing them if there is an objection but planting the seed of doubt in the minds of a jury. The Red defendant might be accused of stealing property and is accused in court of being poor, being in the area at the time, having a grudge against the property owner, things that are not true but not provable in a case with circumstantial evidence. This makes the Red defendant seem not-innocent and his lawyer tries to get a verdict of not-guilty, the judge may see him as not-guilty and not-innocent and then try to find a middle ground between these two concepts for his verdict. The Red Orange lawyer accuses the Yellow property owner of things that are not false such as he sometimes loses his money by dropping it on the street, that Red might have found it there; he sometimes throws out valuable property in the trash by mistake and so on. The true and false aspects of the case have been cast in doubt by statements not-true and not-false, making the case not provable so the judge might give the benefit of the doubt to one side or the other, or make a verdict in the middle somewhere.

The logic of many issues in society implies we should not sit on the fence but be for or against murder, rape, starvation of poor people, abortion, atheism, flag burning, and so on yet the Orange police and courts try to find what is known in Taoism as the Middle Way467F[[464]](#endnote-464). In war the difference between a civilian and a soldier is blurred and there is a weaker presence of Orange police and the courts to parse what is crime and what is an act of war. In Aperiomics some terrorists and fighters such as the Viet Cong can be not-soldiers and not-civilians. They tend to all be seen as Red Orange enemy Combatants since instead of seeing a mix of soldiers and civilians then trying to separate them, Yellow armies see them as a team and target them both, like what happened at My Lai. The Geneva Convention also has trouble defining terrorists because they are not-soldiers but also not-civilians, which is why America defined them as Enemy Combatants.

Orange police recognize Enemy Combatants, i.e. not-soldier and not-civilian as a target under some circumstances in war but can still prosecute Yellow soldiers killing Red civilians as murder, and killing Red Orange soldiers is regarded as murder if they were surrendering. Rape can be viewed in a similar way, a woman can be viewed as saying yes to sex, or if they say no it is rape. Grey areas are such as where she at first agrees then changes her mind while intoxicated or in the middle of sex itself. So this can be not-permission for sex because she may have been too drunk to give consent but also not-refusal because sex was begun with consent. Orange police can then sit on the fence as to whether not-refusal and not-permission is rape; a lesser penalty such as a fine or pleading guilty for a lesser offence is sometimes the solution. Such a solution is illogical under excluded middle logic because the man was either guilty and deserved a long jail sentence or innocent and should have been set free. Instead he was not-guilty and not-innocent and received a percentage of the maximum sentence.

Quantum logic fits into color logic this way, like Schrodinger’s Cat468F[[465]](#endnote-465) which was not-alive and not-dead while inside the box. Light can be not-waves and not-particles but a combination of both, a neutron can be not-positive and not-negative. The concepts of Aperiomics here can then be not just a grammatical or mathematical device to explain paradoxes and social issues but part of the fabric of reality itself. Quantum logic can be explained in this way by saying for example that there is a not-electron which is a proton, and a not- proton which is an electron, but a not-proton and not-electron has an actual existence as a neutron.

There can be an indeterminate aspect to issues in Aperiomics similar to the Heisenberg Uncertainty Principle because observing some colors tends to change their behavior, Red versus Orange Yellow and Blue versus Indigo Violet are secretive and deceptive by nature so trying to observe them is difficult as they will try to hide and be deceptive. Police then have the problem like in poker where the players can lie for advantage and like poker there is a limit on what is really known, if a player realizes the others are guessing his hand then he will bluff in a different way to make them uncertain again. This is resolved into Yellow versus Red Orange when the hands are shown at the end and the uncertainty dissolves into randomness in these colors. While the cards are hidden the process of bluffing is chaotic because each player must calculate in a cause and effect way what the others are doing, at the end it is random because there is nothing more to see than the relative probabilities of each hand. For example if poker was played so that each player’s hand was all face up then each round would be decided on the basis of probability, if each hand was played so that no cards where shown and not shown at the end then this would be a completely secretive and deceptive game of chaos. The collapse of a particle state in a probability wave in quantum logic then is like these cards, we can see in particles the negative Yellow and not-negative Red Orange, seen as the proton, interactions which is statistical in quantum mechanics. There is a limit to this we call the Heisenberg Uncertainty Principle because we cannot observe the Red positive proton versus the Orange Yellow not-positive, which we call the electron, interaction.

When there is an issue such as the poor needing to be helped the argument is again like quantum logic, whether a Red person is poor or not is indeterminate sometimes because they need to be secretive and deceptive to survive and might lie to get more money. The uncertainty here is like the Heisenberg Uncertainty Principle where the act of investigating them tends to make them act differently. While it may be possible to observe them without disturbing them one can never be sure for example if they saw a hidden camera or not. Often these issues are solved using a combination of statistical methods and detective work to expose deception, large groups of people are used to test different ways of dealing with poverty in pilot studies. The large numbers tend to even out bias in the data and the most successful test can then be extended to larger numbers such as the population of a country to regulate the welfare system. Often then as in quantum mechanics the best measurements are done without trying to deal with individuals because as in the Heisenberg Uncertainty Principle dealing with people changes their nature, i.e. they act differently in interviews and detective reports may contain many accounts of deception not only by the Red welfare recipient but also by the Orange Yellow detective such as their making up welfare afraid to get a bonus, claiming they used surveillance when they didn’t even try, having a grudge against someone and accusing them of fraud, making false reports to achieve a quota of fraud found, etc . Measuring responses in large numbers can avoid this because the different responses tend to average out but this is at the expense of accuracy because averaging out lies makes everyone seem dishonest, also the average of many secretive and deceptive activities can be wrong. For example in Vietnam Robert McNamara tried to run the war like he did running Ford using statistics. However the results usually turned out to be wrong because Orange Yellow soldiers deceptively claimed civilian deaths as enemy killed, because Red soldiers surviving would look bad they claimed more were killed so the statistics gave a false and deceptive average of inflated enemy killed and lower totals of enemy troops, this led to a chaotic collapse as tipping points from the deception made bad plans lead to disaster. The same appears to be happening in Afghanistan with inflated enemy kills according to documents on Wikileaks469F[[466]](#endnote-466), this deception is being exposed there in a similar way to in the Pentagon Papers, however this exposure can be counterproductive because a Yellow versus Red Orange hot war is fought differently from a Red versus Orange Yellow cold war the documents are describing where both sides typically lie and deceive.

An Orange Yellow detective who works on a crime may have several suspects, this can be in the investigation of welfare fraud for statistical analysis, it can be Orange Yellow soldiers trying to find Red terrorists, and Orange Yellow police tracking down Red addicts and other criminals, each is chaotic because both sides need to be secretive and deceptive to succeed so the report on this will be a balance of deceptions so that both sides will seem untrustworthy. Neither side can afford to act randomly because this gives a chance of being discovered, for example a Red criminal needs to carefully remove all evidence from a crime scene and an Orange Yellow detective needs to not miss any evidence left behind. This is best done by cause and effect and one mistake can be disastrous for both sides. A Red Orange or Yellow gang however can leave more to chance because they have strength as a team and it is impossible to think of every cause and effect because each person in the team is acting independently. Instead they rely on chance to have the odds in their favor, if one person of the team is caught stealing for example then they don’t turn in the others, and the team tries to help them and support their family if they go to prison. In the same way a Yellow army supports its members like a team with wages, medical insurance if needed and many refuse to leave a soldier behind acting as a deterrent to capturing one.

The Orange Yellow detective views the Red suspects as not-innocent in that they haven’t been cleared of wrongdoing, and examines their alibis in a criminal case. He looks for ways to break their alibis, to refute for example their claims of being friendly to the victim. He might find for example that a suspect could have committed the crimes and did have motives, so they are seen as not-cleared or not-innocent. So the Orange police in being neutral might approach suspects as not-innocent and ones that appear to have done the crime as not-guilty, this is the Orange balance that is seen to be fair to both sides and allows the Orange police and the courts to operate.

Independent voters in Roy also often don’t care about a particular issue or are undecided, so they sit on the Orange fence. They can be a large or even swing vote in politics, and they are not-left wing and not-right wing. The center-left position is Red Orange, and center-right is Orange Yellow. One example of this situation was in Germany prior to World War Two, the Red Communists and the Yellow Nazis had seats in the Reichstag470F[[467]](#endnote-467), and the German National People’s Party was more neutral Orange. Yellow Nazis attacked the Red communists by starting the Reichstag fire and blaming it on the Communists or took advantage of it the center party came over to the Nazi side. Because there was no neutral policing between the two factions, like the defunct League of Nations war eventually broke out.

In Biv civil laws can be analyzed with color logic, using I will for Blue, I cannot for Blue Indigo, I cannot and I will not for Indigo, I will not for Indigo Violet and I can for Violet. These also represent typical attitudes in Biv, for example Blue workers use persistence and willpower to survive, much like Red people use positive thinking. The Prisoner’s Dilemma is different here because instead of a negative sum game where the lesser of two evils is selected, it is a positive sum game where the greater of two goods is chosen. Here Indigo is selected as the neutral party like Orange was earlier as the police. They offer a deal in the Indigo marketplace to two Blue people, whoever buys a car first gets it for ten thousand dollars and the second person has to pay twelve, this is like a sale in a department store where those who come early get the bargain and creates a competitive atmosphere. If neither accepts the deal then both can buy the car for nine thousand, this would be like the sale failing and people buy later at a discount. This is then a typical buying situation that happens in markets.

Blue tends to be competitive, solitary and deceptive so it’s likely one will buy the car for ten thousand rather than running the risk of paying twenty thousand or waiting for a sale later when they may be out of stock. Adjusting the prices will determine how likely the Blue people are to compete with each other rather than cooperate as Blue Indigo. The decision is how to get the greater good of a cheap car which benefits both the car yard and the buyer, Indigo Violet car salesmen often use this tactic saying someone else is interested in the car and a replacement one will be more expensive. In this example the other buyer might be on the car lot and hear the same story, two salesmen could be working on the buyers to hurry. This is also similar to an auction where Blue people are pitted against each other, knowing if they miss out on the item they are bidding on the next auction item might be more expensive.

This is the nature of Indigo Violet versus Blue negotiations, but Blue can play the same game. He might say to the salesman he needs to buy two identical cars for his daughters and can get the car cheaper elsewhere, and to recreate the Prisoner’s Dilemma two salesmen from different car yards know each other, the two yards might be side by side so they can both see the same customer looking at the cars. If both salesmen hold their price then the buyer might have to pay a higher price and might buy a car from each. If they are competitive against each other then they come down in price so one dealer is the lowest, or they might both come down to the same lower price if they both paid about the same for the cars. Because the dealers are secretive and deceptive they might approach the buyer separately offering a secret deal, then the buyer can play them off against each other for the best price.

With two Blue buyers versus two Indigo Violet car dealers all compete against each other, say for example there are two cars available and one is slightly better than the other. The two Blue buyers will compete against each other for the better car rather than cooperate for a better price to buy two cars from the one Indigo Violet dealer. Also the two Indigo Violet dealers will compete against each other to sell cars to both buyers so the losing dealer will sell no cars. Because each competes against the other three then the price of the cars will probably be fair to all, this often happens in the Indigo Violet versus Blue market where both sides are secretive and deceptive, both are highly competitive and this lowers profits for both the buyer and the seller. A Blue worker might make lower wages here but Indigo Violet shops will make lower profits so the Blue worker can afford more. This competition may have ended stagflation in the 1970s because Violet versus Blue Indigo teams can cause a stagnant economy with a wage price spiral as they demand higher wages and prices, using strikes and monopolistic price fixing to get a better deal. Since then unions have been weakened while businesses are forced to be more competitive.

Blue Indigo buyers then form a cooperative or union by team selection, the people who are prepared to cooperate with each other join the Blue Indigo team or remain in Blue in competition with each other. If they are placed in the same situation as Blue against two Indigo Violet car yards the two Blue Indigo buyers would not compete with each other and would always pay nine thousand each or less for a car. The Indigo Violet dealers will make more profit if they can split the Blue Indigo team otherwise they will compete against each other and give the Blue Indigo team the lowest price. This is how trade unions increase their wages in the Biv economy; they can bankrupt an individual Indigo Violet business because these businesses do not cooperate with each other or cannot because of government laws promoting competition. The unions could extort higher wages from each by dividing and conquering, this could lead to wage inflation and stagnation if the unions can also avoid working hard or workers being fired if they are incompetent. Blue Indigo stand I cannot which means that do not have the I will or persistence of Blue workers and form a team to compensate for some of the their individual incompetence.

If the car dealers cooperate with each other then they form a Violet team, for example Ford dealerships might cooperate more with each other on price than two unrelated used car dealers. Against two Blue buyers they can maximize their profits because Blue buyers will compete with each other and try to buy the better car first, while Violet will not try to compete with each other and bring the price down to make a sale. This is like an economy where businesses collude with each other but trade unions have been weakened, the businesses use a divide and conquer strategy to make individual workers compete against each other to receive lower wages and work longer hours, to be fired arbitrarily with little or no severance pay, to receive perhaps no pension or medical benefits and to work harder chaotically until there are catastrophes such as mine collapses and industrial accidents.

If the Blue Indigo team comes up against the Violet team then neither team will split and so the price will be tend to be fairer for both sides but this can be like a hot war where each side tries to outlast the others in a war of attrition by hard bargaining hoping the other side will divide and be conquered. In team based negotiations the aim is to choose the greater good for both sides rather than the lesser of two evils for both but there is no room for deception or bluffing as between Blue versus Indigo Violet. With two Blue buyers the Indigo Violet dealers could bluff, saying to one that the other buying about to make an offer because they are separate from each other and don’t share information as a team. The Blue buyer could also play the two Indigo Violet dealers against each other, deceptively telling one he will pick whichever price is lowest in one hour, or telling one dealer the other has come down in price more than he really did. Teams however cannot bluff or deceive each other because members of the Violet team for example would check with each other if Blue Indigo claimed one was offering a lower price. They are also probabilistic in nature since normally no breakthrough can occur by a tipping point of a team falling apart, one member of a team might be peeled off and sold a car but then he would be ostracized from the team later and would probably lose money overall. Instead the prices will be based on the numbers of people on both team, the money and products the two sides have, how much they want to do a deal and how long they can wait in this war of attrition. Variables like these will tend to fall on a normal curve while negotiations between Blue and Indigo Violet will fall on a logarithmic or fractal curve. Violet versus Blue and Blue Indigo versus Indigo Violet will be a combination of randomness and chaos. For example a trade union might make a special deal with several Violet car yards for good prices for their members. The two sides might get a similar deal to Indigo Violet versus Blue. They decided to cooperate with the members of their color code so altruism paid off for them.

The strength of a Blue Indigo or Violet team is in their cohesiveness, if this breaks then causes some random fluctuations for the team’s members as the former team member is ostracized and perhaps new team members are chosen but it will usually not create a tipping point just as casualties in a Yellow or Red Orange army will not make a short term difference if there are sufficient reserves and materiel. For example if the Blue Indigo team fell apart when negotiating when Violet succeeded in driving a wedge between the members by offering one car much cheaper, then overall the members will pay much more because Violet will then persist in the divide and conquer strategy for longer, the Blue Indigo members would be better off subsidizing the more vulnerable members from buying the car, this is like Red Orange buffaloes protecting each other when attacked but also protecting those more vulnerable so as not to break apart the herd. If the Violet team divided first then the Blue Indigo team would think that divide and conquer had a good chance to work and prolong the negotiations, so the Violet dealers would be better off vetting weak dealers beforehand and not letting them into the deal if they are too Indigo Violet, or give them some more of the profit to keep them cooperating.

If the Blue buyers decided to form a team of Blue Indigo against the two Indigo Violet dealers then they would have a higher probability of getting cheap cars, and this would be a catastrophe, if too many Blue buyers did this then it might lead to a tipping point where the dealers went bankrupt because profit margins would be lower but they are also highly leveraged with fixed expenses. Statistically the now Blue Indigo team would do better in their shopping for other car accessories and it would be a continued catastrophe for other Indigo Violet shops such as for car insurance, car mechanics and car cleaners. When this happens more widely in the Biv economy this is a catastrophe for Indigo Violet companies who would cut each other’s throat, such as against Blue Indigo trade unions who can demand higher wages or drive individual businesses into bankruptcy by black banning them No one would be allowed to work for them and no unionist would shop there. This was like Britain for much of the twentieth century, workers did well by following Karl Marx’s dictum of workers uniting while companies where made to compete with each other, leading to tipping points and catastrophes for some businesses. They often could not sack workers for poor performance or because there was insufficient work, also the union could demand higher wages or sometimes bribes from the company for the union management. If the Indigo Violet dealers decided to form a Violet team against Blue buyers then this would be a catastrophe for Blue and lead to tipping points for them because their wages would be static but cars would become more expensive, Violet however would average out its deals statistically by not accepting some lower offers because they knew Blue would have to buy a car at the high price. This is like the situation described by Marx in the British Industrial Revolution where workers made little money and were often hurt in industrial accidents while Violet capitalists formed monopolies and grew rich. This was partially resolved by Blue Indigo trade unions forming which demanded higher wages and workplace safety.

Biv can also form logical statements with syllogisms similar to those explained in Roy.

Major premise: All animals are mortal.

Minor premise: All humans are animals.

Conclusion: All humans are mortal.

Instead there is in Blue:

Major premise: All animals will die.

Minor premise: All humans will be animals.

Conclusion: All humans will die.

And in Violet:

Major premise: All animals can die.

Minor premise: All humans can be animals.

Conclusion: All humans can die.

In Violet this is a statistical syllogism471F[[468]](#endnote-468) because it leaves open the possibility some animals may not die, for example they might be frozen cryogenically for revival if they get sick and in the future immortality might be possible or they could be cloned indefinitely like some cattle. Also all humans can be animals depending for example on whether the theory of evolution is regarded as proven or not by Violet religious fundamentalists, and so if humans are included in this definition then they can die. Red Orange versus Yellow and Blue Indigo versus Violet deal in possibilities and probabilities which are uncertain, Red versus Orange Yellow and Blue versus Indigo Violet deal in cause and effect relationships which are certain. The Uncertainty Principle in Aperiomics means that some color code interactions are uncertain because of the statistical nature of teams and this is called team selection. Others are certain because they are between individuals in personal selection and their interactions are chaotic.

For example in Blue that all animals will die is not statistical but a statement of fact right or wrong, this is like all animals are mortal except it refers to an action or event of death rather than a static concept of mortality. One could have a first group of animals that will die that this applies to, a second group might be immortal such as the aforementioned cloned cattle. This can happen in Red as well, animals that are mortal imply a group of animals that might be immortal with improved technology.

In Blue Indigo this becomes:

Major premise: All animals cannot live forever.

Minor premise: All rocks cannot be animals.

Conclusion: All rocks cannot die.

So this is a statistical syllogism like Violet and argues against it, Violet might say something can happen while Blue Indigo argues it cannot, this might happen in a debate for example between debating teams. Instead of saying something is Violet possible or probable it says something is impossible or improbable, rocks might be able to die in a different way to animals though this seems improbable based on the information. If a rock was really coral or stromatolites472F[[469]](#endnote-469) then it is not animals but coral can die for example. The definitions of animals and rocks can be uncertain, and animal might also seem to die but be in a state of suspended animation such as with a tardigrade473F[[470]](#endnote-470).

This is different from Blue willpower where negotiations are defined by that Blue will compete with each other and so one buyer will seek a better deal at the expense of others. In Blue Indigo they cannot compete with each other just as they cannot successfully compete as individuals in the marketplace, for example they may have signed an agreement so that they cannot buy a car unless the other members of the team agree.

Indigo Violet is defined by I will not which makes them adversarial to Blue, for example in an argument Blue and Indigo Violet argue over whether something will or will not happen, this is different from Blue Indigo and Violet arguing over whether something can or cannot happen. When Violet argues with Blue they talk at cross purposes to some degree, Violet might say something can happen while Blue says it will happen so one says a situation is probabilistic and the other says it is deterministic. This also occurs between Indigo Violet and Blue Indigo in the Indigo market where Indigo Violet says something will not happen and Blue Indigo says something cannot happen, just as in Orange this is resolved by Indigo neutrality between the deterministic statement of Indigo Violet and the probabilistic statement of Blue Indigo. In Indigo the statement I cannot and I will not is logically consistent, because if something cannot happen it will not happen and if something will not happen it cannot then happen. Probability and determinism are reconciled in the Indigo market where Blue Indigo cooperatives cannot deal some deals because of their team agreements, Indigo Violet has some deals it will not do because it cannot afford to do so or there is insufficient profit. In the Indigo market they confront each other and the market being neutral finds a middle ground between these positions that allows a deal to be done just as the Orange judge finds a middle ground with a verdict Red Orange as not-negative and Orange Yellow and not-positive can accept. The difference between the Violet versus Blue and Blue Indigo versus Violet is that Violet I can and Blue I will are contradictory to some degree, just because something can be done by Violet doesn’t mean they will do it and with Blue just because they are determined to do something doesn’t mean they can do it. The paradox between determinism and probability is resolved between Blue Indigo and Indigo Violet by compromise however which is why markets work to coordinate business deals.

Blue Indigo might be a cooperative bringing produce to market and the people or farms in the cooperative are bound by contract to not negotiate separately in the Indigo market. Indigo Violet might have instructions as Violet agents on what they will not do such as go below a certain price or sell more than Violet has given them permission to sell. This is like a power of attorney where Indigo Violet is free within certain limits but agrees he will not do some things, for example someone with a power of attorney agrees to certain restrictions on their powers. Each side then tests the other in the Indigo market and they arrives at an optimum price between what is possible and what is definite, the agent gets more or the same as his bottom price or no sale, and Blue Indigo gets their best price against this because its members cannot negotiate separately. It is the greater good for both sides, Indigo Violet makes at least a profit to prevent another agent making the deal and Blue Indigo avoids paying too much by resisting the divide and conquer strategy. Sometimes deals can go to one side or the other but average out over time, just as an Orange judge might tend to favor one side or the other but over time his verdicts should even out as a statistical average and a deterministic reasoned verdict. For example Blue Indigo might face a shortage of Indigo Violet buyers for their goods because they will not buy at the current prices, because they are stochastic in their team nature they can afford to sometimes make a loss to move stock and make this up later when stock is scarce. This might be seasonal where Blue Indigo has a glut of wheat sometimes and needs to sell at a loss but makes this up by selling during winter. At other times Indigo Violet might give ground, he has instructions on what he will not accept but if Blue Indigo stands firm he may go back to his Violet clients and ask them to give him more latitude to make a deal, he then tries to do a better deal for them later to compensate for this so they average out their profits stochastically as the result of the agent’s chaotic negotiations.

Indigo Violet can be policed in Biv society according to what they can and will not do, the I can part of their authority gives them freedom to act and the I will not part creates boundaries to these actions. These are promises which can be enforceable by contract law such as powers of attorney, contracts to act as an agent to sell a house, an employment agreement to be a salesman, etc. The Republicans had a similar idea at one time of a Contract with America474F[[471]](#endnote-471), which is like a social contract that laid out what they would not do but left them a considerable amount of freedom otherwise. Blue workers have some freedom to act as well, they apply their willpower competitively to succeed and can make deals with Indigo Violet agents with a negotiation between what will and will not happen, this can then be drawn up as a contract where both sides must perform certain actions. Blue can be restricted to some degree by its association with Blue Indigo cooperatives, they might have the will to sign a contract but they cannot because they have obligations to the cooperative to sell in the Indigo market. So Blue Indigo restricts what Blue can do and Violet defines what the Indigo Violet agents will not do, this prevents Blue versus Indigo Violet from taking over the whole market. In the same way Violet might negotiate directly with Blue Indigo over what they can do, and what Blue Indigo cannot do. Violet is restricted on what they can do because they have given an agency to Indigo Violet so this stops them cutting their agents out of a deal. Blue Indigo has agreed on what they cannot do because of their arrangement with Blue workers and what they will do themselves. If the market is weakened like in Roy where Orange is weakened then the compromise deals in Indigo are also weakened and business becomes a hot negotiation like a hot war between Violet and Blue Indigo over what they can and cannot do, and a cold negotiation like a cold war between Indigo Violet and Blue over what they will and won’t do. In this situation the market loses coordination because Violet starts to ignore their agents and Blue ignores their cooperative or union, both sides then tend to do deals that are unstable. For example if Violet makes larger deals with Blue Indigo cooperatives then smaller more competitive deals that Indigo Violet could have made are not done. If Indigo Violet controls their Violet clients too much then they try and bypass Blue Indigo to deal with Blue directly rather than compromise, this reduces the stability of the market because Blue workers cannot afford to take a loss sometimes and make it up later or store stock for lean times.

Options in the Indigo stock market evolved as an alternative to deterministic deals where both sides are compelled to fulfill a contract. Instead on side gives an option that others can take up or not, this gives a statistical nature to these transactions. If someone has given an option they cannot at the same time sell the goods they gave an option on but a buyer of the options may not exercise it so this is also statistical because there is no certainty an option will be used or not.

For example a Blue Indigo team or trade union says as a negotiating tactic they want to make a bulk deal for cars for its members, and shop around for the best deal at several car yards. They want an option to buy cars at a set price for particular models and in return will pay a lump sum non-refundable deposit, this agreement does not compel each Blue Indigo member of the team to buy a car or else it would be a Blue set of contracts between individuals, instead all the members might buy a car in which case the paid deposit might mean the yard does poorly out of the deal or no members might buy a car in which case the yard makes a profit by keeping the deposit for free. In consideration of making this deal the union would pay the non-refundable deposit, which makes it uneconomical to some degree for its members to go elsewhere for a car because they would lose their share of the deposit paid to the car yard. They might also agree that the Blue Indigo members cannot buy a new car from anyone but the winning car yard. Competition from other car yards is thus excluded; the members either buy that new car, a second hand car or wait until the negotiated option expires. This option would be completely statistical, many members might take up this option to buy a car and both parties to the option would have calculated the probable number of cars bought compared to the nonrefundable deposit given for an uncertain estimate of profit or loss on the deal.

This is like Blue Indigo nations in an oil cartel selling oil in the futures market at a set price in the future in exchange for a nonrefundable deposit, the option is completely statistical because neither side knows whether it will be worth exercising all or part of the option when it expires because neither side knows what the price of oil will be then. With the car yard option analogy if another car model was known to be much cheaper after the option expired then some members might wait longer for a new car because they would save money by doing so. If they found out that all car prices were going up because of new antipollution regulations then most might take up the option to buy a new car during the option, the future is uncertain and so options dealing with the future are also statistical by nature.

Often when speculators buy and sell options, real estate, stocks and commodities they bet on this random future to favor them. When Indigo Violet and Blue Indigo sell to each other in the Indigo market they gamble that they will be lucky with price rises from random events affecting Blue Indigo like discovering new oil fields may drop the price of OPEC oil and a new well being drilled will publish its results during the time of the oil futures purchased. They can also approach the market in a deterministic Indigo Violet way where companies are analyzed in ways that minimize random variations, Blue chip stocks might be known to grow in a deterministic way and represent less random risk. Shares like this might be bought with options but generally this is complete the option when it expires and also to use this for leverage. For example if shares can be bought on option with a ten per cent deposit then they can potentially make ten times more profit if they are sure the share will rise in a deterministic way and not randomly make them lose their option deposit. In the same way shares can be shorted for two reason, it might be a statistical estimate that the price of shares will drop or someone might have deterministic information that something will definitely hurt a company’s share price in the near future. In the Indigo market this statistical speculation and deterministic analysis vie with each other and when the market is strong this dominates other deals such as Violet dealing directly with Blue Indigo and Indigo Violet dealing directly with Blue. In this strong market Violet and Blue can become dissatisfied because Violet starts to distrust its agents and Blue distrust its cooperative because both are making too many of the profits and shortchanging their clients. As Violet deals more with Blue the market weakens and can become too weak leaving it uncoordinated, so not only does the market like Orange move between the left and the right for a compromise it also waxes and wanes in strength to make the most efficient deals.

An Orange police state creates friction between it and Red and Yellow if it becomes too strong and if it becomes too weak then Yellow can attack Red too much, damage the stability of the Roy color codes and cause trouble for itself later, an Indigo market state causes friction between it and Violet and Blue and if Indigo becomes too weak the same over extending can hurt Violet later. For example Violet companies are powerful as a team and can sometimes do good deals with Blue such as Violet large multinationals working together to impoverish small Blue countries that compete against each other; this is one of the main criticisms against capitalism in the developing world. If the Blue countries try and fight against the Violet companies they can be boycotted and be unable to sell their produce at all, this can be associated with gunboat diplomacy475F[[472]](#endnote-472) where the Yellow military helps the Violet companies by treating the small countries as Red victims and potentially communist or harboring Red terrorists. Usually this situation is resolved by the strength of the Indigo market because the Blue countries can find a ready buyer for their produce and minerals there at a fair price, Violet may want to avoid this however if its Indigo Violet agents take most of the profits so it may try to go around them. One example of this may have been the invasion of Iraq where Violet oil companies plotted to some degree to divide and conquer by using the Yellow influence of the coalition’s military power to get lucrative oil contracts. There are other reasons for the war but this is one of the accusations levied against the oil companies and Halliburton. The Indigo market in this case was too strong and other oil companies were able to compete with their Indigo Violet agents to give the Iraqis a better deal, also selling oil in the futures market and aligning itself with OPEC gave it better prices.

The Indigo market is like the trunk of a tree that is supposed to coordinate the rise and fall of nutrients between the roots and the branches, it acts like a market because transactions of these nutrients usually occur with a double in for both sides and the roots for example need to get some nutrients from the leaves in exchange for sending up water and minerals to them. When the trunk of the tree dominates it can hold these nutrients to the detriment of other parts, this can be like a Baobab tree in shape where there can be so much storage of nutrients at the expense of growing larger branches and roots as well as more leaves. This may suit some climates but in others a tree like this could not grow as fast as others that don’t store so many nutrients. This is also like the Biv economy where Indigo markets contain so much wealth that this holds back the economy from productive expansion. For example houses built for speculators may drive up prices because there are so many, this wealth is a find of stored houses perhaps rented to try and coordinate with future buyers. It can also be a waste compared to building houses consumers want rather than the type investors like. An economy should ideally coordinate house buyers to house sellers, investment properties can be like options where investors put deposits on apartments before they are built and then try and make a profit reselling them before they are completed and they have to pay the full purchase price. Other investors may buy many houses to rent out and create a shortage which drives up house prices causing a bubble. This was seen in the Great Recession where even after the collapse there was plenty of money available for speculation in the market but this was not being loaned to small businesses or people wanting to refinance their housing loans.

Indigo speculations might bid up the price of commodities or short sell them, sometimes they can buy up the future supplies of a commodity to corner the market to sell at a profit later, or this might raise prices on the futures market in the short term and allow them to buy options to take their profit in this way. This can affect the legitimate market because consumers may not be able to buy oil cheaply and higher food prices might lead to riots, this was caused by speculators during the Great Recession where those looking for an investment to offset their losses bid up oil futures to astronomical levels, they also bid up food prices but these also collapsed when they took their profits and left those markets. The Orange police state waxes and wanes as does Indigo market speculation, eventually Blue workers object to the price fixing in the Indigo market and try to bypass these speculators by direct deals with Indigo Violet agents. Violet business also suffers from this such as in oil speculation and might make long term deals with Blue Indigo cartels in such as oil, diamonds and coffee to avoid being held ransom to this speculation by bubble creation.

This leads to a waning of the Indigo investor like the weakening of Orange police. If they become too weak this starts the Biv equivalent of a Roy crime wave where business becomes uncoordinated and the Blue versus Indigo Violet and the Blue Indigo versus Violet deals become out of synch with each other. In the Indigo stock market quants look for these kinds of discrepancies to take advantage of, they might see oil sales of Blue producers outside OPEC to Indigo Violet agents might be a different price to Blue Indigo OPEC sales to Violet large buyers such as airlines. Normally Indigo speculators would balance these two markets, if the Blue oil was cheaper they would buy it, and resell to the Violet customer by acting as a Blue Indigo source like OPEC. If the Blue oil was more expensive then they might buy from Blue Indigo OPEC and sell to Indigo Violet agents. This is like the efficient market hypothesis where it is assumed that the market will see these opportunities and take all past, present and future information into account, but at times the market wanes in strength and these discrepancies cannot be taken advantage of and at other times it becomes too strong and speculation on this information is done at the expense of normal Biv business.

Blue versus Indigo Violet deals are not easily synchronized by the Indigo market because both sides are secretive and deceptive, information can only be assessed by the market if it is not hidden. Blue Indigo versus Violet deals are also not easily assessed by the market because they are so large and random as they are often done with options and rely on future information no one can be sure about. Large Violet oil companies and Blue Indigo OPEC might do deals and explore for new oil in ways that are very long term in nature and have plenty of capital to guard against random price fluctuation, for example the oil shale projects in Canada might be profitable or not depending on how the price of oil moves. Many of these deals will then go ahead or not regardless of fluctuations in the Indigo market so the market has to assess secretive and deceptive deterministic deals between Blue and Indigo Violet and open but random deals between Blue Indigo and Violet. To reconcile these interactions and make them more efficient it makes compromise deals between the Blue Indigo OPEC and the secretive Indigo Violet agents. One of the reasons an oil bubble formed in the Great Recession was Saudi Arabia and some other OPEC oil countries only sold their oil on the futures market so the prices became very random and vulnerable to large scale trading strategies. This caused the price of oil to become disconnected to its real value while smaller Indigo Violet agents were unable to bid for oil at a reasonable price from Blue Indigo. Instead they would have bought more from Blue countries such as Russia who feared a market disruption from this speculation, also much of the oil being bought in the futures market was not being delivered because the options were not exercised so there were tankers full of oil in the Persian Gulf and shortages of oil in the United States. When this Blue oil flowed to Indigo Violet agents in sufficient quantities to fill this shortage the oil bubble collapsed because the random price changes and unfulfilled options were seen to be uncoordinated and expensive compared to the Blue oil which needed to be sold by those countries so they could not afford to have oil sitting in tankers for speculation. Then the Indigo market started operating again as Blue Indigo OPEC realized it was losing its markets by oil sitting in tankers while American consumers started talking about switching to electric cars, also this speculation was damaging the world economy and reducing the long term demand for oil. OPEC then did more deals with legitimate Indigo Violet agents at a lower price than the futures market offered and so those prices came down.

Indigo thus has little influence when being bypassed, it is like the Orange police being powerless to intervene in Red Orange versus Violet attacks and vigilantism and Red versus Orange Yellow secretive attacks against each other. Unless Orange has contacts in Orange Yellow it doesn’t know what crimes they are doing but it must be lenient with them to get this information and if it has no contacts with Red Orange gangs and neighborhood watch it doesn’t know what attacks they are fending off so it must be lenient with them also. When the police are ignored then they cannot neutralize conflicts and when the Indigo market is ignored as in the oil bubble it cannot coordinate real supply and demand and a bubble can distort the prices of goods and services.

In the same way if Indigo investors have no contacts with Blue Indigo cartels and Indigo Violet agents they don’t know what the market is doing and there can be bubbles and other symptoms of bad pricing of assets. For example in real estate Indigo Violet agents might be deceiving Blue home buyers that prices will rise as a standard sales spiel to sell no document housing loans, this leads to both sides being secretive and deceptive with each other because Indigo Violet is misrepresenting the resetting of interest rates coming and Blue is misrepresenting their ability to repay the loans. This is hard for the Indigo market to understand because both sides are deceptive; when they look at the data and try to statistically analyze it then they are projecting lies as random variations when in fact they must reach a tipping point and collapse eventually. This is similar to the situation with the Orange Yellow detective trying to find a Red criminal, both use bluffs and deceptions in a cat and mouse game. When Orange Yellow soldiers in Vietnam used deception to fight Red Vietcong this was also impossible to analyze to see how the war was going. When the Indigo market tries to analyze deals between deceptive people they usually have inaccurate information which makes for wrong pricing and a bubble or boom then a bust when prices are again wrongly calculated. For example in the Great Recession some asset prices dropped for more than they should have, this was shown by the recovery in the stock market. This recovery was delayed by the deceptive nature of so many deals, banks could not be sure whether other banks were deceptive about the value of their assets and nonperforming loans and whether they were hiding other problems. Companies such as Lehman were found to be hiding losses off the books with Repo 105 transactions476F[[473]](#endnote-473).

When Violet and Blue Indigo also do separate deals these can also distort the Indigo market, this happened with the next stage of these deceptive loans where they were repackaged into subprime and other bonds. Violet banks would receive these loans from their deceptive Indigo Violet agents and put them together like a team so that if some loans failed the other would still be valuable. This is the mistake of trying to analyze a chaotic process prone to excessive growth and tipping points with statistical methods which assume that these dependent variables are independent. It was inevitable that these loans would collapse with tipping points like a house of cards because as loans were not repaid liquidity would dry up, and when loans were not available people could not buy homes at the previous growth rate and prices would drop leaving people with mortgages that were underwater or worth more than the homes they were secured against. Violet could not easily find all this out however because the Indigo Violet agents and Blue home buyers were so deceptive so they calculated that insurance based on random fluctuations would cover any losses, this led to the purchase of Credit Default Swaps and putting together many loans into one bond because a domino effect of one loan causing another to fail was considered unlikely.

At this point the secretive and deceptive chaotic data was viewed as open and honest statistical data. Insurers such as AIG used this deceptive information to calculate random fluctuations on these bonds and estimate a premium for the Credit Default Swaps, other Violet purchasers simply paid a discount on bonds more vulnerable to random downturns because they owned so many they were in effect insuring themselves against some of them not repaying the loans. These were then sold to Blue Indigo pensions funds who bought them in large quantities again acting as their own insurers, they also bought Credit Default Swaps assuming they would be covered if the bonds failed through a sufficiently abnormal market fluctuation. No one realized that the Credit Default Swaps were not solvent because AIG and others had no idea the deceptive data they had used to insured bonds would leave them bankrupt and unable to pay out on this insurance, which would in turn magnify the tipping points through the economy as all these deceptive transactions collapsed. Blue workers thought their pensions were safe though they were now backed by the same kinds of secrecy and deception they had used to get loans with, Indigo Violet agents thought they were doing well not realizing that the market was not a bubble supported by their own secrecy and deception, both were now highly leveraged and because so many had lied to each other there was no way to find reliable information about these tipping points.

When the collapse in Blue and Indigo Violet came they brought down and hurt many Blue Indigo and Violet institutions, for example Lehman and Bear Sterns found their assets were wrongly priced based on deception and many Blue Indigo pension funds were now unable to fully cover the pensions that Blue Indigo and Blue workers had paid into. This led to the strengthening of the Indigo market to rediscover the real prices of assets and also the Orange police to track down the criminals involved in the collapse. Later the Indigo market will wane in strength again leading to more asset bubbles and a boom, then there will be a bust or recession when underpriced assets hold back a recovery and the Indigo market will strengthen again to rediscover the real prices and restore coordination temporarily until the next waning and waxing of it. Mispriced assets leading to bubbles are the like crime waves in the Roy economy where the Orange police become too weak to prevent secretive Red versus Orange Yellow and open Red Orange versus Yellow criminals acting as predator and prey. When people realize the Orange police need to become stronger this situation is stabilized until they are weakened or ignored again leading to another crime cycle.

Part of the Indigo market is options and part is contracts because options are uncertain or random and contracts are certain and deterministic. For example an Indigo Violet agent relies on contracts to make a living such as with listing and selling real estate but when his Violet client lists a property for sale this is an option for someone to buy it at a certain price and because almost anyone with the money can buy it the contract is uncertain. He might see a house for a Blue Indigo seller who again gives an option to sell and he seeks to convert this uncertain option into a deterministic or chaotic contract. Looking at an agent’s sales records his income is derived from his ability to convert these random buyers and sellers into a deterministic chain of contracts which he then uses to enter in another deterministic chain of purchases for his business such as wages, rent, leases, etc. This is chaotic because it is all based on cause and effect, he cannot pay wages for example unless he sells enough houses. It is also prone to faster growth and collapse from high leverage, he has fixed expenses and needs to sell a certain number of houses to pay expenses and if he sells more than this his profits go up more quickly because the costs are mainly already paid for. This can also collapse because if he doesn’t sell enough houses per month he might quickly have to close his business and lose all his contacts, it would be much harder to start it up again when the economy improves.

Options by Violet and Blue Indigo are less prone to collapse but also have less potential for growth. Normally houses might not increase much in value compared to inflation, if he doesn’t sell the house to one person he might sell it to another random buyer so he is secure to some degree in that if it doesn’t sell he can live in it and expenses to maintain a house a low. This can be different if he has a high mortgage because then it is more deterministic, he might make more profit if it is an investment in a rising market but he might also go bankrupt from the payments if it does not sell. To avoid collapses there should be a balance between the Biv colors so that some buyers and sellers can afford to do so randomly at the cost of less profit and others can buy and sell deterministically with more chance for growth and collapse.

Violet and Blue Indigo try to manipulate the market with their team because they can make plans together, some of this can be illegal as insider trading and price fixing which can make the market more Blue versus Indigo Violet and prone to more growth and collapse. As an example of market manipulation with a Violet car yard they think they can get a car for a buyer because one is probably being traded in, they decide to manipulate the prices of these used cars because they are a popular model and they will make more money in the long term by averaging out short term losses. This is an example with cars but the process is commonly used in the stock and futures markets. The car years takes an option to sell a particular model of a car to customers for them as they enquire but they are short of stock for these, in consideration of the customer waiting for a car to be available they give the customer some money he will keep if they can’t supply the car. This is a put option477F[[474]](#endnote-474), and this is a statistical option because neither party knows for sure whether a car will be available, in the stock market on one knows for sure what the future prices of stocks will be and whether the put option will be worth exercising. If the car yard makes a put option with each buyer for the car then there will be many buyers that now have to wait to buy the car from this dealer rather than going to another car yard, it also becomes uncertain how many of these cars are really available because the car yard may give the impression there are many more of them than there could really be. For example it may sell a hundred times more puts than there are cars available, if it is a vintage sought after model like an older Corvette then this creates a market in which there seems to be ten times as many available than there should be. This is like phantom shares in short sales, when people buy shares in a company they find that they are readily available at a lower price and even if they buy more this doesn’t raise the price, they conclude that the shares are not a good investment because so many people want to sell them.

A seller of that car model might now advertise privately and get no enquiries because all the buyers are tied up in put options and other dealers may not be able to sell their cars of this model because it has now gotten a bad name for being hard to sell and people are now afraid it will not hold its value. The other dealers and private sellers are now forced to sell to the dealer who made all the put options at a lower price so the dealer makes a profit exercising the option to sell the car. In the stock market these put options depress the price of the stock until the company cannot raise finance and goes bankrupt, alternatively the short sellers buy shares at these low prices and then let the price rise again, fulfill the put options and make a profit. In this case Violet makes a profit by converting a deterministic market where buyers and sellers make definite contracts into a statistical market where randomness causes many dealers and private sellers to reach tipping points and collapse because they cannot sell their cars or must make a loss. In Roy this also happens where chaos and randomness are opposing strategies and animals try to use one strategy to overcome the other. For example Yellow lions might use random chance and a team or pride working together to catch Red gazelles that have a deterministic strategy of hiding, staying a set distance away from predators and having a clear path worked out to escape. By the team moving in random ways the deterministic movements of the dodging Gazelle eventually move it closer to one predator and then all the team share in the kill. If this doesn’t work then it is a statistical plan where as long as it works often enough the team or pride can afford to have some failures but for the Red prey one failure is catastrophic.

Other Violet car yards might notice these puts being sold and start to issue their own, this can depress the cost of the car even further but eventually someone must make a loss and if the prey, here the other car yards and private sellers do not lose enough some of the car yards will lose money because they will pay out too many premiums for the put options compared to the profits from the cars. This can also be random on both sides of the transaction, the car buyers may be Blue Indigo teams that sell put options but don’t have to take delivery of the car or if they do then they sell it and take a profit or a loss. They might gamble that the Violet car yards will fail and they will make profits from the premiums of the put options. This market can easily become distorted compared to the real value of these cars just as the options market can distort the prices of shares downward with short selling, if there is too much of these kinds of deals it could damage the whole car industry because the lower prices of these Corvettes would make the prices of other cars come down and then new cars would seem too expensive. Because the new cars have fixed costs they are deterministic and chaotic so this might bankrupt the car companies causing unemployment and a recession.

Usually there would be other buyers and sellers who refuse to participate in these puts and they would continue in a deterministic way such as Indigo Violet dealers selling cars they own or have agencies for on contracts to Blue workers, and the prices for these cars might become higher than those sold with the put options. This discrepancy between the Violet versus Blue Indigo and Indigo Violet versus Blue prices indicates a distorted market, the deterministic price could be considered a bubble prone to collapse if Blue is paying too much because of deception and then cannot resell them later. It can also be considered a depressed market because of the puts which will have a V shaped fast recovery when the puts expire or profits and loss are taken from them. The market will correct itself in Indigo over time because Blue Indigo sellers of puts will have to sell cars to Indigo Violet dealers eventually and make a profit or loss because Violet dealers won’t want all the cars from the options. The Indigo Violet dealers will eventually persuade the Blue Indigo put sellers to reduce this option selling and the market price of these cars will come back to their real value.

This gives a kind of Uncertainty Principle in markets, options make it uncertain how many deals will occur and at what price so speculators in them can cause price distortions, the deterministic part of the market is chaotic, secretive, deceptive and prone to collapse so over time the Violet and Blue Indigo speculators don’t know what their options are really worth in the deterministic market. In real estate speculation the process is similar, Violet and Blue Indigo investors might form teams of people with money to invest, they buy and sell homes. They see agents in the market and tell them they have money to invest so this is like an option to buy houses that are good value. The Indigo Violet agent tries to convert these options to buy into deterministic contracts by finding houses for them and at some point these houses are put back on the market with an option to sell at a certain price which the Indigo Violet agent again tries to convert into deterministic contracts by selling to Blue workers or perhaps other teams of investors. These deals can form an investment bubble because as the investors make money they usually invest more and over time the investors can be selling to each other and are no longer connected to the deterministic real market of Indigo Violet and Blue buyers who don’t speculate. The same can happen in the share market, teams of investors are looking for profits from this Violet and Blue Indigo randomness and the deterministic market of buying shares because of their dividends and known opportunities for growth has a different price. This why prices to earnings ratios of shares can become too low for Blue and Indigo Violet investors to buy, also why housing prices can go so high that rental income no longer pays the mortgage on them, legitimate house buyers are priced out of the market and raising the rent to cover the costs makes them difficult to rent.

These markets would now be primed for a correction when Indigo coordinates the deterministic and random sales. Eventually the Blue Indigo speculators have to sell the homes because the Violet and other Blue Indigo speculators are losing interest because the returns are no longer as good so they have to find Indigo Violet agents who can sell or rent the house to a legitimate Indigo Violet or Blue buyer such as a worker with a family to live in it. Violet employs the Indigo Violet agent for the same reason and if the Blue workers aren’t making enough money from the Green Blue resources of the economy such as farming and mining then they cannot buy the houses. The Violet and Blue Indigo teams then make losses, also the Indigo Violet agent may reach tipping points and go bankrupt because he cannot find enough housing stock saleable to pay his expenses. The Blue workers may also reach tipping points and go bankrupt because they had to take on too high a mortgage repayment or pay too much rent because they had to have somewhere to live, this leaves them with not enough money for other purchases. This lack of purchasing power from Blue workers then makes other Indigo Violet businesses with non-essential goods such as jewelry, cars, gyms, flower shops, holiday resorts, etc collapse chaotically and perhaps causing a recession. The Violet and Blue Indigo housing stock now acts to depress the market because there is too much of it for legitimate uses and the investors may flood the market with houses to sell making legitimate buyers wait to see if they will be cheaper later. When the random and chaotic markets are again coordinated the economy will recover.

Options in Violet and Blue Indigo are related to advertising, a car yard in effect gives people an option to buy cars at a given price when the yard advertises. A buyer might place an add offering to buy a kind of car at a given price, so these are like options that occur in a market all the time. Violet talented people try and make advertising attractive like plants make their flowers pretty and tasty for insects and birds. Ads give something free to consumers because they are often witty and show beautiful people, the consumers also get free television shows because of these ads and because Violet is random a percentage of these consumers will buy the advertised products and this pays for the TV shows and ads. These ads can also be used by Indigo Violet agents to sell properties, they pay a Violet advertising agency to make ads for cars that give consumers the free payoff of being funny, sexy, beautiful so the deterministic agent uses randomness to try and convert it into deterministic sales just like he tries to convert random house listings into deterministic contracts.

Blue workers can also use the random nature of Blue Indigo for profit, for example Blue farmers might work deterministically expecting that the correct combination of seed, fertilizer, irrigation water and insecticide will produce a profitable crop and if it does not then he may reach tipping points and collapse in bankruptcy where he cannot afford new seed and fertilizer. By using a Blue Indigo cooperative that supports prices and buys all his produce he can ensure that he makes some profit, if the market fluctuated in price too much then all the farmers might eventually reach tipping points and collapse. The Blue Indigo cooperative buys all the produce and sells it in the Indigo Market and sometimes in bulk to Violet, by averaging out profits and losses it tries to maintain a steady price to the farmers, make a profit for itself or pay dividends to the famers and can resist predatory low offers from Indigo Violet agents. Blue Indigo trade unions can also try to profit from the competitive and chaotic nature of Blue workers who like to work on deterministic contracts or set wages. The union compels then to join a union by showing that nonunion workers usually get paid less because they compete against each other for lower wages and are more prone to tipping points by being fired unfairly and then going bankrupt. The workers then pay union dues which the union can use to pay wages and other expenses, like an insurance company if there is a dispute where a worker might lose his job the union threatens that all the Blue workers at that company will go on strike unless he is treated fairly. If there is a strike the union may distribute money to the workers like a kind of unemployment insurance to make it easier for them to outlast the Violet company who will not negotiate with the union.

A marginal society can be a mix of Roy and Biv in many different ways. Yugoslavia before its break up was a Roy communist society with Biv Capitalism in some areas, while West Germany was a Biv society with many Roy institutions such as welfare, health care, and public property. East Germany was a Roy state moving to liberalize Biv business, as East and West Germany joined together there was a mix of Roy and Biv society as before in both. It also showed that a pure Roy or Biv system is usually compared to a mix of Roy and Biv, the exceptions to this are when a society has extremely scarce resources then pure Roy may be necessary and if it is extremely rich then pure Biv may be possible. For example living in a near desert environment food may be so scarce that stealing from each other may be impossible to prevent, a strong Orange police force may be the only way to keep order. In a rich environment such as the wealthiest parts of America no one there might need Red welfare because wages are too high and labor is short, the Orange police may be virtually unnecessary because people make so much money in the Indigo market and risk losing too much by committing a crime. For example a wealthy woman would be foolish to shoplift if she could easily pay for the goods because she would lose so much if she was caught. A starving man however must risk stealing in the Indigo market because the Orange police if they catch him must feed him in jail. Animals plants and people tend to evolve in a relatively static environment which they adapt to, this is not only an adaption physically but also of their mental attitude and character. An animal that evolved in an environment with scarce resources might be predatory and impossible to domesticate in a Biv society, for example pet lions will always be dangerous because they have evolved to survive by attacking a food source when they feel hungry rather than wait to be fed. Biv pet cats might have evolved with abundant resources and if released into the wild can only live where food is relatively abundant, they would die out in a near desert environment. People can be the same, if they have evolved in a scarce Roy environment they may have more instincts and abilities evolved towards violence and predatory behavior which manifests as criminal behavior eve when good paying jobs are available, A person from an affluent Biv society might find it hard to adapt successfully to living in a poor African community because they wouldn’t be able to handle occasional starvation and might have too many scruples to kill an animal or steal from other people rather than starve. In the same way people’s attitudes can evolve in their society and they tend to assume that what works in their society will work in others completely different. A wealthy Biv area might find that the Indigo market works so well there that it should work in poorer countries instead on an Orange police state. The communists evolved their attitudes to Biv capitalism by living through so much poverty and misery from the Industrial Revolution, they assumed then that a political system based on scarce resources would always be necessary even when resources were abundant, that the Indigo market was unstable and would eventually fail all over the world to be replaced by Orange police systems. In fact both Orange and Indigo are unstable, they wax and wane which causes many problems and sometimes the percentage of Orange versus Indigo in a mixed economy must change according to how scarce resources are but neither is better than the other, nor can either one be used by itself except in extreme situations.

Trying to export a Biv system into a Roy country and vice versa often fails because of this resources difference, the United States has tried many times to promote a pure Biv system such as in Argentina and Russia after the breakup of the Soviet Union, it always fails and often creates a crime wave from the lack of Orange police. This has reached the point where foreign aid from Biv countries is now highly restricted such as in Africa because it seems to be wasted or counterproductive. In the same way Roy countries try to export their systems to wealthier nations such as Sharia Law or turning them into an Islamic Theocracy, trying to turn them communist by insurgents or the ballot box, trying to establish a Yellow dictatorship, trying to extend a culture of corruption into a Western country such as with the bank BCCI, and each time these systems fail to work there. Sometimes these countries do change from Roy to Biv or vice versa, some Red communist nations have successfully become mixed economies after being allowed to trade more with the west or join the European Union after the fall of the Soviet Union, many have also become democracies after rebelling against communist dictators. The number of dictators in South America has dramatically fallen in favor of democracy as technology has made resources more abundant. Some Biv countries in Africa have become less democratic and more plagued with corruption and civil war perhaps because of less aid from the West. These changes usually parallel the changes in color codes from Green to Green Blue and vice versa, if a country discovers more Green Blue minerals valuable in the global economy then this stimulates more of a Biv economy unless the Roy government steals too much of it. If prices for these minerals collapse from a recession or lack of demand then some countries can become more Green or publicly owned economies, this happened around the world after the Great Depression where Germany, France, Belgium, Holland, Austria, Italy, etc became dictatorships and predatory war replaced trade. A Roy system is dominated by walls and barriers, such as fences to keep Yellow wolves away from Red sheep. The Berlin Wall was designed to be this kind of wall to keep out the Orange Yellow imperialists from tricking and corrupting the Red Communists and to stop Red communists from getting out and being attacked by Yellow capitalists. In the Great Depression many countries including the United States with Smoot-Hawley478F[[475]](#endnote-475) erected walls to trade by imposing tariffs, these used the Orange police to avoid one country trading out of the depression at the expense of another. Biv economies generally use bridges instead of walls because coordination between color codes for mutual advantage is most efficient here.

Marx wrote about the injustices to Blue workers in the Biv system and about Red victims of Yellow imperialism and colonialism. He did not envisage what could replace Capitalism except for some ideas about worker’s cooperatives and armed resistance to imperialism. Worker’s cooperatives were ways that people would build businesses as nonprofits, he also advocated trade unions but a communist contribution to a mixed economy was limited because they believed that capitalist would never give the left wing colors of Red and Blue a fair share of the economic wealth, this could only be taken from them by violence and war. This is a Roy attitude where resources are scarce, one color code will hoard them if they can because they may be hungry themselves later if they are too generous. Red communism evolved as a response to Yellow Violet behavior that rarely exists today, though some poorer African nations can still be exploited by mining companies. Violet businessmen would ally themselves with Yellow imperial powers such as the Empires of Germany, Austrian Hungarian, French, British, Dutch, Belgian, Italian, Spanish and American which existed prior to World War One. This Yellow Violet partnership was like the military industrial complex of modern times that Eisenhower warned of, in Aperiomics Empires can exist inside a country as well as dominate other countries. For example the British Empire dominated many other countries where workers were paid little and much of their wealth was transported by to Britain, but the same also happened inside Britain where Yellow Violet industrialists paid workers very little to work in dangerous conditions. Naturally Yellow predatory behavior builds Red Orange resistance in Aperiomics, this idea long predates Marx, conquered peoples in such as Gaul did this against the Roman Empire for example.

According to Aperiomics what Marx was saying was that Yellow imperialism and Violet business had too much influence because of technology in the Industrial Revolution, this led to Red and Blue people being oppressed or overworked for low wages in dangerous conditions. This leads to a growth in Blue Indigo trade unions and cooperatives as well as Red Orange militant protestors like communist agitators just as oppressing Red people in Yellow dictatorships that support the West in the Middle East leads to Red Orange resistance as Islamic terrorists or freedom fighters. This situation also occurred in the French Revolution where the Yellow Violet aristocracy was seen to be building their Empire by war and trying to break apart the British Empire by subsidizing the American War of Independence. This led to starving Red peasants, also trade from the British Empire caused many French industries to go bankrupt making some Blue workers poorer. This led to a Red Orange and Blue Indigo fringe which battled the Yellow Violet royalty and took control of the country executing and exiling the Yellow Violet businessmen and aristocracy. The same happened when the communists took over the Soviet Union because of Red Orange resistance which was strengthened by the losses of soldiers and food because of Russia’s fighting in World War One. The Red communists like the Red uprising in France killed the aristocracy and some businesses and created a Red and Red Orange based government. Just as attacks from other Empires caused Red Orange Napoleon to rise in France the fear Red Russia initially had for a Western invasion of Russia to topple them may have led to the strong man Stalin’s rise to power and attempted takeover of Eastern Europe in battles against the Yellow Nazis. In Napoleon’s time his enemy was the Yellow Empires of Austria, Britain and Russia trying to destroy the Red Orange government and bring back a Yellow Violet aristocracy, in Stalin’s time the enemy was the Yellow Nazi Empire trying to impose a Yellow Violet government in Russia.

Imperialism as Yellow and Capitalism as Violet has evolved a system of government and philosophical rationalization for its predatory and trade based Empires, this extremism provoked an opposing world view which became Blue Indigo Socialism and Red Orange Communism with its own system and Marxist philosophical rationalization. While the attempt to create a Red Orange and Blue Indigo left wing economy and successful philosophy ultimately failed by comparison to the West it did not really fail to work reasonably well. Towards the end of Communism it was competing against mixed economies that had the advantages of both systems, Germany, France, Britain, America, and Italy for example were highly socialized with trade unions, pensions, unemployment insurance, etc. Much of this happened because these countries feared going communist after the Great Depression and the slow recovery after World War Two, they believed that if Marx was right and capitalism really was doomed to failure then the only way to try and save it was to institute some socialist reforms. Also by giving these reforms to workers it gave them much less to protest about and stopped the communists being able to get support for a popular revolution in Europe, instead they tried to take power democratically and agitated for an uprising where these reforms did not exist such as in India, the Philippines, and most of African and South America. Europe then balanced its color codes in Roy and Biv to ward off more violent oscillations to bring the communists to power, by giving Red Orange protestors more of what they wanted and protecting Blue Indigo trade unions they allowed them to form an alliance with the Orange police and Indigo market, which preserved the Orange rule of law and Indigo balance of democracy and free markets. Once the economy was balanced by this the Orange police could use their alliance with Orange Yellow informants to break up the excesses of Yellow imperialism and monopolistic practices. The Indigo market with Blue Indigo support was able to reduce Violet monopolistic domination of Biv economies such as with antitrust law.

The left often received as part of this Orange and Indigo balancing consumer protections, laws to regulate Capitalism to try and avoid booms and busts, progressive taxation to redistribute money to the poor, and so on. The mixed economics that resulted are like what we see in nature where in some areas Roy animals dominate and in other areas Biv plants such as forests do. Nature tends to move to a balance where the strength of Yellow predators such as lions are balanced by stronger Red Orange herds such as buffalo, this process in economics is often caused by changes in technology which upset the balance of power between Red Orange and Yellow such as with weapons. Many Empires such as in the Belgian Congo were formed because the Red natives there had no defense against advanced weaponry such as guns, this made Yellow Empires grow quickly until the Red people developed a means to resist including buying weapons elsewhere such as the American getting weapons from the French to secede from the British Empire, a part of the European settlers deciding to secede and having their own weapons in alliance with the natives such as in the Boer war479F[[476]](#endnote-476), guerilla warfare as promoted by Che Guevara480F[[477]](#endnote-477), mass protests such as with Ghandi and nonviolent resistance, using much larger number such as with the Anglo-Zulu war481F[[478]](#endnote-478), in the

However in Aperiomics while there is a tendency for the political and economic pendulum to reach the center like a pendulum it often moved toward the other extreme is a series of oscillations before finding an Orange and Indigo balance. Changes in the resources of the economy can make these oscillations resume, these can be between Red Orange and Indigo Violet with Orange police and the courts trying to find compromise laws in a negative sum game, between Blue Indigo and Indigo Violet with the market trying to find a compromise price for deals to be made in a positive sum game, between Green Blue private property and Green public lands in a zero sum game, and more generally as a balance between Roy and Biv.

Changes in the Green and Green Blue environments in the zero sum game can sometimes lead to the pendulum swinging to the left or right, for example if more Green Blue minerals are found in a country this can make more private property and given an opportunity for Yellow Violet Empires to take control of these minerals at first, such as happened in the Congo with rubber, then Blue Indigo resistance builds until the Biv pendulum is more balanced. When the more Biv Europe was hit by the Great Depression this caused a lot of nationalization of Green Blue resources which were now worth much less in the global economy and a tilt towards Yellow in Roy. Often Yellow and Violet being more aggressive as in nature are first to take advantage of a new situation and then Red Orange and Blue Indigo evolve resistance to restore the balance.

Whether Roy or Biv ultimately wins as a dominant economic system or the mixed economy continues to be most efficient depends on whether the future will be one of economic abundance or scarcity. Red Communists and Yellow fascists fought each other in World War Two in part because of scarce resources caused by the Great Depression, Germany wanted to get the resources for a continental Empire in part because it lose its overseas Empire after World War One and also because the land to the east was a tempting prey in times of scarcity. If in the future resources such as food, oil, and water become scarce enough then battles like these between Red and Yellow will be refought, but if the current boom in technology continues then this may create such abundance that most of the world will become Biv, with Yellow dictators and Red Orange insurgents being inefficient and unnecessary. In that case the battle of the future might be between Violet corporate domination or Blue Indigo workers that gets most of this wealth. Currently Violet is winning this because the concentration of wealth is increasing in the top one percent of the population of most Western countries. The battle between dictatorships and democracy was in many ways a battle between Roy and Biv systems and world views, but such a battle can never be won unless it also conforms to the resources available.

This mixed economy or marginal society has been refined since World War Two and it arguably led to the end of the cold war because a pure Roy economy whether communist or authoritarian could not be shown to be more efficient, also no pure Biv economy has been shown to perform as well for all citizens. Now political parties usually campaign over relatively small changes to this mix of capitalism and socialism sometimes the right becomes more socialistic with corporate socialism in Violet and at other times more competitive in Indigo Violet. Sometimes the left becomes more socialistic in Blue Indigo with trade unions, cooperatives and social insurance and at other times the competitive nature of Blue workers is stronger. Some countries like the United States are somewhat more competitive with Indigo Violet and Blue interactions while others like Europe are more Violet versus Blue Indigo where both are a form of socialism and cooperation rather than competition is favored. Some parts of the world are more Biv such as the more affluent West and other parts remain Roy with scarce resources because of a lack of mineral wealth, poor climate and soil for crops, too many people to provide a Biv standard of living to, and because predatory Yellow Empires and companies take too much of their wealth including with a puppet Yellow dictator.

This world view is like a balance in the overall ecosystems between forests and savannahs where some areas have a combination of soil and rain to favor Roy or Biv systems. Generally the more abundant these resources are the more Biv the ecosystem is for animals and plants, the Biv Amazon rainforest is dominated by plants and Roy animals are subservient and the Roy deserts in Chile are dominated by Roy animals and plants evolved by being eaten by them. A Marginal society is where the balance of Roy and Biv is such that neither is always superior, the society might be relatively homogenous, it might be like a patchwork quilt of Roy colors in one area and Biv in another or it might be a mainly poor Roy area such as southern Italy connected by state boundaries to a more prosperous Biv southern Italy.

These marginal parts of an economy include water, power, roads, airports, buses, trains, defense, police, town planning, parks, welfare, customs, immigration and visa controls, libraries, prisons, asylums, education, taxation, spying, and so on. In each of these there are Roy and Biv forces as well as a tendency for left or right wing colors to dominate temporarily:

1. **Water.** In most countries the water supply is controlled by the Roy side of government as Green public property. With water there have been attempts in many countries to privatize it often on ideological grounds. This can lead to Violet and Yellow control and exploitation of the population, gouging them with exorbitant prices482F[[479]](#endnote-479). The company proposing privatization normally says that Violet talent can run water supplies more efficiently. Water usually also exists as a Biv enterprise with bottled spring water and deliveries to businesses and homes of a higher quality product so there is a Biv tendency to try and grow these niche markets into a monopolistic distribution for a town. A hybrid solution is to keep the Green public water supply as Roy, while using Biv contractors, though there can be some corruption of the Roy government for contracts and jobs. For example there might be private employees, tenders for the manufacturer and maintenance of machinery, adding fluoride to water, and so on. Because water is by its nature a fluid communal resource with no set boundaries it is not easily divisible into Green Blue private property except with bottling which is why Biv companies do better with the bottled water market. Bottling by its nature makes Green products such as liquids into Green Blue sections of private property, this is regulated by the ratio of Green to Green Blue, i.e. whether the water is economically viable for a Biv market. If not then it will usually be distributed as Roy through publically owned water pipes into Green Blue privately owned water pipes and faucets in a private home or business.
2. **Power.** Electric power can alternate between Roy and Biv in a marginal society in search of the most efficient system but generally it does best as Roy. Raw materials might come from Green Blue such as privately owned coal mines into state owned generators and consumers pay the Roy state for their power. This enables the government to help with welfare, giving concessions and free power to such as pensioners and the unemployed that could not afford electricity otherwise. It might also give cheap power to Yellow people of influence such as Violet companies with Yellow influence getting cheap power for their businesses. For example Yellow Violet companies might lobby the government for business subsidies, and even pay bribes for this. Privatization of power can come in many stages such as buying, coal, oil or uranium from Green Blue private mines, tendering for private Violet engineers to design and build power plants, contracting Violet companies to manage the operation, or using Blue private sector workers in the power plants.
3. **Road works.** Roads are usually maintained by Roy because it is generally in the public interest not to have a Biv company potentially monopolise scarce ways to get from one place to another. Once roads are built it is all but impossible to build others in a city to go a different route if some were privatized and charged high tolls to use them like a monopoly. Some roads can be Biv private such as easement roads or driveways on private land, privately built freeways bridges and tunnels that collect a toll for a Biv company, an incorporated town483F[[480]](#endnote-480) as a hybrid of public and private ownership, and so on. Biv workers are usually employed in their construction with surveyors, bitumen manufacturers and layers, engineers, etc.
4. **Media.** This can often be Roy such as with the BBC and PBS, the Internet itself is also a form of public ownership. Newspapers are usually privately owned except in Roy countries such as the former Soviet Union’s Pravda. Military forces can have their own Roy media such as radio magazines and newspapers. Some television stations can be government owned and others often have a quasi-monopoly from the government with licenses technically able to be withdrawn.
5. **Mass Transit.** Trains through history have alternated as public Roy versus private Biv, a good example are the Japanese private railroads484F[[481]](#endnote-481). Early American private railroads were often assisted with Roy government subsidies, built on public lands, using governmental influence or even bribes and being nationalized later. A Roy transit system can suffer in quality because of its public ownership, for example Yellow thieves and gangs might attack Red people at railway stations and one trains, this then needs Orange police and ticket inspectors to protect some people, Red passengers might also be pickpocketed by Orange Yellow thieves and the level of Orange policing is often insufficient because scarce resources cause mass transit to be cheaper which makes it harder to spend money on Orange police when so many people of different colour codes travel together. Similar problems occur in other public areas such as walkways around train stations, public roads where cars might be taken at gunpoint or robbed when someone takes the train, someone stopping on a freeway to change a tire and being attacked, etc. Railway privatization has been tried recently in England with many problems, this kind of service is usually heavily subsidised for social reasons such as reducing car traffic, giving pensioners and the poor cheap ways to travel, reducing car emissions, etc. It can also have Yellow influences where business people get favourable contracts from a right wing government often with bribes and recoup this costs by overcharging Red passengers. For example a railway might be partially privatised to Yellow Violet cronies at a cheap price in exchange for jobs for retiring politicians, the fares are then raised to make more profits to cover bribes and dividends while maintenance might be ignored to save money. This can happen because resources are scarce in Roy railroads and concentrating income in this way by extorting more money from the poor can make resources abundant enough to be Biv. Usually trains and buses are manufactured by Biv private companies; sometimes employees are privately contracted such as temporary staff from employment agencies, more usually they are Roy government employees. Sometimes as with selling bottled water Biv bus companies have select routes where there are clear profits and they would prefer to ignore the rest or spend very little on them, this is not a viable option for public transport because bus services can improve a poor area dramatically by enabling people to get to work so more taxes are paid and less welfare. The need to look after Red people makes it hard to run mass transit as Biv, often fare evasion by Red is tolerated and there is sometimes a need to keep it cheaper for Blue workers as a subsidy to business. As an economy sours more riders might be Roy welfare recipients and the unemployed and it is harder for Biv operators to turn a profit, cutting back less profitable Biv services can have a chaotic on a Blue Red community leading to tipping points as some lose their jobs because they cannot afford to take taxis to work. When seen as a communal Roy service mass transit can suffer from the tragedy of the commons, where vandalization of seats and breaking windows, defacing by graffiti, and a lack of care may be taken by patrons. Sometimes the tragedy of the commons can affect different Roy areas of Biv transit. Private cars and trucks might damage public roads, private trains might wear out public tracks if not paid for by private companies. In the same way privatized power might result in outages by not maintaining power lines properly, privatized water might not maintain public water pipes to make more profits to offset the scarce resources available in marginal Biv businesses.
6. **Defence.** Defence in a marginal society is run by the state as Roy but also uses Biv contractors, mercenaries, pays tribes and warlords for proxy wars, corporations for logistics such as catering and base construction, weapons and other materiel from private corporations, and gives soldiers a free choice to sign up for a tour of duty like a Biv job as well as sometimes using Roy conscription. Politicians and appointed officials often have a hybrid role, working in Roy government service for a time and then leaving to work in the Biv private sector often for companies that benefitted from Roy government contracts. Domination of a country militarily often results in favourable contracts for well-connected Biv companies; these can also have links to officials and politicians in the Roy government. The Roy military is intimidating and to refuse business with Biv companies associated with it, or even with Biv military mercenaries is difficult. This relationship can make wars seem more like plundering by the Yellow Violet military industrial complex. Prices can be also manipulated by war or even sabre rattling or threats of war. For example threats of war in an area of oil production can push up prices so crony oil makers can make profits for their own oil or by speculating in oil futures if their cronies in the government can talk about war when these futures are bought. Nationalization of Violet resources can lead to a Yellow military attack by overseas companies pressuring their Biv governments to help them, by invasion or trying to destabilise the nationalizing government.
7. **Police.** In a marginal society police can vary by becoming more Biv Indigo coordinators rather than policing or vice versa, or they can move more to Red Orange or Orange Yellow. For example Orange police and Indigo coordinators usually work together, a country might have a mainly Orange approach to drugs such as Marijuana by criminalising it in America or Indigo market solutions such as The Netherlands where police would do some minor Orange policing by might also assist in the sale of marijuana for example by arresting people protesting or not paying at the cafes where marijuana is sold. There can be Biv private police as well, with security guards, patrols of businesses, private detectives, private companies doing DNA analysis, private prisons, private bail bondsmen, private clinics for drug offenders who get sentenced to rehabilitation, private manufactures of police equipment such as uniforms and weapons, and so on.
8. **Town Planning.** This is normally handled by Roy government or local councils because orderly planning of society is considered in the public interest. For example without town planning someone might build a factory next to a residential area, roads could be haphazardly designed as they were in old London, hospitals and schools might not have a convenient location because land is not available, etc. There is also Biv town planning where gated communities and new estates usually lay out their buildings, roads and parks using private architects with some restrictions by the Roy local council. Biv builders design a wide variety of house and apartment designs, many of these become standardised because of mass production lowering costs, with minimal Roy supervision. Town planning is usually able to be objected to by the Roy public if land is to be rezoned then notice is given to the public to potentially veto it. This gives rise to the NIMBY485F[[482]](#endnote-482) response where Roy people try and veto things that affect them adversely such as a nuclear power plant nearby.
9. **Parks.** Parks are usually Roy public lands such as in towns, nature strips along freeways, sidewalks, nature reserves such as Yellowstone, World Heritage listed areas, an area extending off the coastline of a country intended to be part of their territory, the oceans, and so on. Areas like these are usually Orange policed by Roy agencies such as local councils with town planning, international agencies such as the United Nations, treaties between nations such as for how far offshore sovereignty extends, lands owned by the Crown as in Britain, and so on. There are also private parks such as where a new housing development might create parks and sidewalks in it though these may be ceded to the Roy government when the land and houses in the development are sold, private beaches in front of some houses, organizations such as the Sierra Society might buy land to be a nature preserve, private mining lands restricted so the environment is largely unspoiled or regenerated, and so on. Parks can be looked after by Roy employees or the job can be subcontracted out to Biv for removing cut down trees and shrubs, removing weeds, watering plants, monitoring for poachers and littering, scientific research, and so on.
10. **Welfare.** Welfare can look after left or right wing people depending on the government. Generally Red people are the poorest and weakest but a Yellow Authoritarian dictatorship may practice corporate socialism looking after businesses first, for example in the Great Recession the American government bailed out large predatory Yellow Violet banks but few people losing their homes. Biv business can replace Roy welfare such as with private charities, foundations, church collections for the poor, begging, lotteries which give some of the proceeds to charity, soup kitchens, homeless shelters run by religious organizations, donations of food and second hand goods to food banks and charity run stores, organizations such as Lions and Rotary486F[[483]](#endnote-483), and so on.
11. **Customs.** Customs are usually handled by the Roy government, since they usually act as Orange police in searching for drugs, checking for illegal immigrants and terrorists, checking for wildlife dangerous to the ecosystem or protected species such as parrots, etc. Most of the equipment used in Customs is manufactured by Biv companies such as scanners, uniforms, guns, computers, etc also they have a Biv purpose in regulating some imports for taxes and tariffs or to detect counterfeiting.
12. **Libraries.** Libraries are the Roy equivalent of Biv bookstores, usually publicly owned. Second hand bookstores are most similar to libraries, where people trade in books they bought from there for less than its original cost instead of paying for a public library in property taxes.
13. **Asylums.** Mental hospitals are usually run by the Roy state, they are similar to prisons but include people who aren’t blamed for their crimes or are mentally disabled. This is the problem with predators and whether to blame them for their crimes, whether they attack Red people by choice or like a lion they had no other skills to survive. A criminal might go to prison if they are a psychopath or deliberately committed a crime and knew it was wrong, if they committed a crime while not able to tell right from wrong they would go to an asylum. There are also some Biv private mental hospitals for wealthier patients, some Biv doctors work for the Roy state and others work privately or through some Roy public insurance such as Medicare.
14. **Education.** Much of the school system such as colleges and universities in Western countries is Roy though wealthier people and special interest groups such as of ethnic origin and religion can go to Biv private schools and universities such as Hard and Yale. Some kindergartens and preschool can also be Roy though babysitters are usually a Biv business. Some universities can be Roy but tuition is paid for by student loans which can be financed by the Roy government or Biv business. More specialized education can be Biv such as cooking classes, language courses, learning sports such as golf or tennis, learning self-defence such as karate, tutoring by other students, apprenticeships, work experience or clerking for lawyers, etc.
15. **Taxation.** Taxation is normally a Roy process since it is not voluntary, but governments can have user pays charges that go into general revenue such as for driver’s licenses, car registration, library late fines, government run buses trains and ferries, power and natural gas bills from state run utilities, fees for water use, tendering for leases of government property such as television rights to broadcast, auctions of frequencies for mobile phones and radio, and mining, etc. These are like Biv because the consumer has a choice whether to buy them or not in a positive sum game.
16. **Espionage.** These are usually Roy government owned, but often use Biv contractors for plausible deniability of some operations such as private prisons for rendition. Private detectives can do similar jobs in the Biv economy trying to catch husband being unfaithful, tracking down people who owe money, bounty hunters finding criminals, etc.
17. **Exchanges.** Exchanges487F[[484]](#endnote-484) such as for stocks, commodities, futures and derivatives can be Roy government owned or privately run.
18. **Farming.** Farming in Red Roy countries such as the former Soviet Union was Roy, they also had some Biv private farming. Rearing cattle or sheep on public land is more common in third world nations. Biv private farms commonly get government subsidies and quotas, often making them a hybrid between Roy and Biv. A Biv private farm might have to sell their eggs, wheat, milk, etc to a Roy cooperative.
19. **Mining.** It is common for nations to nationalize mineral deposits such as oil in the Middle East and Venezuela, coal mines in Britain, America leases public lands to companies to prospect for oil and gas. Coal, oil, and natural gas can be government owned and provide fuel for private Biv power generation. Roy governments and Biv business can have shares in a mineral or oil development.
20. **Environment.** The environment is usually protected by Orange in Roy such as with the Environmental Protection agency in America but many Biv people voluntarily look after the environment by not littering, buying carbon neutral products, boycotting products such as fur, buying cars that are fuel efficient, donating to wildlife protection funds such as Greenpeace, and so on. Biv companies usually don’t pollute their own land if it is valuable enough because it cannot then be sold, if the land is cheap enough it can be allowed to become Green after being polluted, it can be abandoned or left unused because of its pollutants.
21. **Manufacturing.** This can be done by publicly owned industries in Roy countries such as the former Soviet Union and also in nationalized industries such as occurred in Britain, some banks can be owned by the state and many banks had to sell shares to Roy governments in exchange for bailout money in the Great Recession, AIG insurance became partly Roy owned by the American government, and General Motors is also now partly government owned.
22. **Research and Development.** This can be done by grants from a Roy government for such as defence, diseases such as Aids, space travel such as with NASA, special technological needs where resources for research funds are scarce such as renewable and solar energy, electric cars, battery technology, scientifically valuable projects such as archaeology, historical buildings being restored, running museums, and so on. More commonly research and development is done by private companies such as with pharmaceuticals because resources are more abundant as successful drugs are very profitable.
23. **The Arts.** These are often supported by the Roy state with older paintings and sculptures such as in the Louvre, the ballet and opera are often subsidized by Roy though the wealthy Violet may also give donations, modern art may be purchased by the government for its museums. Private Biv collectors also have paintings and sculpture because this can be a good investment so resources are abundant in this field and often Biv people cooperate in restoring and maintaining antique furniture and older style homes.
24. **Natural Disasters.** The Roy government helps to some degree with damage from bushfires, tornadoes, hurricanes, epidemics, etc because resources are scarce after a major disaster though with smaller disasters there may be enough resources for private Biv insurance companies to make a profit.

Economic problems in a Marginal Society can be explored by analyzing the color codes. In Biv sometimes a plant removes part of itself when the environment is less abundant, such as dropping its Violet leaves in autumn when the energy required to maintain them is more than regrowing them later when needed in spring. Roots that go to areas with few resources and nutrients also tend to be not maintained, though rarely cut off from the plant. This is because Blue Indigo acts statistically and a Blue root can try to compete against other roots and fail, it can reach a tipping point where it fails the find nutrients and then wither without damaging the rest of the plant. In the same way Biv businesses in a recession let go Blue workers to rehire them as the economy improves, they have Blue Indigo social insurance such as savings, housing loan insurance to pay their loans while unemployed, union support for preventing them being fired unfairly and being rehired when the economy improves, medical insurance, etc then these can prevent chaotic collapse such as their losing their homes, cars repossessed, etc. Normally a lack of Green Blue resources causes recessions like these, the Blue roots might bring in less wealth from such as farming and mining, a lack of energy wealth and talent in Violet can make it difficult to refine Blue produce to something marketable but also price distortions in Indigo can cause booms and busts when the resources are still abundant, this is like the trunk of a tree not coordinating nutrients up and down it correctly so one part of a plant uses too much of the nutrients and then begins to starve.

Scarcity instead of Biv abundance tends to turn the economy into Roy so people start steal from and trick each other off rather than continue with a positive sum game both benefit in. With Biv companies there is usually a belief that employees are a valuable part of it because both the workers and management benefit in a positive sum game, firing people or reducing wages to boost Violet bonuses can be because of greed and a sign that resources are becoming scarce and this part of the economy may be becoming Roy. This may occur in plants as well, when water and nutrients in the soil get scarce the Violet leaves and Blue roots have different objectives. The Violet part of the plant wants to flower and fruit to keep the kind of plant reproducing but the Violet roots often plan the leaves will be dropped and the plant go dormant such as during winter, they may work to extend the roots to maximize chances of survival by finding new water and nutrients. It would be difficult to prove if the top of a plant was withholding nutrients from the roots and vice versa but there are two ways for a plant to survive in these circumstances, when resources are abundant they work in harmony but when scarce a plant might pick one or the other, or more likely try to do both at the same time. In effect the Violet fruits and flowers would be perpetuating themselves at the expense of preserving the rest of the Biv plant; this is like the theory that life is a vehicle for the survival and reproduction of genes. It is also lions breeding too much at the expense of eating too many prey, they may take a chance that food will run out against calculating that the more predators there are the more chance that some will find food to survive. Red Orange animals in a drought have a similar dilemma, if they breed less then their herd might have less chance of finding food but if they breed too much then they might exhaust the food supply sooner. Some Blue roots can regenerate a plant with a piece of the trunk or root so this can be a competing way to survive a drought than favoring fruits and flowers with scarce nutrients.

When people are laid off they can be regarded like a dormant part of a plant, they might not look for other work but just wait for the Biv plant to regenerate, this is like workers waiting for a company to rehire them as the economy improves or there may be seasonal work such as fruit and vegetable picking that requires them to be laid off for most of the year. Other workers are like humus in a forest such as fallen fruits, flowers, branches, trunks, bark, sap, and roots which decompose to be reused by other Biv plants. This is like unemployment where parts of this humus are taken up by other plants, like getting a new job or being retrained. The job loss occurs in a statistical sense in Violet and Blue Indigo and a chaotic way in Indigo Violet and Blue. Violet people try to weather the downturn by cooperation, helping each other to find new work with friends, school clubs and former sororities, calling in favors done for others, and so on. They also enrich each other by voting for higher wages and bonuses for their cronies, larger golden parachutes, price fixing with other companies, directors sitting on many boards at other companies, and so on.

This self-enrichment can go on even as it becomes apparent the companies have a bleak future, by having Indigo Violet accountants fudge the situation secretly and deceptively to make more money for themselves or book uncertain profits from the future now so bonuses can be taken and people leave before the downturn in profits. Indigo Violet agents and employees will often do this in a business for the Violet management because they compete against each other and deception can help them to win a promotion at the expense of other employees. The Violet management can usually distance themselves from this by saying they did not realize this deception was going on but if they create a highly competitive environment then they can usually count on people to be deceptive, this boosts profits for Violet temporarily in a process like fruiting and flowering in plants, the chaotic collapse underneath Violet then occurs as Indigo Violet workers lose their jobs while Violet help each other, these workers can also be scape goats or may have left after deceptively making deals they know will fail to get short term bonuses. This growing of the Violet part of a plant can be like a bubble that will burst in the economy, the company like a flower blooms and then either dies or becomes dormant in a recessionary winter. The enriched Violet workers go on to other companies or start new ones, this is like fruits creating new plants as the old one dies or withers. This is also caused by a similar process in Blue Indigo so as Violet management negotiate with Blue Indigo unions for higher wages then higher prices in a wage price spiral then this draws in wealth from the Indigo Violet and Blue parts of the economy who don’t cooperate with each other for protection, they can then reach tipping points and collapse bringing down some of the rest of the economy with them. This can also cause economic stagnation or stagflation with the wage price inflation because resources for Blue and Indigo Violet competition and innovation are too hard to find. To solve this problem cooperation would have to be introduced into the economy more with making some of this cooperation illegal such as by ending some compulsory unions and price fixing between companies to form a monopoly on prices. This is like a plant with a strong Violet component of leaves, fruits and flowers as well as a strong Blue Indigo component where many roots connect together but very short branches and roots. Such a plant might stagnate because it is not competing effectively with the roots of other plants to get to the nutrients first, also branches are not competing enough with each other to find a way through other trees and the canopy above to get more sunlight. This is likely to become a stunted shrub under other trees and with its roots missing out on most of the nutrients and water.

When Violet versus Blue Indigo are too weak and Blue versus Indigo Violet are too strong such as from too much competition then wages and prices can rise too slowly or even fall regularly as new products are constantly created which is seen in electronics goods and computers. This can cause too much deflation because a company trying to raise prices or workers trying to raise their wages can be quickly faced by competition of others willing to sell or work for less money. For example in deflation where there are strong unions and large Violet corporations the unions can demand higher wages and receive them, this reduces the wage deflation and then the Violet companies have enough of a monopoly to demand higher prices which reduces price deflation. Deflation is like a plant that is shrinking instead of growing, it can create a liquidity trap where money is reluctant to invest in goods and services because they will be worth less not more over time. A plant like this would have very long Blue roots in comparison to where they joined together in the trunk and very long Indigo Violet branches with few Violet leaves and fruit on them. Each of the roots and branches compete with each other because they have little communication for cooperation, one branch cannot know what another branch is doing so it only has its own genetic plan to grow and sprout leaves and flowers. The roots are the same one root cannot sense what others are doing and whether it is draining nutrients from around another root rather than finding new resources. Such a plant would find it hard to grow because its branches and roots are often engaged in destructive competition with each other rather than cooperating to get more resources from the Green Blue soil and more energy from Violet leaves to convert these resources into more refined organic compounds. This plant would be easily broken by animals or storms because it gets little energy from Violet leaves to strengthen it and the branches have no way to cooperating together to increase their strength. The roots would be so long that nutrients are wasted more in making the roots than strengthening the plant so the roots get little food from the leaves, if a root collapses because of this then all the nutrients in building it are wasted.

The branches can also compete with each other too much like in the economy, if one branch starts to overshadow the other then they can become locked in a contest to outgrow each other not realizing they are part of the same plant until they grow too long and fragile and both collapse wasting the resources invested in building them. When a plant matures to producing Violet leaves with enough sunlight they should send messages down into the rest of the plant to reduce this Indigo Violet competitive growth, this may be done in the Blue Indigo root connections. Then the Indigo Violet braches and Blue Indigo root connections must barter for nutrients, this is like the Indigo market. When liquidity tries to compete too much for profits it creates this destructive competition and wastes large amounts of resources in investing in an area which starts to create jobs and a revival of the economy, then they see a slightly better return elsewhere often caused artificially by the large amount of money going there. The money leaves the half built investments so they collapse for lack of funds, the money moves continually like this trying to compete with other money managers to be the first in to a new investment that will boom from the amount of money going into it and then to get out quickly not caring that this will cause a collapse in investments over and over. When prices start to rise with a normal inflation this indicates that that part of the economy is recovering, then this competitive liquidity pours into that area like nutrients pouring into Indigo Violet branches and Blue roots at a sign of growth which makes them grow too much causing some collapse, then the nutrients suddenly retreat to avoid losing in the collapse. This is also similar to the effects of some herbicides, they can make a plant grow too fast and it starves itself into collapsing and dying.

The Indigo Violet parts of Biv companies are more vulnerable to downturns in the economy because they have cutthroat competition against each other. Tipping points reached will close down large parts of companies and nearly everyone there might lose their job, but Violet management rarely does unless this undermines them or the secrecy and deceptiveness in Indigo Violet catches them unawares as it did in companies like Salomon Brothers, Lehman and Bear Sterns. This is like branches on a tree that die while more successful branches carry the main Violet flowers, fruits, and leaves. Leaves could exert a cooperative influence in a tree by sending down the branches chemical messengers indicating they are getting sunlight, lower down in the plant there would be a mechanism to maximize this return from the leaves which would need a cooperative strategy. For example some branches may have their nutrients reduced because they have no succeeded in finding sunlight for their leaves, these could wither and die. The other branches receive nutrients that maximize the sunlight received, some branches cooperate in this by allowing themselves to receive less nutrients so the overall amount of energy from the leaves and production of fruit and flowers is optimized. This is then is the cooperative versus competitive balance best for the plant, the same happens with the roots which compete with each other to find minerals and water to send upwards into the plant. At the Blue Indigo level this is assessed as a picture of what nutrients are around the plant so some branches receive more nutrients to grow into areas sensed to have more minerals while others would receive less if they appear to be in an infertile area. This cooperation allows the plant to get as much out of the soil as possible and not to grow faster than it estimates the nutrients can be transported, for example if it grows too fast and nutrients start to become scarce everywhere then it might slow its growth to see if this is from draining the soil of water faster than it can seep in. If not then it might slow its growth dramatically realizing it is exhausting a fertile area surrounded by barren land and the plant may become stunted. In the same way Blue Indigo cooperatives like trade unions can use resources more efficiently by not discarding weak and injured workers, but allowing them to recover or do easier jobs. If the competitive growth of the business starts to reduce profits such as in a trade war the unions involved may cooperate with each other to stop this destructive competition which preserves the jobs of their workers more as well as preventing the Violet management from destroying their own profits with destructive price discounts.

While the Violet management above them are at risk of falling from this destructive competition they tend to cooperate with each other rather than compete so they get hurt much less and this would be why the wealthy have recovered more than the lower classes in the Great Recession, because they were able to influence the government more to bail them out like social insurance. Blue Indigo in most economies was been weakened by attacks on trade unions and the belief in competition arising from game theory and Nash equilibriums so there is little government help for social insurance to help Blue people. For example instead of cooperating with people to reduce their mortgages, forgive debt and reduce payments destructive competition, predatory buyers were allowed to buy up the remains of people’s lost wealth cheaply. The idea is that competition will remove inefficiency for the middle and lower classes but cooperation will solve the problems for the upper classes. As an area recovers in poorer areas there is destructive competition where people undercut each other to work for lower wages, this causes wage deflation and higher profits for Violet companies but because there is little income they cannot afford to buy goods as an engine for growth. It also helps to maintain a liquidity trap because people don’t want to invest in areas where this competition causes such low consumer demand. This is like a plant with a strong Violet canopy and Indigo Violet branches, but a weakened Blue Indigo and Blue root system, it cannot create wealth efficiently for the upper part of the economy to refine because it cannot cooperate together enough to stopping tipping points and collapses whenever growth encounters an obstacle. For example a part of the Blue Indigo worker might still be employed and earning good money, this allows them to consume refined products made by Violet and Indigo Violet which helps the economy to recover, prices to rise and consequently wages to rise avoiding deflation and the liquidity trap. Too much competition from Blue workers causes these companies to demand wage reductions in Blue Indigo which causes wage deflation. This is also like with food banks which can be a Blue Indigo reserve in a recession and help people to not starve or become too weak to work. If too many people turn up at the food bank and this food is divided equally among them in a competitive way then each might not have enough food to survive and reach a tipping point of death or being too weak to work. In this way competition is inefficient here because it destroys lives that are more costly to rebuild by having new babies than keeping people alive. In another example small businesses start to revive but they must rely on a depressed economy to sell their goods to as well as workers to pay wages to. The money for this must come from somewhere, if there is deflation there is less money available each month so the businesses must compete with each other by cutting prices and by paying less wages, but this causes tipping points and collapses because some prices such as rents, goods made elsewhere, fuel, etc cannot drop so this increases the needed deflation in the locally made goods. Instead of this if the workers were Blue Indigo they would cooperate with each other by loaning money and standing together to not accept lower wages and this would remove the need for lower prices. Instead of many Blue workers getting starvation wages and Indigo Violet businesses getting low prices forcing them out of business some businesses would be doing well and some workers have surplus income to spend. This creates a recovery that can then spread because other people and businesses cannot destroy it by competition, this is like small plants reviving after a drought in humus of dead plants, this detritus is slowly assimilated without damaging the health of the growing plants and soon the whole area is usually covered in thriving plants.

In the meantime Blue Indigo strategies would be to provide enough unemployment insurance so people’s lives do not collapse through chaos, food stamps to support businesses, etc. The effects of this unemployment can lead to more collapses through their lives and people connected to them in business, in unpaid mortgages, children taken out of more expensive schools, tightening their belt by cutting back on expenses, eating out less, fewer holidays to cheaper destinations, and so on. These in turn trigger collapses through the economy in a multiplier effect such as restaurants closing or laying off staff, car yards doing the same, banks failing with unpaid loans, holiday destinations having a severe recession, art and collectibles markets collapsing, and soon. This is an opportunity for others to do well, these collapsed Biv parts become like humus and Violet people may cooperate to buy assets from bankrupt companies cheaply and Biv companies often see this as an opportunity to use this humus as fertilizer to grow quickly, particularly if collapses have brought down parts of the Violet canopy. Like gaps in a rainforest canopy this is a rare opportunity for a Biv business to grow and overshadow its competitors.

In this humus there are all different parts of Biv businesses that have collapsed, sometimes people get together and form new startups like new seeds sprouting. This is seen in Silicon Valley where companies constantly fail and this humus is used to rebuild new startups like a rapid chaotic evolution. This kind of evolution can be bad for Violet dominance because it might evolve a challenger to them, so they try and take over these businesses if successful or drive them out of business with stock shorting and monopolistic practices. Unemployment here then is highly competitive and dog eat dog, like in Orange Yellow where starving animals attack each other, try and steal each other’s kill, or make a meal of each other. Evolution is more accelerated in the Indigo Violet branches like in a plant where branches compete with each other, this not necessarily more efficient because each time a company collapses a lot of capital is wasted, workers have been trained in something that is no longer useful, buildings might stay empty waiting to be rented, new furniture is damaged when sold, and investors can become timid because of the experience because Indigo Violet hides and scatters when there are setbacks rather than cooperates with each other to find a solution. More successful plants can pass on their Indigo Violet genes as better branch strategies but just because one company manages to bankrupt another with competition doesn’t mean it has the best product overall, for example when two people play a game the best player may not win but be the one with the fewest flaws. One company may have a better product and be poorly run, they could be destroyed by another company with an inferior product but better accountants which is why competition is not always efficient. Two companies like this might make more money cooperating to form one good product with good financial oversight. This is what happens in Violet, these companies are bought out or sent bankrupt to buy their assets cheaply then these ideas are merged in a cooperative way to form a better product.

Violet then is trying to slow down this constant Indigo Violet mutation because it might also devolve from a successful strategy. For example a plant might evolve flowers suitable for some birds, but if it keeps evolving and experimenting such as changing the depth of its flower so the bird’s beak is no longer adapted to drink from it then it might be abandoned by those birds. Also if the plant varies too much then birds might not try and adapt to it, preferring a more dependable other flower. This may be why in fossils evolution seems to not give changes for long periods and then have sudden jumps with punctuated equilibrium488F[[485]](#endnote-485). Indigo Violet companies might come up with many variations of social networks for example, this competitiveness removes the incentive for social networks because each being so small people can’t find one that connects cooperatively to their friends. Only when they allowed cooperative connections to each other such as with Facebook, Twitter, Live Messenger, etc as well as programs that connected all social networks together in one interface were people able to grow large circles of friends. Because social networks are teams of people they can only grow through cooperation to form Violet versus Blue Indigo teams or sometimes Yellow versus Red Orange teams in poorer areas. People who are secretive and deceptive tend to be loners and don’t connect to others in social networks, instead they talk one on one in forums often using false names and trolling which is using deception for gain.

Parts of the ecosystem mutate rapidly in Red, Orange Yellow, Blue, and Indigo Violet to find a competitive advantage through cause and effect, chaos, growth and collapse, then when they find a successful strategy they can form a team with others and change to a Red Orange, Yellow, Blue Indigo and Violet statistical strategy where variations are errors which tend to die out making these connections more stable. For example a plant might grow flowers with slightly varying shapes would feed birds with varying shapes, these random variations give information to the plant which indicates that flowers of a certain size and shape are more popular and these evolve to be the new normal flower because more pollen from these flowers is taken by birds and insects. Other variations on the edge of the normal curve are less useful and produce less seeds from their pollen unless they match a genetic drift of other flowers insects or birds. Birds for example might be growing longer beaks to eat from a more common plant so abnormal variations like these might be more successful and the flowering plant changes slowly to this new shape. The birds feeding on these plants might be Red and competing with each other or they could be a Red Orange cooperative species like bees. The bees would also adapt by random variations in their size so that some succeed more than others and so they slowly change to adapt to these flowers which are randomly adapting to them. This is like a human family where the children can look slightly different from each other with different heights, eye color, stamina, intelligence, etc.

This random variation allows some of the children to be selected by mates from other families with random variations, the successful ones have more children and so humans evolve randomly in this way. For example if taller people are becoming more successful or are more attractive then in this random mix of genes in different children the taller ones have more children and humans grow taller on the average. When the bird feeding on the flower is Red it is competitive with others and uses chaos instead of randomness to evolve while the flower uses its random strategy. These birds can mutate in different ways and if one is successful then its numbers can grow quickly while the others might reach tipping points of starvation and die out, this can produce a sudden or punctuated equilibrium in their evolution rather than a gradual evolution in the Red Orange bees. Once a mutation dies out it is gone until it can mutate again, it may have been unlucky that its food source suddenly was reduced in a drought for example. If instead of this mutation dying out it was mixed randomly with other genes to be expressed over and over as in the Red Orange bees then it could have survived this random fluctuation in the weather with its team of bees and then perhaps the mutation would have been randomly adapted to by other plants. Random adaptions like this are however more stagnant compared to the fast growth and changes of chaotic Red.

Birds might respond to two kinds of flowers by evolving into two or more species perhaps as Darwin saw with finches on the Galapagos, this happens differently depending on whether the birds are Red Orange or Red. For example if birds spread over different islands with flowers that will diverge from each other genetically then the birds will change as happened with Darwin’s finches but also the flowers will change to adapt to the birds. These finches were probably Red so unsuccessful mutations probably died out chaotically because unsuccessful birds reached tipping points and either starved or flew back to another island. If they moved together as a Red Orange team however then natural variations in their flock would cause some birds to be more successful than others on each island, these would breed more so on each island the birds would change to suit the flowers. If the genes of these birds recurred for long enough even if unsuccessful then the flowers might adapt to the birds first in which case the islands would have similar flowers to each other and the birds would remain similar on each island. In Red Orange the team instinct allows these genes to survive longer if some are less successful because the birds still breed with each other and perpetuate them even though some of their offspring will continue to starve. In Red the birds are more loners and their genes less mixed with other birds of their species so some variations of these genes would more quickly die out, this has less birds starving each generation and allows the more successful birds to increase in numbers much faster because they would only be mating with others that were successful. However if the environment changed again then the Red birds would do much worse because their varied genes would have been lost in this chaotic specialization while the Red Orange birds would have kept more of the unsuccessful genes which now would have a chance to be used. The environment then can alter chaotically or randomly and so each strategy to adapt to these changes must be used, a chaotic strategy of Red would be disastrous in a randomly changing environment while a random strategy in a chaotic environment such as a permanent change in weather from a volcanic eruption would lead to stagnation because useless gene variations would still be expressed even though the environment was never going to change back so they would be useful.

A flower with two different kinds of bird feeding on it might tend to split into two different types over time, or the two birds might become more similar to each other. So once connections are made the flowers and the bees work as a team to evolve in a statistical way, with no connections that are good enough it proceeds in a chaotic way of trial and error. A random based statistical approach assumes there is no useful information to be gained so like a Monte Carlo approach to a business problem a random guess may give the right answer over time even if it guesses the same thing many times because it does not discard a variation even though it may have failed many times. This is not a disadvantage because it can then return to the optimum flower shape or beak shape even if it drifted away from it.

Chaos on the other hand presumes that once something has been tried and it failed, like a researcher in a laboratory tries a drug, then it is inefficient to try it again. For example in a fractal such as a Mandelbrot set a line never crosses over itself again like a random pattern would, this is a chaotic pattern. Success is then based on learning and wisdom rather than luck. A tree might have different branch strategies, mutating into different genes that die out if not successful while Violet might also activate different genes rather than trying to change them in its random search for the optimum flower, fruit and leaf. This is like in people where it has been found environment influences activate different genes, leading to different looking and acting people and even cancer. The random strategy of Violet and Blue Indigo can have for example ten different genes which encode for the beak of a bird plus other genes that can be activated by the environment. This creates random variations, if one is very successful over time then the other genes and gene activations might slowly be lost through natural selection. In chaos there might be fewer ways to change the beak shape and if one variation is bad then it might reach a tipping point where those birds die and that gene encoding for the beak is lost forever.

Plants and animals might evolve random activations of some genes leading to changes looking for optimum survival, if the environment changes then different genes activate or natural and sexual selection evolves life forms with different weightings in this random distribution. For example a family might have a variation in the talents and strength of its members, some might become farmers and miners and others go to higher education. Over time if education is more useful then similar families with more weighting to memory and intelligence intermarry and people seem to evolve more intelligence but there will be some family members who will only be able to be farmers and miners. If better food and more puzzles during childhood activate intelligence genes then this increase in mental abilities might show a rise in intelligence as technology and food quality improves but disappear in a decline of civilization or if the families move to a rural area. This can then be a random Blue Indigo versus Violet interaction where many different gene types are preserved in a team like community so different traits can be selected randomly and then humans or another animal or plant appear to luckily evolve to adapt to a changed environment.

At the same time chaotic evolution also occurs where less successful genes are discarded, often lost forever such as how people are becoming taller over thousands of years and genes for being short are lost. If being shorter is considered less attractive or a competitive disadvantage in battle then mutations in height would lead to increased survival, while some random gene activations may also increase height. If people are highly competitive and shortness is considered enough of a disadvantage then these genes will be lost because short people would only marry each other, tall people would not want them as much, and then the short people might do less well and have fewer children. Once an optimum height is reached those too tall or short might not be selected because people would not know for sure whether it was better to be tall or short or the team instinct was so strong that people were not discriminated against because of their height. People and animals may also be able to sense whether a potential mate has good genes or has inferior genes that have been better activated by its environment. If the latter then this may not make much difference in some environments, such as where abundant food lets people grow taller than they might otherwise be. If better genes are more important such as in an environment where food is sometimes poor than those with genes making taller people might be preferentially selected. In this way people and other animals might increase and decrease the speed of evolution by how they select a mate and also whether they select genes that always express or ones that only express in some environments.

Unemployment in Indigo Violet comes from chaos because when people compete with each other randomness is like a mistake. For example if two people are playing tennis then random variations in hitting the ball fall on an error curve rather then the ball going to exactly where a player wants it to go. Someone laid off might retrain to a new job skill rather than regarding this as a random variation of the market and wait to be rehired because they know their competitors will take any opportunity while they are waiting. This chaotic strategy is more likely to succeed, like with changing startups since they could still use their old training if it became useful again and if not then the retraining is a wise idea. Tipping points help some Indigo Violet workers at the expense of others, for example working at a company they might find out half the workforce will be laid off, this sets up strong competition between the average workers to be in the top 50 and keep their jobs. That 50 others lose their jobs doesn’t affect the survivors, they will then have less competition and a smaller workforce makes more layoffs less likely. Tipping points and chaos then benefit some workers if they survive but they will often see people close to their ability collapse. Trees in nature also do this, if they are fast growers or more hardy than other trees than disasters such as bushfires, droughts, and animals attacking them such as elephants knocking down trees actually benefits them because it eliminates the competition. This is different from in Violet where people work as a team, if one person loses their job then the team is weakened because there are fewer people to help and be helped by them.

This aspect of competition drives companies in Biv Capitalism to take extreme risks; if they are inferior to their competitors then risk taking may be their only hope as a trade war of attrition with other businesses must fail eventually. If they are stronger than other businesses then they are better off becoming Violet if they can to stop chaotic collapses and use this resilience to cause their competitors into tipping points and collapse. If they cannot become Violet then they still have a better chance because when other companies collapse their market share will increase suddenly, this happened with Morgan Stanley and Goldman Sachs when Bear Sterns and Lehman collapsed. This is why deregulation in the market tends to lead to collapses and fraud, companies win by surviving tipping points and using secrecy and deception, it is sometimes better to be in a risky environment than one with no way to succeed. The accountancy methods used in Lehman illustrate this489F[[486]](#endnote-486), the pressure to excel and not be fired leads to greater risks and creative accounting. Surviving these risks leads to large profits short term for the victors from this high leverage and the losers may succeed at another company, without this risk and the tipping points it makes it is harder to the competition collapse and grow to be a Violet monopoly. This increasing risk leads to unemployment for some, and a fast regrowth as the economy takes off again.

The Indigo marketplace represents coordination between the competition of Indigo Violet and the cooperation in Blue Indigo. Blue Indigo tends to look after their members like Violet does, usually through trade unions. An economic downturn can result in some being laid off, but usually with severance pay and the chance to be rehired as the economy improves. This is like the upper roots of a plant that preserve the best chance of a plant’s regrowth, for example a plant such as a turnip or potato has a large storage of nutrients underground so if its leaves and stalk are eaten or wither from the weather it has these stores to regrow from. These reserves are lacking in the Great Recession because Blue and Blue Indigo workers lost most of their savings with the stock market downturn and houses dropping to often be worth less than their mortgages. The traditional path out of a recession is through housing and construction, which is not available this time. Indigo Violet shoots of plants grow from this Blue Indigo storage; these might be repeatedly eaten by animals or crushed by moving objects such as animals or humus. The Blue Indigo plant or businesses tries to average these failures out with reserves, and also tries to send out Blue roots looking for nutrients, this can also be Blue Indigo pension funds who try to invest these funds randomly so that no chaotic events such as a recession will wipe out more than a small proportion of it. For example if a pension fund had invested only in financial shares then as they collapsed they brought each other down like dominoes and they would have lost much more than they did. Instead by diversifying they were cushioned against some of the collapses though the subprime bonds deceptively packaged as AAA depleted Blue Indigo stores of wealth more than in a normal recession. Violet uses a statistical strategy as well, using lots of flowers to increase the odds of pollination and lots of seeds or nuts so that some may succeed in germinating, this is random because the plant cannot know which seed or nut will sprout. The regrowth in an economy often comes from Violet in the same way as they make lots of random investments some of which come to fruition and the wasted investments help to restart the economy just as seeds and flower pollen are eaten by animals and birds. Indigo Violet agents compete against each other for this seed money which makes this more efficiently used.

The Indigo Stock Market helps to reduce unemployment by Indigo Violet brokers recommending stocks to these Blue Indigo funds and worker investors, this also helps to correct distortions in share and bond prices because the agents compete with each other to show a better track record, if they fail then they can reach tipping points and collapse because no one will want to use their investment advice. This Blue Indigo capital like with Violet feeds the Green shoots of the recovering economy and the humus of laid off workers, patents for sale, cheap office equipment and premises, business ideas that were brought down in the recession start to regenerate in a rapid competition to overshadow each other. With too much competition this growth phase can falter because each time a company starts to recover others see a market and rush in to undercut each other until there are no profits, this creates more wage and price deflation. Employment prospects in Blue Indigo depend on this revival in Indigo Violet since they need these entrepreneurs to provide work for them as well, a union can thrive by a divide and conquer strategy in getting higher wages from small Indigo Violet companies but they lose in the long run by driving them out of business. Union resources are limited and this cooperative wealth reserve will run out unless the economy recovers in time like a plant needs some Green shoots to succeed if it is to survive.

Violet can also have stored reserves in its leaves, this is like a tree that has been through a drought, was damaged by animals, was diseased, or the tree became frail from growing too fast, and now tries to reconnect with the reserves in the root system by reviving the transport of nutrients up and down the trunk. This can help to revive the Indigo Violet agents like Violet buying up unemployed people and bankrupt companies to grow downwards, they need to connect to Blue workers and Blue Indigo unions to make stable businesses because to succeed they must find raw materials to refine. Violet has talent and assets to market and this gives Indigo Violet agents something more to sell, as they try to connect them with Blue Indigo union workforces and Blue competitive workers with access to Green Blue minerals and produce.

The Blue workers act like Indigo Violet; they compete against each other and can cause tipping points from this. For example in a mine non-unionized Blue workers might get bonuses for more production and can push this working harder to dangerous levels and cause a mine collapse, or cause people to suffocate with gas or get lung disease from such as coal dust. Farmers competing with each other might make prices of vegetables drop too low because there is only a limited market for some vegetable; if more are grown people will usually not eat more of them because they are cheap. This can lead farmers to sometimes starve or lose their farms in droughts, in the Great Depression low prices for produce made many lose their farms. To compete with other farmers for this inelastic market they may overreach such as in buying more land, using more fertilizer and pesticides and can cause toxic levels of these in food as in India and China leading to a sudden ban of their produce and financial ruin.

Some say this contributed to the decline of the Roman Empire, the pressure to increase yields led to soil erosion and depletion when farming on slopes caused the topsoil to be lost and accumulate in the valleys, Libya went from being the breadbasket of the Empire to collapse of its farming leaving the Empire short of food. Gold mining booms in America created havoc with gold prices, the huge numbers attracted to this mining often led to deposits being quickly worked out and then massive unemployment. As the economy recovers new discoveries by Blue of mineral deposits, natural gas and oil can help to provide employment for others like towns springing upon the edges of new gold mines. Recent gas discoveries in America have had a similar effect490F[[487]](#endnote-487) as companies compete with each other to get as much gas as they can often ruining the water table with toxic chemicals.

Yellow predators can sometimes moderate their increase in numbers, if there is not enough food some animals will not fall pregnant, some offspring die or are killed by their parents, or predators may choose not to mate. This is like the Violet part of a plant moderating the waste of energy in winter by shedding leaves rather than using up Blue root resources without returning nutrients to them. Some predators might expand in numbers even as their Red prey decline, then some will starve with their numbers yo-yoing chaotically, these would be Orange Yellow as this gives a greater chance for evolution to make them stronger as well as their numbers filling a vacant niche in the food chain faster than their competitors as happens with Indigo Violet businesses, they may be able to challenge Yellow dominant predators with this faster growth like Indigo Violet businesses try to challenge the Violet companies overshadowing them. This is like survival of the fittest except while Yellow randomizes this evolution by variations in their offspring to stay the fittest; Orange Yellow accelerates evolution as well as devolution chaotically for its own benefit.

For example Red mice particularly near human crops might explode in numbers with a new harvest and then starve en masse when the food is exhausted, an Orange Yellow predator feeding on them would find this chaotic and if it tried to stabilize its birth rate too much to avoid this starvation then other competitive predators might soon outnumber them and take over their niche in the food chain. An animal that had part of its litter starve or be killed by the parents would be in a better position to take advantage of sudden increases in food because these offspring would then survive, this also happens with Red fish such as salmon where they lay many more eggs than survive so they can take advantage of occasional optimum breeding conditions.

Yellow systems such as dictatorships and organized crime act like Violet in an economic downturn in that they concentrate more wealth for themselves, taking this from Red defenseless people with robbery, loan sharking, forcing unemployed women into prostitution, etc. As Red people become poorer this is like Red animals such as gazelles becoming weaker and rarer so when attacked they are less able to defend themselves or escape. In the same way warlords and dictatorship become stronger and wealthier as in Uganda and Darfur before they fall or lose much of their power as their Orange Yellow fringe suddenly collapses around them. This wealth can go on running the army to continue to plunder Red, much as the Roman Empire’s armies did but if it runs short then the Roman armies were liable to suddenly mutiny and then it was much more expensive to reform the legions later. Just as lions get the energy from their kills to chase more prey later, Yellow armies need to plunder to pay their soldiers or they will refuse to fight. The lure of plunder causes these Orange Yellow soldiers to compete against each other, when a Red Orange city under siege falls then they compete with each other to grab as much plunder as they can from the now defenseless Red people. So this Orange Yellow employment is kept away from tipping points by having enough Red people to prey on, when this becomes problematic as it did many times for the Romans the army of Orange Yellow can turn against Yellow. This happened for example with Alexander the Great in India491F[[488]](#endnote-488).

Yellow Roman aristocrats and generals provided order in this plundering because as a team they got the lion’s share if a Red Orange city under siege surrenders instead of falling in the attack. If this Yellow leadership is lost such as with the death of Alexander the Great then the Orange Yellow army can become chaotic with competitive battles with various factions and lose the discipline to defeat Red Orange resistance. Tamerlane and Julius Caesar both had great successes followed by many setbacks with the Empire they left after they died; the armies became divided and lost the team like discipline needed to defeat the Red Orange teams of the enemy. Crony Capitalism around the Yellow dictator supports his strong man role such as with Suharto and Marcos and these generate wealth which can be lost in the chaos and collapse as the dictator falls, much like the collapse in Indigo Violet jobs and agents when Yellow companies fail or downsize. These Orange Yellow cronies often look for another dictator, if the country is a vassal state of an Empire then there will be pressure for the Yellow center to appoint another strong man. Succession in Yellow can be difficult as rivals are often driven off or killed by the victor but if they form a stable team then regular challenges for the leadership can be allowed such as in the Roman Empire with the appointment of news Caesars by the Yellow team of the Senate.

The collapse of Yellow can often come from greed such as with lions that overpopulate and kill too much Red prey. Often the Red people complain of over taxation such as with the Jews of the Roman Empire in Palestine, and develop Red Orange resistance against the Yellow armies. If Yellow is not strong enough they may win their freedom in this way, if the Yellow armies are disciplined as a team then the Red Orange resistance like with lions attacking buffaloes will be crushed and Red will have to scatter and go into hiding. This happened with the Jews as they were sent into exile for the rebellion against the Romans.

Orange Yellow governments and criminals are weaker in employing people, thieves like these tend to act alone or in small groups and are more prone to capture and chaotic collapse from Red Orange gangs and vigilantes. Orange Yellow Dictators can be like those left when the strong Yellow dictator such as Tamerlane or Alexander the Great dies. The removal of Yellow control leads to chaos and infighting, so Red Orange resistance starts to split up Empires and parts of a nation. If Red Orange is not strong such as where a Yellow dictator has been gone for a long time and Red Orange teams have themselves dissolved into Red competition and infighting then Red people might also be weak and disorganized. This is like the Hordes founded by Genghis Khan, after he died his descendants ruled with mixed success with little overt plundering over little Red Orange resistance until Yellow Tamerlane came along and took them over.

Orange generates employment in the police, army, and legal system in Roy countries. When influential this can grow in size giving many jobs with recruits usually from Red Orange vigilante types and Orange Yellow petty criminals who find being in the police easier than crime and more lucrative than being an informant. When Orange is strong this can result in a police state492F[[489]](#endnote-489) and a larger percentage of the population employed like this, which is like a strong food chain in nature and weaker animals at the Yellow top and Red bottom. Yellow alpha predators lose control of the evolution of animals when the middle of the food chain is too strong such as when wolves were all killed in Yellowstone Park. Red Orange animals such as elks then might be able beat the predators remaining and they might find it difficult to catch faster Red animals like deer. Each animal in the middle of the food chain can be like predator and prey, they feed on some animals and in return are fed on by others, for example hyenas might feed on warthogs and gazelles but they can be fed on by lions.

Animals like this can evolve like police in their territories where they protect weaker animals from other predators so they can feed on them exclusively much as shepherds do. Hyenas try to drive off lions and sometimes even attack and kill a lone one and other times the hyenas get eaten, so hyenas here are policing their territories when they can. These are like Orange Yellow petty criminals who run from Yellow criminals but if Yellow is weakened they turn them in or attack them themselves. If for example buffalo were too strong for hyenas then they would prefer to have hyenas around and be occasionally attacked rather than from the Yellow lions.

This domination by the Orange middle of the food chain can be unstable as Yellow evolves to take on Orange Yellow successfully such as wild dogs evolving to challenge foxes, made easier because Orange Yellow hunts secretively and singly or in small groups. Red will evolve to be faster, more deceptive and more secretive to reduce the chances of Red Orange predators catching them such as baboons eating flamingos. This pressure on both sides of the Orange alliance weakens the middle of the food chain causing it to wax and wane over time. This is like the Orange police losing against Yellow organized crime because their Orange Yellow informants no longer have access to them and Red Orange gangs fight Yellow directly instead of cooperating with the police. Red people in ghettoes start distrusting the Orange police and this allows Orange Yellow criminals to be more successful, this weakens the Orange ability to stop crime and over time the power of the Orange police state wanes. This weakness also occurs in Indigo where Violet and Blue become less interested in the Indigo market, Violet stops using Indigo Violet agents and negotiates directly with Blue Indigo, and Blue workers reject Blue Indigo unions to negotiate directly with Indigo Violet.

This waning of Orange power can lead to layoffs in the police and legal system, even to some jail closures and reduction of staff which can encourage more crime. Other colors can encourage this trend, Yellow organized crime can bribe the Roy government to reduce the size of the police force, Violet can offer campaign contributions to weaken Indigo safeguards as it did to revoke Glass Steagall and the uptick rule against short selling. This can lead to cyclical crime waves and financial fraud, also booms and busts fuelled by corruption suddenly succeeding and busting when the consumer is too impoverished from this corruption leading to a collapse of Yellow and Violet. This is often where the World Bank and IMF are called in, the Yellow Violet dominated government is so corrupt that the economy nears collapse and they can only get aid and loans if they agree to clear up this corruption and reduce their subsidy of Orange Yellow and Indigo Violet cronies. The weakening of Orange and Indigo generates employment from crime since more criminals are at work in Roy and more corporate fraud occurs in Biv. Protection against these crime waves can evolve with Red Orange locks and burglar alarms in Roy to fight more Orange Yellow and Yellow thieves taking advantage of lower police numbers. This can create more employment such as among locksmiths and boost the GNP but this plundering weakens the economy in the long term. Weaker Indigo leads to employment in Indigo Violet such as selling dubious securities based on ninja loans prior to the Great Recession, these loans made to unsuspecting Blue workers also increased house building employs more Blue workers temporarily raising the GNP but causing a chaotic collapse later. Reducing the power of Orange and Indigo can lead to a using up of savings and resources which appears to be economic activity until exhausted, then a recession follows.

Red Orange like Blue Indigo tries to maximize employment, even at the expense of productivity or people doing useful work at all. The Soviet Union boasted full employment but this was a Red Orange aspect where people as a team made work for each other at the expense of efficiency creating stagnation. Some Red workers did work harder as loners but secretly and deceptively such as communist party officials getting better homes and food rations and having deceptive propaganda celebrating their work. In a Yellow dictatorship or an area dominated by Yellow organized crime such as the mafia, Red Orange gangs and groups fight them or at least actively resist. They can be plundered by crime and taxes and resist this by violent retributions as Red Orange and hiding their money as Red. Jews for example learned to hide wealth under the Yellow Nazis since they developed little Red Orange resistance until Israel was formed, keeping wealth as Blue Indigo and Red Orange social insurance was essential to surviving predatory pogroms throughout their history and Nazi confiscation of assets. Red Orange cooperatives like this could loan money to each other to act as a social insurance against individuals being targeted, though this broke down as the persecution became greater. The two pronged strategy of secrecy and standing together proved a defense for a time against the Yellow Nazis and Orange Yellow Gestapo. The Gestapo would act secretly and deceptively to try and catch the Red Jews hiding such as with Ann Frank, much like foxes would hunt by sneaking up on prey. The Yellow Nazis would stand together as a team to attack more violently such as with Kristallnacht493F[[490]](#endnote-490).

Other minorities employ a similar strategy such as the Kurds494F[[491]](#endnote-491) in Iraq and Turkey. A Red Orange Kurdish resistance has evolved in Kurdistan and in Turkey to achieve autonomy, if attacked by an army they would use weapons they had hidden and can revert to Red terrorism. The Americans also acted as Red Orange defenders with a no fly zone495F[[492]](#endnote-492) and stopping Turkey from repressing them too much.

Roy welfare can become in effect a kind of Red Orange employment as protestors team up to make it too lucrative, sometimes people can stay on it long term even if they are capable of working and they draw a kind of salary. This can become like the Red Orange Soviet Union and some Western bureaucracies where people earn wages for doing little, sometimes even making more Red tape to keep jobs. Blue Indigo unions can also do this, making companies inefficient as they did at General Motors prior to the Great Recession. Violet management also does this by looking after each other as a team so companies can become top heavy with too many layers of management as well as featherbedding by unions. Welfare can then expand to more types of disability and laziness, this becomes similar to less productive workers in a union, but the same thing also occurs in Yellow government. Cronyism creates Yellow welfare where companies losing money are propped up by the state, sometimes paying huge bonuses to workers despite failures such as in the banking sector in the Great Recession. This cronyism can make Roy a huge burden on the Biv economy, and agencies such as the IMF have to reduce this in Yellow and Red Orange to help revive the economy. Some welfare might be cut, nationalized Yellow industries sold off, corruption in the Yellow government associated with contracts reduced and so on. Lobbyists of Orange Yellow cronies will try more corruption and campaign contributions to stop these cutbacks; they often make a good profit on the amount spent this way.

This will usually result in Yellow and Red Orange helping their members, the less popular and those on the edge of the normal curve as too different from the others will be cut off to some degree from government funds and this will reduce expenses. Red and Orange Yellow people are more loners, this will create more chaos for then, such as Red people dying from welfare cuts, disabled people losing needed aids such as wheelchairs and taxi subsidies, Orange Yellow may work in intelligence services or secret police that are downsized with these cutbacks. The more deceptive Red will survive by secretly doing some work and exaggerating the bad effects of welfare cutbacks to evoke sympathy, Orange Yellow will predict more economic disasters such as Lehman and Bear Stearns in the Great Recession. Red baiting will also help, Orange Yellow will claim a resurgence of Communism or terrorism such as Jihadists and Yellow will maintain more espionage services for this, as well as paying Orange Yellow not to defect to Red. Ultimately whoever has power gets the most money and influence, so Roy people need to be bribed or threatened by the ones who want to stay in power, whether it be Yellow or Red Orange.

Welfare also acts as part time employment, some people may be disabled or unemployed but still work occasionally, this is like Roy bureaucrats who may often be idle or making work to appear busy, but sometime are useful or even necessary. Welfare as well as inefficient bureaucracy then keeps a reserve of labor much like how Roy predators and prey spend time resting for when they need to attack and defend themselves. In Biv unemployment and disability insurance as well as being in a Blue Indigo union allows people to be idle as well as recover from injury, stress, sickness, occasional laziness, depression and so on because as a team color they tend to look after each other.

In Aperiomics variations in color codes can happen by external causes such as changes in the weather like droughts and floods, natural disasters like earthquakes and hurricanes, unbalanced colors such as new prey introduced without predators to control their numbers and so on. For example hippos can eat grass roots and all and so in a drought they can damage the plants enough to create a dustbowl while can take years to recover from.

There are also four kinds of variations in the color codes, Roy has chaos with Red and Orange Yellow which manifests as catastrophe theory and tipping points in Biv with Blue and Indigo Violet. The difference is that chaos represents a kind of movement, like Orange Yellow animals moving in a pattern looking for prey but not covering the same territory twice for enough time for prey to regenerate or escape to there. Random searches are less efficient because it would look at the same areas too soon for no purpose. In catastrophe theory these methodical plans like searching for prey can take too long and reach a tipping point where the predator starves like a tree that grows too high and breaks in a storm, buildings made too cheaply in a third world country that collapse in an earthquake, business that are short of capital in a recession and go bankrupt, and so on. In Roy Yellow and Red Orange have less need for chaotic movement because they work in teams, and because each doesn’t know exactly where the others are then random movement is best. Yellow lions would move randomly because this cannot be predicted and so there is a war of attrition against random moving herds such as buffalo.

Orange Yellow cheetahs might move chaotically and chase Red gazelles or cobs which move chaotically with a set of planned moves for escape. Trying to escape with random motions would be less efficient, this would be like the gazelles sometimes turning towards the cheetah or the cheetah sometimes turning away from the gazelle. Random motion of a pack of wolves attacking a herd of buffalo is where the wolves keep harrying the buffalo to see if one is sick or strays away from the herd. Neither knows how much stamina the other has, members of a herd move so some spend time in the center and on the flank to share the risk. A weak animal then is likely to be exposed only for a short time and young animals are guarded by the unpredictable random movements of the herd. The Yellow wolves cannot be sure what the buffalo will do next and attacking could lead to disaster for them, they try and tire out the buffalo but it is pure chance of they succeed. If one becomes isolated it cannot use speed and deception like Red does and the Yellow pack confuses it with unpredictable movements and attacks until it is exhausted. An Orange Yellow predator might create a fractal like search pattern and the prey a fractal like pattern of feeding because it doesn’t walk where the grass was just eaten, if these paths were viewed from above they would look like fractals because they would cover an area but rarely cross a previous trodden path or go in the same area twice. Yellow and Red Orange use a kind of random walk by contrast. In Biv there is random growth in Violet and Blue Indigo plants, because of the many leaves of Violet it is less important to plan where each goes because the influences of so many branches bending with the wind create random changes. For example leaves might overshadow each other randomly or wind and rain move them randomly against each other.

Blue Indigo grows randomly because it also benefits from teamwork such as trade unions, but Blue workers and roots of a tree look like fractals because they both tend to not go to where they had just been. In Roy the trail of where animals go could be plotted to look like a root or branch on their family tree which looks like a Biv tree. However this trail is not useful in Roy life because there is little fixed structure, instead animals move wherever they want. In Biv the shape of the family tree is the whole structure and the position of a member at a given time is less important, also the movement of goods and services in the Biv economy has to move in the tree shape so deliveries for example are repeatable on the same route. Roy animals do not need to remember tree shapes, Red just walks chaotically by avoiding where it ate recently to get fresh food and avoid being tracked by predators. Blue workers however are like roots of a tree and if for example they worked in a coalmine this root shape enables them to mine different seams efficiently. Blue Indigo workers behind them move to cover the logistical effort thoroughly in a random pattern.

Color codes then vary naturally according the probability and chaos, these variations are meant to be self-stabilizing and adaptive but can go too far, leading to improbable events and collapse. Financial and economic models try to predict these changes to reduce risk, find better investments, and foresee economic problems and use countermeasures against them. The problem is this Indigo Violet adaption to changing conditions is done by competing and deceptive individuals and small teams rather than by Violet teams so effects from a small group can cause damage to an economy like the butterfly effect496F[[493]](#endnote-493). For example credit default swaps made by AIG, too much lending by Icelandic banks prior to the Great Recession, securitizing no documentation loans, an expanding bubble in worldwide real estate, removal of the uptick rule against short selling, inadequate Reg Sho provisions against naked short selling, repeal of Glass Steagall allowing banks to speculate too much, the government pressuring banks to make loans to low income buyers, a speculative bubble in oil prices causing people to not be able to afford to drive their cars, each caused problems that led to the Great Recession.

This is like changes made to a stable ecosystem by the introduction of new Biv plants and Roy animals; they can create oscillations between color codes leading to chaos, collapse, and improbable and unforeseen changes. Such changes have been seen in nearly all ecosystems that have had contact with modern civilization, leading to record extinctions, contamination by unwanted life forms, and damage to the food chain for people. In the same way changes to the Roy and Biv economic systems cause advantages for one color code at the expense of others, if it goes too far there comes a counter reaction where rival colors evolve defenses to regain their former influence.

Economic theory has become more sophisticated in spotting these problems, and observations by people and companies such as reading financial newspapers, watching for current events that can affect personal finances such as intending interest rate or commodity price changes, natural disasters leading to shortages such as droughts and storms, changes in market prices and so on. However there is a limit to how much information people can absorb, also Red, Orange Yellow, Blue, and Indigo Violet hide information and use misdirection as a strategy for success so just because there is no information in the media that there are economic problem does not mean that deceptive tipping points are not approaching. This is like two kinds of games, chess is like Yellow versus Red Orange because the pieces work together as teams and no information is hidden from the players. In poker various amounts can be hidden depending on the type, in an extreme example no cards might be shown like a kind of Liar’s poker497F[[494]](#endnote-494) until the end so this maximizes the need to be secretive and deceptive in Red and Orange Yellow. In other variations of poker more cards are shown and this reduces the amount of secrecy and deception possible and makes the game less chaotic and more random where the probabilities of various hands winning become more important.

Any models based only on open information will fail because of this, for example in the Great Recession hidden dealing by Indigo Violet agents such as Bear Stearns and Lehman in lending irresponsibly to Blue workers unable to repay loans nearly brought down the American financial system. Both had no intention of letting other people and the government know what was going on because their strategy was based on secrecy and highly leverage competition. Only by assuming this secrecy can an economy be modeled accurately.

Each economic model in both Roy and Biv relies on some kind of probability forecasting, even if just the assumption that good times have become the norm such as in the Great Moderation. This reliance on statistical data in Red Orange, Yellow, Blue Indigo and Violet leads to laws and economic policy consistent with it, but each time people in the secretive and deceptive colors are working for their own interests, which are chaos over order, and growth and collapse instead of random economic activity. In Biv new industries will grow suddenly with few people knowing how they make money such as Enron, Bear Stearns, Salomon Brothers, the Tulip Bubble498F[[495]](#endnote-495), Lehman, Worldcom499F[[496]](#endnote-496), Bernie Madoff, Bernie Cornfeld and IOS500F[[497]](#endnote-497), and this growth often leads to tipping points and collapse. Afterward new rules and financial models are used, but the new secret strategies give rise to complacence and overreliance on statistical methods and new growth and collapse parts of the economy suddenly cause problems.

In Roy nations seem stable but secretly Red terrorists and Indigo Violet intelligence agencies battle each other, usually without their governments and the people knowing the full story. These attempts at creating chaos to topple the enemy by both sides can suddenly destabilize world affairs with assassinations of government officials and resistance leaders, terrorist attacks on an unsuspecting public, massacres by Orange Yellow troops and warlords, uncovering of spy rings, exposure of clandestine nuclear bomb research and building, corruption and blackmail of government officials, secret prisons, rendition, and so on. The assumption that the only activities in Roy are open and honest is rarely made by Orange police because they see criminals being deceptive in their work, the Indigo market also has much experience in secret deals such as insider trading, links between the media and short sellers, and corporate fraud. This results in an unstable alternation between Red Orange, Yellow, Blue Indigo and Violet being in control with their team instincts and open statistical economic information, then they can be usurped by Red, Orange Yellow, Blue and Indigo Violet. Laws based on statistical analysis usually hasten this alternation because they make policy which is then exploited and undermined to create chaos and catastrophes.

This can cause unemployment as people are laid off when Biv businesses collapse, also Roy can damage the Biv economy chaotically with Red terrorist attacks such as 9/11. Other economic problems such as inflation, bubbles, low growth and recessions can occur this way. The problems seem intractable in large part because the actual causes are kept secret or misinformation about them is used, usually the causes are clearer in retrospect though often it is still seen as a failure of statistical modeling rather than exposing the real culprits. The Great Depression is now regarded as having been caused by changes in the money supply but arguably rampant fraud, short selling out of control, pump and dump schemes, too much leverage in trading, inadequate deposits held by banks, tariffs causing international trade to collapse and a high concentration of wealth in the top one percent of the American population were all factors that were deliberately hidden and some of these occurred in the Great Recession. Today many of these are rife again but few were noticeable in the lead up to the Great Recession because of secrecy and deception surrounding them. After the Great Depression the New Deal was formed to deal with these secretive and deceptive influences, more openness was forced onto the market as well as social insurance such as pensions and unemployment benefit allowed randomness to protect against some chaotic influences. Once some of these safeguards were removed the Great Recession followed and countries that maintained more of these safeguards such as Canada with banking were less affected.

Inflation is another economic problem that has affected economies for thousands of years. Inflation is usually measured by the Consumer Price Index but before increased globalization it was usually accompanied by wage increases as well, often in a wage price spiral. This was often caused by Blue Indigo unions winning wage increases from Violet businesses, if the Unions won a pay increase then this was passed on as price increases which in turn eroded the advantage of the original wage increase. This was combated sometimes by wage and price controls as Blue Indigo versus Violet become subject to agreements not to increase wages and prices beyond certain limits. Often however this is an extension of Blue Indigo and Violet into government control, for example a right wing Violet government might try to hold down Blue Indigo wage increases and a Blue Indigo government price rises. The Indigo Violet and Blue black market tends to find a way around controls like these and the shortages they cause such as being paid extra in cash for worker or paying a premium to buy some goods. Another method tried was increasing interest rates; this was thought to restrain wage increases by creating unemployment because Blue Indigo unions would see that wage rises threatened the jobs of their members.

This is like pressure put on Blue Indigo workers to break ranks with each other and to not vote to strike in support of other unions. However this was not so effective because unionists often wanted even more money to pay for loans on which the interest rates had risen. Violet was also under some pressure in a softer economy but they also act as a team, the result was often the economy was damaged. This would lead to stagflation with a weak economy because the high interest rates would cause more collapses in Indigo Violet and Blue while the Violet and Blue Indigo parts of the economy had more reserves to survive them, this lack of competitiveness was made as then by the high interest rates. Often inflation was not subdued because wage demands still occurred from the unions though there was high unemployment in Blue workers. Milton Friedman next tried to moderate inflation by a lower growth in the money supply. Higher wages and prices led to a shortage of money in the economy, for example if wages and prices went up ten per cent and the money supply only went up five then these increases would cause a shortage of money elsewhere, having a contractionary effect.

The tendency then was to hold wage and price increases to the increase in the money supply, which also put pressure on Violet to alternate to Indigo Violet and compete for this money that was scarcer, and Blue Indigo to alternate more to Blue to compete for lower wages as another strategy. Like the construction of the atomic bomb made mutually assured destruction the outcome for hot war, a stable money supply meant team based negotiations between Violet and Blue Indigo were no longer as effective because many deals became zero or negative sum games in Roy because money became a scarce resource. People next turned to secretive and deceptive methods so that the perpetrators would not be blamed directly for making profits at other people’s expense. Competition between Indigo Violet and Blue brought prices and wages under control because instead of standing together for more money they competed against their former partners often ending up with less money to do the same job or sell the same goods. This is similar to in a Biv jungle where a faster growth in money supply was like a stronger pressure of sap in trees with no additional nutrients, when this sap pressure was reduced this would be like a tree growing larger and thicker but the sap like the purchasing power of the money is harder to find.

One problem is this increased pressure is hard to spread safely all over a plant just like in the roots and branches of the human blood supply, the veins and arteries. The potential exists for a ballooning of an artery from the pressure, stroke, hemorrhage, embolism, and so on. A similar situation happens with a scuba diver; the lower he goes the harder it is to distribute gases in the bloodstream evenly and safely. In a plant, or the human body this pressure does not normally increase after maturity but as a plant or animal grows it needs a higher blood and sap pressure. and raises blood pressure. Friedman’s idea of matching the money supply growth to the growth of GNP then is like blood pressure staying constant as an animal grows to maturity.

A plant or animal in nature can handle this pressure more precisely because it is in a single organism however an economy is highly uncoordinated and there is no way to know how this monetary pressure will affect different areas. Often this increased money pressure diffuses through the economy and if someone has more money to spend they tend to be willing to pay more for goods that then experience price inflation from this extra money. This is like a hydraulic effect seen in blood pressure and sap in trees however some areas of an economy are more rigid and this extra money may flow to other areas more and create a ballooning or bubble. For example if wages and prices are highly competitive or have fixed agreements such as union agreements then the money can flow to other areas and cause inflationary bubbles. This is different from speculative bubbles where the money pressure grows as more people want to invest in something that is going up in value such as real estate; of course they can only increase in value of more money goes into them. For example a balloon will inflate if more air is pumped into it because there is physically more air; this is like increasing the money supply and making inflationary bubbles in some areas. The balloon can also inflate from the air being heated; this is like the same amount of air moving more energetically and like money moving with more momentum into an investment to make a speculative bubble.

The excess of money in these speculative and inflationary bubbles means that money becomes devalued by being more common, and so its uses such as for buying homes, stocks, gold require more money and the prices of these assets go up. This glut of money in some areas can be temporary, if workers realize house prices are going up then they might demand higher wages reducing Violet profits giving them less money to invest, and the lack of speculative money reduces pressure in the housing sector. If this happens quickly then this is like a dam bursting where money flows outward into these new wages. For example an increase in the money supply might not increase wages quickly and so the money flows into an inflationary bubble which raises prices, then workers demand higher wages because of this and money must flow out in wages deflating the bubble. As money flows into these higher wages it becomes scarcer elsewhere and cash might become king with people not being able to afford to keep inflating bubbles. If these bubbles are Violet or Blue Indigo then they might inflate and deflate randomly according to movements in the money supply, for example in a wealthy Violet area there may always be a demand for upper class housing with a good position. If the money is confined to a sector of the economy such as the wealthy and does not trickle down to the middle class and poor then this money might create a permanent bubble or one that oscillates in size randomly and bursts chaotically only partially. In catastrophe theory approaching a tipping point can cause rapid oscillations so an overextended market can have rapid increases and declines due to profit taking. If the economy favors the wealthy then the continued influx of money might prevent tipping points being reached. So the stability of a bubble depends on whether it is Violet versus Blue Indigo and then undermined by the competition between Indigo Violet versus Blue bringing the prices down randomly at first then in a chaotic collapse. If it is an Indigo Violet bubble then competition may produce such efficiencies that companies grow quickly and produce apparent prosperity, this is often based on secrecy and deception and high leverage of money and so is vulnerable to tipping points. Over time this can get taken over by Violet versus Blue Indigo randomness, for example Blue workers after getting low wages in this new prosperity might unionize and push up wages, Violet companies start to form teams that collude with each other and take over some of the profits from Indigo Violet. This forces Indigo Violet toward tipping points and their businesses start collapsing with Blue workers losing their jobs which undermines the Violet and Blue Indigo sectors of the economy and causes them to collapse. Some of this may have occurred in the lead up to the Great Recession, Blue workers may have been speculating in housing to avoid tipping points because wages were so low and they thought that speculating could make up the difference. Many houses were bought and built because of deceptive loans, so this created a bubble rather than teams of investors believing honestly the market would rise.

When more money arrives in a new sector, such as oil futures in the Great Recession, it creates higher prices but as this price growth slows the money gets scared like Red animals because they see the situation as deceptive, it then goes elsewhere looking to preserve its value and bubbles burst behind it as they chaotically collapse. This is like Roy where Red animals move to food then hide and scatter when it is exhausted or run in fear from Orange Yellow predators. When money is scared like this it acts like gazelles, it needs to find investments to earn income but its money managers think the market is dangerous because money is now scarce. Former Indigo Violet agents that were trustworthy in the boom are now seen as predatory and liable to be deceptive to make money and avoid tipping points and collapse. This is a bear market where lone predators like Orange Yellow bears try and catch Red investors.

A high concentration of money in part of an economy can also be caused by loans, if credit is cheap and easy to get then the value of this money also goes down so prices of goods and labor go up in those areas. For example in the lead up to the Great Recession loaned money was easy to get and this resulted in a bubble on borrowed money in real estate and stock market speculation using Indigo Violet and Blue leverage, for example Blue workers borrowed deceptively with low deposits and Indigo Violet agents speculated in derivatives with low margins. Sometimes this money pressure continues because the tax structure and advantages of some sectors means they make more money at the expense of others and more money tends to flow in as income than go out in purchases, for example the wealth of the top ten percent of the population in most Western nations can sustain the high value of premium real estate, art, yachts, jewelry, antiques, etc.

Roy economies also have problems with inflation where the government gets more tax revenue each year from an inflating or bubble economy, especially if this moves people up a progressive tax scale. This money and wealth such as property tends to concentrate with whoever has the most power, this can be pork earmarks such as in the American budget, money spent on crony capitalists with socialist subsidies, higher wages for Red Orange government workers, and so on. A windfall of tax receipts from a speculative boom and bubble can create a bubble of funding for some projects which can contract as the bubbles in the economy collapse with plunging tax revenues, this reduction in wages and projects by the government can cause more tipping points and collapses. Roy bubbles also create a kind of inflation because those in power use this windfall to purchase more labor and goods for special projects which also pushes up their price in the Biv economy, government workers such as postal workers, railway workers, teachers, etc tend to be more unionized and can demand higher wages as well fuelling inflation. For example tax windfalls might be spent on highway and tunnel building but this competes with materials and labor in real estate construction and makes new homes more expensive. Prices of goods and labor can be held in check by people refusing to pay if prices rise, if they do then demand falls.

Violet people experienced a bubble prior to the great Depression and the Great Recession, this is like the flowering of a society, much of the wealth periodically goes into the fruits and flowers of society where the prices of high end homes go up, there is a boom in art prices, wages and other payments of CEOs skyrocket. When this slows there is rarely a collapse but a slow reversion to more reasonable prices because the team instinct of people helps them through leaner times, also though flowers and fruits whither they are needed again in the economy and so the elite are looked after to some degree. This tendency to bloom in Violet can cause wage price inflation there where Violet uses collusion and monopolies along with political influence to maintain tax breaks, allow access to tax havens, etc.

For example the art market can keep prices going up by Violet sellers colluding by praising each other’s work and artists holding back stock to restrict the supply, but if the market falters then dealers instead of supporting each other by buying stock that would sell too cheap start to compete with each other to maximize profits and prices can plummet chaotically. This represents the Indigo Violet phase of bubbles where agents compete with price and where tipping points and collapse are found. A bubble then is like a Violet seller’s market and when bursting is an Indigo Violet agent’s market because it must reconnect to real buyers which are found in Indigo Violet and Blue because they do not work as a team to support prices. This is similar to the pump and dump scam in the stock market, a team of Violet investors pumps money into certain stocks like a Biv tree pumping nutrients into the leaves, flowers and fruits and often part of the team in the media touts these stocks as great investments, journalists write stories that exaggerate dubious claims about them, etc. The market usually starts to break when money runs short in Violet and then the Indigo Violet agents have to connect the facts about the stock to the real market, this is like in a tree where the amount of nutrients the Blue roots find determines how many flowers and fruits it can produce. If there are not enough nutrients being found then Violet may continue for a time to grow fruits and flowers but if this continues then can be a sudden collapse as the Indigo Violet branches reset to a realistic amounts of nutrients for Violet.

This can also be from competing or cooperating bubbles that can happen in order, a bubble in the stock market might be followed by real estate as the market tanks, then as real estate tanked in the Great Recession the money inflated a bubble in oil prices, and then profited from buying up cheap properties and stocks as the economy recovered. This can be from Violet investment bank and Blue Indigo pension fund money moving from one bubble to the next trying to flow the money which in a bull market can move like a herd or team.

Wages and other payments to Violet can also form a bubble, bonuses to CEO’s rose to a peak prior to the Great Recession. Actors can command high prices as Violet talent in movies often because they connect so well to the fans that they can get large numbers to go and see their films like a team, they can also form a team in the Screen Actor’s Guild to keep movie prices up and not compete too much with other famous actor’s to bring down compensation for everyone. If too many want a particular role or script they might start competing against each other as Indigo Violet and then their compensation can fall, competing plans such as paying more for CGI effects and on location expenses and less for top actor can turn this bubble to Indigo Violet and a collapse in actor wages. Violet tends to understand bubbles because they are team players, and can often maintain prices as can collectors of antiques, rare coins, paintings and so on because they know that their investment depends on others in the team not trying to undercut the market. Money from Indigo Violet and Blue is more fickle because they are not team players, if the market turns they will sell and compete against each other, which gives rise to the saying that when the man in the street is buying you should be selling.

The Indigo market represents a balance between Indigo Violet competition and Blue Indigo cooperation. Blue Indigo tends to form a bubble as well, and so is responsible for half of wage price inflation. They try and inflate wage prices to above their real value by being team players and Indigo Violet agents try and prick this bubble by using scab labor, overseas labor such as outsourcing phone support for products, sourcing goods elsewhere in the global economy, and so on . If Blue Indigo unions are strong enough they can keep increasing wages, and this extra income can give them a kind of gilded age such as in America before Reagan where the middle class was doing better and the wealth of the top 1% of the population dipped from 23% to 9% of America’s assets. If there is Indigo Violet competition and Blue Indigo cooperation then wealth can increasingly go to Blue Indigo because they work as a team and prices are restrained so the extra wages are not eroded as much by inflation. This may produce more collapses in business from lack of profits and capital, eventually leading to high wages and unemployment as happens in Europe. This is like large plants that have relatively small flowers and fruits or seed such as grass. Much of the plant is safely below ground so damage to its leaves by overfeeding can be repaired.

A Blue Indigo bubble has more home ownership, household appliances, etc but without needing much finance because leverage is mainly used in Blue and Indigo Violet for competing. This is like a Violet bubble of speculation in luxuries and investments are usually for pensions and unemployment protection, people have more money and are prepared to spend it to get what they want, which allows people to charge higher prices while raising their own wages and get away with it. For example a Blue Indigo bubble might have people renovating their homes, this drives up the wages of builders as well as prices of doors, windows, tiles, etc. A speculative bubble can be propelled by a desire for profits if people are making good money and if they also borrow a lot then they can be chasing returns to pay interest on loans, usually this becomes a competition with others hence the saying of keeping up with the Joneses.

Violet can have a bubble of high prices and Blue Indigo not be able to match it with high wages, for example Violet collusion might raise their prices and Blue Indigo is fractured by Blue cut throat competition driving down wages. Violet has a wealth bubble and so prices of collectibles go up but they also have surplus cash they seek rents for and loan it to Blue Indigo. They being team players speculate with cheap money on such as homes while cooperating with each other to get access to these loans. Blue competition on wages keeps them poorer and limits their equity in homes which can make the bubble burst sooner, also they compete with each other to sell at lower prices when the market sours crashing prices faster. Instead of Violet unifying for support from the Roy government for bailouts and tax cuts Blue workers tend to have no unified demands and so got little or no bailout in the Great Recession. By contrast in Europe Blue Indigo cooperatives of farmers and miners keep their profits and wages high while trade unions also do well. They can have more political clout than the Violet wealthy and this keeps price inflation threatening to break out.

Yellow often has a gilded age where they employ many Violet artists; Tamerlane for example made Samarkand extremely wealthy by plundering in a vast Empire. This is like Yellow predators having a flowering where they do well enough to raise more offspring seasonally, some even only go on heat for a short time each year. This can also be cyclical since it is difficult in nature as well as in economics to prevent oscillations between color codes. Lions might see plenty of prey, have more cubs and then realize the glut of food was only temporary and some cubs starve because the mother must travel too far to find food for the cubs and they starve before she returns. A Biv economy can be conscious of fleeting opportunities for wealth and grow quickly in Indigo Violet versus Blue hoping to survive the inevitable collapse. This is like desert plants that must bloom quickly with even small amounts of rain, anticipating sometimes this will not be enough and lead to a quick collapse. Yellow dictators also must attack even with few advantages and work the percentages of luck as rivals will do the same.

A bubble can also form from Roy interactions, such as Yellow violence surrounded by Violet cronies. Attempts by Blue Indigo to unionize and demand a fairer share of the nation’s wealth can result in their demonization by Yellow rightist demagogues on television. Debates can become nasty and abusive, where Blue Indigo is smeared as being Red Orange socialist or Communist. This is the predatory aspect of Yellow where they try and shout down their opponents in debates, in a Roy society it defends its right to the lion’s share of the wealth and this keeps wealth concentrated in Yellow and Violet and the bubble inflated. Pundits like these can be referred to as attack dogs whether Yellow or Red Orange because they have support of a team of think tanks, wealthy donors, loyal listeners, etc. Yellow Empires as imperialism and colonialism operate this way, wealth comes back to the center of the Empire such as with Britain and the British Empire, the American Empire controlling South America with the Monroe Doctrine501F[[498]](#endnote-498), the Spanish Empire getting American gold, Belgium and the Congo, etc. This led to wealth and the ability to buy expensive Violet luxuries as well as pay high prices for real estate. These bubbles burst as their Empires shrank; the British Empire in particular was broken up by Red Orange communist agitation directed from Russia in a policy started by Lenin.

Similar techniques can maintain a Blue Indigo bubble, an attempted reform of quotas and price supports on farm produce can lead to violent rioting by farmers in Europe designed to intimidate. Strikes can be violent and aim for vulnerable areas such as Christmas shopping, rail and electricity to scare companies and governments into caving on demands. These can cause a wealth imbalance and a lack of capital in Yellow and Violet, hard to correct without similar Violet tactics and can approach a Roy civil war when resources become scarce such as with high taxes combined with large budget and trade deficits. If one side loses they can face a bursting of their wage and price bubbles, for example Violet can become Indigo Violet and Blue Indigo can become Blue. These battles can be moderated by the Orange police, laws might protect against libel in these wars of words, also stop people being assaulted in demonstrations, anonymous Red and Orange Yellow threats by phone and mail can be investigated, news might be required to present both points of view as Orange rather than bias toward the left or right and so on. This is like Biv vegetation in nature being regulated by the ratio of Yellow predator and Red prey, Red favors shorter plants to feed on and Yellow indirectly protects these plants from overfeeding. For Violet to win economically then they enlist Yellow attack dogs in the media or sometimes they might interview a deceptive Orange Yellow agent to promote false talking points and intimidate Red poor people, which in turn moderates Red Orange demands. Roy interactions are then a critical part of bubbles succeeding in Biv.

In Roy plunder rather than negotiation leads to bubbles and Inflation. Success in Yellow plundering leads to greater wealth which they can sell to buy Biv goods fuelling a bubble and higher prices. For example Yellow oligarchs in Russia amassed wealth by corruptly ripping off the Red Orange communist party as it collapsed into Red infighting breaking up the Soviet Union. Selling these assets and running stolen businesses fuelled bubbles by paying for status symbols such as prime real estate and a football club in other countries, without this money the prices of top Violet properties would have been less. Even in Roy there is a kind of inflation, under the Yellow Nazis plunder from Red Jews and subjugated nations led to wealth for Yellow Gauleiters who could then pay higher prices for Violet luxuries like wine, cigarettes, and steal or buy art. Since Red people did not have enough power to plunder Yellow this is like a lack of purchasing power, or of plundering power. Not having plundering power in Roy is like having low wages and this can decrease on both sides over time as war destroys wealth so this struggle is like inflation as both sides end up with less and so money must pay more for food made scarce from the war. This is like in Biv where Blue Indigo unions and Violet management negotiate with rising wages and prices because not continuing this hot negotiation leads to a lack of purchasing power. Both sides escalate their demands like warring nations escalating their war budgets. With a Roy war the shrinking wealth must be fought over, much like Red Orange buffalo fight against Yellow lions in a drought.

Protectionism is another issue in economics, whether to allow free trade or protect some local industries. Biv has no protectionism and Biv trees can cover the world wherever resources are sufficiently abundant for them to grow. Some countries may have Green Blue resources that are economical for Biv such as oil, coffee, minerals, food, etc. Blue workers in these countries mine and farm these but often there is not a sufficient Indigo market in that country. Violet people in other countries may improve this produce and resell it back to the Green Blue country, for example Taiwan and Japan may buy raw iron and sell back to them different grades of steel. Violet countries may have few natural resources and have to prosper by refining or improving other country’s minerals and produce so they may have evolved to be more right win in their politics. A Biv tree between countries selling raw materials to Japan would look like patches of Green Blue iron from Australia, copper from Chile, oil from Saudi Arabia, and rubber from Indonesia. On each Green Blue area of resources there would be Blue roots into them, these would be human workers and automated machinery such as container belts which take these resources and move them up the Biv tree and in return resources come down the Biv tree as money, wages, payment for minerals, food, parts for machinery and so on.

The next step is where workers and businesses form various kinds of cartels, trade unions, cooperatives and quotas which might be at sea ports where these minerals leave the country. Large warehouses at a port might receive minerals such as iron from many different mines, this allows a trade union to control wages and companies to prevent different mines competing with each other and lowering the price. Also different grades of ore can be mixed in together, much like the upper roots of a plant receive different kinds and qualities of nutrients from various roots and mix them together for transport up the tree trunk.

The Indigo market represents the trunk of the plant, this can be ships or planes that carry these minerals to Japan and trade routes might be thousands of miles long. The cost of this transport governs how long Indigo can be like how tall a tree might be able to grow. This is a limitation on globalization, a sudden rise in energy costs of fuel for ships or planes might make these Biv trees or vines uneconomical. This may have been one of the causes of the Great Recession because the bubble in oil prices occurred around the same time as a large drop in the amount of traded goods shipped around the world. This can be protected against with options to some degree, such as oil price futures. This represents Blue Indigo and Violet using options and probability to average out fluctuations in costs, business might be temporarily running at a loss with high oil prices but like a plant in a drought the trade structure is maintained until oil prices drop then if the companies cooperate together they raise their prices, get back the money they lost and avoid a chaotic collapse in recessions.

Blue and Indigo Violet trade is more prone to collapse from such factors, Blue workers in mines and Indigo Violet agents in Japan might not have the protection of Blue Indigo cooperatives and increases in fuel prices might send their businesses bankrupt because they can compete with each other by having low profit margins and high leverage. Bubbles can also play havoc with free trade because the inflated value of some assets, such as real estate, overvalued exchange rates, and a shortage of some commodities such as oil can give more profit from speculating than from real trade. This creates more demand for some goods which will suddenly reduce over a tipping point when the bubble bursts or deflates. For example the United States had a real estate bubble fuelled by cheap loans from China and Japan so people borrowed against their homes and bought more imports. Some mines produced more ore to make more cars, plasma televisions, and computers to meet this demand and so more ships were built to transport them, more oil sold to fuel the ships, and so on. One problem was that America was not adding value to these Biv trees as Violet because it was refining and improving these natural resources less and less as the manufacturing jobs were lost overseas to China. When the bubble burst these Biv trees would be uneconomical and split apart as Roy or wither temporarily. The decreased demand made ships redundant, created a temporary oil glut, caused layoffs in some mines, and collapses in industries that could not average out these losses with probability.

The Indigo transport routes move generally from Blue Indigo to Indigo Violet agents where the natural resources come ashore, for example in Japan. These agents either made direct deals with Blue workers and mines or had to deal with Blue Indigo unions and cooperatives, such as several mines contributing towards the building and upkeep of port facilities. They are also agents for large Violet businesses that with a network of cross ownership use teamwork to increase their profits and ride out downturns such as the Great Recession. Sometimes prices for cars exported from Japan might be low and so they run at reduced profits or even temporary losses to average out the bad times with the good, Indigo Violet companies cannot do this because their competitiveness reduces profits until they have no reserves to survive random fluctuations in the market. Some Indigo Violet agents might go bankrupt in these bad times and can be taken over by Violet. This teamwork can extend to the government, for example to hold down the exchange rate to make Japanese goods cheaper on the world market, to keep a current account surplus offshore to prevent currency appreciation, to prop up ailing banks that loaned money to Violet, and to construct protectionist barriers to prevent imports from hurting Violet businesses. Rather than just using protectionism as a shield it is intended to buy Violet time to create products as good as the imports, and export them. Protectionism can be like Roy in some ways where scarce resources in the world market cause some countries to protect themselves. This is because in Roy it is a negative sum game and free trade need not benefit everyone, rather it can be a war of attrition where one side will eventually lose its entire manufacturing base.

Blue Indigo can have similar influence with their governments, to protect unions and keep wages high, to prevent overseas companies from buying mines in the country, to help construct port and rail facilities for minerals, to give loans and aid to farmers hurt by an economic downturn, to levy extra taxes on foreign owned mines, to nationalize mines if too profitable for overseas companies, and so on. Blue Indigo producers and Violet manufacturers can become hybrids of business and the government in this way, using government funds as reserves to balance out the randomly bad times and to maintain the Biv trees between them. Violet can combine this with protectionism as Japan has and China increasingly does, Blue Indigo can also practice protection by lobbying for tariffs on Violet imports to protect its own Violet industries from dumping of goods at a loss to bankrupt them, to keep their own wages higher by7 keeping manufacturing jobs and making imports more expensive, and to give local Violet a chance to provide jobs at home by giving them time to improve their products to compete against imports. Tax policy can also help with a GST, the tax is not levied on exports but imports are taxed with it, it then acts as a kind of tariff.

Blue Indigo also protects itself against other Blue Indigo such as mines in other countries. They try to negotiate long term contracts with Violet nations such as Japan and China and might lower their prices of minerals. This is like Violet dumping of refined goods in a market, by making mines in other countries temporarily uneconomical they stop them being developed then raise prices later to average out profits overall. For example OPEC tries to keep prices low to prevent exploration of marginal oil deposits and development of expensive alternatives such as oil shale, electric cars, and conversion of coal into oil. The oil price bubble in the Great Recession was mainly caused by speculators and this led to alternatives to oil being subsidized by Violet western countries so even though Blue Indigo OPEC may not have intended this the bubble may hurt them in the long term. Violet business used its ties to the American government with General Motors and Chrysler to refinance them and prevent future oil price spikes cutting demand for cars.

As Violet sells its improvements on natural resources such as cars, planes, electronics, software, etc these go back down the Biv trees to compensate Blue and Blue Indigo for their resources. Car sales might be handled by Indigo Violet agents such as car yards locally, in the countries where the resources came from or elsewhere. Larger deals might be done directly with Blue Indigo such as fleet cars for a large government contract, offering finance of a government’s trade deficit in exchange for taking away their manufacturing base, doing some manufacturing locally to give jobs and reduce the trade deficit if any, doing quid pro quo deals where some imports are not impeded in the Violet country in exchange for Violet exports not having quotas or tariffs in the Blue Indigo country, reducing piracy of patents and music copyrights such as in China, political deals such as providing troops in a war such as Iraq or Afghanistan, and so on.

These goods go back down the Indigo trade routes by ship and air to pay for the resources and are also vulnerable to overextension in Indigo, contraction and collapse as happened in the Great Recession can be a mix of chaos and randomness with Indigo Violet competition and Blue Indigo cooperation. Blue Indigo companies import these goods and are connected with the Government so that Violet cannot easily hurt their businesses with price rises, shortages, dumping cheap goods, not honoring warranties, and so on. Blue workers then buy cars, electronics, etc either from local Indigo Violet agents such as Toyota and Honda dealers, or through Blue Indigo importers. These importers try to source goods from Indigo Violet overseas so Chinese companies for example might compete with each other for razor thin profits; the Blue Indigo importers through their ability to buy in bulk long term make most of the profits. For example though goods are made cheaply in China this is because of the intense Indigo Violet competition there where companies can collapse from high leverage, new technology as destructive innovation and small profits because each company tries to bankrupt its competition with low prices. Blue Indigo importers then try to maximize their profits by making Indigo Violet compete with each other like this, they can also cooperate with each other to blacklist Indigo Violet agents who try and bypass them. Violet manufacturers try to do the opposite, to source minerals and produce from Blue and make them compete against each other for the lowest prices and wages. Blue mines and farms that try and bypass Violet can get boycotted and bankrupted; Violet may pay more for resources temporarily from others to punish these Blue producers.

The World Trade Organization tries to mediate trade disputes and promote free trade. Often these negotiations are between Violet and Blue Indigo, which involves their governments but often free trade is promoted as highly competitive Blue and Indigo Violet business. These are harder to monitor, are more deceptive and more prone to tipping points and collapse and so can be more unstable in a recession. Competition between Indigo Violet agents keeps prices down and competition between Blue workers keeps wages down so this moderates inflation and allows products to evolve more quickly. In the Great Recession however businesses like this collapsed more easily and allowed Violet business to grow even bigger as they took over many of these collapsed businesses cheaply. Normally the low wages Blue workers get will inspire them to organize and cooperate more in Blue Indigo unions so the excessive Blue versus Indigo Violet trade will oscillate more to Blue Indigo versus Violet. Many believe the size of these Violet businesses is bad because they become too big to fail and get too much government support, but this is natural for Violet to use reserves to prevent failure and it is not uncommon for Violet companies to be over a hundred years old like the large Sequoia trees. Blue Indigo organizations such as trade unions also use government influence to raise wages, stop scab labor and maintain workplace safety. In a recession Blue Indigo can preserve jobs being shed too quickly by striking to prevent layoffs where Violet companies can make excessive profits by shedding staff and making the others work harder for fear of being laid off. A unionized economy has less chance of a collapse in the assets of the working class because of this cooperative strategy when resources become scarce, for example just after the Great Recession in America businesses often made huge profits by treating workers like Blue and making them compete against each other for lower wages and higher productivity. Instead in Europe sometimes unions have seats on the board of Biv companies and prevent too much profit going to CEO bonuses, as well as working with the business to improve productivity instead of being laid off at the first sign of recession, often with no severance pay.

Roy also has a form of protectionism similar to Biv. Yellow predators work together to ambush prey and make their chaotic path of escape less effective. Since a pride of lions can move randomly they can intersect a chaotic plan of escape at some point. Yellow also protects itself against Red Orange, who in the case of Buffalo might charge lions to get back a young buffalo. By coming to each other’s aid they prevent the herd from overcoming a single lion, this is like Blue Indigo union members protecting each other against low wages and Violet shareholders in a company using their combined investment and voting together as a team to protect themselves against excessive wage demands and Indigo Violet competition. Hyenas in a pack can beat a single lion so lions stay together to protect themselves. Red Orange also uses protectionism, protecting Red parts of a herd and in society Red Orange gangs protect Red family and friends, freedom fighters often protect their people from Yellow attacks such as death squads502F[[499]](#endnote-499).

Orange Yellow and Red animals don’t use protectionism with their numbers in a team but instead they protect themselves by stealth, deception and speed. They are like free trade in Indigo Violet and Blue, in nature there is a balance of both competitive and cooperative protectionist strategies. Attacking is also used as well as just protectionism, for example Orange Yellow foxes attack Red animals that survive by protecting themselves with secrecy and speed though if for example a small pack of hyenas tries to use secrecy to steal a Red buffalo calf then they might be attacked themselves and have to use protection by running and scattering.

In Biv an overreliance on team strategies in Violet and Blue Indigo opens up opportunities for competition and rapid evolution of products, the team colors may find it hard to protect themselves against this competition and deceptive strategies such as dumping of cheap products. If competitive Blue and Indigo Violet dominate then Blue Indigo can form more unions, donate to politicians and earn more money while Violet business might use political connections to send bankrupt and buy out Indigo companies by changes in the law. A balance between the two depends on the nature of the environment and what raw materials are available, some trees do better with a large Violet canopy which overshadows rivals from the sun’s rays and prevents them from growing. Others such as grass in a Savannah do better with small Indigo Violet stalks that grow quickly and are easily crushed and eaten by Red grazing animals, they then regrow quickly to compensate against tipping points from this fragility. Some plants such as carrots and turnips survive better with strong Blue Indigo upper root systems that store nutrients so as to average out good and poor returns from various Blue roots, this can enable it to survive better in droughts and areas of poor quality soil. Other plants use Blue roots to quickly find nutrients but store little of them, putting the nutrients into building more roots and getting to water and good soil before other plants do. Some weeds can be like this, if they are cut by a mower then the part underground can regenerate the weed faster than grass can grow sometimes. Grass often can spread its Violet leaves and overshadow the fast growing Indigo Violet leaves, crowding them out from getting sunlight.

Roy can also alternate with Biv in a marginal world market. Violet can be protectionist with its business, and form a kind of corporate socialism from this that can extend to other countries like the European Union or the special relationship with Britain and the United States. When there is a Yellow component in this government influence such as a Yellow Violet political party then they may become allies in a military attack which also can make profits for Violet business as was alleged to have happened in the occupation of Iraq. Japan prior to the attack on Pearl Harbor had colonies in China and Manchuria and formed a team with Germany and Italy in the Axis Powers to plunder Red countries but also to try and found a co-prosperity sphere503F[[500]](#endnote-500). Germany in its Yellow occupation of Europe also formed the beginnings of a common market just as Napoleon also tried to do. When America decided to make an oil embargo against Japan they thought their Empire and economy would be destroyed by a lack of oil and embarked on Yellow colonization to protect their Violet Empire. Germany also was a Violet nation before the Great War and Yellow Nazis came into power to protect the German people from Red Communism, what they saw as embargoes by World Jewry who had agreed to take Britain’s side in the great War in exchange for support for a homeland in Palestine, and other Germans who they believed had stabbed Germany in the back and made them lose the Great War. Protectionism here need not be defensive, Yellow lions kill hyenas to protect their young and territory, Yellow bank robbers can shoot police to protect their ill-gotten gains, America invaded Iraq partially to protect itself by intimidating other Arab nations into helping them against Al Qaeda.

Blue Indigo systems such as trade unions and cooperatives can also influence government policy such as left wing countries in Europe in the 1970s. If the government has a Red Orange component, like a center left Red Orange and Blue Indigo party then it can use military action and street demonstrations to serve Blue Indigo interests. Roosevelt in the 1930s was elected on a Blue Indigo platform to protect worker’s rights after the damage Violet did to America with the Great Depression. Higher wages, welfare such as pensions and other provisions of the New Deal reduced the concentration of wealth in Violet so the economy started to recover. This philosophy was sympathetic to some degree with Red Orange communism in Russia, because they were resisting Yellow invasion by the Nazis only a few years later, also they built a communist society by expelling, enslaving and killing Yellow and Violet capitalists. Yellow imperialism by Germany controlling Europe, Italy into Northern Africa, and Japan into Manchuria and China was seen as a threat to freedom of left wing Americans but some right wing Yellow and Violet people supported fascism against left wing immorality such as with the Vichy government in France, also some Violet American businesses traded with and supported the Nazis before America entered the war against them. After seeing the Great Depression caused in part by greedy Violet capitalists Roosevelt would have seen a similar situation with the Yellow Violet Axis powers enslaving other nations for their own enrichment. Philosophically then Blue and Blue Indigo values may have caused America to side with Blue Indigo Britain and Red Orange Russia in a defensive and protectionist strategy.

The World Trade Organization acts as Indigo to handle Violet versus Blue Indigo and Indigo Violet versus Blue trade. In Roy world organizations such as the League of Nations and afterwards the United Nations tried to police Yellow versus Red Orange and Orange Yellow versus Red conflicts, similar to and often intertwined with Biv economic reasons for war. In Biv countries trade with each other if resources are sufficiently abundant and then if they become scarce then trade tends to break down and countries can threaten each other, use trade sanctions, pre-emptively attack if a threat is detected, spy on each other looking for weapons of mass destruction or development of nuclear weapons, conduct sabotage in a country, take over part of a country, assassinate or depose the leadership whether democratic or otherwise, contribute money to political parties to influence an election, make military or economic threats to influence an election, invade and occupy a country, withdraw diplomatic personnel or deliver strongly worded diplomatic demands, mine or otherwise deny access to a country’s ports, and so on.

Just as there are two kinds of economic interactions there are two kinds of Roy conflicts with Red versus Orange Yellow and Red Orange versus Yellow. Large scale conflicts are Red Orange versus Yellow which are more easily regulated by the United Nations, Red versus Orange Yellow conflicts are less easily monitored because they are by nature secretive and deceptive. Many of these secretive wars are unpredictable, chaotic, highly deceptive in what both sides say and do and can often be associated with equally secretive Indigo Violet versus Blue trade and other economic problems. The Middle East can be like this where countries can be Roy enemies and still be trading with each other secretively and in a deniable way. Blue Palestinian workers can have Red suicide bombers among them, Indigo Violet employers can have Orange Yellow intelligence agency operatives among them looking for suspicious actions and contacts with known Red people504F[[501]](#endnote-501). The Biv economy can function like this while the secret Roy war continues along with it. Red China officially has disputes with Violet Taiwan, the Yellow nationalists were driven out of China by Red Orange Mao Tse Tung into exile in Taiwan. Secretly they do a lot of trade with each other and relatives even visit each other, then periodically there are secret military build ups by China to invade Taiwan.

Roy actions like these can come from Biv economic problems, but Roy can also influence Biv economics. A Yellow country might receive favorable trading terms for its Violet businesses by threatening military action. Red countries such as North Korea threatened to build more nuclear bombs and sell them unless trade sanctions were lifted and aid resumed. Red Blue China receives some favorable trade terms because it is believed the development of its Biv industries will lead to democracy so it is then able to get away with disputed actions such as its occupation of Tibet and threats against Taiwan.

Green and Green Blue are more difficult to define when they are about abstract knowledge rather than as physical objects such as land, farm produce, and wild animals in nature. Knowledge can be about the past such as history and priority, such as who invented something first, who wrote a story first, who had a trademark in business first, who wrote a scientific paper first, an actress protecting herself against people using her photos or impersonating her, who discovered a scientific principle first, and soon . In Biv an abundance of information makes it more efficient to allow some of it to be owned, instead of fighting over knowledge. If people squabble for example over who discovered a new chemical or invented a medical instrument then the energy wasted on arguing about it might have been better spent on both discovering something else.

In a marginal society Roy scarcity and Biv abundance are sometimes in areas close to each other, or as times change Roy becomes Biv in a given field of vice versa. One example is software patents where rights to software can be owned for twenty years in the United States but are in the public domain in Europe505F[[502]](#endnote-502). As software developed ideas in it seemed abundant and so a patent monopoly on some of them for twenty years helped companies invest more money in the software. This meant other companies could not copy the new and not obvious aspects of it and then sell cheaper software than those who invested the money to develop it, like generic medicines this would be a disincentive against expensive research in software programming. Since the ideas were new and not obvious to an average software programmer it was argued that the inventor was cleverer than others and he should rewarded for his efforts, otherwise he might not invent new software.

Other people thought that software ideas were not really inventions but a series of instructions to a computer and like a car manual containing instructions on how to fix a car it was just like a book and copyright should be sufficient protection. If someone wrote a new kind of romantic novel for example and this was patented then the author might prohibit other authors from writing a similar story. Such stories are scarce because there are only a few popular romantic stories, so people regard them as Roy to be fought over rather than be owned by someone. As people realized that software ideas were not as abundant as it seemed in the 1980s the support for software patents as Green Blue private property waned, for example if someone patented a kind of database or search engine algorithm this would be very lucrative and there are only a limited number of ways to program these. The idea of a Biv patent is that inventions are abundant and people should be able to cooperate with each other as Violet or Blue Indigo to have enough capital and manpower to do it justice, or compete with other inventions as Indigo Violet and Blue. Instead some inventions gave people power with scarce resources which is Roy and the ability to act like Yellow predators as patent trolls or Orange Yellow using submarine patents506F[[503]](#endnote-503). Buying up patents cheaply could enable people to sue for large amounts of money, starving Biv companies of capital in defending themselves. Violet talented people could then accumulate software patents and act as Yellow against other Violet companies like warring prides of lions over territory.

Patent laws were promoting too much cooperation as Violet and Blue Indigo and creating powerful monopolies; Violet companies would cross license their patents with each other and be able to exclude small businesses from competing. Patents are of four main types, to invent a refinement of something that is new and not obvious is like creating a new branch of science, medicine, technology, etc and so is Indigo Violet in competing with other patents. Violet can combine these new inventions together to create new products and grow as a monopolistic business; many companies in America accumulate large numbers of patents to cover their whole business. If necessary combining these patents can result in new inventions and can be patented which creates an overshadowing effect on smaller companies trying to build similar inventions. For example a Violet company might build an electronic device and buy up many related patents, research and patent new inventions to add to their portfolio to dissuade competitors from entering the market. An Indigo Violet business might develop one invention and compete with other Indigo Violet businesses to sell out to a larger Violet business because the market being so competitive means they cannot make enough money to develop it properly or the Violet companies restrict their idea’s scope too much with other patents. Indigo Violet can be a lone inventor or small startup and not being a team player has more problems in getting venture capital.

The Indigo marketplace in patents can also be a place for innovation, Blue Indigo patents are different to Indigo Violet ones and sometimes these can inspire or be combined together to make new inventions. For example Blue Indigo patents on new chemicals might be useful in building an Indigo Violet invention such as solar panels. The two kinds of inventions are quite different, new materials might inspire Indigo Violet inventors to compete against each other to make new solar panels and the search for new solar panel designs might cause Blue Indigo companies to try different chemical combinations. Indigo Violet is here making a new invention that is different so this is like a new branch of a tree while Blue Indigo is combining different chemicals into a new compound so this is like Blue roots combining into the tree trunk.

An invention between the two ideas might itself be patentable, the Indigo Violet invention without new materials would not work or be enabled, and the Blue Indigo new materials might not be patentable if they have no commercial use. The Indigo market can also be bypassed with Violet having bought out Indigo Violet solar panel technology from several companies combining these into a new invention, for example a solar panel plus a motor to move it to face the sun, a heat exchanger to make hot water, and mounting brackets to fit it onto a roof. Then they might deal with Blue Indigo companies directly for new materials for each component, new solar cell materials, new alloys for stronger brackets, new seals in the heat exchanger, etc. Indigo Violet solar panel makers might search for Blue inventors with a breakthrough in these materials before Blue Indigo gets it, for example a lone Blue inventor might secretly come up with a material that traps more light in a solar cell and would be combined with solar cell materials in Blue Indigo but they would not pay the Blue inventor much money for this. Instead the Blue inventor makes a deal with the Indigo Violet solar cell maker to use this in a more specialized product that could be bought out later by Violet bypassing the Blue Indigo manufacturer, who might then license this Blue material from Violet.

In Blue Indigo then two or more apparently related ideas were combined in a new and not obvious way to create something different, like combining different chemicals together to create a new drug or plastic. This is like Blue Indigo where Blue roots bring different nutrients which are combined into a more homogenous sap to send up the Indigo trunk of a tree. Blue workers on farms and in mines bring different materials into the Blue Indigo cooperative, so ideas for combining materials such as making cement, bread, tiles, and beer naturally evolved there. Some pharmaceutical companies are Blue Indigo and use a similar patent strategy to Violet. Blue Inventions are like Indigo Violet in that they are not team players, and might find new chemicals and ores, breed better crops by selecting different seeds to try, and then Blue Indigo might combine different seed varieties of a plant to make a seed with all the desirable properties.

The Indigo marketplace in patents is associated with the Orange police; patents can be used in Orange courts by predators to extract high royalties and by defendants to avoid paying. Roy organizations can also fight in court for the claims of Green Blue patents to be disallowed or restricted in scope, this is like the fences in Green Blue being pushed back to give more Green public knowledge. In Roy inventions would not be private property, but would be Green public property instead of Green Blue. Some former Communist countries such as Russia and China, as well as third world countries have less Biv infrastructure and so inventions and copyright become de facto Green public property. One way to protect inventions is with Blue versus Indigo Violet trade secrets which can also be deceptively engineered for example in software to make it harder to reverse engineer and see how an invention is assembled or a pharmaceutical is made. In a marginal society patents might be taken as Green by the Roy state for national defense such as in the United States. Other Roy nations such as the former Soviet Union would have new inventions become the property of the State; the inventor of the game Tetris for example received no compensation for it. A Yellow authoritarian government might also take ownership of inventions and copyright such as in Nazi Germany. Usually a simple invention would be public property in such countries because private ownership would be forbidden, so if someone invented a simple new mousetrap the state would either make it or people might make it themselves. A popular book, whether approved by the state or not might be freely available to download and the author might not be paid or have control over these copies. This becomes similar to software, music, games, and videos being pirated because in a Biv society knowledge can be owned but in Roy it cannot be owned but can be controlled by whoever is powerful enough. If the Orange police are weak in a secretive Internet then piracy may not be easily controlled.

Copyright is another way to classify knowledge as Green Blue, there must be a form of artistic expression507F[[504]](#endnote-504), for example people have tried to patent kinds of stories which would normally be invalid but in copyright many authors could use a similar story line if there are enough artistic changes. The Internet is mainly Roy because no one owns it though private Biv companies make parts for it such as fiber optic cables, routers, software such as browsers and email clients, and so on. It is like telephone or radio in some ways, the Roy state might technically own it radio frequencies as Green public property and it leases access to them according to the Roy public interest. This enables public information to flow along them, phone conversations are technically private but no one is likely to be able to copyright words in a conversation. Television broadcasts are also Roy in many ways, people often record shows to watch later and trade them with others with few attempts to prevent this as infringing on Green Blue private property.

In the international marginal society some parts of the world regard inventions and copyright as Roy, others as Biv and this can change according to areas within a country and over time. For example music piracy on the Internet might be illegal but it would depend on how popular the music was, or how Green Blue economical it was. Recordings of classical music of songs from the 1950s might become de facto Green because it would not be economical for a Biv society to prevent their piracy. Shops might still sell the music and online shops such as iTunes would sell downloads but the lost sales from piracy might not pay the costs of catching people with the Orange police or suing them in Indigo civil courts. Software varies widely in the world in levels of piracy, former Communist nations are still Roy in many ways and people often do not believe patents and copyright should exist. Much software is open source and does not have any patent and copyright protection.

Copyright in Biv usually has five types, as patents do. As with patents they vary according to competition versus cooperation. Indigo Violet writers may be talented but tend to work alone or in small groups, such as novel writers, musicians, software programmers, and writers of screenplays for movies. They usually do this in secret because someone could steal their idea or plot, they may also be deceptive by denying they are working on anything. This is like inventors, instead of using submarine patents to surprise other businesses they keep their work secret or copyright it secretly until they find a publisher who can protect it such as by printing a novel in a book. A software programmer would then rely on having kept many variations of their programs copyrighted so as to prosecute other programmers who try and copy their work. Songwriters and book authors do the same, copyrighting their work. Other artists often try and do similar songs or books to them if they become popular, like other inventors try and make a popular invention different enough to be outside the patent’s protection.

Violet accumulates copyrights as they do patents, a software company might have many related copyrights on software and develop new programs to fill in any gaps between them. This helps to stop smaller Indigo Violet programmers from growing too big so they might have to sell out to Violet or Violet might deliberately make cheap similar software to drive them out of business. Record companies and book publishers have a similar strategy, smaller Indigo Violet artists or agents find it hard to avoid copyright infringement especially if they are trying to imitate successful artists signed to Violet. Once many artists are signed to a Violet label infringements can be managed and they may deliberately have artists who are very similar to each other to fully explore all the combinations of their copyrights for profit, their careers might be guided so as to cover many different genres and make it hard for Indigo Violet independent record companies to compete. Violet publishers can also work with each other as do Violet movie studios, once they have a near monopoly in their field they can cooperate with other Violet businesses to shut out competition more completely. For example Violet might control larger scale media distribution and Indigo Violet movie makers, publishers, recording studios, record labels find it hard to offer the product widely to the public. By controlling the market this way Violet makes high profits and avoids competition reducing profits, this can also make an artistic industry stagnant if competition from independent movies and alternative music is blocked.

Blue Indigo can act as a cooperative for Blue musicians, artists, authors, and programmers to counteract Violet dominance. Some examples are the Songwriter’s Guild, the Screen Actors Guild, the National Writers Union, and so on. This enables artists to protect their copyright in music against larger Violet businesses such as Violet record companies, movie studios, book publishers, etc negotiating for higher royalties. Less Violet talented actors such as extras and small parts in movies are also protected in this way against the Violet movie studios, as the recent actors and writer’s strike508F[[505]](#endnote-505) showed. Blue artists sometimes go it alone and have problems with Violet large corporations so they may do business with independent and alternative record labels, smaller book publishers, web sites on the Internet that publish Roy music under the Creative Commons license509F[[506]](#endnote-506) such as Jamendo510F[[507]](#endnote-507), and independent movie makers. There is then two main kinds of copyright negotiation, Blue Indigo guilds negotiate with Violet studios for their members and Blue negotiates with small independent studios. The Indigo market is where Blue Indigo guilds negotiate with smaller independent studios.

Biv copyright is associated with Roy just as patents and other intellectual property are. Blue consumers are like Blue artists, solitary and deceptive and they might sometimes pirate copyrighted software, music and video just as they might buy cheaper counterfeit fashion goods. They are treated as Red thieves by Orange police enforcing Biv copyright, Yellow is associated with Violet and so Yellow goes after Red pirates with raids on shops with counterfeit software, factories that make counterfeit CDs of music, and internet peer to peer programs such as Bit torrent511F[[508]](#endnote-508). Once someone is caught pirating or counterfeiting then the Orange police and courts prosecute them. Controlling the problem can be like having Red mice raiding a Biv grain silo which contains produce to be sold, there can be so many that predators such as cats cannot slow their growth, so equally secretive and deceptive Orange Yellow companies try and catch these pirates by observing their downloads. Other punitive measures such as poison and traps can seem cruel and ineffective, these are like Orange Yellow internet detectives checking what music or videos people are sharing then catching them in the act or uploading infected software for people to share and to make them wary of pirated software. Another technique is to flood the peer to peer network with fake movies and music, this is like poisoned grain for Red mice in a grain silo. Another strategy is to convert the Red pirates back to Biv by making intellectual property cheaper and easier to purchase. Apple succeeded in this with iTunes, they found many former pirates were willing to rejoin the Biv system by downloading music online.

Intellectual property can also be Roy if it is criminal in some way such as obscenity in music lyrics, too much sex and violence in a movie or game for its classification, infectious software loading from a music CD, botnets512F[[509]](#endnote-509) set up using infected software or Trojans sent by email, dangerous inventions such as toxic pharmaceuticals and weapons, books with dangerous information such as how to build bombs or commit terrorist acts, misleading information such as dangerously incorrect instructions on fixing electrical appliances, and so on. To this extent the Biv intellectual property may become Green or public property in that the public interest outweighs the rights of the private owners.

Yellow Violet companies might be distributing games that are too violent, this is predatory business aimed at Blue workers, treating them as Red prey. In Blue Indigo there are consumer protection agencies which regulate the violence in games and these are also like Red Orange protecting Red people. Smaller Indigo Violet businesses might make online games cheaply that infringe these rules to avoid detection by Blue Indigo consumer groups and get to Blue consumers. These are like Orange Yellow predators such as foxes trying to catch weaker Red prey by stealth. If the market is small and hard to monitor Blue Indigo might not protest about it, but confine itself to regulating the larger Violet businesses. This is like where large Red Orange animals protect their own but smaller Red animals such as gazelles fend for themselves.

Ideas in Biv society can be regarded as seeds, if economical then they grow by sprouting Blue roots and Violet leaves. Ideas can come from a network of Violet talented people, just as flowers, fruits and seeds do. This is like a new idea, story, or invention which is a double win as all people involved benefit from the idea growing into a product. For example a new invention needs to attract resources for it to grow such as money for capital, minerals to build prototypes, employers to build it and improve it so each person in Biv contributing to its development makes a profit. Blue Indigo employees develop a union over time to safeguard their interests such as higher wages and workplace safety. Violet and Indigo Violet branches develop as management and specialized jobs such as engineers, lawyers, accountants, technical drawers, research and development scientists, and so on.

In Roy an idea is not economical for Biv society and grows according to who has the power to control and keep it. For example a cheap gun might be manufactured in a third world country and have Red and Red Orange developing it for insurgency513F[[510]](#endnote-510) and terrorism and want to stop Yellow and Orange Yellow from stealing and copying it. Some copies of it might be stolen then Yellow and Orange Yellow might develop it, if they improve it then Red might infiltrate their factories and steal a copy of it or Red Orange might make a violent attack to steal it. As there is more military escalation such as between Red Communists and Yellow Nazis in World War Two the two sides use state factories to improve the weapons and steal the other’s weapons to examine them. The weapons continue to evolve this way similar to how inventions evolve in Biv with negotiations between Violet and Blue Indigo except here ideas are exchanged through violent theft by those with the most power rather than negotiation by those with the most money. Copyrighted intellectual property in Biv would also evolve this way in Roy, open source software is Green so Red and Orange Yellow can secretly take improvements in code from each other, they may also try and hide their improvements by compiling it and adding large amounts of dummy code to make it harder to understand or crack. Red Orange and Yellow would form groups of programmers who each work on it as a team, though they would not necessarily help each other which is why there are different kinds of Linux514F[[511]](#endnote-511) for example. Some are Red Orange, being under attack from Yellow and Violet as a competitor to Violet software and are made by programmers working together more than by a commercial business. To defend themselves they use a hybrid Green and Green Blue license such as the GNU General Public License515F[[512]](#endnote-512), this makes clear the software is Green public property and because it has already been created and published it cannot become Green Blue either as a patent or copyright.

Police and the law courts work in Roy and Biv in a marginal society to balance and stabilize. These are like the trunks of Biv trees and the middle of the Roy food chain, acting as storage of food. Yellow predators such as lions, cheetahs, and tigers sometimes eat Red prey but they also eat smaller Indigo Violet predators such as hyenas, wild dogs, foxes, and jackals. This stabilizes the Roy system because if the middle of the food chain eats too much Red prey then their numbers can decline, this leaves smaller predators weak without food and Yellow succeeds in attacking them more, this reduces their numbers and gives Red time to recover. The Indigo trunk of a plant has a similar function, nutrients are stored here from the Blue roots and Violet leaves and this stabilizes the growth of a plant. For example if the roots find a large amount of minerals and water then they can store this in the Indigo trunk rather than having to use them up and grow at the wrong time of the year. Also the Violet leaves send energy and nutrients down the trunk, if this cannot be used by the roots it can be stored in the trunk to smooth out leaner times, such as winter when there is less sun.

Issues are dealt with by Orange and Indigo, depending on whether it is a Roy or Biv issue. This is more than just crime, societies have difficult problems that divide them and color codes typically take the position that represents their interest. Some media shows have a left wing point of view, such as Oprah Winfrey which centers on the Blue and Red victims and working class of society it can also have Blue Indigo and Red Orange aspect where people organize to fight back against violence, poverty, and discrimination. Jerry Springer516F[[513]](#endnote-513) had an Indigo role on social problems where he marketed the stories by just coordinating the two sides without rendering judgment during the show. Judge Judy517F[[514]](#endnote-514) is a Roy and Biv show, but she acts as a judge on criminal matters or more commonly civil matters such as the payment of money or returning property. Air America518F[[515]](#endnote-515) was a Red Orange radio program designed to counter Yellow right wing shows, its agenda was usually militant protesting against right wing dominance of politics. By definition media shows like this are Red Orange versus Yellow with Orange judges, and Blue Indigo versus Violet with Indigo coordinators depending on whether the issue has Biv abundant or Roy scarce resources. Red versus Orange Yellow and Blue versus Indigo Violet are solitary, secretive and deceptive and so their stories are often ignored or they lie about their real circumstances.

These people feel weak by comparison to team based color codes and they often reluctantly go on these shows. Their survival strategy is to hide and scatter; when that fails in for example being the victim of violence they might join Red Orange and Blue Indigo and become honest and highly visible on a television show. Sometimes they suffer reprisals from becoming visible this way and they end up not being protected or helped and resume their secretive strategy, battered wives are an example. Others remain deceptive on these shows, not being honest about their problems or actually misleading people for amusement or money such as some contestants on Jerry Springer. More serious Red Orange and Blue Indigo issues seemed to be discouraged on Jerry Springer, the guests were usually people who lived secretly for fear of ridicule, opened up only with difficulty, or actively appeared ridiculous. The result was surprising as most left wing shows ignored these color codes because they were not part of the Red Orange and Blue Indigo teams.

Right wing shows also have these two types, Yellow Violet shows are team based, open and honest as they use their power of numbers, influence with the government, occasional violence, angry outbursts, and money to get what they want much like Red Orange and Blue Indigo shows. Bill O’Reilly, Sean Hannity, Rush Limbaugh, and Glenn Beck often act this way. Orange Yellow and Indigo Violet are secretive and deceptive like Red and Blue, so they rarely appear on these shows unless they have been exposed and attacked by the left, they need to join team based colors because secrecy is not effective, or they want to employ misdirection and deception more overtly.

This is discouraged on many right wing shows as it is on Oprah Winfrey; deception when discovered undermines their credibility. Instead there are other talk radio shows where honesty is less important and often anonymous callers talk of left wing conspiracy theories, paranoia about Red Communism and terrorism, bizarre or deceptive accusations about the left such as Clinton ordering murders as president.

Finance shows on the right can also be programmed in these two ways. Yellow Violet battles against taxation on the wealthy, too much regulation which hampers their ability to do business and sometimes plunder the economy, and are against spending by the government on left wing Blue Indigo welfare rather than right wing Yellow Violet military for Empire building. Indigo Violet shows are more deceptive, false arguments for enriching the right are used here such as calling estate taxes on billionaires a death tax and implying it also affects corner store businesses, scare stories about Red terrorism designed to boost defense spending and enrich lobbyists behind it, exaggerating the national debt to pressure reductions in welfare and then reduce Violet taxes or increase Violet socialist subsidies from the government, promoting false supply side economics as an excuse for tax cuts for Yellow and Violet and then using the deficit to reduce Blue Indigo welfare, promoting trickle down economic theories which are like sap trickling down from leaves to the roots of a plant, and so on.

Other shows can be deliberately misleading for profit, short sellers might hide and use the media to plant false rumors to drive down the prices of companies and make a profit. They may also use a pump and dump strategy to plant false good stories about a stock they own, make profits as it goes up and then bad stories while shorting it as it goes down. This can also be for short term gain, a share might be praised on a show and Indigo Violet behind the series buy before the show is aired, then sell after the story makes the shares rise that day. These are like the Orange Yellow fox, using deception to catch its Red prey.

Some finance shows try to be a combination of honest and powerful as well as deceptive in their views, prior to the Great Recession some guests were Violet and honest about the economy. Peter Schieff519F[[516]](#endnote-516) and Nouriel Robini520F[[517]](#endnote-517) were correct. Indigo Violet guests were either deceptive about the economy for their own ends, competing with others and needed to keep the hype going to avoid collapse, were only watching their competitors instead of the danger signs in the economy or saw hype as a successful strategy that should continue to work. Indigo Violet is prone to tipping points and catastrophe, because they had the upper hand the Violet voice of caution and stability was largely ignored.

Media shows about international affairs also follow color codes, issues such as natural disasters, wars, famines, environmental problems such as global warming, arms sales and development, depletion of ecosystems such as low fish catches and deforestation, natural resources such as oil depletion, trade disputes, etc are discussed. Blue Indigo and Red Orange shows emphasize the plight of victims so these interview and film team based organizations such as aid appeals for Haiti, peace demonstrations against the war in Iraq, appeals for food aid in Darfur and calls for military intervention against the Yellow warlords there, documentaries on the depletion of tuna in the oceans, whale wars against Japanese whalers, American jobs being lost offshore leaving lower wage jobs, etc.

Perhaps tens of thousands of small Blue Indigo and Red Orange organizations, both international and for each country vie with each other for media exposure. Blue Indigo groups appeal for help in negotiating better terms with Violet groups as well as for direct aid for the members of their group. This is like how trade unions tend to support each other to form an even larger union, these groups often have this feeling of solidarity with other groups, and supporters of Blue Indigo and Red Orange groups in the media naturally tend to support more other groups as well. These groups are similar to those on Biv television, protecting and promoting help for gays and lesbians, the poor, dyslexics, preventing hate crimes, abortion rights, gay marriage, increasing welfare, universal health care, preventing racism and so on. In Roy countries these Red Orange groups are more militant and can include violence, demonstrations, and terrorist bombings against Yellow. They are also like Red Orange animals in nature that can hold their own against Yellow predators such as elephants, hippos, buffalo, whales, dolphins, and spiny anteaters. They can associate together, more of them in an area such as buffalo and elephants can allow them to support each other.

Red and Blue are also the subject of international media, however as in local news and talk shows their survival strategy depends on anonymity, camouflage, misdirection, and deception. Red people can be depicted as solitary poor people outside the Red Orange groups, they are rarely interviewed because they have no team promoting their interests and when they are they are under pressure to lie to protect themselves. For example complaining about Yellow warlords and corruption in aid agencies is dangerous outside of a protective Red Orange group, and these groups tend to help their members rather than Red people who won’t join them. Like shows such as Jerry Springer the incentives are to stay away from the media, and to deceive them for safety or to profit in some way. In Afghanistan Red people are likely to lie to Yellow soldiers as to whether they have seen the Taliban, to accuse a neighbor or rival to get even, to secretly plant bombs or IEDs, to make and break alliances often, etc. Red and Blue people will also cry that they are poor and that collateral damage killed members of their family, this deception increases their chances of survival by getting more aid. When there is a natural disaster Red and Blue people also have little incentive to talk to the media, complaining about looters can get them killed, exaggerating the destruction can get them more food. Blue workers can also portray themselves as underpaid, mistreated, and underage if it gives them some aid but often they would deny this to avoid reprisals from their employers.

In Roy Yellow groups are similar to Violet and there can be many criminal gangs, warlords, dictators, and the mafia who support each other while safeguarding their own territories. Arms sales might flow to these different groups, and they often sell to each other. Right wing organizations oppose Blue Indigo ones, and support gun rights, hunting, banning abortion, religious evangelism, propping up Yellow dictators, a confrontational approach to foreign policy, long jail terms for Red and Blue offenders such as drug addicts and short terms for white collar crime, many think tanks in America support these issues in part because of money coming from Violet businesses.

Right wing media can also be partially owned or controlled by these groups along with government influence just as Blue Indigo and Red Orange sometimes controls their own media. Generally for each kind of Blue Indigo group there is an opposing Violet one, according to each pair’s relative numbers, influence and money the laws are adjusted by this pressure. In Roy countries similar Yellow organizations have power according to the relative strength of their opposing Red Orange group. The media in Roy countries generally interviews both sides, if Yellow is more powerful as in many Arab countries then Red Orange issues are rarely discussed except to disparage them. In Communist countries Red Orange viewpoints are most reported by the media and Yellow groups are regarded as fascist, imperialist, and counter revolutionary.

Indigo Violet and Orange Yellow like Blue and Red are secretive and deceptive as well, so their stories are less heard in the international media. As in more local news they have little incentive to air their views as this makes them a target for the team based colors. For example a right wing candidate in America encounters a strong Blue Indigo opposition and will need to ally himself with Yellow and Violet organizations to withstand it. In a Roy country in the Middle East Orange Yellow people speaking out against Red Orange organizations such as Hamas or al Qaeda face the chance of being killed as an example to others. Usually they would pretend to be sympathetic just as some Red people in Afghanistan would pretend to like American soldiers there. When Indigo Violet thieves of food shipments are interviewed they would deny they did this, they might say attacks by them were self-inflicted by Red to get more aid.

Issues can be discussed in the media, town halls, between friends, and in political chambers, there usually arises a decision to do something about the issue or not. In Biv the Indigo market can decide, people can choose to do what they want and others can register a protest by boycotts, starting competing business, advertising the issue more widely and so on. For some issues such as medical care and selling food this can work reasonably well. Doctors have an association that accredits them and universities that prove they know medicine to an approved standard. Malpractice insurance penalizes bad doctors with high insurance premiums and compensates the patient for mistakes by the doctor. Food sales and preparation works less well, a restaurant with bad food might lose customers and be sued for any food poisoning they cause, but a lack of Roy food inspectors can lead to an epidemic such as with rats in the kitchen. This is because secretive and deceptive actions in Biv between Blue and Indigo Violet can lead to rapid growth and collapse, as in an epidemic.

Blue Indigo and Violet organizations are normally more transparent and honest about food preparation than a small restaurant that can hide health infractions more easily. The idea of a food inspector is like the Orange police, cooking in unsanitary conditions is often criminalized as Roy because people can die from it. Similar problems occur with growing foods, a Blue farmer might try and get away with banned insecticides because they increase profits. If there is little Blue Indigo cooperation between them then they might overproduce to maximize profits at the expense of one another, they might then need to use toxic amounts of pesticides to get a better crop to avoid collapse and then deceptively sell this to an Indigo Violet agent. If they sell contaminated food to a Blue Indigo cooperative this is usually exposed because they rely on openness and honesty. This excess competition can cause prices of produce to drop from a glut of food available and so to avoid bankruptcy those at a disadvantage such as having poorer soil might use banned insecticides to survive. The market in Indigo Violet and Blue naturally pushes both to grow to survive, and this usually leads to tipping points and some going broke in a shakeout in the industry. Products from China show a similar trend, some companies are open and honest, others deceptive in their products making counterfeits of popular brands, and fake products such as USB sticks which misrepresent the amount of memory they have.

Indigo courts have a limited ability to remedy Roy problems such as with food poisoning, it may be impossible to prove the food came from a particular restaurant but an Orange food inspector reduces the incidence of food poisoning efficiently by stopping the problem when it is still small. An Orange Yellow inspector knows the deceptive tricks and learns over time how restaurants hide health risks such as reusing take away food from previous days, not cleaning surfaces correctly and so on. The Red Orange aspect of food inspectors works well with larger restaurants, as a team the inspectors are strong enough to handle the political clout of Violet franchises of fast food for example, who might protest that costs of sanitation are too high and cost jobs.

Other Biv inspectors also act as Orange to some degree, in medical malpractice cases the inspectors can require expensive medical equipment to be used, a clean doctor’s surgery and consultation rooms, a paper trail of what doctors and patients discussed, a second opinion from another doctor in some cases, that specialists be consulted in some cases and so on. Significant deviations from this can have Biv solutions such as insurance companies refusing to insure the doctor or raising their premiums, and the doctor’s association deregistering him. Additionally Roy criminal charges can be imposed by Orange inspectors, otherwise financial penalties to a wealthy doctor may not be sufficient to dissuade poor medical practices. Other problems occur when pharmaceutical companies urge doctors to overprescribe some drugs for financial compensation, or the doctor may order too many tests from a hospital he has a financial interest in. Medicare in America is a hybrid of Roy and Biv, elderly patients might have taxes taken out of their pay for unemployment insurance and pensions like a form of insurance, there are also Biv private health insurers. Some Indigo Violet doctors have been convicted of Medicare fraud, using secrecy and deception by overcharging for services not actually performed for a patient. Many of the penalties in Biv are too weak to stop these abuses so pharmaceutical companies may make more money influencing doctors to oversubscribe drugs than they get fined.

Building inspectors can be another kind of Roy police, the Green public interest in many societies includes town planning so inspectors prevent shoddy workmanship being done by Orange Yellow deceptive builders for Red consumers. This is similar to the role of food inspectors where a deceptively constructed building might not have problems for years later when a builder might have gone out of business. Indigo market solutions don’t work well here because Orange Yellow predatory building practices are not a market process just as cats hunting mice are not the Biv free market in action. Biv stock market and futures market regulation has the same problem, Indigo coordination can end up coordinating the predatory Violet and Yellow naked short sellers, market manipulators, pump and dump scammers, and Ponzi schemers with the Red and Blue prey or gullible investor.

Banks can also act as Orange police because they Indigo coordinate different parts of the Biv economy, from Blue workers and Blue Indigo trade unions and cooperatives to Indigo Violet agents and Violet companies all can have loans and savings accounts with the bank. Predatory and deceptive transactions can come from within the bank such as earnings fraud by the bank’s accountants and management, embezzling by tellers, cleaning staff helping to plan a robbery, customers bouncing checks, getting loans with false income details, and so on. The bank’s job is to Indigo coordinate transactions between many different groups such as wages from management paid to workers but it must also Orange police these transactions both from their own initiative and also from Roy government law.

Insurance companies need to act as Indigo to coordinate payouts on insurance claims with the income from people paying for insurance but they also need to act as Orange police to monitor insurance fraud such as false claims of injuries by people, and deliberate damage such as someone setting fire to their home or business to collect the insurance money. Park rangers can act as Orange police in Roy public parks stopping people lighting dangerous fires, feeding animals such as bears and endangering themselves, littering, damaging public buildings such as in camp sites, and so on.

Usually though the Orange police and law courts do most policing, so the average policeman must know laws covering many different Roy issues. Laws over time become more and more detailed, changing in their decisions and severity of punishments according to the clout and arguments of the left and right in Roy and Biv. This is like how Orange animals and Indigo parts of plants change in nature, the middle of the Roy food chain changes according to how strong Yellow predators are and how fast and secretive Red prey are. If Yellow is stronger such as in an area with many lions then this exerts pressure on the Orange part of the food chain and more animals are prey to Yellow rather than being dominant predators themselves. For example many lions will affect the numbers of wild dogs, jackals and hyenas in Africa, when they are eaten by Yellow the faster ones only might survive as Red by hiding from the lions or the strongest pack might survive, such as a group of hyenas as Red Orange.

So if Yellow is strong such as a right wing dictatorships or an area dominated by organized crime then the legal system may form more Red Orange laws such as Rico521F[[518]](#endnote-518) to fight the mafia, or hiding such as with witness protection522F[[519]](#endnote-519) may be the only option. The strength of Yellow and Orange Yellow usually dictates whether the legal system and police can form a defense as Red Orange or become completely Orange Yellow. Red Orange would use a statistical approach like Yellow, the loss of some members of the police and legal system would not bring the team based system down like in Italy where regular assassinations and bribing of judges and police fails to break their resistance to the mafia.

If Red is superior, such as gazelles being too fast or too well camouflaged, then this is like a strong Communist or terrorist presence such as Jihadists being impossible to control. They might hide in a civilian community, be deceptive such as with suicide bombers and increase in numbers like gazelles breeding quickly. In this case the police and laws would shift to the right to compensate, Orange Yellow laws would justify secret prisons, torture, equally deceptive tactics such as undercover agents, restrictions on the right of citizens to privacy such as monitoring communications and so on. If Red becomes too hard to catch the policing by Orange Yellow will collapse and the legal system would become completely dominated by Red such as in Communist or Al Qaeda controlled areas.

Even in minor issues the laws of a country will generally move to the left or right to avoid both sides attacking them, Orange and Indigo can be weakened in this case. If so then the Roy and Biv systems can become unstable if Yellow attacks Red directly like the Nazis attacking the Communists in World War Two and if Indigo breaks down then Violet management and Blue workers cannot coordinate with each other and the Economy becomes unstable such as with strikes, unemployment, unused industrial capacity, etc. With a controversial issue such as abortion then Indigo and Violet have a difficult balancing act and often people take the law into their own hands in Roy or make backyard abortions in Biv.

Usually this balance is found by establishing a time in pregnancy after which abortions become illegal depending on extenuating circumstances such as rape, incest, a cooling off period, counseling against abortion, and potential harm to the mother’s health. Generally Yellow and Violet are more against abortion and for the death penalty for criminals, and Red and Blue are for abortion and against the death penalty. Orange Yellow is more pro-life and Red Orange pro-choice but are allied with the Orange police, Indigo Violet is pro-life and Blue Indigo pro-choice and allied with the Indigo market. Where abortion is legal within certain time limits and circumstances it becomes Biv and market based solutions provide an efficient way to coordinate the supply of Violet medical services with Blue customers. Since Violet often objects to abortion some doctors and hospitals refuse to be involved with it, some chemists even refuse to supply contraceptives.

Blue Indigo associations protecting the right for abortions such as NARAL face off against Violet organizations such as National Right to Life, these may protest the restrictions on abortion as being too harsh or lenient and have allied groups as well as influence in the Biv side of government to exert economic pressure such as boycotting private hospitals that perform or don’t perform abortions. Pressure on politicians can be severe from both sides to restrict abortion more which makes it more Roy or restrict it less which makes it more Biv. These influences on the politician’s vote can be strong, for example they can threaten to donate campaign funds to their rivals in the next election, find a better candidate to try and unseat them and so on. The situation is made more complicated by there being hundreds of similar issues, each with groups defending their side of them, as well as Indigo Violet and Blue players who work in secrecy and deception against each other, whether to change the laws or to do business such as perform abortions under the radar and negotiate a market price for them. Violet and Blue Indigo politicians can generally calculate the power of these pressure groups statistically such as with opinion polls which assume voters are independent of each other and are random. Blue versus Indigo Violet pressure from voters is more chaotic, they might be individuals that use secrecy and deception so they can give a false view of an issue. In response Blue and Indigo Violet politicians have less of a team protecting them and can collapse or grow quickly in popularity, often with deceptive campaign promises.

Blue and Red people are solitary and competitive with each other, having a secret abortion can allow them to avoid disapproval from the community whether the reasons for it are considered acceptable or not. They want abortion to be their own decision and society to have no say in it, they may even want to have an abortion and then condemn others who have them openly. This is like in nature where Red prey such as some birds are free to select their mates but in a Red Orange herd sometimes dominant males mean they have no choice in the matter. Peer pressure can persuade either way, if abortion cannot be hidden then this pressure tends to make all in the team be for or against abortion, or the team is split apart. So Blue Indigo has peer pressure to support abortions because Blue women generally support it.

Violet has a group mentality as well and there is peer pressure for them all to agree, a Violet doctor might expose someone in Indigo Violet trying to have a secret abortion. They generally oppose Blue Indigo though with hundreds of similar issues each team has pressures on them which may divide them such as contraceptives, minimum wage, health insurance, euthanasia, prison term length and execution of some criminals, gun control, defense and current wars, and so on. Depending on the relative importance of the issue abortion may lose influence as it does in American elections compared to other issues. Also Violet has an Indigo Violet secretive fringe and some members might secretly have abortions and use contraceptives, this can reduce Violet’s motivation to end these facilities for their own use.

Violet in plants is where flowers pollinate and seeds germinate, the survival strategy is for all seeds to have a chance to survive and for survival of the fittest to weed out those unfit. Like branches on a tree each has a chance to grow from the trunk providing it is not broken or eaten by predators, doesn’t become diseased or infected with parasites, and not overshadowed by a rival tree. By contrast Blue roots also compete with each other to succeed in finding nutrients like farmers and miners do, but the roots converge to the trunk instead of going outwards from it. The strategy is then the opposite, instead of each branch growing up to succeed or each seed having a chance to grow like babies where abortion is illegal Blue people succeed according to how well they fit into the Blue Indigo system. Having a baby at the wrong time can wreck a family’s finances; the wrong father may not fit into the workplace strategy for survival. For example a family of coal miners might have increased pressure to abort a baby of their daughters from a local farmer because they need to have children to become miners to look after them in their old age, a child unsuited to either mining or farming could be a financial catastrophe. Indigo Violet represents new talent and branches of science and they can always support themselves if they find a way to refine Green Blue resources from Blue workers. For Blue to have offspring unsuited to current jobs such as farming or mining they would need to find different crops to grow or new minerals, far more difficult than new ideas.

In the Roy side of issues such as abortion the Orange police and law courts face similar pressure from both sides to change the laws to the left or right wing politically. Often the Roy part of the abortion debate refers to late term abortions such as after the first trimester and where there are no extenuating circumstances such as rape. In Roy political power decides how the laws change and if Red Orange women are militant enough then they may get the law changed their way, if not then the Yellow right may prevail. The Orange law courts must find the balance of power to change decisions or follow precedent or the government might change the laws and the courts abide by them. In some cases the sentences are determined by the Orange court, a change in public opinion for example may result in criminals such as rapists getting longer sentences.

Red and Orange Yellow are also powerful but this comes from their ability to hide, dissemble, lie, misdirect and misrepresent. The eminence grise523F[[520]](#endnote-520) and bureaucracy can be an example of this where behind the scenes they can control things, like the saying of the real power behind the throne. Abortions might go on secretly in Red, Orange Yellow secret police might ferret out doctors doing this and secretly arrest them, be bribed by them or have them dealt with by their medical association.

Changes in laws might need massive demonstrations as happened in Iran, China in Tiananmen Square, with the breakup of the Soviet Union, the Soviet Union letting go of the Warsaw Pact countries, the breakup of Yugoslavia, the rebellion in Chechnya, and so on. Usually the Roy government defuses these Red Orange and Yellow protests with concessions, if ideologically unable to do so such as with Communist countries then the regime may collapse under the people power. Powerful groups in a Roy society can influence its laws as well.

Organized crime is generally Yellow with an Orange Yellow fringe of cronies, it can use stolen money and goods to corrupt the police and the courts, bribe politicians, it can also intimidate the police and courts with threats of assassination and use political influence to demote and transfer police and judges that target organized crime. Organized crime in a marginal society can become strongly associated with normal Biv business. Yellow can corrupt politicians for rezoning of land to resell at a profit or build apartments, factories, etc. Sometimes they create fake Biv companies, order goods on credit and then keep these goods and fail to pay for them, then let the business be bankrupted. Their methods can be similar to Violet entrepreneurs and Indigo-Violet agents starting a risky business, failing to pay their debts and keeping their profits except that Yellow organized crime usually has no intention of running a legitimate business. Payoffs to politics and using lobbyists can open loopholes to allow them to make more money, for example removing the uptick rule on short selling allowed enormous profits and may have partially caused the Great Recession. Employees in the Indigo American SEC face enormous pressure to allow predatory trading as they usually go and work for Wall Street firms after they leave government service, so offering a job after leaving government service can be an effective but highly deniable bribe.

Paying off of Orange police is similar to intimidating, bribing, and underfunding Indigo regulatory agencies. Violet can also use Indigo Violet lobbyists to deceptively move their laws to the right or plant Indigo Violet agents secretively and deceptively in government positions to move the laws in their favor. The Indigo market is where Indigo Violet agents try to deceive Blue Indigo cooperatives, this is like consumers going to shopping centers where sometimes shoddy goods are sold and people often rely on Blue Indigo consumer protection laws to get their money back. Indigo Violet agents sold securitized bonds to Blue Indigo pension funds when they often knew there were problems with them. Violet companies can also invest the pension funds in their own shares making them easier to loot as Yellow524F[[521]](#endnote-521).

In a marginal society some Biv areas will be more prosperous than others and if resources are scarce enough some areas become Roy. Because Roy areas can grow they need to be contained just as forests try to contain deserts and clearings from expanding. Roy areas need Roy managers even if they report to and are controlled by Biv areas, for example some Roy countries are controlled by Western Biv governments with Yellow dictators to prevent Red terrorists and Communists interfering with Green natural resources there. Usually their resources are insufficient to sustain the whole economy in a fair way so in Roy they are controlled by whoever has the most power; this power can also come from aid and military supplies from other countries. For example Yellow right wing dictators can be propped up to control Green oil resources in the Middle East, to supply this oil to the Biv west more reliably and prevent disruptions to this supply by a Roy civil war. Before the breakup of the Soviet Union Red Orange communists would subsidize other Roy nations such as the Warsaw Pact and Cuba, to make them reliably Red in their government for trade, to prevent Yellow dictators from gaining power, to showcase the Red political system as successful, and so on.

In smaller Roy areas Orange police might have special powers such as enforcing a curfew, enforcing harsher sentences against a Roy drug such as crack compared to other forms of cocaine used in Biv areas, shooting suspects and criminals under relaxed rules of engagements such as checkpoints in Iraq, racial profiling such as blacks in American ghettoes and Muslims travelling on American airlines, harsher interrogations such as using rendition for terrorist suspects, and so on. Biv companies might hire Roy landlords, so called slumlords to make profits in ways not legal in Biv areas such as poorly maintaining buildings and having debtors beaten up. Mexico has factories with more relaxed environmental standards and more easily bribed inspectors than across the border in the United States, the government is less democratic and can enforce more exploitation of workers than in a fully Biv country. Child labor and sweatshops in some Roy countries and areas can be used where it would not be permitted in Biv countries, Biv abundance policies can work poorly in Roy because refusing to buy goods made with child labor can throw adults and children out of work with no other jobs to replace them. In Biv countries with a relative abundance of resources restricting some industries normally causes others to take their place.

Biv environmental laws can be avoided by concentrating the pollution in Roy countries instead, China for example is still a Roy country and the powerful Red Orange rulers can control the population, keeping enough of them on farms as Blue or Red so there are enough Green Blue resources for some to run a Biv economy in small areas. Without a powerful Roy government this might collapse like a Roy desert with a small amount of foliage around an oasis. Animals from the desert would tend to wipe out non desert plants that tried to grow with the abundant water. The hope in China is that these Biv areas will grow large enough to convert the whole country into a marginal society or mixed economy similar to Europe but it is unlikely there can be enough abundant resources for their whole population to become Biv. Environmental laws in such Roy countries are less onerous because of powerful Roy politicians and businessmen, the result of moving manufacturing to these countries is that overall carbon dioxide levels in the world continue to rise but the Biv nations now have little control over it. Global warming is a Roy issue because the atmosphere is Green public property, cap and trade is an attempt to make emissions private property to regulate them. If these Roy areas become more prosperous, such as by finding more Green Blue resources or protecting Biv businesses by subsidies and special economic zones then some parts can become Biv and Roy policing can become inefficient in these areas compared to the Indigo market. For example urban renewal can make an area more Biv by attracting more Biv residents there, giving more jobs to Red welfare recipients and the homeless while turning them into Blue workers, and so slumlords would be eventually prosecuted for running buildings as they would if it was still a Roy area.

This urban renewal can lead to rapid growth and collapse where Red and Orange Yellow try to convert to Blue and Indigo Violet, for example a Roy country might have a sudden expansion of export industries based on being highly competitive and overleveraged just as the Great Recession began. Red peasants on farms such as in Vietnam would flock to new Biv jobs which can be a chaotic process as labor on farms is depleted perhaps causing tipping points and collapse of these farms if people cannot work together as a team in Red Orange, loaning labor to each other to overcome this. Working for cheap wages can lead to many small Biv businesses such as in electronics and as they grow they compete with each other leading to some collapsing and Blue workers losing their jobs, sometimes having to return home as Red farmers again. Indigo Violet businessmen had previously been restricted and even imprisoned for trying to run Orange Yellow businesses in Roy so they had to do them secretly and deceptively, these were regarded as theft in Communist societies. In Biv areas these people exploit the pool of Blue labor competing against others like them, according to their talents many will have their businesses collapse and some will go back to Roy society. For example when Russia tried to become a Biv nation too quickly many businesses collapsed and it went back to a higher level of state control.

Red Orange and Yellow people have a different strategy for transitioning to Biv, Red Orange can be associated with the Communist party and form Blue Indigo trade unions that use their numbers to unionize industry and force higher wages and better conditions for workers. Smaller Indigo Violet companies often can pay these higher wages because business can still be profitable and once they work with the union they have their power on their side to keep Indigo Violet solvent and perhaps assist them in becoming Violet. The political connections Blue Indigo has in a Roy country with the Red Orange leadership can help them particularly because the Roy system was formed to help workers from the beginning.

Yellow power in the Roy economy can come from organized crime and corruption in the Red Communist party, oligarchs formed this way in the collapse of the Soviet Union. The Red Orange communist party was removed from power and a Yellow Violet government under Yeltsin was formed, this led to large Violet industries with strong Yellow political connections. The Yellow Violet and Red Orange to Blue Indigo alliances are much more stable so countries that develop large companies such as Samsung and Hyundai in South Korea, Toyota and Sony in Japan, Lenovo in China use their government connections in ways that Red Blue and Orange Yellow with Indigo Violet cannot.

Roy countries and areas are more efficient in using rare resources than Biv systems are. Biv runs on cooperation and competition but when resources are scarce it becomes easier to become Roy, attack another country or business and take what they has accumulated, whether by one person robbing another, a government taking from its people, and a Yellow predator taking the accumulated energy in a Red grazing animal by eating it. Roy countries then tend to revert back into Roy even after a large amount of Biv aid because resources never become adundant enough for the whole population and the smaller Biv areas like a small forest on a savannah are not protected enough. For example in a poor area Violet groups might become wealthy by outsmarting the Blue workers who could come close to starving but this can create sufficient wealth to make a Biv system work. This was the situation in the Middle Ages with feudal societies, if these were run as a Biv system instead then no one would have had abundant resources to run a market economy. Biv has no system for taking Green Blue private property from someone without a voluntary transaction on both sides unless as compensation for a civil crime, in feudal society the strength of the Yellow knights and aristocracy through their power created abundance in small areas which gradually grew and joined like forests to make Biv towns and then countries. Once scarcity made Roy more efficient then Blue would start acting as Red, sneaking into the wealthier areas and stealing food and money, poaching the King’s forests, hiding from paying taxes, etc. Violet could not stop this because in Biv attack and defense are not part of the system so Indigo Violet would become Orange Yellow and try to trap Red by hiding in an ambush, using decoys and traps, hiding their money and food, and so on. Blue Indigo as a cooperative for farmers would find this strategy ineffective because the Yellow aristocracy could plunder them at will so they would turn into Red Orange gangs with the strength to operate openly, protect their food and attack Yellow royalty taking too much in taxes. Violet businesses would have no way to deal with Red Orange like this and would become Yellow to survive; this is like a more peaceful king having to resort to force to maintain his kingdom in harder times. The Indigo marketplace becomes watched by police for Roy stolen goods and may have no food because robbers intercept Blue and Blue Indigo farmers taking their produce to market or rob them in the market. Finally rationing as the team based Red Orange versus Yellow cooperation and stealing as the Roy version of competition replace Biv. If the economy improves enough then this process would be reversed as it became Biv again, or more likely a marginal society comprising Roy and Biv in different areas.

A Roy country or area is like a desert where Biv plants and businesses have to struggle to survive on few resources, and also have to defend themselves with such as thorns and poisons for plants, and guns and fences with businesses. Roy countries and areas such as ghettoes usually have Biv industries like this, well defended and hard to rob but aid to Roy societies to develop them rarely creates hardy businesses that can defend themselves. For example in the Los Angeles riots525F[[522]](#endnote-522) there was a catastrophic collapse of Blue versus Indigo Violet businesses where people turned Roy from scarcity and used the riot as cover to steal secretly and Red Orange gangs to openly use force to break open Yellow businesses. For a long time after this few Indigo Violet businesses rebuilt because they feared another riot was impossible to defend their property against. In a Roy country there may not be enough Green Blue resources to pay for defenses like plants needing enough nourishment to build strongly to not be broken by grazing animals.

Desert plants must be highly efficient to survive so they do this by Blue and Indigo Violet strategies of fast growth when it rains and they collapse after making seeds and flowers, this also gives animals less time to eat them so it is more likely this speed will help them survive. More Blue Indigo and Violet strategies of slow growth and many defenses such as with cactus can also work because an area with many cactuses would be impassable by animals so cactuses work together as a team to some degree. Biv businesses in a Roy society can be more efficient than in Western Biv countries and often they can make profits in ways the West cannot. For example electronic waste imported into a Roy country might yield parts economical to salvage or metals such as gold from electronic circuits economical to extract. This is like Biv plants in a forest shedding leaves and branches as humus which would be much more efficiently utilized if placed around desert plants. This is also like the Roy food chain where a Yellow predator like a lion might eat a Red gazelle and leave some of it that other animals such as hyenas, vultures and finally worms consume. First the Biv country uses resources to make computers then these are passed onto Roy countries who in effect pick the carcass clean of all value.

The vultures can eat what the hyenas cannot and the worms can eat what the vultures cannot. In the same way Biv plants have a food chain and Biv business do as well so a large Violet business might do large scale manufacturing but smaller orders would not be economical, so smaller businesses handle them. A variation of this is the theory of the long tail, that the internet allows larger stocks of such as books and music, in the past these small orders and rare books might have been handled by smaller second hand and specialty book stores while the large stores mainly handled sales of bestsellers. Some large scale food franchises such as McDonalds sell high volume kinds of food while smaller specialist restaurants do less popular variations such as sushi, curries, falafels, etc. Violet and Blue Indigo businesses by becoming so large allow a statistical approach to sales so they try to sell those products in the middle of the normal curve because average people are more numerous, as these stores get larger they can cater for further out on both sides of the normal curve with products deviants to this normal population prefer. For example a supermarket might try and sell these low selling products because they try to include as many people as possible in the Blue Indigo and Violet teams as long as the products are not secretive and deceptive. More competitive Indigo Violet stores would either concentrate on the middle of the normal curve such as selling hamburgers and fries against other small fast food stores, they can also find a small niche market for a style of food such as Chinese but in this competition they don’t try and cater for a large percentage of the normal curve. For example Chinese restaurants don’t try and cater for Indian and Italian food but a supermarket might have ingredients for all of these.

McDonalds has standardized burgers and people all over the world can identify with these few choices as defining their normality, also with having Coke for a drink, wearing Nike for sports, Starbucks for coffee, Pizza Hut for pizza, and so on. This defines them as part of a team and having liking the same food, drinks, music, sports clothes, running shoes, movie actors, etc helps them to cooperate with each other rather than seeing them as a competitor such as Coke versus Pepsi and McDonalds versus Burger King. There is also a good market for secretive, deceptive, competitive customers such as in Internet porn where people do not normally share with others what they look at. Music can also be sold as a Blue competition such as local bands battling each other, genres of music competing for a young audience and criticizing each other in a deceptive way, political books may criticize each other’s audience with lies to stop losing their own audience and prevent them reading elsewhere and fact checking these lies, etc.

Some products are consumed privately such as music on an MP3 player with headphones while other music sells best in a team setting such as in a concert or played at a nightclub. People can even hide their purchases as Blue versus Indigo Violet, for example on the Internet some use special software to cover their tracks when they buy or visit sites, use anonymity to compete deceptively on forums, buy items for cash that they would be embarrassed to have appear on a credit card statement, have unlisted phone numbers, not vote to avoid appearing on a voting roll, etc. Businesses then can cater for either team based consumers who want an open and honest product they can identify with as a team symbol like a football jersey, others want a product that is highly competitive that they can use secretly and deceive others about. When a business tries to cater for both types there can be some conflicts, for example a Blue Indigo versus Violet supermarket does not want to sell porn which cannot be openly shown or it would offend some people and the consumers of it want to buy it secretly anyway, deceptive products such as an obscene or hate inspiring music group are not suited to a supermarket because they must give a refund if honest buyers are deceived by its appearance, books about controversial political views might be complained about by others with opposite views such as selling Hitler’s Mein Kampf, some products may hurt the average person and are only suitable for enthusiasts such as mountain climbing equipment or guns, and so on. Products like these are usually sold in a highly competitive secretive way with deceptive claims about their benefits.

As globalization continues to form a global marginal society Biv plant like businesses move to other countries and areas to take root and grow there, this is like new plants and animals being introduced into other ecosystems and affecting the local wildlife there. This can lead to the extinction and rapid decline of some local businesses; sometimes they survive the foreign competition and then try to expand out of their own country or area such as with Google’s unsuccessful foray into China in competition against a local Chinese search engine526F[[523]](#endnote-523). For example KFC, McDonalds and Starbucks are franchises which are like templates for the same kind of plant and these have spread to most countries and have supplanted local cafes and restaurants in many cases, but often local businesses are still preferred. In the same way the spread of insects and plants has been resisted by the local fauna and flora. Depending on whether the effects of businesses are open like Violet and Blue Indigo or secret such as with Indigo Violet and Blue there are different effects on society just as sometimes insects might secretly attack local fauna and the damage may not be realized until much later. Pollution can often be done secretly such as with dumping into rivers, sewerage outfalls not processing the effluent properly and the result not noticed until it is blown onto the beaches, pesticides leaching into the water table and poisoning people far away as in the Punjab in India, etc and easily denied such as with littering. This becomes harder in cities where people are usually watching each other and act more as an open and honest team. While driving in the country people can more easily litter secretly such as by throwing rubbish out a car window but might be spotted in a city and recorded on surveillance cameras.

Pollution from cars is invisible and odorless with carbon dioxide and carbon monoxide, however peer pressure among Violet and Blue Indigo people teams is moving people towards ecologically safer cars, this team pressure is exerted more now against people buying SUVs and Hummers. This forms two teams, on the left conserving petrol becomes the normal attitude because the left usually have less money and large car owners begin to be seen as deviates to this consensus, and on the right people have more money so they can afford to waste fuel so having a small car can be seen as deviant. This creates two teams who oppose each other to some degree and the government according to pressure from these voters might try and improve fuel efficiency at the expense of size of the cars and their power. Rubbish secretly thrown out in the home goes into the trash and landfills and some finds its way into the oceans, Violet and Blue Indigo people can watch each other in what they put in the garbage, whether they use recycle bins correctly and so on.

Often environment groups work on these problems by exposing them in the media, once out in the open people feel pressure to be team based about the issue rather than be deceptive or hide their real feelings about it. Whale and dolphin kills are published so people form a normal view on them with team based peer pressure while others have to be secretive and deceptive if they approve of it to avoid being discriminated against, in the case of Japan this can backfire as the peer pressure to continue whaling is stronger and those against it may have to hide their opinions. Fishing is hard to monitor because fish are generally hidden, hard to find and scatter when alarmed so commercial fishing is usually Orange Yellow. This can lead to rapid growth of the numbers of fishing boats as they compete against each other, deception with fish quotas, and the subsequent collapse of fish stocks. Publicizing this problem causes Blue and Indigo Violet consumers to confront each other and take an open and honest stand as either Blue Indigo or Violet, this is leading to advertising fish as sustainably caught so people can monitor each other’s purchases as a team.

In a marginal society this can be Roy or Biv, if resources are abundant then Biv secretive activities by Blue and Indigo Violet can periodically grow rapidly, reach a tipping point and collapse. This can threaten the Biv economy to some degree because this collapse can bring on shortages and a Roy economy. For example overfishing in the Biv global economy has reduced some fish stocks to 10% of their levels in the 1940s, this might create a chronic shortage of fish so Violet and Blue Indigo groups instead of negotiating with each other might fight for fishing rights, like the Cod Wars527F[[524]](#endnote-524). Blue and Indigo Violet then are often closely watched and regulated to avoid these collapses, but too much regulation stifles their growth phase leading to economic stagnation. Violet and Blue Indigo usually succeed at riding out crises with statistical methods of spreading the risk but tend to see economic growth as deviant and potentially upsetting their influence.

In Roy however scarcity makes Blue Indigo into Red Orange militants and Violet into Yellow predators, so there is always the potential for war between them brought about by Red versus Orange Yellow secret conflicts. For example in the Cold War secretive and deniable operations were carried out on both sides such as spying, giving arms and training to armies in each other’s spheres of influence, trying to blackmail and turn each other’s staff, games of bluff such as the Cuban Missile Crisis, and so on. Because these were prone to rapid growth if successful and chaotic collapse if not, they could have dragged the Yellow authoritarian and Red Orange Communist governments into open warfare. In the same way scarce resources such as in fishing may lead to conflicts where fishing boats could be seized if in a more powerful nation’s sphere of influence. Small secretive fishing expeditions might be officially denied as having government backing for this reason; such a scenario is close to being played out in Whale Wars528F[[525]](#endnote-525) over scarce whale meat. Greenies are in open conflict with Orange Yellow Japanese whalers and this game of bluff and hide and seek regularly escalates into the media and team based attention of governments. Similar events have occurred with dolphin kills as shown in the documentary The Cove, this is Roy because of the scarcity of dolphins with Orange police in Japan monitoring Red defenders of dolphins secretly trying to film their slaughter, and Orange Yellow government deception in hiding the sale of dolphin meat. Maneuvering in the Whaling Federation is like an Orange Indigo policing body of two sides in conflict with each other over scarce resources.

Scarcity of oil can be seen as inspiring a second Great Game between Yellow Western societies and Red Orange former and current Communist countries such as Russia and China. With oil still relatively abundant these negotiations are usually Biv but looking forward with peak oil529F[[526]](#endnote-526) theories to a time of Roy scarcity, nations are also playing the game in a war like way. In the book Kim530F[[527]](#endnote-527) by Rudyard Kipling Britain and Russia played the Great Game for territory and trade close to India, using spies to watch each other, later Lenin played a similar Great Game against India. The idea of the Great Game in modern times was written about by Zbigniew Brzezinski partly about the need to control oil deposits and the routes for oil pipelines. Much of this game for the Right was played by using Yellow dictators in conjunction with Violet oil and construction companies allied with Western governments such as Britain, France and the United States. Yellow and Violet use their political influence to move their respective country’s military like a team of pieces in the Great Game, additionally it uses secretive and deceptive agents as Orange Yellow and Indigo Violet to spy on other countries, use bribes to get favorable contracts to build pipelines, and spread deceptive news stories about the moves in this game. Red countries can nationalize their oil deposits as Red Orange to maximize their own profits and oppose the Yellow Violet team.

Police in a marginal society can be corrupt, acting as Orange Yellow seeking to secretly rob Red people, and also as Red Orange, defending them against violent Yellow robbers, murderers, and so on. Shops might give some bribes to Orange police such as free food and drinks in exchange for protecting them against more violent Yellow criminals or Red shoplifters such as the homeless and drug addicts. This is similar to a protection racket where Orange Yellow criminals get protection money to keep their Yellow organized crime bosses happy, here the police get some bribes to look after some shops more and they also get their wages as police to do this. Protection then becomes a rival business between Orange police and their criminal competitors where the police can see their jobs and wages threatened by failing to stop protection rackets, also these wages are often higher and more reliable than bribe money. By paying police well this corruption is usually limited; the community is generally willing to pay police well if they are neutral enough so they get tax money from Red Orange and Orange Yellow groups as well as some bribes on occasion. If issues in a society are too fragmented then it may be impossible for Orange police to construct and run a neutral middle ground in them, this can lead to low wages as the society refuses to pay more and then the system can become unstable with Red Orange versus Yellow hot fighting and Red versus Orange Yellow cold fighting. In nature this can be like Orange Yellow predators such as wild dogs protecting Red animals, their behavior might warn them of larger Yellow predators like cheetahs nearby. Though the wild dogs sometimes take a Red young gazelle for example they are less of a threat than cheetahs, in the same way some corruption in Orange Yellow police might be tolerated because they stop the worst Yellow criminals even just to preserve their own corrupt position. Sometimes larger Orange Yellow animals could even drive off a single Yellow lion; this is like Orange Yellow informers for the Orange police deterring Yellow violent criminals because they would be turned in to the police.

Red Orange can form a posse or lynch mob against Yellow criminals in the case of the Wild West and help Orange police act by giving them additional manpower. This also made it cheaper to have Orange police because when needed a posse would give the numbers to fight bands of Yellow outlaws and then they could go back to their normal jobs. This is like the evolution of Red Orange animals by attacks on Red prey by Yellow predators; they can either run and hide as Red or band together and grow stronger as Red Orange. In the same way a town might have had Red farmers and ranchers who ran and scattered when Yellow outlaws attacked, then they evolved a Red Orange fringe where they worked together as a team and acquired the same weapons and tactics as the Yellow outlaws. To stabilize the situation they might have appointed an Orange sheriff to make sure their defenses were legal; the sheriff would then allow the Red Orange posses to fight back within this law. As the threat of Yellow predators diminishes Red Orange herds such as buffalo can devolve and lose their cohesion as a herd, in the same way a town might not be attacked by Yellow outlaws for a long time and lose the ability to work together as a posse.

Police then can evolve between mix of petty Orange Yellow criminals and Red Orange vigilantes with the petty criminals getting a license to commit crimes in a limited way in exchange for them informing on Yellow, they might often make more joining and helping the Police than out of petty crime, also this leniency increases their criminal profits. In the Wild West there could be minor criminals who steal cattle secretly and deceptively and they were tolerated because they acted as lookouts for outlaws, befriending them and then informing on then to the Orange sheriff. The town then has two defenses; the part time Red Orange posse and the part time Orange Yellow turncoat thief, these vary in numbers and behavior according to Yellow threats. The Orange Yellow informers are kept in line by the Red Orange posse because if they steal too much and don’t inform enough on Yellow outlaws they can get killed by the posse bypassing the sheriff. If they inform too much without the support of the Orange sheriff and Red Orange posse then they can be killed in revenge by the Yellow outlaws.

The other threat to the town is from Red people who can also be thieves and they can have the support of Red Orange posses to make them harder to control by the Orange sheriff. The posse then becomes like a gang similar to a left wing society in the town which protects the Red thieves in return for a cut of what they steal, similar to Orange Yellow criminals who can be protected by a Yellow team such as a band of outlaws or a mafia. This power can enable them to take from others what they want like in communism, if they see others who are wealthy then they can take their property with the strength of the Red Orange posses with the excuse that the wealthy are really like Yellow outlaws with their predatory business tactics. Red thieves might attack these Yellow properties stealing cattle by stealth. In such a society the most successful farmers and grazers would lose their property so this becomes like a progressive tax or nationalization in Red Communism. It also makes it harder for the town to become wealthier because if someone runs their farm better then it might be overtaxed. The more successful farmers can also be Yellow predators and might have stolen some land such as by killing someone or forcing them to sell at a low price. Successful farmers can be a mix of Yellow and Violet but they face a problem of losing their assets and may employ Yellow outlaws to protect themselves, to avoid this Red Orange versus Yellow hot war the Orange sheriff needs to be neutral and find a middle ground between the two.

To control Red and Red Orange in this case the Orange sheriff can use his Orange Yellow informers who also work sometimes for the Yellow farmers. By not prosecuting them he allows them to steal more from Red and if they complain then they are told they need to obey the law and submit to Orange justice if Orange Yellow also must. Yellow can also defend themselves by hiring Orange Yellow protectors to watch for or hunt down the Red thieves before they can be protected by the Red Orange posses and gangs. In this way the Orange sheriff keeps a balance between the two sides, Red Orange realizes that if they support Red thieves too much then the Orange sheriff won’t restrain Orange Yellow thieves and Yellow outlaws from attacking them. The Red thieves might be Blue workers who run their own farms, when resources are abundant they would usually trade with Violet farms rather than resent their wealth or steal from them. In a drought they might become short of food and realize if they band together as a Red Orange posse they can take what they need to survive the drought. Just as Violet farmers can become Yellow predators in such a drought, Indigo Violet agents selling the wares of the Violet farmers might steal as Orange Yellow to survive the drought. The town is then a small marginal society changing from Roy to Biv and vice versa according to the economic conditions. The sheriff might also act to coordinate the colors in Biv by settling civil claims such as unfulfilled contracts, disputes over fences and boundaries of properties, warranties over misrepresented cattle and horses being sick, and so on.

Police may also become mainly Red Orange such as with SWAT531F[[528]](#endnote-528) teams going after Yellow violent criminals but having little or no Orange Yellow component to go after Red criminals. Major crime is tackled but not the petty criminals like the situation in New York that was reversed by Mayor Giuliani’s broken window532F[[529]](#endnote-529) policy to clean up minor crime. Another example is Great Britain where Red minor thefts might be more rarely punished because of the left wing policies of the government. Some Red crime then can be seen as welfare, a way for them to make some money from right wing Yellow wealthier people or at least turn a blind eye to it. They can also plea bargain more with Red criminals, if they inform on Red Orange violent gangs then Red criminals can be released earlier and leading to a rise in Red crime and less Red Orange crime. The Orange police here would also be using Orange Yellow informants more against Yellow crime, and in exchange accept a higher level of Orange Yellow crime. Reducing Yellow crime can then lead to a rise in Red versus Orange Yellow crime.

Alternatively the police can ally themselves more with Orange Yellow as a right wing government would do, cracking down on Red criminals such as drug addicts, homeless poor people, etc but in the process alienating Red Orange gangs who want to protect them to some degree. In this case Orange Yellow criminals are also punished more because there is less plea bargaining to inform on Yellow criminals, so minor crime is lessened at the expense of letting Yellow and Red Orange violent crime increase. Orange Yellow plain clothes police and drug enforcement agents might raid Red areas secretly and quickly while camouflaged as civilians while Red Orange gangs would be largely ignored, also there is less interest in giving Red addicts, prostitutes and thieves reduced sentences in exchange for informing on Red Orange gangs.

In a marginal society the Orange police tend to sometimes work as Indigo coordinators. Where Orange Yellow are seen as petty criminals in Roy, in Biv they are seen as agents and legitimate salesmen. A Biv form of protection racket might be selling insurance against legitimate dangers like fire, theft, instead of Orange Yellow criminals actually causing these if protection money is not paid. The Red Orange vigilantes can become Blue Indigo unionists where instead of banding together to protect their neighborhood from Yellow crime they protect it with negotiations with Violet management for higher wages or as consumer protection organizations. They can also be Blue Indigo communities where people talk together and share information, so as to be more astute consumers instead of just sharing information such as in Neighborhood Watch to protect their property. An Indigo market can be a mix of unionists and other people banding together to keep their prices firm and Indigo Violet agents trying to separate them and get some bargains and also with Orange police monitoring Red Orange gangs selling stolen goods and Orange Yellow criminals buying them in the Indigo market. For example a flea market or swap meet might have a mixture of legitimate Indigo sales between people as well as Orange Yellow pickpockets and Red Orange gangs selling stolen goods, the Orange police would liaise with the Indigo coordinators of the event to protect people without affecting legitimate transactions. Blue Indigo and Indigo Violet can join together with the Indigo coordinators in such a market allowing for prices to drop by Blue Indigo breaking ranks to make individual deals, or having a strike or holding firm on prices so market prices rise by agents having the accept the group’s price. For example stalls at a swap meet might have an agreement between them to not discount any goods so they all make more money, Indigo Violet consumers try to break this cooperation by playing stalls off against each other with low offers.

In Roy Red Orange and Orange Yellow can also cooperate with the Orange police, sometimes Red Orange gives up Red criminals and other times they stand together and support them such as with false alibis. Orange Yellow sometimes informs on Yellow criminals and other times supports them so together Red Orange and Orange Yellow can manage crime in an area with the police by achieving a balance between the extreme left and the right and either supporting them or turning on them. This is like in nature where the middle of the food chain can dominate by sometimes warning each other of Red prey and Yellow predators and other times they don’t get involved. For example Red Orange herds like buffalo might make noise when seeing a Yellow lion which warn Red gazelles and they might also watch the gazelles for signs of running away; other times Orange Yellow hyenas and foxes might warn each other by their behavior that there are Yellow lions nearly. Just as herds watch each other for signs of danger as well as the environment so Red Orange herds and Orange Yellow animals can watch each other where they have a common interest.

In Biv the system can become unbalanced as in Roy, where instead of Red Orange being weakened and Orange Yellow criminals preying more on Red such as buffalo being unable to protect their young after being weakened by drought, the price fixing and group behavior of Blue Indigo can be weakened by anti-union laws or high unemployment. Indigo Violet agents can then make better deals with Blue consumers because they are not represented by a consumer protection organization or they are too secretive with each other to pass on information about Indigo Violet deals and tricks. Orange Yellow hyenas might be more successful against Red Orange buffalo in a drought where they do not have the energy to protect their young from the constant harassing of the hyenas. For example a weakened Blue Indigo union might have to allow Indigo Violet agents to use cheaper labor, fire some employees unfairly such as for being sick or pregnant, and to reduce holidays and safe workplace practices because they are afraid that Blue workers will leave the union to take these jobs. When the economy improves like a drought ending, the Blue Indigo union would become stronger with more demand for labor and reverse some of the concessions made to Indigo Violet.

A Blue Indigo community that doesn’t communicate might not be able to avoid Indigo Violet agents making too good a deal, such as in door to door selling. The salesman here is like a lone fox sneaking into a henhouse, a cohesive Blue Indigo community would tend to warn each other of fraudulent salesmen such as with a Neighborhood Watch newsletter or in a local newspaper. If the Indigo Violet section of the Indigo market becomes weakened then Blue Indigo Unions and consumers may be so well informed and cohesive that the agents do poorly and Blue producers get higher prices, this is like the Red thieves being treated leniently as a form of welfare or being protected from retaliation by Orange Yellow criminals and police by warning them and standing by them as Red Orange. This becomes like a cartel where Violet talent get much less for their services and the Biv plant is more stunted like grass.

In a marginal society Roy areas can change to Biv or vice versa, or they can coexist. This is like a Biv forest area turning into a savannah, vice versa, or there are clearings in a forest. A Roy system of crime, such as with Marijuana where Red Orange vigilantes and Orange police try and stop Orange Yellow dealers selling drugs to children and in schools. If the drug was decriminalized or sold as medical marijuana then this would be Biv instead of Roy and the Blue Indigo community plus the Indigo market would warn Blue children of the relative risks of the drug. Orange Yellow dealers might run Medical Marijuana centers in America or cafes in Holland sometimes as agents for Violet entrepreneurs. A weakened Red Orange would be akin to a weakened Blue Indigo where community awareness was low and dispensaries might sell medical marijuana to make more profits where there was little medical benefit to the customer. When decriminalized however the Indigo Violet agents might still sell to Blue children secretly because they might make money from the sales than lose in fines, this is like some Indigo Violet stores selling cigarettes or alcohol to underage smokers and drinkers. Red Orange gangs often control the drug business in a community and look after Red addicts to some degree often because they are related to them or are friends. Where these gangs are weak Orange Yellow drug dealers would have fewer scruples in ripping Red addicts off.

A weakened Orange Yellow part of the Orange police would be where marijuana was legalized for medical use and the Blue Indigo community was united in growing it themselves and having people deal the drugs for little profit as a friendly business without using Indigo Violet agents having a more refined product, this would be decriminalized for personal growing. Violet medical experts would be less consulted for prescribing Marijuana so this would be more like decriminalization for personal use and illegal to sell where Indigo Violet dealers might be arrested. The Indigo marketplace would consist of Blue Indigo dealers with a less refined product and lower prices opposed by Indigo Violet agents of Violet doctors having a refined product at a higher price with medical expertise on how to best use it, much like other pharmaceutical drugs.

The situation then is similar to legalized alcohol where you can have Blue workers brewing their own beer opposed by Indigo Violet agents selling a more refined Violet product such as beer from breweries, scotch from distilleries and so on. In Prohibition Yellow organized crime made moonshine and Orange Yellow agents often corrupted the Orange police as much as the Orange police used them for informants, this allowed them to sell secretly and deceptively to Red victims such as alcoholics. The Anti-Temperance League would be Red Orange fighting against this illegal alcohol which became a Blue Indigo community awareness when alcohol was again legalized. A left wing government might favor Red alcoholics and not prosecute them while going after the Orange Yellow dealers, this is similar to what happens with Marijuana sales where users are often let off with a warning and dealers are prosecuted. Small time dealers or Red Orange gang dealers might also be treated leniently while Yellow organized criminals such as Cocaine dealers from Columbia are arrested. Orange Yellow police might be less powerful and not allowed to persecute Red addicts just as Orange Yellow pretty criminals would be heavily penalized if they take advantage of Red drunkenness or being under the influence of drugs with rape, theft, etc.

Product safety in a marginal society varies between Roy and Biv. Typically a product in Biv is sold in the Indigo marketplace, Blue Indigo unionization and community awareness tends to protect Blue consumers but if it is more profitable to sell defective products and pay fines and lawsuits then people may suffer from the lack of Orange policing. In Roy one way for Yellow and Orange Yellow to plunder is to sell faulty and dangerous products. Orange Yellow does this through deceit which makes it harder for them to be caught, Yellow through violent criminality such as taking money for goods then not delivering or robbery.

Public Roy businesses such as hospitals, schools, prisons, trains, can have a Red or Yellow tilt to their services. A hospital if Red Orange might give standardized medical care with abnormal procedures such as elective and plastic surgery less well catered for, this is a complaint with the British and Canadian Public Health but also in Biv countries because insurance companies use statistical methods to average out the costs of the most common medical procedures needed. The more Violet versus Blue Indigo the Biv system is the more kinds of sicknesses will be covered even though some unusual ones will be far more expensive than the premiums received, for example some cancer treatments and organ transplants. If the system becomes more Blue versus Indigo Violet then the insurance companies will try to reduce these unusual procedures by refusing to cover them completely or being secretive and deceptive by looking for ways to drop the insurance cover because of minor inaccuracies in the information the patient provided. This is also from the highly competitive nature of health care in America where this deception allows more profits for an insurance company; also they avoid potential tipping points and collapse from expensive treatments. Usually a Roy health system tries to avoid this competitiveness by requiring these companies to cover everyone at the cost of more chaotic and expensive treatments being covered, they may also make it illegal to deny health insurance based on a patient’s history and even nationalize the system as Roy such as with the British health service.

Biv countries like America do more innovative and expensive medical procedures from this competition, this is like Biv companies only wanting to do business where there are abundant resources such as wealthy customers and to leave the rest to a Roy based government health insurance scheme. This occurs in many industries such as most bus services being run as Roy because people are too poor to make good profits from; instead Biv bus companies find specialized niche routes where well paying customers are economical to service. A local bus route might be Roy but interstate buses can be Biv for example. If a medical insurance service is too poor then Orange police might accuse them of negligence such as where Red people died from being denied treatment at emergency centers in hospitals in America. One problem can be where Violet talent can be poorly paid in Roy medical systems because people are poorer so they might opt out of this public system and only want to treat wealthier Biv patients like the Biv bus companies only want wealthier passengers. This is also like Blue Indigo unions getting higher wages for themselves and then no Violet management wants to employ them, the Red Orange medical insurance may provide good care to the poor but unlike in the Soviet Union where talented people were treated as predatory and forced to work for low wages, the Violet best doctors may be able to use their political pressure as a team to prevent Roy health care from working, or boycotting working in it successfully without much higher wages than the system can afford. If the hospital is Yellow with this overcharging then workers might gouge the system by doing unnecessary tests and prescribing unnecessary or even dangerous drugs promoted corruptly by pharmaceutical companies, give substandard care unless bribed or people are on a more expensive health plan, try and turn away charity cases such as Red poor people and arrivals at an emergency room, etc.

In prison the Orange police can become Orange prison guards. If the prison tilts towards the left then Yellow and Orange Yellow criminals might be more tightly controlled otherwise they might dominate a prison and Red prisoners would need to form Red Orange gangs to protect themselves. Corrupt Orange guards might allow Yellow and Orange Yellow criminals to attack Red prisoners or blackmail them with threats of injuries if they don’t have relatives pay protection money, or there might be Red Orange gangs that back up the Orange prison guards, making it easier to control the Yellow prisoners. A Biv prison might be where nonviolent and white collar criminals go and there can be Violet talented people and Blue workers there with little violence, or a prison might have a mix of Roy and Biv. The Biv prison can have wealthier Violet prisoners paying Blue prisoners to do jobs for them, bring in banned goods such as drugs and pay Indigo prison guards for extra privileges.

In Roy public schools teachers are Orange and should protect Red students from Yellow and Orange Yellow bullies. There is a normalizing effect in Red Orange where a particular scholastic level will be seen as normal and most students will still be part of the team, the relative scholastic grades might be represented on a normal curve. Red students are more solitary and compete with each other so they are less tolerant of others more or less intelligent than them, Orange Yellow students can also be like this as outsiders from the Yellow gang. Bright students in good Biv schools might be Violet but in the absence of opportunity in a Roy school and area embark on a career in a Yellow gang, organized crime, running a protection racket in school and so on.

Libraries are often a communal Roy resource and can also be seen as Biv coordinating the Violet talent in knowledge to Blue hard workers in private libraries such as in private schools and universities. A library can have different subject matter in its books, violent literature might be Yellow, spy stories the interplay between Red and Orange Yellow such as communist spies versus those in the CIA. Crime stories might be Orange if the ending is according to the rule of law. Other books might focus on Red victims such as workers being exploited or a minority being disadvantaged in Roy society. Biv has bookshops where people buy books, and resell them to second hand book stores while Roy libraries buy books and then loan them out as if there was no copyright, though book sellers agree to this because of the large purchasing power of libraries.

Welfare in a marginal society can give communities help such as clothes, food banks, pensions, unemployment payments, concessional fares for such as buses and trains, counselors, church help including money and goods as well as counseling, cheaper or free medical care, cheaper pharmaceuticals, cheaper or free nursing homes, homeless shelters, and so on. These also have Biv counterparts, where people buy products instead of them being a government run service. Clothes are available cheaply with Biv mass production and charity run stores sell second hand clothes as well as give them to the needy. Food banks in Roy compete with cheap food in Biv, Roy pensions and unemployment insurance compete with Biv annuities and savings for retirement and to protect against unemployment.

Shopping centers can be a blend of Biv and Roy in a marginal society. Shops are usually Biv but there can also be Roy shops such as welfare agencies, medical centers with a mix of Biv private and Roy public patients, charity stores with government subsidies, communal areas for social gatherings and walking areas to go between shops, cars, buses, etc. Also the parking is technically private property but usually obeys traffic rules like Roy public roads and joins to Roy roads and public transport. Walking areas are also technically private but Roy people can usually walk and loiter freely as Roy. Shops can be a combination of Roy and Biv with some dishonest Yellow predatory shopkeepers and others offering the Violet fruits of talented people. For example some products can be sold more aggressively in shopping centers and flea markets by Yellow forceful salesmen or Orange Yellow deceptive ones typically in the Roy areas such as car parks, mall communal areas etc. Flea markets can see deceptive Orange Yellow salesmen selling poor quality goods as well as Indigo Violet agents selling Violet artistic works like paintings or music. Artists as Violet can perform as buskers.

Ticket sales and games of chance can be Blue Indigo or Violet in that they tend to redistribute income randomly to a prize winner. They are like insurance in that a policy can cost regular payments and pay out on death, disability, fire and so on. Tickets cost regular amounts and can payoff in a prize that protects the winner against poverty in old age for example. Such a game can be legitimate Red Orange enterprises such as Bingo, raffle tickets, lotto, redistribute some proceeds to charity as Red. Other games can be chaotic such as betting on tennis, where a game is highly deterministic and competitive, players may also be secretive and deceptive by preparing a new serve or strategy the other player needs time to adapt to. This kind of gambling can be decided chaotically by injuries, bad weather, different weather affecting the tennis surface such as grass, the crowd upsetting a player’s concentration, bad line calls going against a player, etc.

Yellow games of chance are used to casinos such as blackjack, roulette and craps in casinos where some people believe there is a chaotic pattern and they may become secretive about their system which they ultimately lose with because the games are completely random. Orange Yellow games can be deceptive and appear random but are deterministic such as in a circus where people try to shoot targets, hit a scale with a hammer to register their strength, manipulate a claw to pick up toys in a cage and so on. These games can be easily made fraudulent so they need to be regulated by the Orange police, for example the scale hit with the hammer can be made harder by adjusting the tension on the cable the weight goes up on. Craps can be made more deterministic by making the dice uneven in shape so some numbers are favored. A Red Orange or Yellow game is usually a random game of chance following a normal curve, while an Orange Yellow or Red game is chaotic leading to non-random outcomes.

Horseracing might be a Red versus Orange Yellow competition because deterministic variables such as the weight of the jockey, the condition of the horse, whether a horse is blocked by others in its run, whether the jockey is holding the horse back can affect the outcome. It can also be secretive and deceptive such as by using drugs in a horse, switching it with a different horse, deliberately making it run slow to increase the odds for betting, etc. This deterministic strategy comes up against the random nature of calculating the odds on a horse to try and rig the competition. Racing is generally Red or Orange Yellow in Roy where playing are trying to beat each other in a competition, that is where one player can interfere with another’s game such as tennis. When it is competitive rather than predatory, such as blocking a horse from running or crashing into a car in a race so another car can win then it is Biv. For example horse racing can be viewed as a deterministic process of breeding better racehorses with abundant capital to invest in them, as the horses improve they win more often and the random aspect of horseracing becomes less.

Roy governments often run state betting services on horse racing as well as lotteries, taxes on the winnings can go into general revenue or for a particular charity. One of the reasons for this is the state acts as Orange to prevent deceptive and fraudulent gambling such as where Orange Yellow fraud can make money by rigging sports events. In a marginal society horse breeding can then be a legitimate business as Indigo Violet trying to breed the most talented horses like the branches of a tree, then the different branches or breeding lines can be bet on by Blue Indigo gamblers, the idea being that the best bred horse should win the competition by a deterministic analysis of its bloodlines, as in an aristocracy rather than by Violet chance. The best horses from Indigo Violet branches may be combined together in Violet breeding so the attributes of different branches may produce a new or revolutionary racehorse. Generally Red versus Orange Yellow and Blue versus Indigo Violet are evolutionary because they are deterministic and a horse for example is unlikely to be better than the genes from its parents. In Red Orange versus Yellow and Blue Indigo versus Violet the process can be revolutionary because different horse breeds are brought together to produce a horse that could not evolve from a single blood line. For example a Violet horse may have a revolutionary ability to race because it combines the stamina from one blood line with the speed of another. In Roy there is a revolutionary and a counter revolutionary aspect seen in Red Orange communism where the team instinct of many different people working together can create a revolutionary society. The teamwork of Yellow people is counter revolutionary because it acts as an enemy to this revolution, for example the Yellow Nazis and Capitalist Empires were seen as counter revolutionary by Red Orange communism.

Other horse breeding can be Blue Indigo, selecting horses of different Blue breeds which are successful work horses such as ridden on ranches and mating them together to give a mixing of the genes and perhaps come up with a new and superior combination for work horses. This is also like inventing where putting together different parts can create a new product, here these horses would be less refined but more suited for work such as ploughing fields, ridden by shepherds or cowboys, etc. Successful Indigo Violet horses, those that win horse racing, polo, various house Olympic sports or steeple chase competitions might then have their genes mixed together in Violet to use randomness to come up with a revolutionary blood line.

Horse breeding can be similar to a kind of Indigo Violet or Blue aristocracy, where good breeding stock for people such as good looks, strength, health, abilities, and so on are developed in families by competing with others, then their genes can be mixed into new Violet and Blue Indigo families which lead to a revolutionary leap in beauty or talent. Other marriages can occur in the Indigo market where the mixed blood of Blue Indigo families might intermarry with more aristocratic Indigo Violet suitors. This gives an opportunity of people from lower classes with talent or good looks to marry upwards and also for Indigo Violet aristocracy to improve their competitiveness by marrying a wealthier lower class spouse or enhance their bloodline with a fresh gene pool or a revolutionary talent that can be further refined in the aristocracy.

In a marginal society Biv horses can also be used in Roy to deceive Red punters, in the same way the Indigo Violet and Violet offspring of people can become Orange Yellow conmen and Yellow violent criminals when resources are scarce, for example many Biv Prussian aristocrats became Nazi and Gestapo officers in World War Two. Instead of an Indigo Violet or Violet aristocracy or oligarchy which might rule through a double win in Biv transactions they might become an autocracy or royalty as Yellow or a kleptocracy as Orange Yellow. Instead of an honest competition in Indigo Violet or Blue they might have to plot and intrigue against each other as Orange Yellow or Red if resources are scarce or war against each other as Yellow for the royal crown and other aristocratic titles.

Instead of a meritocracy because of Indigo Violet abilities such as mathematics Biv people might become Orange Yellow hackers trying to break into secure banks and write software viruses to rob Red people online while trying to evade Red Orange defenders of Red computer software with anti-virus software. Indigo Violet mathematicians might work for Wall Street as quants to honestly make money by making the market more efficient or they might become Orange Yellow trying to make deceptive derivatives and bonds like fixing a lottery or casino game. Others with Violet talent might make weapons which Yellow dictators use in repressing Red Orange resistance or work for their own government or private contractors to subjugate Red peoples to expand a Yellow Empire. Indigo Violet might become adept at using decryption to break into communications of Red Orange terrorists, and using other espionage to monitor them, becoming Orange Yellow adversaries of such as Al Qaeda.

Pets are also a combination of Roy and Biv; birds for example might be Roy and live in the wild yet the same species, such as parrots and budgies can also be caged and be bought and sold as Green Blue private property. In nature animals often live in a Roy lifestyle, because some are predator and some are prey and also because there is no private property only territories. In a Biv society animals might be owned as a kind of slave and their food is provided instead of them having to find or catch it. Pets can be bred cooperatively by letting them select their own mates or competitively like horses and pets for competitions and shows, Darwin showed that Pigeons in captivity can over a short time be bred to give large changes in their plumage; this is like sexual selection in evolution except that people do the actual selection. If they are bred for competitions then this would be Indigo Violet versus Blue where a branch or root of the species is bred to improve their pedigree. If they are bred to be teams and get along with each other such as cats not fighting with people but being friendly, dogs being companions to people, horses that can be yoked together without fighting with each other, etc then this may make them more marketable than competitive birds that may lack a well-rounded set of genes. There are many different species of cats and dogs, some are bred competitively to create Indigo Violet pedigrees such as Persian and Siamese cats and Blue working class animals such as hunting and guard dogs. Cross breeds in pets are Violet and Blue Indigo, Violet crosses can give new kinds of pedigrees that might then be competitively bred again in Indigo Violet to improve their bloodline while Blue Indigo crosses can give new kinds of useful guard dogs. While technically owned by Biv people there is team attitude to pets in Violet and Blue Indigo where communities register their disapproval if they are not looked after and mistreatment can lead to pets being taken off people or Orange police may charge them with a crime. In Roy pets generally evolved to assist man in the predator and prey wars. Horses had a major contribution as transport in the evolution of Red Orange and Yellow armies, mobility gave them an enormous advantage against infantry on foot.

Cats probably became domesticated by catching Red vermin in tribal stored food so they were usually Orange Yellow in a solitary secretive war in catching them. They may also have given warnings that Yellow predators were nearby, modern cats are visibly agitated when animal noises sound dangerous and could have been watched for this. Dogs were probably originally Yellow predators such as wolves, dingoes, and coyotes, domestication by shepherds caused them to switch sides to Red Orange in exchange for some Red food from sheep, cattle, etc. This would have created an open war against Yellow wolves and Red Orange domesticated descendants of wolves, the Orange shepherd protecting himself with Red Orange dogs and using Orange Yellow cats to protect himself against Red rodents. This is like the Orange police allying himself with Red Orange vigilantes and Orange Yellow petty criminals to impose stability and order in a society.

Plants can exist on land dominated by Roy or Biv societies, and a mix of both in a marginal society. They can often be domesticated like pets, people look after them as flowers in a garden, indoor plants for beauty, lawns to prevent mud and dust from making homes dirty, grass for sporting venues is cheaper and safer to fall down on than concrete, hedges as fences, trees for shade, and so on. In Biv societies these plants can be owned as Green Blue but Roy animals such as wild birds, squirrels, lizards, and insects interact with them. Some people try and interfere with this Roy presumption that they are public property and hence fair game by using insecticides, greenhouses, fences to keep out rodents and squirrels, etc and this is like how rainforests dominate with plants so many animals and insects are excluded. Locusts for example feed in grasslands and Biv cereal crops such as wheat, in a forest there is little to eat because of the overshadowing by the Violet canopy and also birds have evolved to protect plants by eating insects. Some Roy wild animals can become hybrid Biv by being fed by people, such as parrots in the movie Wild Parrots of Telegraph Hill533F[[530]](#endnote-530). They would sometimes come inside and be caged if sick, other times they would prefer to stay wild. Some Roy animals become Biv because of threats of extinction, Yellow predators and often Biv animals such as Orange Yellow cats can kill local wildlife and some must be kept in Biv cages such as zoos.

As Biv democracies flourish than individuals tend to marry interracially and between different religions because each sees their spouse as advantageous to themselves as a double win, or a positive sum game. This causes people to vote less for their own race or religion’s interest or against others different to them because they see other people letting go of their own prejudices. These are Yellow versus Blue Indigo interactions like a melting pot for genes where people survive better by teaming up with each other rather than competing with others using racism as a competitive edge. This intermarriage can be open as with Violet and Blue Indigo if the normal view of a society is that race and religion are irrelevant then intermarriage will increase and opponents to it will be seen as deviates. Sometimes interracial marriages can be Blue and Indigo Violet where the union is secretive and deceptive and a couple might deny their religious backgrounds to avoid a stigma, such as a Catholic marrying a Protestant in Northern Island. These unions can grow rapidly when undetected but can also collapse when public attention brings them out into the open, as illustrated in Shakespeare’s Romeo and Juliet. A similar situation happened in the Iraq war where marriages of Sunni and Shiites were not discussed in the secular government under Saddam Hussein so they were free to form teams with mixed religions. When the country fragmented then people openly competed with each other for scarce resources so any issue which could gain an advantage was used, accusing someone of being a heretic by marrying into another religion gave an excuse to kill them, steal from them, expel them and take over their home, etc. In Bosnia people formed teams of mixed races with Bosnian, Serbian and Croat relatives. When resources became scarce then people competed against each other, accusing someone of being a race traitor was a way to steal from them and take over their property.

If the tipping points of Blue and Indigo Violet don’t cause them to become Roy then marriages between religions and races can be discriminated against as deviants without actual violence and theft though they may be ostracized from their societies. Mixed parentage of Vietnamese and American in the Vietnam War were the result of Yellow teams against Red Orange communism there, after the war they were sometimes discriminated against in Indigo Violet society in America and in Red Vietnam534F[[531]](#endnote-531).

Religion in a marginal society also tends to follow color codes by being a solitary experience in Red, Orange Yellow, Blue and Indigo Violet, or a team based experience in Red Orange, Yellow, Blue Indigo and Violet. In the early times of the Catholic Church there were two opposing philosophies with Aristotle versus Plato, a debate that originated with the Ancient Greeks. Aristotle believed the world could be understood with logic as a series of syllogisms, which implies a deterministic way the universe would have to work. This is like chaos in Roy where a deterministic path is followed, such as a Red gazelle might follow to escape a predator such as a lion or a fox might use to methodically find its prey. In Biv this is represented by Blue I Will and Indigo Violet I Will Not, logic is where something is either true or not true, of something that will or will not happen. This is similar to the Newtonian view of the universe running like a clock where in principle anything can be worked out with observation, measurement, and the scientific method. Einstein had a similar view, relativity had no room for randomness, leading to his observation that God does not play dice with the universe.

Plato had an opposing view, that ultimate reality could never be understood except through a kind of revelation beyond logic, and as with Plato’s Cave535F[[532]](#endnote-532) what we saw were like shadows of reality. This became similar to Quantum Mechanics where ultimate reality can never be observed. The early Catholic Church sided more with Plato’s ideas because heaven as hell seemed like the reality we could not see and our observations were like Plato’s Cave and could not see the afterlife. Knowledge of this then had to come from revelations as it could not be understood logically just as was found later with Quantum Mechanics. This is more a team based philosophy where instead of working out logic in a deterministic manner a team would tend to believe its members without using logic in order to work together. Faith could then be strengthened by other people’s accounts of religious experiences and so people together can share a belief that helps them work together as a team even if it may not be completely true. Aristotle fell out of favor and his works were lost to the West, but survived in Islamic countries. In the twelfth century these were rediscovered in Spain536F[[533]](#endnote-533) and once again Aristotle’s ideas challenged Plato’s. A team based knowledge is statistical in nature and answers are found using probability rather than logical analysis, faith can be according to the likelihood that something is right537F[[534]](#endnote-534). The Church took over the Roman Empire which was Yellow and Predatory by building a Red Orange resistance to religious persecution though Jesus was in many ways a Red religious figure. For example he advocated turning the other cheek and non-violence rather than fighting back against the Yellow Roman armies and refused to join with the religious interpretation of the time as a team. This made the Roman Empire Red Orange eventually and more defensive in nature rather than predatory and this led to a long period of defenses against Yellow predatory Empires outside it. Illogical ideas were able to become dogma because cause and effect was no longer regarded as important to understand God, these were to be believed by the congregation as true even if they did not make logical sense.

Aristotle’s views caused controversy in the Church when they were disseminated from Spain across Europe with new translations, the rival philosophies of Red Orange and Yellow revelation and belief in members of the team came up against Red versus Orange Yellow logic where Red is positive and Orange Yellow is negative giving a logical way of reasoning which led to a true versus false dichotomy, Boolean Algebra and the computer. Logic was seen as a threat to the stability of society deceptively undermining the church with sophistry538F[[535]](#endnote-535) just as Red and Orange Yellow animals are deceptive in nature. The devil was seen as a trickster using false but plausible sounding arguments to draw the faithful away from the herd, some logical arguments such as by Thomas Aquinas539F[[536]](#endnote-536) came close to being heretical but they were only showing that Church beliefs were not logical. Eventually this resurgence in logic led to the Renaissance and modern science and reality was seen by Isaac Newton to be the opposite of Church revelation but a universe where all could be understood by cause and effect, logic, and determinism. This is like a long term oscillation in color codes from a competitive deterministic philosophy in Ancient Greece to a team and faith based philosophy in the Yellow Roman Empire, the team based strength of an Empire can easily overcome deterministic religions and ideas so they hide and scatter, Aristotle’s ideas thus became hidden and lost to the West. Then the Church rose as Red Orange resistance to this Yellow domination but still advocated a team based faith rather than deterministic logic so Aristotle’s ideas were still against the church’s faith. Then as Aristotle’s works were rediscovered in the twelfth century the Red versus Orange Yellow arguments based on true and false, positive and negative, yes and no, etc spread through Europe and challenged the Church which by then was Yellow in some aspects by developing the Holy Roman Empire. This deterministic revival was often crushed and the proponents of it were forced to hide and scatter like Red prey from Yellow predators. The Yellow and Red Orange power of the church waned from this intellectual determinism but it was also weakened like all Empires from rival Yellow and Red Orange states such as Red Orange Protestantism, and the Yellow powers of various kings such as Henry the Eighth and Frederick the Great. The Renaissance led to more deterministic ideas and the advancement of cause and effect in science but eventually quantum mechanics540F[[537]](#endnote-537) was discovered and evidence that much of the world is not logical and works on quantum logic, some parts of reality cannot be ever seen and only appear like the shadows in Plato’s cave and to observe some objects can change their nature. Relativity is still deterministic and so far is not reconcilable with the statistical nature of quantum mechanics just as Aristotle’s determinism was not reconcilable with Plato’s cave.

Platonic views of the world can work well with politics; Plato himself saw various kinds of Government such as rule by Aristocrats, Oligarchs, Democracy and Tyrants as possible in Ancient Greece. Politicians can try to sway individuals with logical arguments which presume the intellect is supreme and logic will come up with better answers in running a government. These are usually Red versus Orange Yellow and Blue versus Indigo Violet but this way of thinking is often driven underground and persecuted by the team based rule by crowds and belief, Red Orange versus Yellow and Blue Indigo versus Violet demagogues can sway crowds with appeals to emotion, being illogical, faith in a religion or political party, becoming angry like a mob or team instinct as the way to defeat logical arguments, etc. At times these crowd or team based based beliefs rule at the ballot box in Biv with Blue Indigo on the left and Violet on the right, at other times cooler and more logical heads prevail and the political debate is more logical between Blue on the left and Indigo Violet on the right.

In Roy political debates also occur but usually the struggle for power precludes democracy and is decided by who is more powerful. Yellow demagogues such as Hitler ruled by emotion and an illogical team based belief in the Fuhrer while on the left Stalin ruled also by emotion and a team based belief in Marxist dogma despite its many illogical aspects. Each demonized the secretive and deceptive parts of society as responsible for its ills of society; Hitler demonized Red Jews and communists for secretly and deceptively plotting against Germany and used the Orange Yellow Gestapo to secretly and deceptively catch them. Stalin demonized Orange Yellow as Nazis spies, imperialist spies, capitalists, etc trying to secretly infiltrate the Red Orange team of communists and used Red secret police and the NKVD to secretly and deceptively expose them.

In Russia after the Communist takeover there was a Red faction that sought to logically work out how to make Communism successful. Stalin overcame this Red faction with Red Orange rule by emotion as terror and illogical policies killed tens of millions of people. After Hitler’s takeover cooler heads tried to logically workout how to run the Nazi Empire and some saw a free trade union European Union similar to Napoleon’s ideas and like the present day. These ideas were driven into hiding by Yellow faith in plunder and Empire aligned with religious overtones being successful.

Team based rule by emotions and beliefs work well in politics and religion which often cooperate as in some Islamic Countries and the close connection with evangelism in Violet Republican politics. Blue Indigo politics in the West became connected with the almost religious fervor some people felt for the team spirit of Communism and more often Stalinism, many believed this would lead to a Worker’s Paradise similar to the idea of a Paradise in the afterlife being promoted by the religious evangelists on the Violet right. Blue Indigo also has connections with religion just as Violet does, the cooperative nature and emphasis on helping one’s fellow man with pensions, health insurance, and higher wages appeals to many Christians as closer to Jesus’ teachings. Roy religions such as Islam also have a left and right wing political aspect, Islam was arguably Yellow in its early times forming teams of different tribes and violently conquering other nations forming an Empire and demanding tribute from other nations and non-believers or Dhinni. In more modern times Sharia Law generally sides with the left wing victim of crime against Yellow predatory criminals, also religious terrorism such as with Al Qaeda arises in opposition to Yellow right wing dictatorships in Islamic countries though it also opposed left wing dictatorship by the Communist Soviet Union in Afghanistan.

Police and the military often have similar roles, though armies can often act in the interests of a particular color code while police as Orange tend to take the middle position between opposing sides. The United Nations often tries to field armies as Orange police such as in Bosnia. Armies usually act because their color code has a grievance against another and there is no Orange police to keep them apart such as the United Nations peacekeeping army. In nature there is sometimes a warlike atmosphere to predator versus prey, such as a pack of wolves harrying a herd of buffalo and any warlike conflict is similar to some interaction in nature. Wars can happen in many ways, where one side has sufficient motivation to start one either as predatory Yellow or defensive and preemptive Red Orange, neutral and buffer organizations such as the Orange League of Nations and United Nations are not strong or skilled enough to prevent one, a relatively small event such as the secretive and deceptive assassination of the Austrian Duke Ferdinand by a Red Serbian trying to protect their country from predatory invasion started the Great War. The chaotic situation arose from secretive and deceptive maneuvering of Indigo Violet in various Empires along with Red countries such as Serbia isolated and vulnerable to invasion. This reached a tipping point with the assassination in a deterministic way with the various treaties in Europe forcing Empires to go war against each other. While Empires are usually team based the scarcity of resources and new additions for an Empire caused these nations to compete deceptively with each other, forming and breaking alliances chaotically. This reached many tipping points in the lead up to the Great War then the more Yellow Empires fought a war of attrition against each other like prides of lions defending and extending their territories.

War can be preventative or pre-emptive such as with the invasion of Iraq over weapons of mass destruction because of fear of a secretive and deceptive attack by terrorists, it can be used to intimidate others like the war in Iraq was designed to bluff and intimidate supporters of Red Al Qaeda by a Yellow show of force, it can be caused by a trade dispute making resources scarce and creating a Roy government such as Japan declaring war on the United States after an oil embargo, and so on. Wars can be similar to societies when Orange police control breaks down such as in the American Civil War, the Los Angeles riots, Red Orange gang wars in Los Angeles, Yellow mafia wars such as in Chicago around the time of Al Capone, early Yellow Nazis battling Red Orange communist gangs in Munich in the 1920s, the loss of control by Yellow Violet Louis X1V of France in the lead up to the French Revolution, Orange Yellow piracy against shipping off the coast of Africa, and so on.

Many military tactics are similar to those used in nature. At the start of world war two shipping used a Red strategy of being secretive and solitary, single ships particularly around the United States were considered to have a better chance of surviving and nominally Red Orange convoys were believed to have a better chance by scattering as Red gazelles would do when attacked by Yellow lions. Later it was found that the Red Orange convoy system worked best when they stayed together, this was like a herd of buffalo where destroyers were like the large males and civilian shipping like the younger and weaker animals. The U Boat strategy had to change as a result so sometimes they would attack relatively openly like a Yellow wolf pack on the surface and other times single U boats would act as Orange Yellow foxes using secrecy and deception to get past the Red Orange defenses to the Red merchant shipping. Afterwards they evaded destruction with deceptive movements to evade radar, such as changing depth to sit on a layer of water with a different temperature to confuse radar, eject fake evidence of their destruction, and stay silent for long periods of time. This is similar to what a lone Orange Yellow fox might do against a Red Orange fox hunt.

Blitzkrieg as practiced by the Yellow Nazis was similar to attacks by Yellow lions or wolves, the sudden and massive attack was intended to scare the enemy into making mistakes such as an animal being isolated from the protection of the herd. The Nazis pushed into the Red Orange lines of the French, breakthrough and bypass Red Orange islands of resistance, rout most of the enemy as Red and then overcome the parts they had encircled. Yellow Lions can do the same thing, attack buffalo until a few are isolated and the rest retreat as Red, then surround the ones left behind to exhaust them like a war of attrition. This worked well in the initial stages in the Yellow Nazi offensive against Red Orange Russia where they managed to rout much of the army as Red, encircle Stalingrad but were unable to breach its Red Orange defenses because of resupply routes into the city from its Red Orange team or allies of Britain and the United States. Later the Red Orange Russians used the same tactics to drive away the main Yellow army and capture large German forces in Stalingrad by encircling them.

The Great War used similar Blitzkrieg tactics with the Schlieffen Plan to attack France via Belgium in world war one, going around the Red Orange Maginot Line by Orange Yellow secrecy and deception but this became bogged down into trench warfare which is like a static Red Orange versus Yellow pair of formations. Attacks were made with smaller groups of soldiers against the larger and more entrenched enemy which had the advantage of a defensive position, this is like a small pride of lions attacking a large herd of buffalo where they cannot rout them because they are not intimidating enough so the strongest buffalo can concentrate on attacking the lions with their horns. Weaker animals are like weaker parts of the trench and without a way to force a retreat the strong parts of the defenses protect the weaker parts in many parallel layers of defense in depth. Towards the end a lack of food and other supplies was decisive so this is like a herd of buffalo in a drought weakened enough to be overcome by the lions in a war of attrition. Red Orange tanks were also developed and this enabled a breakthrough in the Yellow defenses and encirclement of troops left behind. Once an army is retreating as with the Red French and British in the early part of world war one, the Germans towards the end of world war two against the Russians they can make mistakes, lose their team formations and leave weaker and injured members behind.

The cold war between America and the Soviet Union was another kind of trench warfare where defense was stronger than offence, whoever attacked first faced annihilation with a counterattack because the attack would waste much of his weaponry in missing some targets, and leave himself open against those weapons with his own exhausted. This was like trench warfare in world war one where an attack was often ineffective and could leave the attacker vulnerable to a counterattack before they could rearm. The cold war also ended like world war one, the Soviet Union collapsed from a lack of supplies as well as being drained by fruitless attacks such as the occupation of Afghanistan, similar to how the Germans and Austrians had run out of supplies after being drained by a failed offensive541F[[538]](#endnote-538).

As Clausewitz said, War is the continuation of politics by other means and many Empires have alternated from times of Roy war to Biv peace to pay off war debts and rearm for the next war. France and Britain did this many times in their wars through history; France had a Yellow royalty which battled against the more Biv based trading Empire of the British in a bid to exhaust the other into being defeated. The wars often kept going because the plunder that came with victory would pay for the cost of the war, France miscalculated that by helping to foment a war of independence between America and England the English would be weakened enough to leave themselves open to invasion. Instead the Yellow monarchy was deposed because the starving Red peasantry became a Red Orange mob, like Red animals such as gazelles evolving into stronger Red Orange animals such as buffalo from too many attacks from Yellow predators. This Red Orange government in a backlash against Yellow aristocracy and the Church killed most of them, then went on to attack Europe much as the Yellow armies had done. Just as modern Capitalism felt threatened by Red Orange communism, Biv England helped to keep Red Orange strong with their attempts to re-establish a Yellow monarchy in France and this led to the rise of Red Orange Napoleon Bonaparte542F[[539]](#endnote-539). Red Orange overreached in the various Napoleonic wars and Yellow monarchies in Europe armed by Biv England defeated Napoleon and re-established the Yellow monarchy in France. This is like Red Orange communism overreaching with the invasion of Afghanistan and supporting the Warsaw Pack and Cuba, this led to Yellow forces in the cold war bankrupting the Soviet Union in a war of attrition leading to a chaotic Red collapse. Modern warfare is a hybrid mix of Roy warfare and Biv trade, like a mixed economy has Roy welfare and Orange police along with Biv Capitalism and Indigo markets. Iran is an example where Roy sanctions and threats of bombing or invading the country coincide with buying their oil and selling them Violet refined products including petrol for cars.

Russia is now a marginal society and trades openly with the Biv west but recently invaded Georgia, supplies nuclear technology to Iran and fought Red Orange separatists in Chechnya. Biv China profits from trade with the United States while plotting to invade Biv Taiwan. Israel trades indirectly with many Arab nations that plot to destroy it, Serbia and Bosnia seek to join the European Union while tensions from the war between them persist, India and Pakistan trade with each other while sometimes going to the brink of nuclear war over Kashmir, wars regularly break out in Africa between nations and warlords while trade in diamonds, coffee, and gold go on close by, Afghanistan is a focus of the war against Al Qaeda while also supplying much of the world’s heroin and having huge reserves of minerals for trade after the war, trade with South America in coffee and other produce goes on alongside American troops in the drug war, etc. The balance of Roy and Biv is like a sparse forest where Biv forests predominate as with global trade alongside Roy small wars, Roy areas are found such as international criminal organizations against international police such as Interpol, and scarcity from famine and natural disasters causing localized Roy outbreaks such as in Darfur and Haiti which is like the boundary of the forest moving according to damage from animals and changing resources from the weather.

Red versus Orange Yellow and Blue versus Indigo Violet also tend to become part of the mixed economy in the global marginal society, just as wars and trade do. These colors are secretive and deceptive and this shadow war of Red versus Orange Yellow also can become a part of international politics. The left and right each have intelligence agencies that fight with each other covertly, for example the American CIA, British MI5, Israeli Mossad, French DGSE, German BND, Italian AISE, Cuban DGI, Pakistani ISI, Russian GRU, and Chinese MSS. Secretive Biv business deals of Blue versus Indigo Violet can become intertwined with their Roy counterparts, each intelligence service tries to learn more about all the others, plant double agents in them and avoid them in their own agencies, steal details of new weaponry, monitor and report to their governments on the stability of troubled areas such as the Middle East, and so on.

As a cover these intelligence agents often pose as diplomatic staff, scientists at conferences, businesspeople on sales trips and conventions, casual acquaintances met socially such as women used to entrap others with sex, and so on. They can also aim to infiltrate businesses to compromise them and allow agents to be in their staff more freely, for example spies in another country’s defense contractors can allow weapons technology to be stolen and spies in a rival’s oil company can help to track each other’s moves in the Great Game of strategic industries such as oil drilling, pipelines, control of strategic minerals such as uranium for possible atomic bomb development, purchases of banned imports such as parts to build rockets or create nuclear centrifuges, and so on. These shadow or cold wars are more important when open or hot wars are not occurring, just as business can alternate with sometimes Indigo Violet versus Blue Indigo and other times Indigo Violet versus Blue are dominant. Roy interactions can even dominate secretive and deceptive Biv technologies for example the space shuttle and other lifters launched spy satellites for military use as well as satellites to map the Earth. Encryption algorithms543F[[540]](#endnote-540) such as DES and Blowfish are used commercially to protect banking transactions where secrecy is necessary, military uses can be to protect armed forces communications and also to break the ciphers used by potential enemies, decrypt communications on the Internet sent openly and also secretly and deceptively such as stenography where codes messages are inserted into innocent looking images.

Violet and Blue Indigo are also closely associated with Yellow and Red Orange in the making of open rather than secretive weapons such as tanks, aircraft carriers, and guns. This is usually called the military industrial complex and often the expenditure on weapons both open and secretive can consume much of the wealth of nations even without war. This can be self-perpetuating where so much is spent on weaponry that resources become scarce and the economy turns to Roy warfare. The Soviet Union versus the West in the cold war bankrupted the Russians and almost bankrupted the West with the cost of Orange Yellow secret and deceptive weapons such as nuclear submarines hard to detect with sonar, stealth bombers invisible to radar, monitoring each other’s encrypted communications and requiring massive computer power to decrypt them, and so on. France and England wasted money for centuries in building weapons against each other; this led to the Roy French Revolution.

In a marginal society Roy and Biv people and organizations each try to get converts to their world view, often because with their own upbringing and associations they see their own color code as better than the others. Often people think Biv or Roy is a superior system just because it works better in their own country or area. Russia for example had a Roy Yellow monarchy with Czar Nicholas and had never known a Biv capitalist economy like in the West, experience in trying Capitalism in Africa shows that Roy forms of government are either more stable or it is difficult for the population to commit to Biv democracy because of Roy wars and crime. A common reason for this is the borders of many countries drawn by Britain cut across racial boundaries; Iraq for example had a nearly ungovernable mix with a minority of Sunni Muslins and a majority of Shiite so any full democracy would be presumed to discriminate against the Sunnis as well as the Kurdish minority. Difficulties in Turkish democracy have been partially caused by a Kurdish minority which would be discriminated against by the majority Turkmen leading to the need for a strong military because of Red Orange resistance to this majority rule. American strategies in world politics seem to recognize this as full democracy to Hong Kong, Saudi Arabia, Iraq, Kuwait, Jordan, Egypt, and most of Africa has not been actively pursued or regarded as contrary to American interests where Islam would have the majority in an election.

The mix of Roy and Biv can continue even during and after a war, in Iraq the occupation was Roy military but there was Biv businesses such as Halliburton contracting to supply the armed forces and also rebuild the country’s infrastructure. There were attempts to support an Indigo stock exchange there, and contracts to rebuild were given to some Iraqi companies to create a Biv economy. In Afghanistan the United States helps to build the country’s infrastructure such as roads and housing, while at other times it destroys them as Roy. At the end of world war two the Biv Marshall Plan helped to rebuild Germany and Japan after their destruction by Roy bombing, Biv trade went on with Red China after it was confronted militarily in North Korea, some trade was done with the Soviet Union in wheat after the proxy war against them in Vietnam. War both open as Red Orange versus Yellow and secretive as Red versus Orange Yellow can be seen as a business opportunity not only in the build up to and fighting of the war, but the rebuilding afterward is similar to the aftermath of a natural disaster such as an earthquake or hurricane.

Sometimes this rebuilding money can be wasted if the vanquished nation is mainly Roy and Biv Capitalism was not well established before. Much of the aid for Iraq was poorly spent and often was only replacing what Roy sanctions and the war had destroyed. Roy Russia after the breakup of the Soviet Union had little idea on how to run a Biv system and much of the aid including the shock therapy transition to a pure Biv economy that didn’t even exist in the West failed. The mixed Roy and Biv situation can become a quagmire for those intervening such as the United States in Iraq often because the Biv companies involved have an incentive for the problems to continue, especially if they are a Violet monopoly being paid under a cost plus or no bid contract or Blue Indigo contractors who earn high wages there. This becomes like the remedial actions in a ghetto or in poor countries, the money coming in pays Biv experts to handle Roy situations and often the money flows out again in wages and company profits or is frittered away on projects that get destroyed in Roy conflicts. For example the rebuilding of Iraq was accompanied by more destruction as lawless criminals stole and murdered freely, militias of Sunni killed Shia and vice versa, and after Rumsfeld allowed Baghdad to implode into lawlessness to weaken the Baath Party in the aftermath. This can become a permanent money drain until the apparent incompetence and Indigo Violet becomes too obvious and the aid is done properly or abandoned.

Sometimes the Biv intervention succeeds as in parts of South America with the IMF, a Biv economy thrives enough to overcome the Roy civil war around it and convert Roy people to wanting to work and share in the abundant resources of Biv. Yellow death squads in Argentina battled Red Orange revolutionaries and drug lords, Orange Yellow Special Forces might infiltrate and assassinate Red leaders or Red may secretly bribe enough politicians or have enough sympathizers in the government to continue. Red Orange can kidnap or kill key Yellow people as the Vietnamese did in the Tet offensive as well as Violet engineers, teachers, administrators, and construction workers from large projects such as dams and in an extreme case kill most of the Biv talented workers like the Khmer Rouge did. In Iraq Biv personnel was also targeted and had to be constantly protected to help rebuild the Biv economy.

Red resistance can blend in to the countryside and receive food, supplies and recruits from Blue workers and farmers, also when the Yellow military makes Blue industry less economical and gives people little alternative to survive with Biv business they can become Red in the hope of making a living by seizing control of the country, living off the remaining Blue peasants, using weapons to raid Violet and Yellow areas, kidnapping Yellow soldiers and Violet businessmen for ransom, and so on. Marxist propaganda can justify a Roy approach as it criticizes Yellow and Violet as capitalism saying it is flawed and doomed to fail while Roy Communism is the only path that will succeed. Violet business can support a Yellow strongman to keep Red Orange insurgents at bay, like German businesses like Thyssen and Krupp did with Hitler to put down Communist insurrection in Munich in the 1920s as Pinochet did using American aid to for Yellow death squads in Argentina, as Violet America supporting Yellow Saddam against the Iranian Revolution, as Yellow Marcos did with Violet American aid against Red communists in the Philippines, and with Yellow Somoza against Red Orange communists in Nicaragua. Removing Red insurgents from among Blue workers and farmers is difficult and failed in Vietnam, if this succeeds the Yellow military becomes less necessary and Violet talent may allow the country to become sufficiently Biv for communism to not appeal to enough people. If the country is too poor the economics of scarcity will cause it to revert to Roy, what often happens is one part of the country is wealthy enough to support a Biv economy with natural resources or exploiting the poorer areas, using the wealth taken from them to pay for Orange police and Yellow death squads, armies, or local strong men to enforce this inequality.

Yellow Empire building can attract Violet talent in the form of artists, adults, actors, an intelligentsia, similar to how Violet is attracted to Yellow organized crime. Yellow Nazism in Nazi Germany attracted architects to build new buildings and monuments, engineers to make autobahns, actors in a film industry with Goebbels, and so on. Hitler youth and others with Aryan blood were seen as a Violet flowing of the Blue working Volk or German people, protected by Yellow Nazis from Red Orange communist insurgents and Orange Yellow Gestapo looking for Red communists and later Jews. This idea of racial discrimination based on pure blood is Red versus Orange Yellow and Blue versus Indigo Violet because these colors are deterministic; the assumption is that their genetic heritage is most important for their success, that they are fragile and prone to tipping points and collapse from secretive infiltration by Red communism. Some also thought that this competition is Darwinian and the political right should triumph and sometimes exterminate the left to purify the gene pool.

Empires such as Tamerlane’s plundered Red nations as its prey and regularly fed on them by demanding tribute and sacking cities for any Red Orange resistance, but also trade from Blue farmers and workers was negotiated and paid for to provide raw materials to the Violet elite and talented at Samarkand. In a modern example the United States with the Monroe Doctrine controlled South America as a Yellow Violet Empire receiving plunder from it and using the Yellow military to suppress Red Orange resistance, and also to protect Biv companies given favorable business arrangements in countries there.

Another example is the British Empire using Yellow military forces to suppress Red desires for independence in countries like India and America while expanding Biv trade with Blue workers and Green Blue resources in these countries. More extreme was Nazi Germany plundering some countries in world war two such as Poland but maintaining a more Biv trade with Belgium and Norway by paying for many resources. During much of the Second World War Biv trade continued with the United States selling to Germany and Japan and when the Biv trade was severed with Violet businesses such as Krupp and Thyssen in Germany then American joined the war as an Orange police action. Japan needed oil to maintain its Yellow Violet war machine and Empire, Germany and Japan became Yellow predators looking to make other countries Blue parts of their Empire, attacking Red Communists and Red Orange resistance to this. Germany made it a priority to try and take over the oil fields of Arabia and Baku in Georgia in world war two while Japan expanded southward to take over the Philippines, Singapore, and Indonesia.

Roy governments can be very unstable if there are no Orange police, like no middle of the food chain in the animal kingdom. A war between Yellow Germany and Red Orange Russia was hard to avoid because Britain was not strong enough to deter Hitler, just as they weren’t strong enough to deter the world war from beginning. A study of game theory by de Mesquita544F[[541]](#endnote-541) showed that Britain may have been able to stop the war by a show of force with their navy in the Mediterranean. The evolution of Orange police between nations waxed and waned as it does in a country or community. For example from the Middle Ages most of the European wars were between Spain, France, Prussia, the Holy Roman Empire, Britain, Holland and Russia. At various times each of these nations was Yellow predatory, seeking to expand its Empire at the expense of the others. Typically alliances would change between nations, each of which was sometimes predator but also Red prey. To avoid this each Empire spent a lot of blood and treasure on defenses such as the Maginot Line for France, the British protecting themselves against invasion, the Holy Roman Empire using the fear of excommunication and so on. At other times they overspent on a healthy attacking force, intending to feed on other Empires by tribute, taxes, being powerful enough to repudiate their debts, and annexing territory.

Some Empires learned to work in the middle of this Roy conflict by siding with the Red prey and helping to defend them as Red Orange and then siding with Yellow as Orange Yellow, this can average out as an Orange neutrality and increase stability and prevent wars. Britain did this against Napoleon by allying itself with Yellow royalty and later supported Red Orange Russia against Yellow Nazi Germany. When Russia invaded the Crimea they opposed it but later supported Russia in the Great War. From these shifting alliances came a growing recognition that war was unstable and bad for business, treaties often caused wars as much as prevented them so an Orange neutral League of Nations was tried and then later a more successful United Nations.

The evolution of international police and criminal courts are a natural reaction to seeking a balance of the left and right just as most nations evolve a stable Orange police force. This can sometimes be in the form of religion such as Sharia Law in Islam, the devotion of Muslims make this law very stable as to repudiate it is tantamount to large numbers of Muslims losing their faith. The Christian Empire had a similar stability with laws being based on the twelve commandments and the teachings of Jesus, once most of Europe was Christian it was natural for secular laws and police to fine tune the Biblical teachings into such as British common law545F[[542]](#endnote-542). Religious and secular Orange laws can conflict and result in the separation of Church and State, usually conflicts are where one side may favor the left and other side the right which separates them into adversaries to some degree. For example the Catholic Church lost influence in the middle ages by becoming corrupt with wealthy bishops and clergy, the selling of indulgences or Simony lead to the schism with Luther and the start of Protestantism. The Holy Roman Empire546F[[543]](#endnote-543) as Yellow tried to dominate other nation’s kings, this lead to a rejection of the power of the church in France and in the French Revolution the complete removal and often execution of priests to form a secular legal system, later strengthened by Napoleon Bonaparte.

Other nations tried to form a balance between church and state, today this happens in many Islamic countries such as Saudi Arabia, other countries such as Egypt and Turkey impose secular rule and laws with often violent religious opposition and terrorism. Al Qaeda in part exists to re-establish religious government uniting all Islamic countries under a Caliphate, which was lost when the Ottoman Empire was dissolved after world war two. Sometimes these rival Orange police of church and state separate into Red Orange versus Orange Yellow, religious protestors can demand a theocracy under a Yellow dictatorship such as under Mubarak in Egypt; these are kept in check by Orange Yellow spies and espionage trying to divide and conquer these Red Orange dissidents. Other times the religious law is seen as a secret police supporting the Yellow monarchy as in Saudi Arabia while Red Orange demonstrators sometimes demand more secular rights for women. Church and State are difficult to reconcile because religious dogma based on Islamic or Christian scripture cannot easily change while secular laws move to the middle way between the Yellow right and Red left as the balance of power shifts. This makes friction between the church and state inevitable because common law can change with new legal precedent but scripture can only be strictly or loosely adhered to.

These differences between Orange policing such as religious police, military police, secret police, and conventional police can evolve with different laws. Usually similar crimes are described, for example murder is prohibited by all these Orange police but each might have different penalties, rules of evidence, judges, and jurisdictions. In Iraq this was particularly complicated because religious Sharia Law was imposed by some, the Allies used military law in other areas, some contractors were immunized against conventional police law and could not be prosecuted in the United States, Kurds imposed a different version of laws in their areas to Sunni and Shia, some tribes meted out their own justice, and still others imposed a secular law sometimes from Saddam Hussein and at other times from the newly elected government.

In these cases policing itself created conflicts and the resulting instability in Roy allowed Yellow criminals to loot freely archaeological digs and museums as well as settling old scores with murder, falsely accusing enemies of being terrorists, kidnapping people for ransom, as well as exacting revenge on Allied soldiers for perceived slights against their families when searched. People obeying the Orange law from one group were prosecuted and even killed for breaking other laws from other Orange police. Under secular law many Iraqis sold alcohol only to be attacked by religious police, Iraqi women sometimes tried to continue their education and not wear a Burka under the secular laws only to be attacked by Orange religious police.

Many issues in Roy are caused by Biv society manipulating them, rewarding them for some behaviors and penalizing them for others much as a forest rewards some animals with fruit and tasty leaves for spreading pollen and seeds and penalizes others by evolving thorns and poisonous fruit. Roy political issues can then become intractable because of this influence, like in the forest where animals often need to fight an encroaching jungle to have a territory, find trees that are better food and compete with others in their own species to better serve a plant species. This is in many ways predicted in the novel Erehwon by Samuel Butler where he believed that the evolution of machines world turn man into slaves, changing our evolution to be like aphids on a plant and surviving according to how well we feed and maintain them as well as help them to reproduce with mass production. The solution to this in the novel was to restrict the complexity of machines to avoid this enslavement, this idea was used in the novel Dune by Frank Herbert to ban artificial intelligence in the distant future. In many primitive societies machinery is limited and people have much less dependence on keeping machines working to survive.

Western society is more Biv and most machines are Biv in nature as they create abundance where cooperation and competition are more efficient than war as in Roy. Consequently most people on Biv rely on machines to improve their competitiveness in the market or to help cooperate with others such as phones, email, social networks, and television. Farming and mining are much more competitive with machinery such as mechanized harvesters, trucks to take produce to and from market, drills for deeper oil deposits, and so on. Markets to be competitive with others around the world need to be fully computerized with shares transactions occurring in thousandths of a second and algorithms on computers competing with each other to make profits without human intervention. Cooperation is also essential in Biv such as where Violet companies watch each other’s prices and sales and often match them as a legal form of price fixing. Since each knows the others will match price cuts they can raise prices and know others will do the same, increasing all their profits. Many businesses cooperate with their clients to give good service by analyzing their purchases and browsing habits online not to compete against them but to make products that cooperate with their desires and needs.

Sometimes people cooperate with machines and other times they compete with them. In many factories such as cars people cooperate with robots who build part of the car, computers that analyze where parts might break down, and what features consumers want. Other factories compete against artificial intelligence where stock brokers and hedge funds try to outperform computers trading stocks, low wage countries try to compete with cheap labor against machines in the West such as in farming, musicians try to use their talent to outsell computer generated music with demographic analysis, and so on.

In Roy people can have a predator prey relationship with machines, Yellow governments and criminals can use and threaten to use advanced weapons such as nuclear bombs, biological weaponry, depleted uranium made tanks, and are developing robots that can identity terrorists and enemy soldiers and kill them without human intervention. This gives two future visions of the future with machines, a Roy one such as the Terminator, I Robot, the Matrix, and Battlestar Galactica or a Biv one such as the movie A.I., or TV shows such as Star Trek and Stargate where other races as Roy rather than Biv technology is the enemy.

Roy and Biv societies do not usually evolve in isolation, in forests and savannahs plants and animals evolve each other. People in Roy countries sometimes affect Biv ones with war threats, for example the Yellow Nazis taking over Biv European countries and Red Orange communism trying to take over the world, Biv tries to stop this and also tries to turn them into Biv and serve the global Biv economy, like animals serving the forest. This is why Biv countries try to resolve problems in other countries, they see Green Blue resources which could be used for consumer products too dangerous to mine because of wars, Red Orange and Yellow people fighting which could be working together as Blue Indigo workers and Violet management, talented scientists and artists with no Violet opportunities who instead become criminals or part of the Yellow elite, and huge untapped markets for Biv consumer goods. Roy countries see Biv as an untapped opportunity to get weapons and aid to help them against rival countries and dissension within their own nation, food for natural disasters so Yellow rulers don’t need to help these citizens and can spend more money on weapons, a market for Green resources such as oil and gold to help pay for weapons, aid which can be diverted into overseas bank accounts, and corrupt payments for government contracts.

Roy and Biv can each benefit from extending their influence at the expense of the other; this is equivalent to Green increasing at the expense of Green Blue and vice versa. Each can also benefit by tricking the other into being dominated, for example some plants can evolve birds with longer beaks to feed exclusively on them and then their beaks become too long to use with other flowers or to catch Roy insects. Biv can benefit from Roy animals and people being fed by it but it need not prevent the predator prey cycles of Roy to do this. For example some birds feed on others but as long as enough birds eat their fruit, drink their nectar and spread the resulting pollen and seeds the Biv plants get what they need and don’t need to convert predators into feeding on plants as well.

In the same way Biv countries can benefit if Roy countries turn Biv such as when Russia became a democracy and China embraced capitalism, but it also benefits when countries don’t change to Biv because it gives less competition to Blue and Indigo Violet. Many Blue workers and Indigo Violet companies have lost money from third world nations building a manufacturing base. Blue Indigo workers with high wages may get cheaper products to buy and Violet companies get cheaper overseas wages, but competition with other plants can hurt a forest as well. For example introducing new plants into a forest may appear to help the forest overall because if they are beneficial they may survive and if unsuitable they will die out, but one kind of plant may be made extinct by another. Generally increased competition from other countries makes it sometimes harder for some people and easier for others, in a country that survive by competing this increased cooperation with other countries can remove a competitive advantage for them. For example Japan had a competitive advantage in electronics until globalization and the fall in communism made countries like China and Vietnam competitors.

Trade barriers can be used in Biv when scarce resources, caused by too much competition in trade turns an area to Roy, the perceived injustice of this can cause Blue Indigo to demand protection against lower wages as they would against scab labor working for less in their own country. Violet companies tend to form a cooperative which helps each other, with too much Indigo Violet competition from overseas they may ask for trade barriers to protect themselves.

Globalization has resulted in winners and losers, many American manufacturing companies have moved offshore or gone bankrupt while others have thrived by being able to beat their competition with cheaper products or sold products such as software into new markets. Blue Indigo and Violet countries have sometimes benefitted from globalization by getting cheap Blue labor from developing countries while selling to relatively wealthy Blue and Blue Indigo consumers in their own Western countries. Software has become a Violet part of many people’s lives, the Violet talent in designing this has also created a network of cooperation between them so people might use many interlocked programs to create a cooperative experience rather than these companies competing with each other. For example Microsoft Windows, Google, Facebook, Myspace, Messenger, Flickr, etc can provide easy compatibility with each other. Below this level are Indigo Violet software programs that compete with each other but don’t cooperate well.

Much of the motivation for free trade was to increase the size and influence of Biv markets and lure Roy countries such as Yellow authoritarian governments and Red Communist ones to become Biv and democratic, or at least a mixed economy in the case of China. The main reason for this was that Biv economies were threatened by Roy ideology and wars such as Red Marx’s prediction that Capitalism would collapse or Yellow Hitler’s attempt to take over the world as a Roy Empire battling against Red communism. The Biv west needed to balance this by supporting Yellow dictatorships to reduce Red communism in the Philippines, Nicaragua, Argentina, etc while sometimes allowing Red movements to win when the Yellow ones became too brutal or expensive to maintain such as in Vietnam and Iran. Isolationism in America was where the Biv economy would ignore Roy areas unless they had to intervene in self-defense; this was the policy at the start of both world wars. Many also thought like Malthus that Biv capitalism would lead to an unsustainable growth of industry that the Earth could not supply and which would use up resources too quickly, Roy nations with a lower level of technology then would use scarce resources more efficiently.

The Cold War and nuclear weapons reduced the benefits of isolationism because the Red enemy in the Soviet Union might become too strong to be defeated, Communism might overwhelm the Biv west, and in world war two Hitler nearly won by developing nuclear weapons first. Japan, Taiwan, Hong Kong, and South Korea were subsidized by allowing them to import more to Western countries to give a good Biv example to the Red communist countries of China, Vietnam, and North Korea and to refute their belief that capitalism was doomed. Biv propaganda was fed into the Soviet Union by radio stations to undermine faith in communism and trade sanctions were used to stop Roy dependence on Biv industry to overcome their Red Orange stagnation.

Even supported Yellow dictators were to be removed as soon as the Red communist threat was gone but Red Islamic terrorism has replaced communism as a threat in some areas. Against this increase in Biv domination is the desire by some to install a Yellow dictator to supply oil or food produce rather than to allow a Biv free market there to raise prices or consume the goods locally. Defense industries can make large Biv profits selling weapons to Roy countries who then expend them on fighting each other and buy more of them, sometimes the Biv government also donates them to Roy countries to suppress Red terrorism and assure regular supplies of Green Blue materials such as oil from the Middle East. These sales can subsidize Biv defense, they sell inferior weapons to Roy countries which helps to pay for research and development and if they are threatened directly then their superior weapons will defend them. The United States finished up as a big winner in both world wars with this strategy, with much of the rest of the world’s industrial capacity destroyed their Biv businesses dominated until others rebuilt.

Biv politicians also benefit from Roy countries as a way to make their opponents look weak on foreign policy, arms reductions are portrayed as dangerous in America even though it spends more on the military than the rest of the world combined, and the Soviet Union as a threat was exaggerated for profit by the military industrial complex in the Cold War. The media also profits from this, just as it sells newspapers and gets market share for TV news by exaggerating the threats behind isolated crimes and accidents, it profits from portraying the Roy world as dangerous which leads people to vote for more Yellow dictator control of Red areas, a larger military budget, and more arms sales overseas. Locally it calls for more police, longer jail terms, and increases distrust of people for each other as well as of overseas Roy countries.

At other times Biv countries simply misunderstand Roy and prolong or even start conflicts with help that causes more harm than good. In Biv the relative abundance makes it logical for people to compete and cooperate in a positive sum game, after a time this strategy appears to be the only efficient way to run a society and idealists want to convert Roy countries to Biv. Usually however it doesn’t work or becomes too expensive and the changes are seen as meddling or backfire on the Biv country. For example Red welfare seemed to be a good way to fix poverty in Biv society particularly in Red areas such as racial ghettoes, economically depressed areas such as where industry has collapsed, popular tourist areas where employment was only available for part of the year, seasonal farming areas and so on. Welfare is like food for Red grazing animals where they get used to the free lunch kind of lifestyle, have offspring with others who feel the same way and start to evolve people with Red attitudes while other color coded people move out of these ghettoes and into the Biv economy, or become Orange Yellow criminals and exploit Red people as a resource of relatively weak people with regular income who cannot afford to live outside the high crime area.

Similar problems can happen with international aid, Red people can become dependent on the aid and have offspring with less ability to function in a Roy or Biv society. Often Yellow warlords raid them and take their aid food along with some people to become new Yellow predatory soldiers. Providing the food at the base of the Roy food chain causes people to take goods according to how powerful they are, with a number of Yellow warlords if it is a failed state or a Yellow dictator often supported also by Biv countries while the Red aid wards off communism or Islamic terrorism. While the country remains poor then Roy predator prey relationships will persist and like feeding wild grazing animals in a drought this will attract predators to them.

Supporting Yellow governments causes similar problems, providing food and aid is like caging predators in a zoo in that they become dependent on aid and become tame only if the aid continues rather than building a Biv society. They may also attack Red and Red Orange less because it is in their interest for these threats to continue because solving the problem of Red terrorism will remove the need for aid. The result is regular aid to the Roy countries and Yellow dictators evolve cronies to become a ruling elite instead of a democracy and fear of a Red takeover keeps the aid flowing, this happened with Marcos and Suharto for example. Red people benefit from this to some degree by stealing from Yellow and also by the reduced need of Yellow to plunder the Red peasants.

An imposed police presence such as allied forces in Iraq or Afghanistan cannot easily find the middle ground between the factions and can find themselves acting as Red Orange or Orange Yellow, favoring one and then the other loses faith in them or even attacks them. Providing peacekeeping Orange troops can also work out badly as the UN found in Bosnia when they are not perceived as neutral. The problem is Orange laws evolve as a middle ground between Red and Yellow and an outside force cannot easily develop the sensitively to find this compromise where both sides respect and want the Orange police, the middle ground in American on an issue would be different in Iraq for example. Usually then the outside police are treated as Red Orange or Orange Yellow on different issues, for example Allied troops in Iraq were seen as Orange Yellow by acting secretly and deceptively raiding people’s homes looking for Red terrorists, and sometimes stealing from them. This developed a Red Orange resistance as in nature where Iraqis who had been raided like this began to fight back by joining the terrorists.

The United Nations in Bosnia tried to act as Orange peacekeepers but became perceived by Serbs as Red Orange defenders of Bosnians, who came to depend on their strength and visibility to deter Yellow attacks just as Red Orange buffalo deter attacks from lions. The Serbs became more Orange Yellow as they saw the UN as the enemy and often deceptively got past them to attack Red Bosnians directly. The Bosnians under an arms embargo were forced to depend on the UN who often placed their own safety first as the Serbs attacked them and refused to recognize their Orange neutrality. In the Middle East America has long failed to be seen by Israel and the Palestinians as an honest Orange policeman because of a perceived Red Orange preference to defend Israel and a failure to thoroughly understand the issues to find the middle ground needed for a peace settlement to work.

Biv democracy can create instability in Roy as color codes oscillate then usually move back to their original ratios to each other. For example Red communism caused an increase in Yellow authoritarian governments in Germany and Italy and later in right wing dictatorships around the world to restore the color balance, like an excess of Red prey can allow Yellow predators to evolve and increase in numbers. Red prey such as gazelles and zebras eat more Violet leaves such as grass and acacia leaves, this is like Red communists wanting to control and live off Violet capitalism by stealing their Violet technology, making Violet talented people subservient to look after Red people such as doctors being paid low wages, and so on. This can cause Biv elections to elect people from the right, as Violet representatives of these endangered capitalists and Yellow dictators such as in Germany where Violet companies like Thyssen and Krupp helped to elect Yellow Hitler to control the Red communists. An excess of Red predators in Africa causes Acacia trees to evolve thorns to protect their Violet leaves, Biv develop a Violet Yellow military industrial complete to protect Violet technology from theft like the Acacia thorns protect their leaves.

Eventually the Red Communist threat was contained and Biv elections could safely swing back more to the left and the military industrial complex wound down after the end of the Cold War, this is like Acacia plants needing fewer thorns with less Red grazing animals around. With Yellow growing too strong such as Germany and Austria in world war one and Germany, Italy and Japan in world war two then Biv governments swing to the left in elections as with Roosevelt in world war two. Biv fights Yellow after it becomes too strong, Hitler was appeased for a long time and Mussolini was admired in the west to some degree, Japan was sold oil by the United States until its expansion in China became too worrisome. The left leaning Biv governments supported Red prey nations such as Red Russia, Red Abyssinia against Yellow Mussolini, Red China against Yellow Japan, and the United States supported Britain when they became Red prey to the Yellow Nazis. Sometimes this counterbalancing goes too far, overcoming Yellow Nazism allowed Red communism to expand which in turn brought a succession of right wing Biv governments to contain it.

Often Biv governments don’t understand the need for Orange policing and assume that the Indigo market can replace it such as with shock therapy to reform the Russian economy into a Biv capitalist one. This is seen in the American stock market where frauds such as Ponzi schemes, naked short selling, pump and dump schemes occur but are often inadequately policed because of a belief in the Indigo market to avoid them without policing. Biv governments also have different ideas on the Indigo market and this causes confusion as to what jurisdiction is responsible for it. In the international marketplace different countries might have a laissez faire attitude to consumer protection on the theory that bad products will give a company a bad reputation and put them out of business so no Orange laws are necessary. Other countries have stringent Orange consumer protection where companies can be fined for selling dangerous or misleading products.

Roy governments sometimes try to turn Biv countries into Roy and at other times they benefit more from leaving them to be trading partners. Karl Marx believed the Biv style of business was doomed to fail because it would always grow too fast and then collapse in booms and busts. This is like Red versus Orange Yellow and Blue versus Indigo Violet which act secretly and deceptively, growing chaotically then reaching a tipping point and partially collapsing. The creation of a Roy Communist state was supposed to happen naturally from a fully developed capitalist one such as Germany in the early twentieth century but Russia instead became the first Communist state. It was believed that all Western countries under Biv systems would eventually become Red, and capitalist technology would sustain these states. Yellow Empires have always had similar aspirations, i.e. to be sustained from the technology and resources of other countries, from the Roman Empire, Genghis Khan and the Hordes, Tamerlane, early Islam, the British and other modern Empires, each sought to control as many other countries as it could militarily.

Roy countries often see Biv as morally corrupt and sinful because issues such as abortion, homosexuality, adultery, pornography, alcohol, dancing, listening to music, flying kites, being an atheist or apostate, women’s equal rights, etc are allowed to be more a free Indigo choice rather than tightly regulated by Orange police. Just as the West sees some Roy countries as backward and unable to sustain an Indigo market economy, Roy sees Biv as morally backward and unable to Orange police itself. Karl Marx saw much of what capitalists did in business and imperialism as criminally wrong and that Communism should punish them for it. Workers in the English early Industrial Revolution were written about by Marx as underpaid, overworked, and often poisoned or hurt in industrial accidents by an indifference to workplace safety. Capitalists were Yellow predators and like Red prey in the animal kingdom it seemed the Red victims of Capitalism would be better off without predators. Marx saw this environment as having scarce resources where the workers could never have enough because the Yellow capitalists were too greedy, but he did not foresee how the Biv system would work with more abundant resources.

Red Communism slowed its growth after world war one as Stalin became less ambitious to takeover other Biv countries, even ordering Communists in France and America to not plan insurrections but to present an image of a peaceful alternative to capitalism, this resulted in a high percentage of the popular vote in France, Italy, and Germany and it appeared that communism could make a transition to power there democratically. Yellow Empires such as the British, Belgian, Dutch, French, German, Austrian, American, Ottoman, Japanese, and Italian all tended to avoid war by the nineteenth century or restrict it to small campaigns, this was partly because increased resources from technology made these Empires more Biv and war was bad for business.

Just as Roy imbalances in Red Communism and Yellow Authoritarianism can cause oscillations in Biv governments to restore the color balance, persistent Biv imbalances can affect Roy politics. If Biv countries move far to the right over other issues such as abortion or a reliance on Violet and Indigo Violet business, then this can move foreign policy to the right as well. If Violet Yellow dominates in Biv then this can cause other Yellow and Orange Yellow dictators to be supported by them, as well as attempts to spread Violet Capitalism. This can lead to economic stagnation where only large companies are supported in the Empire, their political connections lead to the government choosing the winners of economic competition. Business in these Yellow dictatorships would dominate the left and lead to a Red Orange resistance; this is seen in many Yellow dictatorships in the Middle East where Red and Red Orange people struggle to get a fair share of the country’s wealth while Orange Yellow cronies and Violet overseas companies siphon most of it to themselves.

When Violet is dominant in Biv elections, even from a far of Red Orange communism, then more violent Yellow dictators are supported such as Saddam Hussein rather than more moderate dictators such as Assad in Syria. Attacks on Red Orange resistance are likely to be bloody such as Yellow lions attacking Red Orange buffaloes, for example Saddam attacked Red Orange Iran in the war against them as well as gassing Red Kurds. When Red Orange resistance is hard to organize such as in Saddam’s Iraq then dissidents are Red and survive by being secretive and deceptive, forming terrorist cells which are like small herds of Red gazelles. A small herd can be quiet and still scatter when attacked like a terrorist cell, a larger cell or herd such as Wildebeest is almost impossible to hide and so must defend itself with its strength and numbers.

When the west has an Indigo Violet or agent led economy then it can be highly secretive and deceptive, with large bursts of growth in some sectors of the economy followed by chaotic tipping points and collapses, this can cause their foreign policy to sponsor Orange Yellow dictators as clients. They are also chaotic, unstable and deceptive and may try to rule with secret police rather than overt violence such as with the Shah of Iran. They can be vulnerable to a Red Orange resistance but usually they don’t antagonize the people enough to create this cooperation between their enemies. Their main problem is Red terrorism which their intelligence services cannot easily find because they scatter and hide, also they compete with each other against the government rather than unite in one organization. This is common in the Middle East with more moderate dictatorships where there are many splinter groups of terrorism, often this also occurs because the Indigo Violet dominated Biv countries discourage Yellow violent dictatorship which leaves this rule by intelligence agencies. Because they are unstable Red terrorists can sometimes have a spectacular success and then have their organization collapse. The Orange Yellow government can be closely allied with the Orange police which moderates the people’s responses to them, Orange police may look after conventional crime and then with Red terrorists hand them over to the Orange Yellow security apparatus in an often fruitless attempt to trace other terrorists through them. Egypt and Jordan are like this to some degree, the influence of the United States stops them being Yellow dictatorships.

This chronic instability can also cause Indigo Violet Biv countries to give them more aid for their intelligence services as well as intelligence gathered from secretive and deceptive eavesdropping on phone calls, satellite phones, mobile phones, email, web sites, etc. Red terrorists can use secretive raids like suicide bombing, assassinations attempts, and double agents in the government and intelligence agencies to try and provoke a chaotic collapse. If the country moderates it may become an Orange police state like Saudi Arabia in some ways and if it moves further to the right then it may get a strongman dictator like Saddam who substitutes more violent attacks on dissenters than secretive torture and rendition.

The atrocities suffered by Red and Red Orange people will be seen by leftward voting Blue and Blue Indigo people in the Biv countries, this leads to a left wing government who will support the Orange Yellow and Yellow dictators less. This can in turn lead to Yellow dictators being weakened in a war of attrition such as with Saddam but because of the strong team nature of Yellow such as Saddam’s tribal connections they rarely reach a tipping point and collapse. The Shah of Iran547F[[544]](#endnote-544) refused to become Yellow and use extreme violence to save himself and instead he relied instead on a secretive Orange Yellow security apparatus. When he was supported less by Blue Indigo Jimmy Carter his regime reached tipping points and collapsed. He also survived many Red assassination attempts.

The Blue Indigo government in Biv tends to support Red Orange protestors in Roy countries, these can gain ground in a war of attrition against Yellow dictators or the Yellow dictator loses ground from a reduction of aid. These protestors can bring down Orange Yellow dictators with a sudden increase in violence such as with the Shah. A Blue Biv government is closer to sympathizing with Red terrorists and is rarer in the west because the fear of Red Orange communism forced foreign policy to the right. Many in the United States were lenient on the Red Irish Republican Army because there were so many Irish immigrants there, the IRA received secretive donations from there which helped it to put pressure on Britain. The Kurds have often acted as Red terrorists but Turkey has been moderated in its responses by pressure from the American state department, Israel has also been pressured to not overreact against Red suicide bombers and Red Hamas hiding in Gaza and sometimes sending rockets into Israel. With persistently left wing Biv governments Red Communism can be less contained and there can also be a weaker response to Red terrorism such as the Baader Meinhof548F[[545]](#endnote-545) gang and PLO in the 1970s in Europe. Red Al Qaeda also grew stronger under Bill Clinton’s Blue Indigo presidency in America when Yellow dictators such as Saddam were out of favor; this was radically reversed with George Bush’s Violet Yellow presidency.

When issues in a Roy or Biv government are unequal in importance then they can move events in a chaotic way in Red, Orange Yellow, Blue, and Indigo Violet and in a random way in Red Orange, Yellow, Blue Indigo, and Violet. For example in Biv issues such as abortion, gay marriage, the drug war, and illegal immigration are very different to each other and depending often on current events can quickly grow into a crisis, this is like the butterfly effect in chaos theory. The cause can be largely unseen because people are being secretive and deceptive, then the issue becomes destabilizing and there may be a collapse when the Orange police investigate them. This chaos needs to be moderated by the team colors of Red Orange and Yellow, pundits on the right wing news may be trying to expose this chaos while Red Orange communities such as neighborhood watch try and work together as a team to control them. For example in Red Orange ghettoes the crack epidemic and teen pregnancies became chaotic and was handled by Red Orange community support of each other, Yellow right wing commentators criticized these problems so between them the chaos was moderated.

Gay marriage in America became an election issue when a few states legalized it and then this brought secretive monogamous gay relationships into elections as an issue out of all proportion to its importance compared to economic issues. Abortion might be forgotten about until a case of a murdered abortion doctor or particularly late term abortion makes the law suddenly controversial and can dominate the news cycle until it collapses. People might use drugs in the underground until a teenager dies which can trigger an outcry in the Red Orange community demanding an Orange police crackdown while Yellow commentators complain about a moral decay in the community, soon it is forgotten and the next chaotic butterfly effect brings a small event to national attention.

Because small triggers can cause tipping points in many secretive issues then Biv elections can be decided by minor events and the resulting large changes in policy can have chaotic effects in the Roy world, causing color oscillations and blow back later. Other issues are more random with Violet versus Blue Indigo with random fluctuations in political policies, these are more open and honest and decided by the numbers of people on each side, monitored by opinion polls trying to select random samples of people to ask questions to, how much they act as a team in the community by organizing get out the vote and demonstrations, how much money they will raise from these teams, etc so it is like a war of attrition just as in Red Orange versus Yellow opposing armies in Roy wars. These issues can be tracked with probability based opinion polls and give reliable results on who is likely to win an election. The Roy countries will likely see this result coming unless there is a chaotic upset so they usually change their own policies in a random way to match this if the Biv countries are highly influential. They might change policies to increase Yellow attacks on Red Orange insurgencies if Violet is likely to win or if Blue Indigo moderate leftists win then more civil rights will be allowed and violent attacks on Red Orange protestors moderated.

Color codes interact in the same ways in a marginal society, persistent Roy imbalances can affect Biv politics and persistent Biv biases to the left or right can affect Roy areas. For example Red ghettoes can harbor terrorists such as the Black Panthers549F[[546]](#endnote-546) in the 1960s in America and also threaten areas outside it with crime. Trying to turn these areas into Biv is difficult because the resources are scarce in ghettoes that make a Biv lifestyle more efficient. Color codes try to balance with a mix of Roy and Biv so reducing Yellow predatory criminals means there are more tempting targets for crime not being exploited which can cause some Violet people to become Yellow. This happens also in the stock market where despite attempts to Orange police it and the high profits in the Indigo market for honest business; the existence of Red fools is irresistible for some Yellow knaves to exploit despite the risks.

Red ghettoes tend to exist because there will always be Red people such as homeless, those on welfare especially when Biv creates unemployment to moderate inflation, those with psychiatric problems, and they tend to live near each other for mutual protection and sympathy, the stronger ones forming a Red Orange defense such as gangs or just stronger relations to protect the weaker Red people. As they concentrate in an area rents stay affordable because wealthier people go elsewhere, like Orange Yellow white flight to the suburbs scared away by Red Orange gangs, this is like small Orange Yellow predators being scared away by herds of Red Orange animals like buffalo. It also gives a place to hide for Red thieves and those hiding from the Orange police, so Orange Yellow detectives hunt them in these ghettoes. To contain these ghettoes, as Red Communism was contained Biv governments move to the right and Orange police become more Orange Yellow with secret raids on Red criminals, terrorists, etc.

Other areas in a marginal society can become Yellow Empires run by organized crime, wealthy entrepreneurs that exploit loopholes in the market to make money such as naked short sellers and Ponzi schemers, a minority that controls much of the wealth of a country such as whites in Brazil and formerly in South Africa, those with right wing political connections and so on. These are like Yellow and Orange Yellow dictators because they control some areas completely while Red people sometimes infiltrate and steal from them and Red Orange gangs can attack more violently. These can move Biv politics to the left such as with the Kennedy’s war on Yellow organized crime helping to get them elected, and Venezuela’s Chavez being elected on a platform of taking money from the white elite and foreign corporations and spending it on Red poor people.

Biv areas can also affect Roy politics in a marginal society. A Blue area can be working class and forms Blue Indigo protections such as trade unions, credit unions, and cooperatives for food purchases. When these unions are strong their strikes can make them unpopular like the criminal acts of Red Orange gangs damaging the economy. Blue workers can also seem a threat with wage demands, so Roy laws might make some kinds of strikes illegal such as striking to support another union or disrupting essential services such as power or hospitals. The black market of Blue workers can also be made illegal because of tax revenue lost as well as backyard businesses selling services for less than legitimate businesses can match, leading to economic collapse of more Indigo Violet businesses and a larger black market. A Biv economy might naturally favor the right or left, for example illegal immigration as Blue workers would weaken Blue Indigo wage demands, keep wages low and Violet profits high. In this case political pressure would tend to make Roy laws stronger against illegal workers though Biv companies would prefer a laissez faire solution of allowing them to work. Immigration of Violet talented workers such as programmers, doctors and lawyers might be restricted by Roy laws to keep the wages of Violet citizens high though Biv laissez faire here would lead to cheaper medical and legal services for Blue workers.

Violet Empires are where talented people make a lot of money and can control their neighborhood with this wealth like Yellow Empires control theirs with violence. Examples in America would be Bel Air and the Hamptons. Roy laws would make some of their business tactics illegal such as insider trading, price fixing, monopolistic businesses, contributing too much money the politicians to seek tax cuts, and so on.

More usually there is less need for change because the color codes naturally become balanced and oscillations are small. Red Orange, Yellow, Blue Indigo and Violet become normalized in that a consensus is developed in each as a team and deviates to that agreement are necessarily a minority who obey the team majority. Jailing less loyal members of a Red Orange gang or group of freedom fighters just strengthens the team’s cohesion because Red members will be found to have informed on them and will no longer be part of the gang. Blue Indigo unionists see dissidents as scabs and expel them while Violet forms an exclusive club where those that aren’t team players are excluded. Red, Orange Yellow, Blue, and Indigo Violet each reach an equilibrium where chaotic actions tend to result in about the same ratio of successes to failures in Roy and in Biv rapid growth and collapse tend to balance out with an overall level of prosperity.

For example in Biv there can be many new Indigo Violet industries that start up and grow rapidly with many collapsing, patents are often filed but most are not economical just as many songs are written but few are successful. Blue workers may run farms that often have droughts so the crop can be large in a good year and disastrous in a drought, locust attacks can destroy a whole crop as they grow rapidly from a small infestation, frost kills crops such as Oranges causing a collapse in come but there are also occasional large harvests, Blue oil drillers have many dry holes but few good fields are found. This rapid growth and collapse is like new seeds sprouting as Darwin investigated, there are many failures but enough successes to create equilibrium. This also allows for rapid evolution because a better mutation will have fewer catastrophic collapses and quickly increase its numbers. In Biv these attempts are usually leveraged to give more rapid growth and risk of collapse, this is like in a forest where a new tree must grow quickly at all costs or be overshadowed by a competitor. Leverage can also be dangerous because while it is useful to try different algorithms in the Indigo stock market it makes all the investments prone to collapse like plants that all try to grow so quickly that a strong wind can blow them all down, leaving the stronger and slower investments to weather the storm.

In Roy chaotic movements by Orange Yellow predators and Red prey can have large returns for small improvements, just like leverage in derivatives. For example a Red gazelle might develop a better way to dodge and weave when running from a predator, then it might survive much longer and have many more offspring with the same ability. This new ability would then grow quickly amongst gazelles chaotically because there is a cause and effect relationship between a gazelle having this new ability and surviving while others get eaten far more often. Some Orange Yellow crows learn to manipulate sticks to get insects out of trees, those that do have a large competitive advantage when food is scarce in Roy.

Red ghettoes tend to form an equilibrium where most people are on the edge of disaster such as by being robbed with their home not being secure or being in a dangerous area, fighting drug addiction where a relapse can be fatal or use up food and rent money, prostitutes running a risk of infectious diseases or being raped, Orange Yellow police catching a drug addict and sending them to prison or taking away their children, epidemics of hepatitis etc could sweep the neighborhood from prostitution or sharing needles and so on. Welfare can make Red existence less prone to tipping points such as having extra money to guard against potentially disastrous extra expenses and relapses into taking drugs, free medical care can stop chaotic epidemics before they spread so it is cheaper to fix them this way then cure a much larger number of people later, pensions stop those who lost their savings from chaotic disasters starving, help with looking for work prevents disastrous mistakes in interviews and increases the odds for successful transiting to Blue work, etc. It does this by averaging out misfortunes in society such as ill health and unemployment, each person pays a kind of insurance premium by choice in Biv or with taxes in Roy. In Red society then the use of randomizing welfare overcomes the tipping points of chaos.

For example jobs such as cleaning, babysitting, finding trash worth selling, sewing, etc and other menial labor available in a Red ghetto might not be enough to support a community especially if the customers also live there because they bring no new money in from outside. A society like this can collapse because of its poor design and lack of margins for error just as collapses in buildings poorly designed were seen with the earthquakes in Haiti, starvation in droughts such as in Darfur, epidemics such as AIDS in Africa and so on. Ghetto residents have to contend with welfare restrictions on work and can form a hybrid Biv and Roy society, using welfare as a Green Blue resource for Biv capital and business. The Roy society adapts to this Biv largesse much as a Red society might exist on plants particularly well adapted for eating. This also evolves Red to existing permanently on this diet and so perpetuates the Red ghettoes, for example someone with work skills can be a more attractive mate and the evolution of skilled families of mechanics, carpenters, and plumbers occurs as skilled families intermarry to have children able to follow their parents into a trade.

By substituting too much welfare for Blue work there is little incentive to select a mate with work skills, in Roy those more powerful in defense such as gangs or as a predator such as organized criminals can seem a better choice than learning a trade and they may also be able to collect welfare in the gang. Red people also tend to attract Yellow thieves recycling welfare money into the Biv economy, for example a successful Yellow bank robber might accumulate enough money to become an honest Biv businessmen and investor. Having Red welfare recipients allows criminals to have a fixed prey, and this can seem enough like a lucrative trade to attract a mate and creating people evolving to be Yellow criminals as a business, their children also becoming criminals or sometimes moving into Biv and using these talents to become businessmen. Yellow and Orange Yellow criminals survive by looking for the weaknesses of Red Orange and Red people in a negative sum game, in Biv businessmen also look for the weaknesses of others by providing services and goods to those who cannot do and make these for themselves in a positive sum game. Orange police can also profit from this Red welfare, crime can be manufactured by the existence of state subsidized Red prey and Red Orange gangs along with neighborhood watch plus Orange Yellow petty criminals allied with the Orange police. There may be few Biv workers making money from other sources so most of a Red ghetto may be supporting itself on this Red welfare.

Social workers and employees of welfare agencies get a wage from the Biv agencies and spend this money mostly in the Biv economy, yet they can work in the Red ghettoes to reduce the chaos and potential for disasters with Red Orange social insurance. Jobs can sometimes go to Roy people this way such as by training to become social workers or work at welfare offices, food banks, and menial jobs in clinics, and this is another way for Roy people to move eventually out of the Red ghetto. Yellow organized crime might launder their money and stolen goods into Biv and become a Green Blue resource much like South American drug money finding its way into banks around the world. The Yellow Contras fighting the Red Nicaraguan government at one stage were not funded by the Blue Democratic congress so Violet Ronald Reagan needed to find other ways to help them beat the Red Orange Sandinistas. Cocaine from South America was imported into the United States with the help of the Orange Yellow CIA, this was sold in Red ghettoes in Los Angeles and the profits sent to help the Yellow contras. Yellow predators profited from Red ghetto addicts and used this money to fight Red Communists in Nicaragua, the Orange police were restricted in stopping this with Violet and Yellow government pressure, while the Blue congress slowly learned of this and eventually this secret Red versus Orange Yellow drug trade was exposed and stopped. At the same time Orange police were arresting and incarcerating Red addicts that would not have gotten the drugs without government assisted selling and protection of the Orange Yellow contras.

Some Red people find their way into the Biv economy as Blue workers even as part time or surreptitiously receiving Red welfare as well. Others might get an education, perhaps with a Biv Scholarship and rise in Biv society. This can also oscillate with the state of the Biv economy when in better times more Roy find Blue and Indigo work, in bad times more Biv people enter the Red ghetto.

Genetically people having children in a Red ghetto can be seeds for future Biv workers as they save to educate their children, keep them away from crime and becoming criminals, eventually moving out of the Red ghetto. This leads to a form of brain drain from Roy society, because of the dangers and poverty few Biv people want to return so there is less of a hybrid Roy and Biv economy. This is also similar to rural areas where people leave to work in the city and the countryside has difficulty getting qualified people to live there such as doctors, lawyers, and accountants. Red ghettoes also have a stigma associated with them so leaving the ghetto while still Roy is difficult, people stand out as not belonging in Biv and can be harassed by Orange police to make them go back to a Roy area, and this further breaks the connection with outside Biv businesses even run by former Roy ghetto inhabitants.

Genetically this leaving the ghetto can also lead to people’s offspring returning to it, for example the parents may have been unusually gifted as Violet or determined as Blue to succeed and if their children are less so then they may not succeed in Biv society. It can also work the opposite way, Biv families may sometimes have offspring that are less talented or lazy and end up chronically on welfare but the Biv genes are recessive. They might marry someone else like this and the Biv genes then become dominant with their children again becoming successful and moving out of the ghetto. Red ghettoes can act like a prison in many ways; residents are deported back to the ghetto by Orange police in wealthier areas to prevent crime spreading out of the contained poor areas. Those who commit too much crime in the ghetto or when this crime becomes noticeable outside in Biv areas can lead to secretive Orange Yellow raids and then into a Roy prison, this is like Red terrorists and similar people who are arrested in secretive Orange Yellow raids and transported via rendition550F[[547]](#endnote-547) to secret CIA Biv prisons or to poorer countries to be interrogated or imprisoned. Welfare can substitute for paying for the upkeep of a prisoner, Orange ghetto police and Red Orange gangs protect Red ghetto dwellers much as they would in prison. Yellow Empire areas can also be a form of prison, the Yellow mafia for example might control some areas of Italian descent, if they try and expand out from therewith protection rackets, loan sharking, and mob wars then the Red Orange part of the Orange police is unleashed and many are sent to prison. Even Orange police from Red ghettoes and Yellow Empires can find it difficult to leave because they might be under suspicion as being paid off by Yellow or of stealing from Red such as keeping drugs and money from raids.

Red prison can be part of Red ghetto life, people might go there as victims of Roy society such as junkies, loiterers in good Biv areas, cheating on Red welfare, and also as an example to others. For example if Red junkies start to steal outside the ghetto or Red prostitutes become too visible on the street then arresting some of them scares the others because Red survives by hiding and running away from trouble. Prison can hold all Roy colors so interactions between them are policed more stringently by Orange prison guards, penalties can be solitary confinement, an extended sentence or denial of parole, restrictions of visits from relatives, removal from paid work in the prison such as in the kitchen or laundry, and sometimes not protecting a prisoner when attacked by others. Inside the prison Red people might join Red Orange gangs to protect themselves as they would in the ghetto, sometimes cooperating with Orange police guards as they would with Orange police in the ghetto. Yellow criminals such as from the mafia protect themselves with a fringe of weaker Orange Yellow criminals, some of whom are informants to the Orange prison guards.

A ghetto can be mainly Red perhaps preyed on by a small number Yellow criminals and gangs who grow rich and migrate to Biv or launder their money in Biv outside of the ghetto, draining money out of the ghetto economy. This is like in nature with Red prey such as gazelles and few predators such as lions; this allows the lions to increase in numbers with little risk of starvation and in the same way Yellow criminals increase such as the mafia expanding into a new area. This can literally breed crime as Yellow criminals have more money and influence and have then more children, who in turn might have a genetic predisposition to crime as criminals or might just have more Violet talent and become Yellow as a path to leave the Yellow Empire and enter the Biv economy. For example a Yellow criminal family shown in the Godfather might try and have their children educated to be professionals as with Michael Corleone. Sometimes the crime family would die out and be replaced by Biv offspring, other times as with Michael Corleone the Roy environment is more lucrative.

Variations in the color ratios in Roy can lead to increased crime, for example when Yellow criminals are at a low level then the law of diminishing returns means it becomes harder to catch more of them, it becomes more expensive and there is less public pressure to catch them because crimes are then quite rare though crime can rebound because there are so many opportunities for crime available. This is like in nature where there are few predators, Red prey become less alert and easier to catch. With less crime people become careless and spend less on protection such as alarms, locks, weapons, and security grills on windows. If Yellow predators increase too much there can be fewer Red victims such as junkies to sell drugs to or rob, people to steal from, women to turn into prostitutes, shops to demand protection payments from and so on, and this becomes like in nature with too many predators and not enough prey. Oscillations in the Red Yellow ratio can be caused by economic factors like a boom and bust, immigration providing more Red prey for criminals to rob, enough Green resources so Red people still prosper even with a high crime rate, etc.

A Yellow Empire can be where there are Yellow and Orange Yellow criminals, pushed there by Biv society who don’t want them in areas where people are more vulnerable, criminals can be hiding out there and cannot go to Red ghettoes for fear of retribution, Yellow criminals who served their time but are still rejected by society, or it is not economical to jail them or otherwise deal with them so they are left alone as long as they stay in Yellow areas. These areas can be made stronger by evolution, the weaker Yellow and less cunning Orange Yellow being killed by rivals, arrested, or leaving the area and become Violet and Indigo Violet members of Biv society.

Blue Indigo is the apex of the Blue root system where it receives resources from Blue workers and distributes them to others like a union, cooperative or charity, and for this service their children might move into Indigo Violet or the Indigo market, or blossom into Violet which is also a team color. This is like a small plant with a large underground root system and a small trunk and branches. This can alternate as Red Orange defending Red, acting like a police force and in return being fed or otherwise looked after, for example plants that are overgrazed develop Red Orange poisons and thorns to defend themselves. A Red ghetto can be relatively self-sufficient and not be friendly to outsiders. This is like the Red Communist state such as China or Russia keeping out Yellow invaders such as the Nazis and perceiving capitalism as Yellow similar to Fascism. Communist states did reasonably well without Biv capitalism and Yellow authoritarianism; they just were not as successful as Biv states partially because of a lack of innovation and also from trade sanctions by the west.

Economics has many different theories on how economies work, often these contradict each other and few economists predicted the Great Recession, nor was there a consensus on how to fix the economy or if it should be allowed to fix itself. Biv Capitalism owes many of its ideas to Adam Smith, Roy economics both as Red and Yellow socialism owes much to Karl Marx. In Aperiomics the intent is not to replace other economic theories, rather it shows how these rival theories interact with each other and how they work most efficiently in a limited number of color codes and extending them beyond this leads to inefficiency and a rebound of rival systems. The two main factors in this economics are two kinds of mathematics, that of chaos which acts on dependent variables or objects and which drives growth and sometimes collapse, and of probability which works on random independent variables or objects. Each of these is classified into Roy which is how living things act when resources are scarce and Biv where they have abundant resources. At this stage there is no attempt to prescribe economic solutions any more than to take sides between predator and prey in the animal kingdom or try and change plants in a forest, rather to describe empirically what happens in different economic situations and how it is consistent with Aperiomics.

Stock market and other markets such as commodities, futures, and soon derivatives have price that fluctuate in ways that defy prediction. In Aperiomics these price changes are a combination of secretive and deceptive strategies that give rise to rapid growth and collapses as well as open and honest data that people react to in a random way with their decisions falling on a normal curve. In retrospect these random decisions fall on an error curve in the sense that bad trades were erroneous because the two curves are identical, a normal curve is the same as an error curve in mathematics. Random chance gives winners and losers because the market often acts in a random way because individual investors make decisions independent of each other, and because they are then independent variable their decisions are random and fit on a normal curve.

This part of the market is an open game like chess where all information is available, investors win according to how careful they are to evaluate all the data but chance can still predominate because they don’t know whether other investors are evaluating the data accurately or according to a widely held illusion, whether there is too much data to evaluate and so people have to take a random guess about what they have not looked at, whether some random factors are unknown to all such as tornadoes hitting a factory, hail or frost destroying a crop, and so on. Chaotic price movements are deterministic because each of the steps involved relies on cause and effect, this data can be known but in practice might be too difficult to analyze such as predicting hail, tornadoes or frost. Evaluating stock prices of farmers for example is a combination of random and chaotic factors. This chaos can be data hidden by nature such as when a tornado will form or it can be deliberately hidden or misleading information given instead as in a game of poker.

Violet and Blue Indigo data is rarely hidden because they are team colors and survive by sharing informative between themselves, so like a conspiracy the chances of a leak increase with the numbers keeping the secret, because Blue and Indigo Violet are secretive they don’t tend to form teams and conspiracies. For example a secret strategy in a Violet company has to avoid journalists, investors researching, bribes from investors looking for a market edge, etc so the team needs to be strong not to be divided and conquered. Indigo Violet and Blue data is rarely exposed because they survive by secrecy; if their strategies become common knowledge then Violet and Blue Indigo have superior team resources to beat them in the market. Secretive strategies in large companies can stay hidden if there is strong discipline such as with Apple, or they are having high chaotic growth and all the insiders profit more by keeping the company secrets. If this growth reaches a tipping point such as in the Great Recession then these secrets can be exposed in tell all books and talking to journalists.

When Indigo Violet versus Blue dominates the market and Violet versus Blue Indigo are less influential then random movements are less important in share prices and growth versus collapse occurs more. This can sometimes be a pump and dump scheme where shares, art, real estate, bonds are promoted as being cheap or expected to go up in value, then the promoters get out before the bubble collapses with a profit. Tech and medical stocks can be like this, companies are presumed to have secret technology, the rumors of which can make prices grow quickly and reach a tipping point if the company fails to get a patent, their product is not popular with the public, fails to get FDA approval for a drug, fails in the case of Internet stocks to find a way to monetize the service, and so on.

Stocks like this can become popular as they did in the 1990s prior to the NASDAQ bubble bursting, then investors realized there often were no secrets for success driving the high prices. Investors became used to looking for gains like this and hedge funds became another mysterious path to profits, here as Indigo Violet. Derivatives became chaotic because the market was unregulated and opaque which made it more secretive and deceptive. The enormous but chaotic growth of trillions of dollars in derivatives became too complex like the weather to predict and this secrecy sometimes became a battleground of Roy crime such as Madoff with his Ponzi scheme, and naked short selling with anonymity protected by the SEC. Laws are currently being discussed which would trade derivatives on exchanges which would make them open and honest as Violet versus Blue Indigo, this would reduce the chaos in them and make them move more randomly like shares because with the information about trades open to everyone each investor can have an independent opinion about them.

The branches and outer roots of a tree represent Indigo Violet and Blue, the connections between them mean that these transactions on the market are deterministic and one collapse can cause others like the domino principle in international politics. This was seen with Bear Stearns, its collapse made other companies look vulnerable rather than a safe haven because they were also secretive and deceptive hence opaque to the market, this in turn led to the collapse of secretive Lehman Brothers and the secret connections to other trades around the world surprised investors with the other collapses it created. Banks became afraid to loan to each other because they had no way of knowing which banks were solvent, the secrecy and deception throughout the Biv system made it difficult for companies to unite into team groups of Violet and Blue Indigo, open their books and trust each other. The TED spread551F[[548]](#endnote-548) of interbank loan rates subsided as this team spirit became possible with government guarantees and bailouts. Branches and roots on a tree can wither at any point and this can cause a whole branch further out from the trunk to collapse further and the branch part closer to the trunk may not then have the nutrients to regrow, so much having been lost with the branch. Weaker links in these chains of branches and roots in the economy caused much of the financial industry around the world to collapse, finding itself cut off from funding like a broken branch and a lot of invested capital was irrecoverable because of this. In effect the rescue of banks was like rejoining branches to a tree to revive them. Shedding branches and roots makes a tree smaller, the collapses of branches such as banks and roots such as employment caused the economy to shrink in GDP.

In a Biv economy branches that grew suddenly in a boom might be found to be unsustainable in normal times or a bust because the chaotic influences might no longer exist, for example Enron grew rapidly because of opportunities from deregulation but once they were used up there were no more to continue the growth with and to pay for the high leverage. Examples might be no documentation loans prior to the great recession which ran out when there were no plausible clients left and the earlier clients were not paying their loans, luxury markets such as tourism might set up a venue for tourists but if they don’t come in sufficient numbers because of the climate there may be no way to improve it further, art investment may grow chaotically with new artistic ideas but eventually the artists may run out of new ideas and no longer appear talented, a new Mexican restaurant may experience high growth but if there is a limited market for its style of food other people may not switch to Mexican no matter how good it is, etc. To avoid collapse the business may become a team business to take advantage of random new customers such as the restaurant becoming a franchise.

Businesses can be seduced by this high growth into too much leverage, because they hunt a secretive Blue prey as their customer they may not realize until it is too late that their assets are being exhausted. Yellow predators have more warning of this because their prey doesn’t hide as much, for example Yellow wolves hunting Red Orange buffalo can see over time if buffalo numbers are declining. Yellow thieves in business are also more measured in their attacks particularly in the stock market and financial industries, at times they sense prey is abundant where a bull market is like a moving herd of Wildebeest. They can sense before others when the market will turn, for example Goldman Sachs betting against some of the securities they sold, also they have government connections to bail them out or temporarily stimulate the economy if they get caught, like big banks around the world in the Great Recession. This team instinct allows Violet and Yellow to live off random gains and be protected against downturns that collapse chaotic businesses, like Yellow predators living off occasional kills.

Investment in a marginal society can be prone to chaotic collapse in Blue and Indigo Violet, and abnormal results in Blue Indigo and Violet. Exchange rates for example might float freely in a Biv economy, they can be like the trunk of a tree, the Green Blue resources might be in one country and mined by Blue workers there and Violet refiners might be in another country. Sometimes though exchange rates become Roy, where Yellow predators try to make money from a country by shorting the currency, talking down the country’s economy and so on. These can then be prone to a collapse chaotically, perhaps dropping to a new stable level to grow upwards from, similar to support points in a share market of exchange rate. For example shares moving chaotically might tend to form fractal like shapes in their share prices which are watched in charting, below a significant price investors might buy such as the Dow dropping below a round number like a multiple of a thousand.

Real estate as an investment can be like this, a company might buy up land in an area to create a shortage than put it back on the market at a higher price which other land owners often quickly put their prices on a par with. When sales go poorly these prices might suddenly collapse back to the old levels because they were based on competition, in that the prices rose because others did not because of market fundamentals, also this price rise was based on deception. Pump and dump schemes can also happen with shares and usually the Orange police look out for these tactics, where the market goes up enough to suddenly trigger a dramatic increase in investment, such as with the housing boom prior to the Great Recession. These stable levels are like tipping points in catastrophe theory, prices going down too far can tip the emotional state of investors to believe the market is oversold and trigger growth, too high a price can lead to tipping points where each big investor is watching the others and ready to stampede out of the stock when the price starts to collapse. When stocks move randomly investors watch the market instead of each other because they trust each other to work as a team, when chaotic they watch each other not to act as a team but to compete against each other to be in early on a trend and out early on a market correction even if it hurts the ones they are watching. This can relate to bubbles when the chaotic investors only watch each other like lemmings552F[[549]](#endnote-549) as they did in the lead up to the great Recession, they to the same extent are not watching market fundamentals. Team based colors of Violet and Blue Indigo cooperate with each other and trust each other, they survive in nature by watching for danger and in the market they cooperate with each other for an orderly retreat if the market goes down so as not to lower prices by panicking. Blue Indigo pension funds and Violet investment banks and hedge funds didn’t dump their stocks as much in the Great Recession because there was a recognition between them that this would hurt everyone at the expense of helping only a few. Many of the excuses given by CEOs in the Great Recession involved them doing risky businesses because others did the same, like a herd of Red gazelles they saw no one else panicking until it was too late and others like a pack of hyenas saw no others going hungry until the Red prey had disappeared. While the upper levels of corporations can be a Violet team many rely on Indigo Violet agents to do secretive and deceptive deals to make them money, when these agents are watching each other for signs of growth or collapse then this competition can damage the cooperation of the market.

Shares and other business activities can be manipulated by Orange Yellow when illegal and by Indigo Violet when legal by various techniques including short selling, false accounting, moving debt and poor performing investments into separate companies, Ponzi schemes, using separate companies to short companies and accumulate the losses in them while other companies make the profits, buy up surplus supplies such as Enron did with electricity in California and raise the prices when selling it back, create a monopoly by taking over companies with borrowed money then management cashes out their shares before the company goes bankrupt, dumping products at low cost to bankrupt the competition and then raise prices, idling industrial plants to create shortages as with Enron, insider trading, using lobbyists to get favorable laws or tax cuts, having people favorable to your industry appointed as government regulators, working to elect favorable politicians and judges and defeating unfavorable or fair ones to change the law in your favor, using espionage to find out about other companies new products or gain inside knowledge of where their share price is going, blackmail of politicians or employees of government and business, bribery for government contracts and asking for special favors in exchange for campaign funds, and so on.

Banks in a Biv economy have roots and branches, the branches we see in various suburbs, shopping centers, agencies, post offices and so on. These usually double as roots where money can go in and out in both locations, the main company being the trunk of the tree. In a plant the Indigo trunk can act as storage for unneeded resources, so a plant can use these resources more quickly and reliably like a buffer rather than getting them from the soil when needed. For example a cactus might store moisture and survive a drought, some plants store heat at night by closing up their leaves at dusk and opening them at dawn. In an economy money might go in and out these roots and branches, saved for abnormal times for Blue Indigo and Violet investors and for chaotic times or tipping points for Indigo Violet and Blue workers. Loans are offered in the Indigo market, where Blue workers for example might get loans for tools just as roots of a plant get resources for growing. Violet might get loans to refine Blue raw materials.

Capital is repaid with interest or a percentage of the business, even a flat fee. Generally loans are granted based on the likelihood of being repaid; this is a probabilistic approach to Violet and Blue Indigo borrowers where their situations are open and honest. Blue and Indigo Violet can often be good borrowers as well even though secretive and deceptive, no documentation or liar loans were often given to people with no income, no job, and no assets perhaps supposing they had secret income such as from the black market or crime. Watching other banks prosper with dubious lending standards seemed to indicate that it would work out and there would be a way to pass on the risk to others by selling the loans or securitizing them. This is an Indigo Violet versus Blue tactic; because the market is chaotic and deceptive banks watching each other is dangerous when they are all trying to deceive each other to gain a competitive advantage.

Similar to banks, pawn shops make loans on goods which can be sold on the Indigo market if the people don’t redeem them. They can provide a service to Blue workers and Red people on welfare for unusual and chaotic money problems, for example someone might have to hock some personal effects to avoid a personal disaster such as being evicted or having their electricity disconnected. Banks provide liquidity with money similar to in plants where sap is stored and loaned to different parts, moving with capillary action or gravity. Money moves like sap in a tree and because it is moved by people with intelligence it in effect moves as if intelligent to some degree. It can flow like a current, have momentum, and move like living things because owners of the money and computer algorithms can make it move this way. Money can act like machines were shown to do in the book Erehwon553F[[550]](#endnote-550), it can reproduce as investors try to make it grow, it can hide like cash in the black market, it can scatter like scared money and like scared Red gazelles as was seen in the Great Recession, it can be predatory and secretive such as in Orange Yellow naked short selling, it can be Yellow and predatory where arms are bought by an army as in the Roman Empire and army expenses paid in the expectation of growing with plunder, it can be spent on Orange policing and the courts which saves people money from reduced crime recouping the expenses of doing this from taxes paid, and it can be spent on defensive weapons as Red Orange to protect itself from being stolen as in a bank vault. Because money is directed by the intelligence of its owners as well as in some cases by artificially intelligent computer programs it acts as each of the twelve colors in Aperiomics.

In Biv money can act as different parts of a plant, in Blue money is spent on mining equipment to get minerals to sell at a profit in the Indigo market, it is spent in a Blue Indigo cooperative to union members to survive through a strike and be replenished with union dues from its members, it lubricates the Indigo market and allows people to buy and sell goods there, it allows Indigo Violet agents to pay expenses while earning commissions, and it lets Violet talent improve with education and training as well as to maintain their team by helping each other.

If there is too little liquidity in the form of sap then resources cannot move to different areas of the Biv tree, much like an economy with deflation where products and investments are not worth the money to liquidate then and make them mobile. Money has a value in an economy according to supply and demand, if it is scarce as in deflation then it will be bid up in price by those that can afford it which is the same as saying that some goods will drop in price enough to sell for cash and to get liquidity. Money in this situation is competitive; those who cannot afford to pay more for cash i.e. sell assets for less can reach tipping points and collapse into bankruptcy where assets can be forcibly sold to meet this higher price for cash. Money can also be cooperative in Violet and Blue Indigo, when it is scarce then team members can loan liquidity to each other like banks charging the TED spread to each other, Blue Indigo members can loan money to each other personally and with credit unions to ease the effects of deflation.

In deflation a major problem is leverage or debt on assets, this makes it harder for goods to be sold for the increased price of cash if they are worth less than the debt owed on these assets. This debt is of two kinds, Blue versus Indigo Violet debt for leverage and Blue Indigo versus Violet debt for random business activities and to help them through abnormal market conditions. With debt for leverage people borrow money to grow and make larger amounts of money chaotically, more debt or higher leverage makes profit growth higher but also the chances of tipping points and collapse greater. Debt in Violet and Blue Indigo is like a float where liquidity allows goods to move randomly like boats on a river, for example a float in a cash register allows the operator to give change and the more abnormal the money tendered such as large bills or lots of small change other customers won’t want, the larger the float needed. Companies often need to borrow money to overcome random short term liquidity problems such as too many thirty day accounts rather than people paying immediately. In deflation this float is smaller and companies may not be able to offer accounts, give change, or survive seasonal fluctuations in business.

Debt is different to some degree with inflation though lenders usually charge higher interest rates to offset the depreciation of the currency over the life of the loan. In Violet and Blue Indigo the random movement of money increases over time and because money becomes more abundant with an increasing money supply it becomes worth less in goods and labor to buy it so wages and prices go up. In Indigo Violet and Blue money is used for leverage and growth so inflation reduces the chance of tipping points and collapse from a lack of liquidity, and increases the chance of growth. Bubbles can draw this increased money supply into part of the economy for speculation potentially starving the rest of the economy of liquidity. If these bubbles become too large such as the oil and real estate bubbles prior to the Great Recession then monetary growth might be reversed causing tipping points in Blue and Indigo Violet and collapse of the bubbles.

Inflation and deflation can occur for many reasons including government control of the money supply. Money from other countries with high savings such as China and Japan can lower interest rates as this glut of money comes into a country seeking a higher rate of return. Because this money is more common and must bid competitively against other money for a return on investment it becomes worth less in goods and services, this then makes prices of goods and services go up and can inflate a bubble. Because the money is generally free to leave it can also deflate the bubble by going elsewhere but if there is high Indigo Violet versus Blue leverage then the bubble bursts instead of deflates. For example Violet investment banks may have enough reserves for random movements of money and their holdings of this money may inflate and deflate, the more money there is the lower the interest return it will get because of its oversupply.

Inflation and deflation in Indigo Violet versus Blue is different though because each competes with the others and uses secrecy and deception, so it is difficult to know how the money supply in changing in that area of the economy. Because they compete with each other they tend to borrow money to use leverage as an edge, this can increase their profits but because everyone tends to use any advantage the result is everyone becomes highly leveraged. For example Blue people deceptively got no documentation loans because they hoped to deceptively trade their way to wealth by buying and selling houses, because so many tried this they all became highly leveraged. Because they watched each other for opportunities they only received deceptive information from each other while they tended to hide their lack of money. This becomes dangerous with deflation because lower house prices would make all these Blue buyers insolvent. Because they understood in America they could walk away from their mortgages they had little to lose from this deception.

In the same way Indigo Violet agents have to compete against each other deceptively and because of this they tend to borrow money to get an edge, but as with Blue they all realize this from watching each other and so they all tend to borrow as much as they can. Success can also come from appearing successful so they tend to dress well, drive a good car, have an office with lavish furnishing; etc to impress each other but this only increases the amount of misinformation in this color code. Deflation would again push many of these to tipping points because of their high leverage; some might survive as the competition is decimated because the available business is shared with fewer competitors.

Artificially lowering interest rates as Greenspan did prior to the Great Recession makes money worth less to borrow and this creates higher prices and wages. If this borrowing goes more into particular areas then more inflation occurs there, prior to the Great Recession large amounts of borrowed money created bubbles in oil futures as well as in homes by loaning money to people with dubious abilities to repay it. A bubble acts like an expansion in the money supply just as bubbles in water such as in a jug of boiling water increase the level of water. This gives higher prices in whatever the bubbles are related to and more liquidity in the rest of the economy because people save by holding bubble goods they expect to rise in value instead of cash leaving more cash circulating in the economy.

A boom in the economy causes bubbles but also bubbles cause a boom by freeing up cash in the short term. An economy that is overheated has small bubbles forming and bursting as in boiling water, these are like investments that rise in value then collapse as investors move on to the next bubble. Bubbles can be measured as in water by the increased level of money supply. For example the total assets of a country can be calculated as an overall price minus the amount borrowed in the country on these assets. An economy need not have enough cash circulating so everyone can sell all their assets, for example only a small percentage in real estate sell at a given time.

If real estate doubles in price with the same amount of borrowed money then this may be a bubble, assuming the same percentage of people need to sell at a given time then the economy might need twice as much money circulating in it but this would be a massive increase in the money supply that normally would not happen in a Western economy. The extra price can only be supported if half the usual numbers of people want to sell since normal reasons for selling such as needing a bigger or smaller house rarely change. This indicates people are not selling because they expect growth in the value of the homes so this might foe example make people sell their homes half as often as they might usually do, this allows the same amount of liquidity in the economy to support these higher prices. This bubble should burst when people need to sell or no longer believe prices will rise enough to justify not selling, if the money in the economy is then not sufficient for people to buy then prices of houses must drop or as its equivalent the value of money in terms of homes must rise. The bursting of the bubble may then make twice as many people want to sell compared to normal times because they might think prices will go even lower, meaning only a quarter of the needed money is available and so like in deflation house prices must drop to compete for this quarter of the amount of money needed. When much of this money to fuel the bubble is borrowed from high saving countries and people then defaulting loans can cause them to lose money as well as the banks loaning money.

A bubble can collapse for many reasons, a better investment such as the stock market can become available and when people try to sell their homes to buy stocks the sudden lack of liquidity makes them realize prices are too high, the government can raise interest rates to cut off liquidity and make people realize there are fewer buyers and real estate is more expensive to hold with increased repayments, workers and management become lazy as they make money with speculation and unwary as past successes cause them to ignore warning signs, corrupt regulators and police allow fraud to go too far and threaten legitimate investments as happened before the Great Recession, others wanting to short the market and buy cheap homes spread stories that prices are too high, Roy thieves commit so much fraud that investors lose confidence in the market, Roy fraud depletes the money supply so much that people have trouble selling and realize prices are too high, or prices become so high it reaches a tipping point where people doubt they can go higher. Roy interactions in Biv bubbles can be damaging because the Indigo market is presumed to balance supply and demand, but in criminal behavior the supply is to be stolen and the demand is the desire to steal. As with actual bubbles in water, economic bubble scan be stable if the forces on them are random and can pop if the forces are chaotic. For example water may have bubbles in it, such as a glass of water left in the sun may form stable bubbles on the glass. Boiling water may have chaotic bubbles that grow quickly and collapse. In each case the volume of water appears to rise just as economic bubbles appear to make the amount of liquidity in the economy rise. When there are stable economic bubbles, for example banks are stable bubbles because they increase the volume of liquidity with fractional reserve banking554F[[551]](#endnote-551), they can grow very large and when they break the dropping level of liquidity can be severely deflationary. These bubbles can be Violet in the case of a bank with team like ties to the business community which can make it stable, or like a credit union with Blue Indigo where the wages of the unionists and loaning to them to buy homes can also make it very stable.

When the economy becomes too Indigo Violet versus Blue and chaotic then the growth and collapse of bubbles can make the money supply turbulent, if this spreads to the Violet versus Blue Indigo bubbles and pops them then this makes random bubble transactions chaotic. For example a bubble in water contains water vapor, the molecules of water move in and out of the bubble like money for loans and deposits would in a bank but the air in the bubble remains stable and the outside of the bubble acts in a similar way to if the bubble was full of water, i.e. there was no fractional reserve system. When the water in the glass is heated this would put the stable bubbles under pressure from the turbulence, this is like money in an economy moving rapidly which reduces its pressure and this forms bubbles in a liquid according to the Bernoulli principle555F[[552]](#endnote-552). The velocity of money then can form chaotic bubbles and when this velocity slows they can collapse. For example in the real estate market money might move quickly in buying and selling homes, building and renovating them, etc but when this activity slows and sales become infrequent then a bubble in prices can become unstable. The market bubbles prior to the great recession may have been partially caused by the speed at which money can move electronically, when this slowed abruptly because of a lack of trust between companies then bubbles such as in Lehman and Bear Sterns collapsed because people then had the time to wonder about how stable these companies and many other banks really were.

The Indigo market in these cases tends to efficiently connect the predator to his prey unless the Orange police monitor it effectively, the Orange Yellow versus Red interactions can be fraudulent but secretive and deceptive and like the fox in the henhouse and may not be discovered until after the bubble bursts. Much of this is because a bubble has visible effects where Violet banks versus Blue Indigo credit unions are transparent to investors and so there is no reason to believe they will chaotically collapse or secrecy and deception are in them. Bernie Madoff’s Ponzi scheme was a good example of this, Indigo regulators saw a prosperous Biv economy and Madoff’s returns on investments as plausible but the lack of transparency was not seen as Indigo Violet but Madoff’s connections were assumed to be part of an open and honest Violet team investment. It was presumed that with so much honest profit being made that Roy crime was inefficient by comparison so Orange policing became inadequate.

Economic problems can also occur if the people are not well adapted to run a Biv economy, for example nomadic tribes settling down in cities and working in factories and offices, if the Biv economy changes to need new skills they have not evolved such as mathematical skills for accountancy and banking, an lack of understanding of rapidly innovating machines for mechanical and engineering jobs, of artistic skills for design work not good enough to create effective advertising, and so on. This can happen when Roy economies have a new found abundance of resources and try to become Biv but don’t have the Violet talent and Blue willpower to make it work as well as more established Biv countries. A Roy economy can be based on power, where the strongest accumulate wealth as Yellow versus Red Orange or sometimes those most devious as Red versus Orange Yellow. There is little pressure from natural or sexual selection in Roy to improve these Biv skills, for example food to improve mental abilities will be less of a priority when these abilities are not used such as in a hunter gatherer society.

There can also be a genetic change where people marry those most suited to the environment, a Red nomad preferring another Red nomad rather than a Blue farmer’s daughter. Over time however gene pools adapted to farming and mining developed, usually based on persistence and hard work, with Blue Indigo helping each other in hard work requiring a combination of different skills while Blue workers competed with each other in jobs one man could do best by himself or with an animal such as plowing a field, searching for iron or smelting bronze and so on. If the climate or other Green conditions changed as for example in the Younger Dryas556F[[553]](#endnote-553) period, they might become Red nomads again, the gene pool rearranging for nomadic abilities. For example in Syria at the end of the Ice Age good rainfall made people start farming as more Biv efficient than Roy hunting and gathering, families would have evolved with farming abilities and intermarried rather than marrying hunter gatherers who would then leave with the Biv wife and scattering the family’s genes. Improved nutrition would also have improved the intelligence of the Biv community as well as working with Biv technology such as pottery making, building huts, and planting seeds. The bursting of an ice dam in North America brought cold conditions to Syria long enough for these settlements to be abandoned and a return to Roy nomadic life.

In the Syrian example Yellow criminals might have preyed on Blue farmers and miners of clay but when trade with them yielded more profit than crime they would have started to select mates with Violet talents who became artists and artisans, with Orange Yellow becoming their agents in the Indigo market which developed. Evolution in Aperiomics has more ways of occurring than in Darwinism with survival of the fittest, often it happens by the selection of suitable mates in sexual selection as well as the way as society forms and operates. For example Yellow predatory natives might have looked for mates with useful talents to become Violet because a woman would see that someone capable of making clay pots would be a better provider than someone capable of violently raiding a settlement, Yellow people without these talents may have moved on elsewhere when some of their tribe became Violet craftsmen and stayed in the growing Biv villages.

Those with good genes for Biv might adapt better because of this awareness of what a suitable mate is in a Biv color code such as a Violet man looking for a talented wife to weave cloth or a Blue farmer looking for a wife who can help in the fields rather than move nomadically looking for food. This awareness of the abilities of potential mates can make some genes sprout into branches of Violet specialization such as doctors, blacksmiths, artists, etc, or downwards into Blue roots of hard, determined workers such as farmers, miners, etc . As these genes can rearrange themselves into Biv trees if resources become scarce they can also disintegrate and reform into Roy tribes, flocks, herds, packs, gangs, and so on. For example if a Biv settlement starts failing in a drought Violet artisans might revert to Yellow predatory ways and select mates who are more ruthless in attacking other tribes rather than a mate to raise more talented children. Instead of finding a mate by free choice so each benefit from the relationship they might be taken by force, disintegrating family trees. A family of farmers might be broken up as some are raped, kidnapped, or they foresee a more prosperous life by going away with Roy nomads. A member of an Indigo Violet branch of talent such as metal working or pottery making might select an Orange Yellow mate since crime in harder times such as a drought appears to pay better than Indigo Violet work, and Indigo Violet intelligence preys better on Red nomadic people as well as watching Red animals such as gazelles. This can happen in modern societies as well where Yellow gangsters might attract mates with Violet beauty and talent such as actresses and singers with their ability to prey successfully on society, and also through threats and intimidation cow a mate into submission and scare off rivals.

This can happen particularly in Roy areas where Violet talented people give up school to join a Yellow or Orange Yellow gang, this can also happen by a Violet mathematician working on Wall Street as a quant because the money from fraud is so good compared to a mathematician’s wage. Yellow mafia involvement on Wall Starting shorting companies can mean they work with organized crime, or if the fraud is secretive then Indigo Violet agents may commit crimes such as trading in front of customer’s orders.

Blue worker families might build up a gene pool over time that makes them hard workers and determined to succeed, then something may change like a drought or mine running out of coal, then potential mates on Red welfare, nomadic visitors and strangers might seem more attractive as a ticket to a better life in Greener pastures and the gene pool fragments into Red tribes. If Green resources improve such as with a better climate for agriculture as an El Nino ends or the discovery of more coal the Blue and Violet gene pools can start to regrow, and sink their roots into new resources.

Evolution then can occur with no survival of the fittest in the sense of members of a species dying out because they are less able to fight off predators or are otherwise unfit. On the Galapagos Islands for example finches might have evolved longer beaks not from mutation and some dying out by starvation but by sexual selection where those with longer beaks were seen as superior mates by finches seeing they ate more easily. Eating more could have made them look healthier and more attractive, in a Violet sense or able to fend off rivals better in a Yellow sense. In nature Blue animals might act like farmers by living in a small fertile area, their grazing or other eating of plants causes them to excrete seeds which sprout into new food for them, similar to a farmer planting seeds. This can lead to inbreeding since these animals would be less likely to meet other herds, and they can evolve into a separate species. They may do this by being mainly loners who compete for territory such as beavers and then stay within it, or like deer in a small forest that spread seeds around and become inbred, some dying out if this inbreeding causes genetic abnormalities or these mutations forming another species over time.

If these Green Blue resources dwindle in a drought then the Blue and Blue Indigo animals can become nomadic as Red and Red Orange, in meeting other animals like them their cross breeding can disperse the specialized genes they had evolved in Biv. For example Blue Indigo deer may have become weaker with few predators around and more specialized to eat some foliage but when they move on and mate with stronger deer adapted to eat a wide range of foods their special adaptation to certain foliage would disappear. Later they may find another Green Blue environment such as around a river in a dry area, this causes them to become Biv again like farmers and adapt to eating the plants there and distributing the seeds by excreting them with fertilizer. The tendency of Red Orange and Blue Indigo herds is to evolve towards normality because of their team instinct spreads genes around in them more randomly. For example more successful and desirable males might get most of the females by ritualistic battles against the other males and losing banishes them to the edge of the herd where they are in more danger from predators, but the team instinct still tends to protect them so their genes are rarely lost. A more Red herd such as gazelles might protect these animals as a team against small predators such as wild dogs but scatter as Red against lions leaving the weaker and slower animals to their fate. The herd develops family ties based on a male’s favorite females or the winner of the battles between males bind the herd together with more shared genes, this increases the team instinct of the herd but also those less related may not be rescued from predators so this weeds out some less popular genes. The ones less related to others move differently because they have slightly different instincts, so the normal part of the herd might go instinctively one way and those on the fringes another way and be cut off from the herd by Yellow predators.

The tendency for normalization in team colors can be illustrated more easily in Biv with two Pascal’s triangles with their apexes touching each other, the root shape of a Biv tree is the lower triangle while Violet animals form the upper triangle like the branches of the tree.

1 5 10 10 5 1

1 4 6 4 1

1 3 3 1

1 2 1

1 1

1

1 1

1 2 1

1 3 3 1

1 4 6 4 1

1 5 10 10 5 1

A horizontal cross section gives numbers that approximate a normal curve distribution while a vertical cross section gives a rate of growth of Blue and Indigo Violet animals, parts of plants, people and social organizations. Blue has a competitive urge to excel downwards like competing miners or farmers at the expense of those to its side, so numbers to the left and right represent other Blue people in this competition and those on the edge of the triangle can be like those in Red left behind to predators when these animals compete with each other to escape. The numbers in the center of Pascal’s triangle are larger so this represents a faster rate and growth and being more successful in competition, those on the edge like the edges of branches and roots grow more slowly and are more prone to breakage giving rise to the center of the roots and branch systems usually being longer and stronger.

Taking a horizontal section through a triangle the numbers are larger in the center, this also indicates these people have a larger chance for success but this horizontal section has a team instinct as Blue Indigo in the bottom triangle and Violet in the top. They help those on the fringe who are less successful and by their team actions they overall have a better chance to survive. So in Aperiomics these chances of success are determined by the vertical growth and collapse which is chaotic, secretive and deceptive, and the horizontal which is a team instinct which succeeds by being open and honest with a randomizing strategy against risk. A horizontal line of Pascal’s triangle becomes the normal curve which is the foundation of all probability while the vertical component becomes exponential growth which is the foundation of chaos theory. If a cross section is taken at an angle it can give the Fibonacci numbers which represent the compromise between chaos and randomness that a tree uses in its branch structure, these closely flow the actual ways branches divide in nature.

Usually the forces in an economy are like an angled cross section of this triangle, for example this gives a shape similar to a normal curve but skewed to the left side. This would represent a growth phase that tapers off into maturity like a tree growing exponentially and like an S curve maturing into a random phase where its Violet canopy and Blue Indigo root connections provide stability. An economy might go through phases like this where companies grow rapidly and sometimes reach tipping points and collapse, then if they grow big enough they reach the right side of the curve where growth tapers off into a randomly based mature phase. Where the economy is to Indigo Violet versus Blue this angled cross section is too close to the vertical and there is too much growth and not enough random teamwork to bring stability against random processes, this is like a tree that grows quickly but collapses under random events like storms and wind. Where the economy is too Violet versus Blue Indigo the angled cross section is too horizontal so growth is too slow giving stagnation but it is highly resilient to random events like storms, this is like a short but strong bush.

Where the two Pascal’s Triangles touch is like the trunk of a tree where Blue Indigo and Indigo Violet interact, Biv animals here are like the middle of a Roy food chain separating the Red prey from the Yellow predators. The interaction of the vertical Indigo Violet and horizontal Blue Indigo form the Indigo marketplace where chaos and randomness find a middle ground for stability and growth.

In Roy the triangles work in the same way except Red is vertical and Red Orange horizontal in the lower triangle, and Orange Yellow is vertical and Yellow horizontal in the upper triangle. This also gives approximately the chances of an animal surviving though to more accurately represent a real life ecosystem the triangles would have varying numbers and retain less of their ideal shape as shown here. Statistics of an economy can then be represented in this way to show how the color codes interact with each other and this will be shown in the next book.

Indigo Violet animals such as housecats escaped into the wild are like Orange Yellow but confined in a Green Blue area of abundance and with more food they became more adapted to catching Blue animals such as mice, birds, etc who also prosper by staying in one area rather than needing to be nomadic or migratory when food is scarce. Because there is more food in Biv areas Blue Indigo and Violet animals act more for their common benefit more than just being defensive herds against desperate predators such as in a drought prone area. Blue and Indigo Violet animals grow quickly in numbers to offset being eaten, Blue mice compete against each other for food and Indigo Violet cats would also compete against each other for catching food. Stealing food from each other like they would in Roy is less useful as a tactic because there is other food more easily caught. A praying mantis can be Indigo Violet and stalks its prey such as Blue lone bugs by camouflage and speed, in a Biv forest with abundant food these insects can form a stable ecosystem.

Violet animals move as a team like army ants and can eat plants or other animals they overwhelm with their numbers, ants cooperate with each other and never fight one of their own as cooperation is more efficient than survival of the fittest where Yellow lions might attack or reject weaker members of its pride. In Japan wasps can form Violet armies attacking Blue Indigo bee hives, the bees can survive by smothering individual wasps by overheating them in a divide and conquer strategy. If the environment changes to Roy scarcity then these animals might have to become nomadic, Violet army ants may leave as a group and travel for a new permanent home devouring other insects like roving lions. Some bird species can be Blue Indigo and live in a small area, protecting themselves by forming tight flocks that Violet hawks can injure themselves by diving into, they pick off the deviant birds on the edges of the flock that don’t move as well with the rest of the flock and become isolated. These birds can become Roy and move around if food is scarce, as they consume the leaves of trees they move elsewhere like nomadic farmers giving the vegetation time to regrow, they can also migrate to other Biv areas.

Blue Indigo animals can become Blue and vice versa, deer for example might normally form as herd but in thick vegetation become more solitary, this makes them less related to each other as a team and weaker males of the herd having a greater chance of competing to find a mate while stronger deer have less chance of getting many mates. In a Red Orange herd the males cooperate decide which will have the greater number of females by a ritualistic contest such as deer locking horns, the losers tend not be deceptively try and get females competitively, rather they cooperate with this token competition. Instead of the deer cooperating as a herd in a forest they might compete with each other for food because the thick jungle can make it harder for the herd to move as a team, this makes them become more varied in their genes. Violet animals such as tigers and jaguars might normally have hunted in packs like lions but thick vegetation can make them Indigo Violet and hunt with secrecy using markings on their hide for camouflage which Yellow lions would not need. This would evolve into markings that blend into shadows and these would compete against other jaguars or tigers with fewer markings, perhaps leading to a rapid growth of those with better camouflage and a collapse in the numbers of those without the markings. Those with better camouflage would eat better and raise more young cubs, outbreeding those with fewer markings, also those with better marking might be preferred by mates who can see them as more useful for hunting and make for more desirable cubs.

Just as sexual selection can evolve people or animals the ones they do not select create effects as well. In the case of jaguar or tiger markings if animals without desirable markings are discriminated against enough then those animals might die out even though stripes on a tiger may not be very useful. This can be the effect of chaos in evolution; a preference for a new mutation such as stripes can lead to a high growth in the number of striped animals and a collapse in the numbers without stripes if this change is enough to create a tipping point. An extinction of a species can be explained in this way where a reduction in a Red or Orange Yellow animal’s ability to hide, be deceptive, camouflage itself, and move quietly can lead to a catastrophic decline, this can be caused for example by a new Orange Yellow predator such as domesticated cats being released into the wild that is faster than the Red prey, finds where they hide, can see them more easily despite their camouflage, etc. A new Red prey could also make an Orange Yellow predator go extinct, for example if rats introduced into a new ecosystem consumed resources and replaced other Red prey then the original Red prey would decline in numbers with less food while they were killed just as often by predators, if the new prey was resistant to the Orange Yellow predators such as being too fast or hard to see then the predators which could not moderate their need for food would eat all the old Red prey and then starve into lower numbers or extinction. Similar processes happen with people evolving into different color codes, these differing evolutionary pressures can form races, castes, classes in society, create dialects and slang, etc.

Red people evolve like Red animals, they are secretive and deceptive and tend to scatter and hide when danger threatens. Minorities in society can be Red, such as Jews and Gypsies in Nazi Germany, gays, Kurds in Turkey, escaped slaves in the American South prior to Emancipation, Native Americans in the United States, etc where those not quick enough to scatter or have poor camouflage could be beaten or robbed, even lynched or murdered. This genetically selects people to be Red as too much courage and standing together as a team, army or gang can get them all killed. Gay people for example might have had to stay in the closet and get married to avoid gay bashing, discrimination at work, and so on. Their social networks can also be secret so this can lead to the formation of secret societies, secretive and deceptive ties between those of a race or religion to favor each other in business. Red people on welfare can also face discrimination as parasites on society so they might avoid this by keeping their job status a secret and dressing like others in society rather than looking impoverished.

This causes evolution to favor Red and Orange Yellow people recognizing each other when others cannot, such as with secret handshakes, discrete markings such as jewelry, shibboleths557F[[554]](#endnote-554) such as speech accents and mannerisms, so they tend to intermarry to preserve their secrets and become more distinct from the rest of society. New traits that give an evolutionary advantage can be quickly spread through the population as desired men might cuckold and father many more children secretly and deceptively, not provable until recently with genetic testing. Other traits can lead to a collapse in the population numbers by making them unable to camouflage themselves, the Nazis used family trees and physical appearance to identify many Jews hiding as Aryans, Native Americans were too distinctive in appearance to avoid prejudice even after joining mainstream society, blacks and Hispanics in America face discrimination the same way.

In a marginal society there are also Yellow people who survive by beating their rivals and forming enduring alliances, Orange Yellow support their champion and expect him to reward them if he becomes top dog. In nature as well Yellow predators fight over mates and who will lead the pack or pride and get the lion’s share of the catch, just as the king gets the lion’s share of the spoils of war. Weakness of Yellow can be watched for by Orange Yellow and Yellow rivals coveting their territory and in the same way Yellow lions might be turned on by others if seen as weak or injured, also Orange Yellow jackals might attack a weakened or ostracized lion. The offspring of Yellow aristocracy, kings, dictators, and Mafiosi can come from this Yellow intermarrying, sometimes with Violet talented people such as Grace Kelly558F[[555]](#endnote-555). Children might retain the Yellow genes such as the king’s child becoming a good king while taking after his mother from another royal family, he might also regress to the mean and be more Orange Yellow devious rather than strong and be able to forge alliances such as King John559F[[556]](#endnote-556) the brother of Richard the Lionhearted. A Mafiosi family might have children unsuited for the organization; Saddam Hussein had sons unlikely to have been able to rule Iraq, and so on. In a marginal society Yellow may rule when the economy is Roy for example with Pinochet fighting Red Communists, when more prosperous the Violet businessmen supporting the Yellow strong man might instead support a Violet elite such as an aristocrat or actor as in America with Ronald Reagan or George Bush senior.

Orange and Indigo form an important part of Aperiomics, if they are not strong enough the centers of Roy and Biv economics break down. This can happen by Yellow and Violet or Red and Blue becoming too strong, or a conflict between left and right breaking down the center because a middle ground cannot be found. In a civil war such as happened in Germany in the 1930s Red Communists tried to take over and Yellow gangs as the forerunners of the Nazis, fought to eliminate them. Orange police became ineffective in this battle of extreme colors as they could not find a middle way between the two because no one could conceive of a mixed economy of communists and Nazis. In the United States at this time the great depression alienated the wealthy Violet talent from the Blue workers, the Indigo market failing to coordinate supply and demand between them. Much of this was caused by the clash of two opposing doctrines, Red Communism which fought also for Blue worker’s rights and Yellow authoritarianism such as fascism and Nazism which also supported Violet free enterprise but few supported the rule of law with Orange and the Indigo market was very corrupt in the 1920s under Calvin Coolidge. The communists believed Biv capitalism was doomed and should be tamed for the use of the Red state so the economy could move to the next level after capitalism. This is like the view of Red sheep who see Violet grass as theirs by right and conceive of a society where Yellow predators are feared and killed or banished and they have Biv plants to provide all their needs, and indeed Red animals in many areas of the world without Yellow predators seem to stabilize their numbers and evolve without them. For example in New Guinea and some Pacific Islands there are no predators for birds but this makes them evolve more with sexual selection, by evolving brighter plumage and more elaborate mating rituals the males seek to attract females rather than having to show prowess in fighting each other like deer.

The other extreme was Yellow social Darwinism560F[[557]](#endnote-557) where the strongest were considered fitter to survive because they were more capable of killing rivals, and in Nazi Germany the Violet flowering of the people or Volk were to be protected from Red Communists, This discrimination also extended to Jews since some of the communist elite were Jews and International Jewry had declared war on Germany in World War One in exchange for the Balfour Declaration561F[[558]](#endnote-558) by Britain. Violet evolves by survival of the most talented but when threatened it incorporates Orange Yellow and Yellow attacks such as thorns and poison used in plants as well as Yellow predators able to more easily kill hungry Red animals and those poisoned by plants.

So the attack by Yellow fascism on Red communism was also a philosophical battle in Roy as to which color would be dominant, often one color or another is dominant in society but still balanced by the Orange police and law courts, for example the European Union is more center left or Red Orange while the United States is more center right or Orange Yellow. Orange police and Orange neutral nations were unable to stop this conflict because the League of Nations was relatively weak and also because there was little philosophical belief in moderation, both Yellow and Red saw themselves as the correct philosophy and the other as destined to fade away. Red communist spies were also infiltrating Blue work forces in Germany and the rest of Europe to try and create a communist revolution in an economically advanced state as Marx advocated, and Violet business leaders became more connected with Yellow Nazism to protect them, Thyssen562F[[559]](#endnote-559) donating money to Hitler and the Nazi Party.

Much of the world was a marginal society in world war two with a struggle for Biv economics to rule in some areas such as the United States and Britain tried to maintain a Biv Empire. Germany and Italy became mainly Roy since economics there was of scarcity and profits were more easily made by taking wealth from Red people, Jews were a target but also countries such as Poland, France, Belgium, and to the east were seen as prey for the Yellow predators. As long as the cost of weapons and soldier's pay was less than the plunder of Red countries and people and more than could be gained by war than in the post-depression Biv economy then Roy economics was more efficient. The cold war was a struggle for the supremacy of Roy, Red communism versus Yellow authoritarian dictatorships propped up by the West to contain communism and also for the supremacy of Roy economics of war and scarcity over Biv economics of peace and abundance, a struggle Biv has won temporarily because technology has created enough abundance to make Roy economics seem less efficient. Countries fell to Roy such as South Vietnam to communism and much of South America and the Middle East to Yellow authoritarianism, in many countries the battle rages on such as whether China can become prosperous enough to form a Biv economy or scarcity will force them back into communism, like the battle of animals and plants claiming the same land or forest versus savannah.

Lenin believed that to help Biv capitalism towards its final crisis its imperial Empires should be destabilized, with countries such as India to be infiltrated by Red communists to agitate for their independence. Later once a country was isolated from the Empire it could be more easily taken over and made communist. This is like Red Orange animals such as buffaloes trying to kill lions, if they can separate them then the herd can more easily attack one of them563F[[560]](#endnote-560). Divide and conquer is a strategy Yellow lions use as well in trying to separate a Red Orange buffalo from the others to make it Red and vulnerable, this is like the West trying to isolate countries such as Cuba and El Salvador by threatening the Red Orange soviet Union and then destabilizing them with attacks such as the Bay of Pigs and trade embargoes. In response to the fear of a communist takeover many countries appeased the Blue workers with welfare, pensions, health care, better wages and shorter work hours. These social insurance ideas emulated many of the worker’s paradise ideas of communism and redistributed income from Violet just as a tree should share nutrients with its Blue roots, welfare also supported Red people on welfare in a good enough way that much of the motivation to form a Red state was lost. Lenin himself said that advanced capitalist business structures would be needed to transition to Communism, and communist states like Yugoslavia functioned better with a restricted Biv market economy just as Biv Germany functioned better with a Roy welfare state.

Red Orange communism also aimed to infiltrate the Blue Indigo unions and create strikes as it saw this as a way to drive off the Yellow colonialist masters like Britain in India. Strikes could break down the coordination of the Indigo market, making it more Roy so that Red Orange communism would appear to be a plausible government instead of just a Blue Indigo left wing democratic party in power. The Biv plant societies would became more like grassland and less like forests if the Biv economy was sabotaged, this is good for Red Communism which is like grazing animals such as cows. Yellow predators such as criminals, fraudulent businesses are more restricted in the mixed economy by the Orange police where in a more Biv society economic deregulation allows naked short selling, investor fraud, insider trading, front running, and mafia involvement on Wall Street to be more common.

Other colonies such as the Philippines developed Red Orange guerrilla armies, providing resistance to the Yellow Japanese Empire just as Red Orange communists also did to the Yellow Marcos regime later. Greece during world war two had Red Orange partisans who tried to drive out the Yellow Germans and later tried to take over Greece as a communist country, needing a Yellow right wing government to contain them. In some cases other Yellow imperial governments used atrocities similar to the Nazis and Japanese such as the British in India and the Belgians in the Congo. Reprisals were typically used on Red to stop them supporting Red Orange resistance, the Yellow Nazis did this in France in the later part of the Second World War and in some Eastern European countries they occupied many citizens would be killed for the death of a German soldier. Proxy wars were fought between Roy and Biv for decades in third world countries because technology slowly made some Roy areas Biv while other Biv areas lost resources and became Roy, the two systems might function together in some countries such as with Eurocommunism564F[[561]](#endnote-561) but fight in a civil war in others such as in many South American and African countries. It may have been the rise of computers and software and other advanced technology that provided abundant resources that made Biv seem the better system though poor parts of the world are still dominated by Roy.

Roy systems can have an extreme view of Green public property with little or no Green Blue private property. Hitler created a state run trade union and eventually most people worked for the state, the Red communists also regarded all assets in Russia as publicly owned. Even some Biv countries have this as a legacy, in Great Britain all property might technically be owned by the Crown and because the power of the Crown is now controlled by a Democratic Parliament then this can imply all real estate is publicly owned in principle. A Biv society can take the opposing view, that no public property is needed and roads, parks, even the air can be Green Blue private property as suggested by Murray Rothbard565F[[562]](#endnote-562), a follower of Ayn Rand.

Roads are sometimes privatized as Biv where a company might pay to build roads, bridges, freeways, in return for the right to charge tolls and fees; after a fixed period or amount of money collected then ownership might revert to the Roy State. Usually in these cases a monopoly is avoided because other Roy roads could be used if the road owner charged too high a toll or excluded some people from using it.

In Roy countries business can be run by the state, for example television stations, cars, food production, health care, can be either Red worker based or Red Orange worker cooperatives or Yellow state monopolies such as oil production in the Middle East. Violet talent was seen as Yellow predatory behavior in the Soviet Union and China and a threat to the Red revolution, and private enterprise was suppressed even in running restaurants and cafes. Since Violet talent was not well compensated and often persecuted or regarded suspiciously the result was a grass like economy well suited to Red Orange people because it provided basic products as grass does for grazing animals but few Indigo Violet variations in different styles and tastes. This is like a savannah where there are few bushes and trees for animals to eat such as Acacia trees in Africa.

In Yellow societies such as dictatorships in the Middle East and some South American countries such as Nicaragua and Argentina in the past, state owned business such as oil, power, water, trains, food were owned as Violet because they were either nationalized, run by Violet cronies or modeled on private Violet companies. They were potentially vulnerable to disruption in a civil war caused by Red communists because many of these businesses have a branch like nature vulnerable to a chaotic collapse if they are cut, for example power lines radiate out of a power plant like branches of a tree, train lines and roads connect different parts of the economy like a trunk of a tree, and so on. Attacking a weak link in the chain is like cutting down a tree or sawing off a branch, once separated the parts collapse with a waste of resources because the chaotic connections are broken. Blowing up a connecting bridge or closing an airport because of a fear of terrorist attacks also breaks these Indigo Violet versus Blue connections, the lack of free movement causes scarcity if the Biv economy collapses which makes a Roy government more attractive.

For example in South America Red natives discriminated against by Biv society were wooed by Red Communists and attacked by Orange Yellow death squads. Violet businesses mainly looked after the wealthier people and Blue Indigo unions were banned or tightly controlled resulting in lower wages and a top heavy wealth concentration in Violet. In the Middle East Roy public oil companies mainly support corrupt Yellow royalty, dictators and their cronies. Public military budgets can allow corrupt purchases of arms, money siphoned away through Orange Yellow agents and historically posts in the military and diplomacy have often gone to Yellow aristocrats and patrons such as business people, campaign contributors, etc.

Violet businesses might receive favorable or no bid contracts to pay off Yellow cronies in military procurement and support, water supplies, public works such as building, electricity building of power stations and maintenance, a drug trade looked after and even surreptitiously run by the government, etc. Mexico and Columbia have often had high levels of corruption making drug traffic virtually state sanctioned. State resources such as mining and water leases might be given or sold cheaply to Violet cronies.

In Red countries such as the former Soviet Union communist party members secretively received special treatment such as goods from overseas and less waiting for food, housing, and cars. Red people also competed secretly and deceptively to get higher in the communist party hierarchy and depose others often by accusing them of being traitors. As communist countries tried to move away from a full Roy system many Roy businesses were privatized to Green Blue though people were unfamiliar with how to run a Biv business. Red workers were unused to working hard like Blue and Violet talent was persecuted under communism and underpaid so there were few ideas on how to build variety into products to stimulate demand as well as how to form and run a Biv shaped company with roots and branches. Coordinating supply and demand in the Indigo market was an atrophied ability because Orange police were used to deterring and prosecuting market activity. Sometimes this easing of restrictions on Violet talent allowed Yellow and Violet to become oligarchs, organized crime and corrupt public officials making money off running and privatizing Red businesses. In some cases it was like a sheep herd suddenly being attacked by previously suppressed Yellow predators such as wolves.

The growing of new Orange Yellow and Indigo Violet parts of a Roy economy can lead to chaos and tipping points, because Red people have little experience of how these colors act, having been over protected by the Orange police for so long. This is like in nature where a new Orange Yellow predator such as cats and rats in Mauritius were introduced by man, the Dodo had no natural instincts on how to defend itself and became extinct. In the same way Red Russian people had had little contact with Orange Yellow and Yellow criminals since the Nazis in the Second World War and were unprepared for how crime and greed would explode chaotically and with teams of organized crime when the economy was deregulated. Russia and other Eastern European countries had fast growth and many collapses in the business sector as well as sudden surges and declines of Orange Yellow predatory businessmen. A banking sector would represent a series of branches in the Biv economy, prone to collapse and disintegrating if it grew too fast. Likewise foreign investment in Indigo Violet industries could grow quickly and collapse from sudden losses in confidence while Violet management would try and ride out the chaos by looking for a long term presence.

A Yellow economy also has problems in becoming a mixed Biv economy. Where Yellow state owned industries with their corrupt Orange Yellow cronies try and become Biv industries with Violet talent and Indigo Violet agents then they tactics based on scarce resources such as using corruption and power can be inefficient. Blue and Violet parts of the economy need to grow, Red welfare needs to be introduced as it provides a safety net for Blue workers and placates Red Orange terrorism which has usually grown to resist Yellow dictatorship. Blue workers have to be seen as negotiating partners rather than adversaries, the Orange police may have suppressed activities that have to be allowed such as Blue Indigo unions and cooperatives. Care needs to be taken that Blue workers don’t grow too quickly and cause collapses, changes in the ratios of colors can lead to blowback and moving back to the old ratios that the economy knows how to operate even if inefficiently. A good example was the Argentinian government under Pinochet which sponsored Orange Yellow death squads for Red Communists and others, state run and crony businesses siphoned off wealth to the Violet upper class. Welfare and pensions were cut back, unions and free speech of workers suppressed. The United States supported this to some degree fearing Red Communism and the loss of part of its Yellow Empire and sphere of influence. Some Indigo Violet American businesses as CIA fronts propped up the regime.

Orange Yellow authoritarian governments tend to collapse chaotically as they reach a tipping point, this was seen in Iran with the Shah, the Philippines with Marcos, Nicaragua with Somoza, and so on. Red Orange socialist governments tend to become disorganized and vulnerable to attack as Red Orange defenses weaken, this is like a herd of buffalos losing their cohesion and having to flee individually. Red governments can compete with each other using lies and deception to send rivals to the gulags, military, etc. Examples are the Soviet Union, Poland and the Warsaw Pak, Yugoslavia later, El Salvador, with Cuba, North Korea and China experiencing these problems.

The courts have evolved a dual role in history as Roy and Biv, Roy with criminal matters relating to Orange police, and civil matters relating to Indigo market coordination. Law in both has evolved to find a middle ground in Roy conflicts and Biv negotiations and agreements. In some cases this is in the Orange or Indigo center, more often the court consistently favors the left or the right. In a Yellow nation judges owe their allegiance and appointment to Yellow and normally rule against Red Orange demonstrators, terrorists, freedom fighters, opposition parties, minorities, socialists, Communists, and so on. The Yellow government is seen to rule by fear and strength, as a dictatorship or theocracy if not at the ballot box. Sometimes judges are elected by the people in the United States, and if that electorate is far right Yellow in politics then so must the judges be to be elected.

Yellow business is usually not prosecuted by these courts because systemic corruption can extend to the judges accepting payoffs as well as conflicts of interest. Torture might be allowed in this system since the war between Yellow and Red Orange is a violent one. Sentences are likely to be long including the death penalty, and the burden will be more on Red Orange to prove themselves innocent. Rendition from the United States has taken advantage of Yellow legal systems such as in Egypt, Syria and Afghanistan. White collar crime would have low penalties, often for being on the Orange Yellow fringe and not being close enough to the Yellow leadership. The courts can also be military tribunals, like witch hunts and Kafka like tribunals.

Orange Yellow leaning courts tend to sympathize with Orange Yellow, allowing more fraud and white collar crime particularly for informants but prosecuting Yellow violent criminals such as bank robbers, murder and assault. The government may also be Orange Yellow, not an extreme dictatorship but ruling more by deception rather than force as Machiavelli advocated566F[[563]](#endnote-563). Police may concentrate more on violent crime while being sometimes corrupt themselves against Red people. Citizens may need to defend themselves more, being armed as Red Orange to defend their homes rather than depending on Orange Yellow police who either might not come or even steal from a crime scene. Red Orange gangs might suffer from the absence of Red Orange defenders and sympathizers in the police and courts, this could happen to minorities, ghettoes with poor people, gays, and so on.

Guns can be allowed or encouraged as a way for Yellow and Orange Yellow to be predatory in hunts but also for personal violent solutions to crime. Secretive battles between Orange Yellow and Red can be allowed or tolerated such as the lynching of Red blacks in America by the secretive Orange Yellow Klu Klux Klan567F[[564]](#endnote-564), and the courts and police without a Red Orange component might help to cover them up. If Red Orange commits too much violence to protect their neighborhoods such as killing an unarmed or lightly armed Yellow intruder, attacker in a bar, rapist, mugger, purse snatcher, etc then the courts might decide against Red Orange for being vigilantes. Red Orange might sometimes cause riots and demonstrations, gang beatings and murders, and the Orange Yellow courts and police might not interfere because they are not equipped as Yellow to handle this as a team. Red Orange gangs might be allowed to exist with stable leadership and only arrested if they go too far, the courts and police having little sympathy for their Red victims.

Petty criminals that commit little violence or harm such as products injuring people, restaurants with poor hygiene, deceptive advertising and selling, etc might be seen as a way for Orange Yellow people make money from Red minorities and others that the court and police have little sympathy for, the rule might be for the buyer to beware as Red or Blue rather than getting consumer protection. The courts might see Orange Yellow as the base that elects them or the government and must tolerate petty crime by them or be seen as siding with Red. Welfare would usually be small or non-existent and welfare fraud, or Red stealing from Orange Yellow wealthier people could be dealt with severely while Orange Yellow ripping off of the poor is ignored. Welfare organizations might sometimes be Orange Yellow and siphon off funds meant to go to Red giving poor service in legal aid, quality of food for homeless food banks and soup kitchens, social workers, finding treatment for Red drug addicts, trying to addict Red gamblers with state run and approved gambling on such as horse racing, casinos, poker machines, lotteries and lotto, corrupt prisons where money for the care of prisoners is stolen, illegal but poorly enforced numbers, dog fights, cock fights, and so on. Poor investment advice by Orange Yellow can be tolerated in superannuation, annuities, insurance, real estate speculation, so called no documentation or liar loans where the Orange Yellow salesmen make money while the Red poor lose their savings in adjustable rate mortgages in similar ways, subprime bonds, and so on.

Red victims can also be in other countries, business there might be owned in the Orange Yellow nation and the Red country is secretly stripped of assets in similar ways. Rather than using Yellow military violence deceptive Orange Yellow influence might bribe the government for favorable treatment, give loans that corrupt politicians can siphon into overseas bank accounts, run businesses there that can hurt workers with pollution, sell inferior products such as medicines too harmful for the Orange Yellow nation, export toxic waste there rather than clean it up in the home country, defraud natives with low prices and bad deals for raw materials, rigging Orange Yellow courts and police to rule in their favor, using deceptive Orange Yellow spy organizations to trick Red governments into bad business and military decisions, and so on.

Orange police and courts are balanced between the needs of the left and right. They favor Red Orange against Yellow though are less in favor of the community sorting out their own problems with violence, preferring Orange police to mete out justice. They also still favor Orange Yellow as before; there is a mix of allowing some exploitation of Red but also supporting Red Orange self-defense to prevent this. Gangs might be less necessary since the police respond more to Red victims. Some areas can be one color code and other areas get treated differently, a Red ghetto or neighborhoods of gays might be governed by Orange Yellow courts and police, other areas might be Orange such as a different state or county and defend them more. The marginal society then has areas that get treated differently so businesses and people may shop around for the best court jurisdiction to hear a case.

If the police and courts are Orange then the community might need less Red Orange gangs, neighborhood watch, vigilantes, weapons in the homes and in cars, and these can devolve and wither away while Orange prevails. Orange may seem to be the fairest system but different economies may realistically dictate other color ratios. For example in nature a high Violet to Blue ratio would appear as tall trees and a low ratio as grass. Biv economies such as America can be like trees in some areas where the Violet rich and talented dominate such as Wall street and Silicon Valley, while others are like grass where Blue workers dominate such as farmlands and mining communities. If people try to change the color ration of an area there can be resistance, this is one reason why trying to eliminate poverty is so difficult. Also if most of the people are Orange Yellow by nature and Red is a minority it is hard to convince them to stop preying on Red people and give up a major source of income, also the police and courts will try and find a middle ground in the community so here this would be more to the right rather than neutral. For example in many countries Red Jews were persecuted, they were often smarter and excelled in banking but didn’t have the Red Orange strength to stand together as a team and defend themselves so periodically Yellow governments and gangs would initiate Pogroms to rob them, because the Jews were Red they would tend to collapse chaotically and then regrow. It was unfair but the imbalance of power made it hard for Orange Yellow and Yellow to stop, any more than to resist invading a weak nation to increase the size of a Yellow Empire.

Red Orange courts and police will mainly target Yellow violent offenders and their main sympathy will be with Red victims. This is the usual system in left wing countries and moderate Communist ones. Yellow robbers, rapists, hate crimes, far right extreme political parties such as neo-Nazis, etc will be dealt with violently and sometimes with the death penalty. Orange Yellow criminals would be used as informants to some degree but less than in an Orange area. Consumers might be highly protected and Orange Yellow would be unlikely to get away with much, this would be more like the seller should beware than Caveat Emptor or buyer beware. Red Orange police would be very heavy on Yellow organized crime and capitalism itself could sometimes be seen as predatory by nature. From their protected position Red can receive extra welfare and few convictions for welfare fraud while secretly and deceptively robbing wealthier areas, at the same time companies that deal with the poor and minorities could be highly penalized for corruption. Warrantees and consumer protection can be so strong that predatory companies along with honest Violet ones can get driven out of business.

A Red Orange dominated country would be highly restrictive in its dealings with Yellow and Orange Yellow ones. Bribes and predatory contracts are likely to be cancelled if a deal later turns out to be bad for Red, such as nationalizing oil and minerals such as in Venezuela. Red crimes such as drug addiction would be treated leniently; Orange Yellow dealers would be penalized while Red is seen as a victim often needing medical care. Philosophically a court with a particular color code can have a world view relating to that color and treat other colors as aberrations of the ideal philosophy. For example Red communists see the world as belonging to the proletariat and that Biv business should be subservient to them, and the Yellow criminals and capitalists eliminated. Yellow Nazis thought the same of Biv economies but that Red should be subservient or eliminated as evil.

Yellow courts might see the victor having the spoils or the survival of the fittest as its legal and moral philosophy and have little sympathy for Red people as losers intended by nature to be superseded by Yellow. Orange Yellow can see Red as fair game for swindling and the buyer should beware, that this is the natural way for business because they see Red as gullible and foolish justifying themselves for being knaves. This is like predators justifying their killing of Red and Red Orange animals by that they can breed more to replace any eaten.

Red Orange being might see a world where people should get along and work together, and Yellow an outlaw that might be educated and assimilated into the team rather than punished. This is the world view of some communist countries looking to take over Yellow countries as Russia took over East Germany and re-educate Yellow fascists and Orange Yellow petty thieves and capitalists. A left wing area in the United States might feel some solidarity with Red Orange freedom fighters or even terrorists in Red countries, and if they win office they can be philosophically unable to maintain American Yellow Violet imperial policies, Jimmy Carter was like this and allowed Nicaragua and Iran to depose their Yellow dictators.

Red courts and police are seen in extreme left wing countries such as the former Soviet Union. Red sheep want to graze peacefully and watch each other and the area looking for Yellow and Orange Yellow fascists and capitalists, this is like how shoals of fish watch each other looking for danger and compete to get away and leave other fish in the shoal to be eaten. This leads to the idea of secret police that watch everyone and how Red people can turn in anyone looking suspicious, like with a shoal of fish there is a presumption of guilt for anyone looking different. As in 1984 other Red people are under suspicion and can be removed to Red Orange gulags or re-educated, the normal instinct is to denounce any deviation as threatening. Terror can be a government policy as in the French Revolution and Stalin’s Russia, many Red animals live in a state of terror ready to flee from predators. A Red state can dispose of its fringe deviates in gulags, send them on suicide missions as happened with forcing criminals to fight the Nazis and purge them even if often innocent.

In show trials citizens on the fringes of Red society and even former leaders are prosecuted as deviationist, people are urged to be always vigilant at those wanting to destroy the country and the revolution, Orange Yellow being counter revolutionary and deceptive. Orange Yellow spies from other countries are watched for with some paranoia. Red Orange people are expected to conform to Red ideas even though they are often false or deceptive because Red people still see them as competitors that can be disposed of. This is also seen with Yellow, generally in war Red Orange and Yellow dominate because of their force of numbers, but much of what happens in war is censored as secretive or misinformation about such as troop movements and casualties is used and divisive news reporting is seen as unpatriotic or treasonous.

Red Terror can be an attempt to impose Red ideology on another state by terrorizing people so they tend to run and scatter from bomb threats and warnings, this makes the society act like Red gazelles ready to flee at the first sign of danger and then it can be more controllable by a Red government. In a right wing state the government can make people act as Orange Yellow and be cowardly, secretive and deceptive, for example under Saddam in Iraq many people would have pretended to support him and been afraid to protest.

A Blue dominated area might have police and the courts concentrate more on Indigo coordination. Blue succeed with their determination and hard work, just as in Red the purifying effect is that those unable to do the work get left behind and can form a Blue Indigo union to give them more chance of getting work by cooperating instead of competing. Issues are seen as property rather than criminal law; a crime might be resolved by restitution or payback rather than punishment. Blue Indigo people tend to support each other in cooperatives; there might be a large dependency on unions, credit unions, unemployment insurance, striking with solidarity, boycotts of Indigo Violet agents to compel good business, loaning money and labor to each other and so on. Blue people however tend to avoid this as they prefer to compete with each other and don’t trust others enough to join unions. Police then enforce this Blue Indigo community spirit as a form of neighborhood watch, outsiders and those who don’t fit in are moved on but in Blue areas people find it harder to cooperate with neighbors who they usually don’t know; this makes it easier for Indigo Violet agents to do a better deal with them. Courts emphasize Blue Indigo worker safety and rights to act collectively such as striking, going slow at work or working to rules designed to slow the job down, compel others to join the union and pay dues, secret ballots may not be supported as they can be a way for Blue dissidents to hide, etc.

Indigo Violet agents are typically handled by the Blue Indigo courts in civil actions and Blue Indigo consumer laws regulate how agents can represent their products. Instead of with Orange Yellow crimes these are dealt with civilly as fines and restitution. Blue Indigo towns have restrictive laws to discourage deviations in town planning, house sizes and appearance, school curriculum, wage parity, worker conditions, noise from neighbors, opening hours of stores, uniform and strict advertising sizes and content, claims in advertising cannot be misleading and deceptive, deceptive presentation of meats and vegetables using excessive moisture, colors, and dyes might be restricted, speed limits and safe roads against deviants such as drunk drivers could be enforced with surveillance and random searches, packaging of products and their purity might be checked, TV shows might watch out for dishonest Indigo Violet businesses, they could then be punished with boycotts, etc. Blue parts of the town might have few restrictions like this, people are more individualistic and like to build their own style of house, compete with other stores by staying open longer or being deceptive in advertising, etc.

Blue Indigo courts and police are similar to Red Orange in some ways. However instead of battling Yellow they negotiate with Violet talent who are usually the management of businesses employing workers in the area, so courts and local government can control these businesses for the benefit of the Blue Indigo workers, though Blue worker would be less protected because they refuse to join the union. A Blue Indigo area might be close to or surround a Green Blue resource such as mines, fisheries, farms, and so on, Blue workers can have members of their family in Blue Indigo so the courts and police here are protective of Blue workers even though they may not support Blue Indigo cooperative behavior they may get a free ride from them because union wages might tend to increase Blue wages as well like a free ride, in effect Blue Indigo attempts to cooperate with Blue and draw them into team behavior.

This is often associated with the bureaucracy, those who cannot do the main Blue jobs are protected from losing their jobs here, they coordinate the Blue workers so different resources mined, farmed, fished, etc are fairly distributed. A union then might protect pregnant women, injured workers, minorities, those making mistakes at work, those ordered to do dangerous and unsavory work, those made to look bad by overzealous Blue workers and so on from being penalized or losing their jobs.

Maternity and sick leave equalize opportunities for those who cooperate to reduce risk rather than take their chances in the hope of finding security in Blue, also giving workers time to recover from random accidents and pregnancies. Blue and Indigo Violet see the world as non-random because they survive by deterministic actions, this can give rise to a conservative view of hard work and saving to avoid collapse and disaster. Sometimes workers can be of mixed efficiency, some might be partially disabled, lazy, hard to get along with, even dishonest and so Indigo Violet tries to increase profits by only dealing with or employing the Blue most competitive ones. Blue Indigo counters this by forming a cooperative or union so all must be employed or none, this forces Indigo Violet to cooperate with them or unionize themselves as a Violet corporation, shareholders pool their resources just as unionists do to reduce risk from random events as well as to be able to outlast a Blue Indigo strike.

Pregnant woman on the average can be productive with maternity leave and medical benefits averaged against their use as a worker over a lifetime, often though Indigo Violet wants to dismiss any deviant workers, here pregnant women, because in the short term they may have to pay maternity leave when the worker may not return, and may be less reliable now she has a family to look after and may miss work sometimes because of this. Because Indigo Violet compete with each other if one has to pay maternity leave they may have more expenses than one who does not, and their business may reach a tipping point and collapse as a result. This is similar to Orange Yellow predators wanting to get around Red Orange stronger animals to eat the weaker Red ones, it is more efficient from their point of view that animals like people in trade unions don’t team up to protect themselves. Those chronically unable to work well still get jobs in the bureaucracy instead of being unemployed, for example many government departments and companies help minorities and the disabled voluntarily while others may be compelled to by anti-discrimination laws and tax incentives. Sickness benefits were also fought for by Blue Indigo as these average out in extending the productivity of Blue Indigo workers as do workplace safety rules.

Education can also be fought for by Blue Indigo such as cheaper schools and universities, apprenticeships, management paying for retraining rather than just getting rid of older Blue workers and finding new ones. Rules stopping the overworking of Blue Indigo workers can avoid injuries and long term health risks so workers can be productive longer. This can include shorter working hours, more public holidays, annual leave, extra pay for working on holidays and at night, not having to lift more than a set weight to avoid back injuries, avoiding repetition strain injuries in the wrists, having regular work breaks such as lunch and smoking. All these on average can make Blue Indigo workers more productive and allow deviant workers to keep up, can be backed up by government laws and enforced by the police and the courts.

Just as with Roy animals Blue and Blue Indigo tend to form species, so there are teacher, builder, metal working, auto motive, etc trade unions often with complex territories, job descriptions, and demarcation disputes between them. It is not necessary for upholstery workers to compete with car painters so they may sometimes join the same union, at other times there is a tendency for unions to proliferate like different species because their workers and issues they encounter are different.

This is like how species form in Red, where groups of conformity break away from deviants because they survive more by not having to slow down for the weak, often they don’t even try and defend their own offspring. These Red Orange deviants can surround them or chase after them because they often don’t want to be left behind because it makes sense for a team to include those more able if possible. For example in a Red Orange team of buffalo there is still a tendency for some to abandon others as deviant, these would try to stay in the team usually because it is safer for them, others may be left behind and find each other to form a new team and eventually become a separate species to the new Red Orange herd. If the herd is not very successful in fending off predators then Red parts of the herd may be used to hiding and scattering, and may later split off and become a separate species. Over time this leads to steadily widening differences between herds until they become different enough to not be able to or want to reproduce together.

Blue Indigo unions like Red Orange herds can defend together against Yellow predators and Violet talent so unions can support each other by striking or picketing in sympathy for another union in a dispute, the courts and police can support this in some countries such as Britain, in other countries this can be completely banned or restricted to essential services unions. This is like Yellow predators wanting to divide a large herd to make it easier to attack. Indigo police and courts take a market based approach, like Orange they try and be neutral between color rivals and enemies, preferring for strikes to be the free choice of the Blue Indigo members but also for them to be able to sign work agreements that prohibit strikes. Lawyers who might act for either Violet management or Blue workers could be seen as impartial and there can sometimes be compulsory arbitration before a strike is allowed. In practice though, a society tends to learn towards Blue Indigo or Indigo Violet because Indigo like Orange is unstable and tends to find the middle ground to protect itself.

Indigo Violet police and courts tend to take the side of agents rather than unions. They can make decisions on and enforce Indigo Violet agent’s contracts with Violet talent and management. They promote commerce in the Indigo market but try to get around Blue Indigo unionism by promoting competition as a right for Blue workers. They might try and break down laws protecting unions in a divide and conquer strategy, Violet also tries to wear down the Blue Indigo unions with its team solidarity. They try and enshrine in the law ways to get around collective action so unions trying to keep out scab Blue workers would likely be prosecuted. Indigo Violet wants Blue Indigo workers to not act as a group so they can do business one on one. Secret ballots in unions would be encouraged because secrecy is used by Indigo Violet and Blue, instead of fighting unions directly as Violet does, Indigo Violet tries to fragment them and allow dissension to paralyze team decision making.

An agent is usually a single person or small group though they may represent a large Violet team or corporation. Laissez-faire Capitalism can be policed like this where Violet collusion between parties can be illegal such as insider trading, price fixing, monopolistic practices in management as well as unions. Free trade can be encouraged because Indigo Violet is competitive rather than cooperative, standardized contracts can be broken up so restriction of trade is illegal. For example a standard contract for real estate or employment might be preferred by Blue Indigo and Violet, each can win by enforcing the terms of the agreement all people have to use, but non-standard contracts give the possibility of tricking someone with small print, too many clauses, hard to understand language, and deceptive wording.

Indigo Violet represents talented people that lack the team instinct or common touch and because their talents are so varied they work better competing with each other rather than trying to integrate these talents into a team, instead they represent Violet as a fringe group. Their laws can create binding contracts on Violet such as sole agencies in real estate. Violet law might like to have standardized agreements, but Indigo Violet agreements might have variable commissions, protections against terminating agreements, Violet might sometimes want to go around an agent to save commission and Indigo Violet laws would prevent this. Consumer protection laws in Blue Indigo might have safeguards like cooling off periods which might not be allowed, Indigo Violet needs to use deception to some degree in contracts so transparency and cooling off periods are avoided.

Share transactions can have an open aspect as well as a deceptive one, Violet might desire to buy up shares in the Indigo market and could have Indigo Violet agents and allied businesses buy them secretly and deceptively as proxies instead to keep the price down. This can often be illegal if Blue Indigo laws prevail, such transactions would need to be disclosed if they reach a certain percentage of all the shares. These agents are like Orange Yellow jackals and smaller Yellow predators such as young lions that partially overwhelm a Red Orange prey, so that Yellow predators can finish it off and Orange Yellow gets a share of the kill. An allied company might buy up shares and then greenmail Violet companies to repurchase them and make a profit; this is like Orange Yellow animals ambushing Yellow ones. Indigo Violet hedge funds and investors might short sell shares, often ones they don’t even own or try to buy to drive the price down for greenmail or to make profits when the business is acquired, this requires Indigo Violet friendly laws such as in America where the identities of these short sellers are kept secret by the SEC allowing them to operate deceptively.

This is like Orange Yellow jackals worrying Red Orange animals under the cover of darkness until they tire or make a mistake and allow a weaker Red animal to be taken, like a herd constantly under attack some companies may be constantly shorted until their defenses and capital is exhausted. Once bankrupt or sufficiently injured the company can be taken over or dismembered by Indigo Violet, just like Orange Yellow hyenas dismembering a Red Orange kill such as a young zebra.

Headhunting can be an Indigo Violet business, looking for Violet talent in the Indigo market or in other companies; Violet companies can use this secrecy and deception in these agents to compete for the best talent. Blue Indigo might be against this with laws guaranteeing the same wages for a job description but can also use Blue employment agencies to canvass other Blue workers to unionize. Indigo Violet employment agencies try to break these rules and laws to get the best Blue workers and avoid keeping less productive workers a union would protect. Some companies try to avoid this with Blue Indigo and Violet laws or a signed contract forbidding an employee from working for a competitor, Indigo Violet laws would prevent this as a restriction of trade.

In international law Indigo Violet might try to make binding contracts to get around cartels and government laws. For example OPEC controls much of the price of oil by forming a team, if this cartel fragments too much then oil prices can drop and everyone suffers, Saudi Arabia maintains this cartel by being able to drop prices by producing more oil as well as allowing more quotas of oil sales for some members and they are opposed by Violet oil companies who lose profits because of the cartel. Indigo Violet would try to pick off nations to make better deals just as an Orange Yellow jackal might try and get around the Red Orange parts of a herd to get at Red sick or small members, for example Venezuela is not in OPEC and makes special deals such as cheaper oil for Cuba and even offered cheap oil for some parts of the United States. Many laws are against Blue Indigo as well as Violet monopolistic practices, prices of other commodities such as coffee can represent attempts to create a Blue Indigo Cartel568F[[565]](#endnote-565).

Violet courts and police have a similar philosophy to Ayn Rand, that Violet are the most superior like Yellow predators are the kings of beasts, they should rule and keep the Yellow lion’s share of Biv profits of corporations. They would work against redistribution of income through regressive taxes and taxes on estates after death because this is like negotiating with Blue Indigo unions over wages. Laws would allow Violet monopolies and have more restrictions on Indigo Violet agents. Trade negotiations would concentrate more on Violet management and monopolies versus unions trying to break each other in a war of attrition like Yellow lions fighting the Red Orange parts of a herd.

Violet can also form large foundations and charities as they also feed Red directly like grass to Red sheep, they might see charity as the way to look after Red rather than the Roy welfare system while helping Red to resume work as Blue. Courts often give tax breaks to these foundations because of their team political influence and they can also be used to give monopolistic control by the voting rights of these shares. Violet can own more shares than they could otherwise afford to this way, as well as get other government leniency for their generosity.

Violet cooperates with each other like Yellow lions in a pride; the mafia also cooperates like a team rather than turning each other in to the police. The aristocracy also looks after each other, often because of being related. Indigo Violet competition is also like trees trying to be taller than each other in a forest so as not to be overshadowed but when they are tall enough they cooperate with each other to overshadow the losers and not allow them a chance to compete again. Their Indigo Violet agents might head hunt each other for Violet talent, the more Violet talent concentrated in a Biv business the greater chance of success by using ties to other companies such as having gone to the name university, being from the same area, have the same ethnicity, being on each other’s boards of directors and so on. This can lead to huge amounts being paid to Violet managers, like the victorious Yellow king getting the lion’s share compared to the Orange Yellow aristocracy. In the same way Violet artists might receive huge royalties and payments in films, music, book writing etc compared to Indigo Violet agents because they form a team with their fans. Violet laws then are to maximize the returns for Violet like a Biv tree where most of the nutrients go to the top of the tree, in the race to not be overshadowed.

This can also lead to collapse if Biv companies become top heavy, in the Indigo Violet race to not be overshadowed they can lose strength in their Blue roots or workforce as well as having fragile branches vulnerable to storms like recessions and being fed on by large animals like coming up against larger Violet companies. In Roy this is like a dog eat dog Orange Yellow mentality partway up the food chain where the ecosystem has lost the Red grazers and is consuming the food chain itself leading to a collapse of it. Violet companies can make money from takeovers where companies that used to compete merge and cooperate with each other, Blue Indigo unions can also form links with each other or amalgamate to increase their bargaining power.

In Indigo Violet there can also be competition between branches in one Biv tree or company. For example different branches of a company in different cities might compete against each other, to have the best talent in the company; workers might compete in a cut throat way to rise higher. Branches unable to handle this competition and intrigue might wither, collapse, be dismembered, workers fired or the branch sold off. This can happen with conglomerates of many businesses in the one Biv tree, some branches thriving and shaping the tree to favor them, less successful parts being sold off and other businesses taken over to find a more successful mix of businesses. If too many bad takeovers are made the company can suffer a catastrophic decline especially if the new parts of the company don’t easily cooperate with each other and be taken over or dismembered, a hatchet man might need to prune the branches to restore health by selling off or closing down some acquisitions.

In the same way families vary their gene pool with Violet people looking to marry into a better family tree with compatible Violet talents, if this is highly competitive such as wanting to have children to beat another family rather than merge with them then this is Indigo Violet. An aristocracy or meritocracy can form and grow this way, the people in it becoming more different from other branches and colors in a form of evolution. Success in winning competitions such as exams, competing for jobs, improving a resume, winning a bride or spouse, competing to get into a prestigious school or university, excelling in sports, winning a scholarship or grant, winning a promotion in business, winning tenure as a lecturer, winning an award in the arts such as acting or singing, winning a medal in such as the Olympics, winning a prize based on excellence such as the Nobel prize, can be indications of Indigo Violet evolution if they are legitimate competitions but if they are a team that takes turns in getting the honors and prizes then it can be Violet. Violet represents a flowering of society or of it bearing fruit like the Violet part of a tree, conferences can lead to cross pollination of ideas from different branches as ideas cooperate and merge with each other to form more complete theories, coordinating prizes and advancement based on Violet talent. Indigo Violet agents act to facilitate this and to a large degree this is the purpose of the Biv economy so this color often gets a special deference and extra resources. Lesser talents then help those superior to do their best work, much as branches of a tree help leaves, flowers and fruits to excel for the benefit usually of the whole Biv plant.

Since many judges, lawyers, politicians, diplomats come from this environment they naturally see this system as superior judicially and philosophically and create laws to favor it. Immigration laws might favor Violet talented people to migrate to a country by headhunting talent, while ignoring Blue workers or Red refugees. Violet businesses in trouble might get bailouts and subsidies not available to the roots of the Biv economy, this was seen in the Great Recession where many companies were bailed out with corporate socialism but unemployed people and those losing their homes in America were helped much less. Monopolies can form based on clubs, where people went to school, who they are related to like an aristocracy, who helped who rather than using an advantage to crush a rival. These monopolies can be encouraged by the Violet courts and police and are unlikely to be investigated or broken up. This can amount to crony capitalism and an aristocracy keeping too much of the wealth and influence of the Biv economy. International laws can be dominated by the same monopolies in diplomacy where diplomats know each other and cooperate to their own benefit, relations common to royal families and aristocracies across countries, treaties, schools cross pollinating with each other in conferences and scholarships to each other, favorable tax laws allowing capital transfers around the world and into tax havens and so on.

Much of world history can be analyzed by these kinds of color interactions. For example the blood ties of the aristocrats and royalty across Spain, France, Germany, Italy, England and Russia dominated many of the wars between them, as well as the clashes between their respective Empires. Often wars were resolved as in tribal conflicts, Empires expanding and warring, by the betrothal of an appropriate member of royalty to another country. A victorious Empire might take an area from another, and relocate Violet artists, artisans, philosophers, scientists, priests, hostages from the aristocracy, spouses and slaves for the victorious elite, and this became a cross pollination of ideas from one Empire to another. This cooperation would affect their religious beliefs such as the philosophies of Aristotle and Plato, creating marriage bonds between the elites of Empires would also spread genes more widely and make Violet rulers think more like each other. Similarities in architecture and art such as textiles and pottery would occur as influences from many countries were mixed into a new synthesis. Religion could also bring cooperation, for example Christianity converted new nations in the Roman Empire such as the Lombards, Russians, and Franks.

After the French revolution most of the Violet aristocracy were deposed or killed, and France became isolated against a network of countries with intermarried Violet royal families trying to reinstate a monarchy in France for one of their relatives. The First World War started because a member of the Violet German aristocracy was assassinated by Red Orange extremists in Serbia. Countries took sides in the upcoming war along family Violet lines to some degree, also fighting their own royal relatives such as England and Russia versus Germany. Usually these connections are more stable and designed to handle random political problems between nations but sometimes they also compete against each other as Indigo Violet which can be chaotic and lead to a collapse.

While there is a kindred feeling between Violet teams of different countries there is also competition as in school for Indigo Violet talent to excel. Hence wars throughout history between Indigo Violet happened as they competed with each other to expand their Empires or Biv forests often with trickery such as Julius Caesar’s conquest of Alexandria569F[[566]](#endnote-566). Violet wars between Empires are similar to struggles between Blue Indigo Empires and unions, they form separate species but can ally with each other to have greater power, for example the French and British fought each other for centuries but after Napoleon mainly cooperated with each other. Unions also have border skirmishes or demarcation disputes where two unions might claim jurisdiction of the same job description, but generally ally themselves against Violet management. Indigo Violet tends to develop different species since branching promotes dissimilar groups which then compete. Smaller areas such as suburbs, towns, states, etc can show a Violet unity with treaties between nations but Indigo Violet rivalry persists between their agents.

Indigo Violet conflicts in world history extend from the laws, courts and police of Indigo Violet to the military. Rather than dominated by Violet loyalty or talent they are run by the Eminence Grise or bureaucracy who act as agents for the throne, elite, etc. This can happen when Violet is incompetent, disinterested, too young like a child king, or a figurehead and the real power, shown in the show Yes Minister is in the civil service. Diplomats in this bureaucracy can compete with each other internationally but bureaucracies can also be Violet and form international committees and treaties, junkets for each other, and make work for each other by growing this Violet or Blue Indigo bureaucracy. Interconnected Violet businesses around the world and in separate Empires supported by the Violet aristocracy can dominate the world, as long as Violet gets its lion’s share it might leave the running of things to its Indigo Violet agents to compete with each other for the scraps. There can also be a secretive network of Indigo Violet around the world which can appear to be like a secret society or Illuminati as they work by being secretive and deceptive.

Indigo Violet is like Orange Yellow and can be like the fox or jackal, looking to expand the Biv Empire by sharp and borderline deceptive tactics as well as intrigue in the courts and political arena. Because of this Indigo Violet can sometimes start wars, both economic and military, but usually a cold war based on intelligence agencies. A hot war is usually between Yellow versus Red Orange, or economically between Violet and Blue Indigo. Companies can also find their operation run domestically and internationally by their agents and salesmen, committing them to business deals and sometimes provoking trade wars and discounting, dumping, and adverting competition to gain market share, the equivalent of expanding an Empire. If the companies are well connected to the government and bureaucracy then this can drag countries into war, invading countries to protect their business interests, more likely using surely to monitor debase on depose unfriendly governments and so on.

American policy in South America often went this way where Indigo Violet agents such as the CIA assassinated leaders, wiretapped conversations there, used stooges and money to aid opposition parties, tried to invade Cuba by going over the head of President Kennedy, and so on. This can also lead to corruption on a wide scale and rule by Indigo Violet lobbyists. Agents can act like Orange Yellow and like the fox in the henhouse try to get the Indigo Violet bureaucracy to change laws to loosen Blue Indigo protections. The recent great recession partially happened in this way with lobbyists of financial businesses removing laws such as Glass Steagall to expand trade and break up the Violet teams of safe banking. This happened all over the world and Violet heads of state, business leaders, even economic professors had little idea of what damage these agents were causing. Many times in Wall Street recent history technically brilliant agents created exotic financial instruments that were at first wildly profitable and resulted in large growth and collapse because of their deceptive nature, for example Black and Scholes in the creation of derivatives570F[[567]](#endnote-567).

These were like Orange Yellow jackals having sudden success against Red prey, however decimating Red prey can lead to less food and chaos later. In the same way Indigo Violet agents of financial companies brought a windfall of merits and Violet leadership didn’t understand how it worked, a sign of its deceptive nature because the Blue victims didn’t understand these exotic financial instruments either. Also arguably even the Indigo Violet agents didn’t understand them, they assumed if they watched each other and successfully beat their rivals that they would not reach a tipping point and chaotic collapse. Eventually this Indigo Violet versus Blue workers imbalance became dangerous because Blue pension funds and savings were eaten up by these deceptive financial dealings, and then suddenly people realized much of the assets of the world economy were an Indigo Violet house of cards, this reached tipping points and collapsed in the great recession.

The rise of the Indigo Violet financial salesman coincided in the United States with the decline of many other Biv industries, but instead of being a growth industry for the Biv economy it was secretly cannibalizing it to with deceptive growth statistics in the gross domestic product. This became an international phenomena and caused trade wars and competition, races between Indigo Violet agents to urge along their Violet business leadership to get more of this business while it lasted, as well as lobbyists urging their governments as center right Indigo Violet to repeal more business monopolies, to deregulate all industries, and the actions of the Orange Yellow foxes in the henhouses came to be seen as an economic boom.

The international nature of Indigo Violet agents created a boom in free trade with Violet and Blue Indigo inspired tariffs, anti-dumping laws, protectionism, subsidies, etc being deregulated. Much of the increase in economic productivity however has been by keeping the most efficient Blue workers and removing the Blue Indigo protections of others who became chronically unemployed or sometimes retrained to be more efficient Blue workers. This can be good for the economy because sometimes Blue Indigo unionism can be inefficient and create random stagnation rather than chaotic growth; after all it is designed to protect Blue Indigo people from competition. However if Indigo Violet is too successful this strategy eventually eliminates the inefficient workers and people start to see the signs of economic collapse becoming public as the opportunities for growth are used up and the cost of excessive leverage reach a tipping point.

This can also lead to corruption between countries where the Indigo Violet agents of banks, power companies, defense contractors, water companies bribe government bureaucrats with money, jobs in the private sector in exchange for business contracts, deregulating Biv industry, reducing the power of the unions by bribing their leaders, privatizing water and power and selling it through these agents, and so on. Protecting these ill-gotten gains can lead to military incursions later. Indigo Violet can also be political and military agents, such as mercenaries dragging Violet into a war, the surveillance bureaucracy such as the CIA starting a war with their spying, a fake national incident starts a proxy war for Violet such as Vietnam with the Bay of Tonkin, military patrols from lower levels of the military causing an international incident, a diplomatic blunder by an Ambassador causing a war as was alleged to have happened with Iraq invading Kuwait, trying to recruit spies in a country and causing retaliation when discovered, and so on.

Sometimes Violet has talent different from that of Indigo Violet, an agent might have talent for organizations and accounting and might manage artists, politicians, singers, authors, etc when they are too friendly and cooperative for the cut throat side of the business. Politicians might be elected for their empathy with a demographic group, their religious faith, their steadfast ability to not dither, their appearance as an icon, their gravitas, their smile, their acting ability, their charm, their qualifications as a military leader, their ability to connect with the common man, their skill in debates and so on. Often then these talents are not the same as of running a nation, and so Indigo-Violet agents might really run things behind the scenes.

Indigo represents the neutral market, and just as this can run much of an economy it can also have repercussions internationally. As a combination of Indigo Violet agents and Blue Indigo collective action they can be impartial or swing to either side. If a country tends to be Indigo Violet as a bureaucracy then Indigo might balance this and act Blue Indigo, so this can represent alternating from a center left to center right philosophy according to circumstances. This can occur when a country is evenly split on issues and elects either a centrist government or one where roughly equal numbers of left and right wing politicians can vote against their party to find a middle ground and compromise as in a market.

In a marginal society some areas are one color code other areas will have different color codes, but in a democracy all might need to be represented. Internationally however a Biv democracy interacts with Roy countries and an Indigo approach might work well with Orange nations but fail to understand extremist ones such as Red or Yellow and why they cannot negotiate a peace and become Biv.

Dealmaker Indigo politicians often don’t do well in international affairs and can make things worse. If issues are intractable then Indigo compromise may never work and Orange perpetual war, security and truces may be necessary, just as Roy crime in an area cannot be eliminated by negotiation but only controlled by policing. Indigo coordination can remove Orange police according to its belief in the free market and then create a war where the Orange restraints were needed. For example before world war two Britain and the United States tried to compromise with and appease Germany for too long and nearly lost the war as a result, what Germany wanted was not negotiable because with scarce resources they could only get more land and oil by force. Trying to negotiate between North and South Vietnam was also fruitless, national unification and expelling of foreign troops was not negotiable because they had a history of repelling invaders and considered America and before them France as invading Yellow imperialists.

Indigo negotiation between Israel and Arab nations has been nearly fruitless as well and only Orange policing has stopped full scale war, this is because land is scarce rather than abundant and it is more efficient for both sides to fight for it in Roy. United Nations peacekeepers sometimes act as Orange but Indigo negotiations such as in the breakup of Yugoslavia were ineffective because the territorial boundaries were not consistent with the patchwork concentrations of Croats, Serbs and Bosnians in each other’s countries, no middle ground between the sides was easy to find. The Orange influence of the strong man Tito was lost when he died and led to Yellow areas such as Serbia fighting Red Orange ones such as Bosnia and Croatia. The cold war could not be resolved by Indigo negotiation because Red Communists saw the world as Roy and Biv Capitalism fading away, Marx believed that Capitalism would only give workers a fair share under duress. He also believed they would compete with each other to sell the communists the rope they would use to hang them with, this is an Indigo Violet tactic where agents compete with each other oblivious to the potential dangers involved. While Indigo seems ideal for resolving market problems every color has a part to play in maintaining a balance and using Roy strategies in Biv situations or vice versa will lead to problems.

Blue Indigo foreign policy as discussed earlier has a particular worldview with police and the courts, collective action is preferred and the protection of the weak. Authorities usually have strong unions and some suspicion of Violet business. They might make international agreements with other nations on health care, wages, protection of unions, and so on. Many European nations are like this and sacrifice some Violet and Indigo Violet innovation for the security of this system. Their antipathy for deceptive competition of Indigo Violet sets up tough business battles such as antitrust actions against Microsoft over internet explorer in the European market. Consumer safety is more important, imports are scrutinized to be Greener, more recyclable, etc. Violet and Indigo Violet nations feel threatened by this and try to keep out Blue Indigo influences such as international treaties on the rights of workers. The United Nations is often center left and has many Blue Indigo treaties and ideas that Indigo Violet nations such as the United States see as bad for their interests. The world court is also seen as threatening to the United States because it might have jurisdiction over actions of Yellow and Orange Yellow dictators and militaries, and also of Violet and Indigo Violet market tactics. Countries such as Venezuela have a Blue Indigo view on right wing capitalism, wealth is shared with the poor, business nationalized to some degree and Indigo Violet agents of the US are seen as dangerous and possibly having been behind a coup attempt. This has resulted in many tense confrontations, and threats to cut off the oil sales completely.

Other Middle Eastern countries have a similar view with religious solidarity, the distribution of oil revenues and a distrust of Violet business. Iran sees the former Shah as a Yellow dictator, and so there is a highly unstable aspect of world trade sometimes erupting into harsh words and sabre rattling with the Biv west trying to subvert many of these governments with espionage agencies such as the CIA. The oil embargo of the 1970’s was an example of this team action against the Yellow Violet west and the cartel of OPEC today continues this team action for higher prices.

Like unions Blue Indigo nations tend to form alliances such as NATO, and are dangerous because of this collective power. The attempts by Indigo Violet agents of corrupt corporations can cause great anger and retaliation, Violet authoritarianism is seen as an enemy. Infrastructure can be poorly maintained since Violet talent has been suppressed or chased away so economic aspects can be antiquated and inefficient. They try and make alliances with nearby nations and if rebuffed they can see these as traitorous to the common enemy, such as the Violet United States against the Arab nation, desiring to restore a Caliphate in defense against the West. The former Soviet Union has many Blue Indigo countries with a Red Communist tradition of worker’s rights, and some still bond with each other like unions.

Blue nations are vulnerable to Indigo Violet agent nations and often end up exploited. Their crops such as coffee and minerals sell for low prices as they find it hard to stand together like a union. Agents can play one district off against another for the lowest prices, and wages and conditions are usually poor. Such a country may have found Red communion tempting, usually there was a Communist insurgency. Indigo Violet agents might use Yellow mercenaries, security guards peacekeeping forces such as the UN, or military from their own nation to intimidate and divide the population. Bases are usually possible to arrange because there is little Blue Indigo union in people’s attitudes and little Red Orange terrorism or protests so each area will compete for the advantages of a base even though the country as a whole might suffer for it. Bribing of officials or playing them off against each other can often find some politicians willing to sell out their part of the country for personal gain. If some farms or mines try to improve their working conditions or wages then they can be boycotted and other farms and mines used until they give up and lower their prices.

Communist infiltration usually works poorly in Red countries because the people cannot easily unite as Red Orange sometimes because of too diverse an ethnic mix, which leads to infighting rather than standing together as Blue Indigo workers demanding better prices for their commodities and labor. Such nations can cause instability because they present a tempting and relatively defenseless target, such in world war two where Poland, many of the Eastern European nations and even France, Belgium and Norway were like this to a large degree, with low levels of resistance when forced to produce goods for the Nazis in world war two. Some of these nations were Red communist and were attacked by the Yellow Nazis, others such as Norway and Holland became partners to Indigo Violet and Violet German business, usually under harsh conditions since there was little Blue Indigo unionism and Red Orange resistance. As the Nazis ran into difficulties the conquered peoples developed Blue Indigo and Red Orange resistance, just as Red animals develop Red Orange strength when attacked over time by weak enough Orange Yellow and Yellow predators. This can be through natural selection as weaker and younger Red animals are killed and stronger Red Orange ones survive, also because the Red strategy of hiding and running away is seen as futile.

Fragmented tribes in the past might have been Red nomads with livestock or Blue farmers separated from each other rather than clustered around a town. When in the United States settlers came the nations had no Red Orange cooperation between the tribes to keep them out and the Indigo Violet agents tricked the Red natives into selling their lands for some glass beads and blankets, assuming there would be somewhere else to move to. When Blue Indigo and Red Orange resistance developed the Yellow Violet military held them to the original bad deals, often with military force. The Congo was another example of this under Leopold of Belgium, people worked mines and crops like Red slaves with high mortality and most of the resources went overseas to the Indigo Violet agents and the lion’s share to the Violet aristocracy of Leopold. India was a similar case, offering little Blue Indigo resistance to the British occupiers until Ghandi united people with team like nonviolent resistance.

Japan tried to create a co-prosperity sphere in Asia after its successes in Manchuria; Blue workers were enslaved in China and the Philippines with little Blue Indigo resistance. Red Communists before Mao were suppressed by the Yellow Japanese as well as Yellow Chiang Kai Shek, also Indigo Violet agents saw a way to impose a poor deal on workers there, who often saw it as just a new master taking their produce not much different from the old. Eventually as they have done though history the Chinese developed a Red Orange resistance, instead of just absorbing the invaders as they had done many times. Mao developed this resistance to help remove the Japanese and eventually the Violet and Yellow Nationalists escaped to Taiwan, allowing the Communists to form a Red Orange nation.

Vietnam was seen as a Blue country by the French with little resistance, this occupation eventually developed a Red Orange component in the north under Ho Chi Min which spread to the south. As the Indigo Violet French tried to maintain their colony it developed Blue Indigo resistance and national identity, along with a Red Orange communist insurgency which succeeded in removing the occupiers. This also led to the Blue nation of Cambodia becoming Red and having most of their Violet and Indigo Violet people in their Biv economy killed or reeducated. They developed along with the Vietnamese a Blue Indigo resistance to perceived economic exploitation, seeing their own intelligentsia, teachers and businesspeople as Indigo Violet cheating agents and then as Yellow and Orange Yellow predators.

A Red country can be where people are nomadic or where much of the property is held communally, most nations are however marginal societies and so contain some Roy and some Biv aspects. Red is analogous to grazing animals surviving by stealth and speed in escaping. The best known Red nations were those that became Communist and where previously Biv private property was rare or non-existent, Russian for example had many small villages where private property was not well defined and people were used to cooperating with each other to bring in a harvest. The Khmer Rouge were perhaps the most extreme, people were reduced to Red subsistence and cities often emptied. Red nations have been seen as a threat to Biv economies; they see the system as subversive to their way of life and often try to starve it into change with trade embargoes such as against Cuba and the former Soviet Union. Red economies believe Violet talent should be subservient and Violet people controlled with talented people encouraged to develop skills, which is why there are so many people with higher education in Russia. However they were lowly paid, and the motto was from their Violet ability to supply Red needs. Technology from Biv nations was stolen or purchased if possible, because Biv was seen by Red as plants destined to be tamed and to support them.

Like Blue, Red societies are seen as a target to acquire their Green resources and for Indigo Violet agents to make money if they can convert them to a Blue economy, so there can be covert business going on to get around an embargo as for example with Cuba. As in nature Yellow and Orange Yellow fascist nations see Red nations as an enemy since Red’s leaders are similar to people creating Communist insurgencies in Yellow nations. Yellow people fear a Red insurrection as almost happened in Germany in the 1930’s in Munich, much of it from infiltration by Red Russia and so Russia became a natural target to remove this Red threat permanently. Red nations were seen as a threat from the time of Karl Marx and back to the French Red Revolution because the rule of the Yellow aristocracy was challenged by this and they feared a domino principle like collapse of other monarchies if one Red state was allowed to survive. So to stop these ideas from spreading to other colored nations since the French Revolution war has been used to contain and control the Red contagion.

The French model of liberty, equality and fraternity was Red Orange in its philosophy as Red grazing animals desire to be free of Yellow predators, to be equal or normalized so each is similar to the others and to bond like a herd or flock to move as one team. Red agents from France trying to spread the revolution were searched out and stopped, much as Red Communists were in countries through the Yellow Empires of Britain, France, etc after the Red Russian revolution such as in India where Lenin targeted operatives to cause dissension. The rise of Communism in Russia was similar to the French revolution where the Czar was perceived as Yellow, draining the resources of the country for the Great War, like the king of France draining the blood and treasure his country for wars against the British Empire in America. Red nations have been a primary cause of war in the twentieth century, including Korea, Vietnam, El Salvador, and many other proxy wars between Roy and Biv. Even Serbia had a Red element that secretly and deceptively plotted to assassinate the Duke Ferdinand, hoping to prevent the Yellow invasion of their country. The Red influence of the French revolution was admired by Marx and it has caused most of the wars ever since.

Red Orange countries are like Red but more aggressive in their defenses against Yellow. The French started out as Red in the revolution and toughened to Red Orange in the attacks from the Yellow aristocracy such as in Austria and Germany. Russia was Red and became Red Orange to beat off the attacks from the Yellow Nazis, earlier it became Red when it made a separate peace with the Central Powers in the Great War, escaping from the war was better than Red Orange fighting. Generally a Red Communist insurgency can be Red Orange when attacked by Yellow military and stay Red when attacked by Orange Yellow special forces, the CIA and other intelligence agencies, just as Red Orange buffalo can sometimes run and scatter as Red instead of staying together as a team. The left and right can try and infiltrate each other with spies and double agents with a war of deception between Red and Orange Yellow, for example with Kim Philby and Guy Burgess. In the Cold War between Yellow western countries and Red Orange communist countries the Yellow military continued to escalate571F[[568]](#endnote-568) in strength and this made Red Orange stronger, like Yellow antibiotics building resistance in Red germs to make them Red Orange. When antibiotics are discontinued the Red Orange evolutionary pressure is removed and the germs lose their resistance over time, when the arms race ceased China and Russia became more peaceful again. Other wars have similar effects; a Yellow drug war builds Red Orange resistance around Red addicts and their Red Orange gangs and suppliers. Attacks on guerrillas can often make them stronger, as found in Afghanistan by the Russians and the United States. In the past Afghanistan became Red Blue and more peaceful again when the Soviet attacks ceased. Attacking North Vietnam made them Red Orange and stronger, when the war ended they became mainly Red and peaceful again.

The Red Orange defensive military build-up of the Soviet Union in world war two mainly dissipated at the war’s end, if a Yellow country or Empire had had these weapons they would have taken all of Europe. Normally then Red Orange is a defensive color that evolves from Red being attacked while Yellow is an offensive color that evolves from the level of resistance to its predatory tactics. Terrorism in recent years has increased as Red nations such as Islamic Saudi Arabia, Yemen, Pakistan, Syria, and Iran become Red Orange in response to perceived Yellow and Orange Yellow threats such as American bases too close to holy sites and the western sponsorship of Yellow dictators. Iran develops Red Orange terrorism from sympathy with Red Palestinians and their being threatened by the Yellow right wing politics of the United States. Pakistan is being made more Red Orange by the attacks by Yellow American forces in Red Taliban areas inside Pakistan, also by the US maintaining a Yellow Afghanistan government in alliance with the minority Northern warlords builds Red Orange resistance.

Orange societies are rarer; usually they have either a Red Orange or Orange Yellow bias, Orange is unstable and needs to mix both colors together to be completely neutral. Often this society might have some Red groups and some Yellow ones and Orange police and courts try to have a balanced view of them. When one color code has a disproportionate amount of power in a society then by voting or force of numbers they can sway the color ratios in their favor, while sometimes persecuting the minority. Sometimes one color has a smaller population but is more intelligent, brutal, fanatical, or business minded and wields a disproportionately stronger influence. For example in Fiji572F[[569]](#endnote-569) the original natives became a minority compared to Indians and maintain a dictatorship though democratic elections gave more power to the Indians who had migrated there over time. Afghanistan has a proportionately small Yellow government with Karzai against the Red Orange Taliban. Sunni and Shiite proportions in Iraq combined with populations of both of these over the border in Iran and Saudi Arabia make a balance difficult in elections; the population of Kashmir has a mix of Pakistani and Indian making it also hard to find a balanced government.

The Basque people maintain a Red separate identity, small but strident and sometimes erupting into Red Orange violence making a democratic balance hard to find. Even in America the black population votes Blue as Democrat so consistently that whites tend to be pushed to the right to balance this, and Hispanics also have a destabilizing influence. Orange police then try to be even handed but usually support the white majority more as they pay the most in taxes. Argentina and other South American countries have a smaller white population with a disproportionately high amount of wealth and influence, and the majority of nonwhites are often manipulated away from full democracy because they would always outvote the whites. South Africa tried to balance a white minority against a black majority in apartheid and now with black control a balance that pleases both sides is still hard to find.

Muslims in Europe have a higher birth-rate but a Red philosophy, sometimes with Red Orange terrorism. Finding the Orange balance there is hampered by Islamic customs such as wearing the veil, treating women according to the Koran, trying to follow Sharia Law instead of European, and not insulting their religion versus free speech. Turkey has problems with a Kurdish minority, particularly with Kurdistan now more independent in adjacent Iraq and sometimes supporting Red Orange terrorism, so the Orange police find it hard to protect both races equally. Germany has problems with neo Nazis against black immigration, as does England. Lingering desires for independence in Scotland and Ireland from Britain can lead to tensions and terrorism not well suited to police control. The asymmetry of voter numbers as well as the large numbers of English that settled in Ireland also complicates voting for independence. The separatists in Chechnya made an Orange balance hard as Russia refused to allow them to secede and Russians could outvote Chechnyans in a referendum on this.

Orange policing is unstable and positive Red versus negative Yellow tend to split apart and fight, so politics can become highly polarized with “free radicals”573F[[570]](#endnote-570) politically hard to re-join into neutral policing as Orange again, unless the neutral police and the courts are rebuilt it can split a nation into warring parties on various issues. The momentum of a Biv society is pulled in two directions, Blue roots toward the Green Blue resources of the Earth and Violet reaching upwards in tree branches, coordinating these two influences is represented by the Indigo market.

Periodically then war, riots, arguments between Red and Yellow may be inevitable as is the failure of the Indigo market sometimes to make a deal between Violet and Blue. Like with atoms and molecules the most stable situation is probably with many Orange and Indigo entities in a society so that where some are disintegrating as Orange and losing coordinative as Indigo others are improving and re-joining the polar opposites. Society as Roy can be represented like molecules with Red areas the protons, negative areas like electrons and Orange neutron like entities such as police, armies, peacekeeping forces and neutral nations holding them together and trying to stop them attacking end other. Blue and Violet can represent atoms in motion, Violet as acceleration and Blue as gravity So color codes can represent not only interactions between all living things but also between any inanimate objects. The mathematical principles of Aperiomics can be joined to physical laws to model these forces in society; because physical equations are relatively simple they can be adapted to represent these interactions. This doesn’t mean that precise equations can be used to predict these forces in society, only that these forces work approximately in this way.

Examples of Orange in society can be a consensus and compromise over Roy issues that forms and then flares up into conflicts with issues such as abortion, prison terms, minimum drinking ages, decriminalizing some drugs, noise laws after hours, drink driving limits, swearing in public, prostitution, freedom of religion, freedom of speech and most other laws where infringement is a criminal Roy or civil Biv matter. The left and right oppose each other in these issues and at times accept an Orange judge or political decision, otherwise the parties war between each other as Yellow versus Red Orange, or Orange Yellow versus Red. Sometimes the line moves from an Orange balance to Orange Yellow or Red Orange supremacy, and there is a cold or hot war in society over it.

Neutral nations then are usually Orange and often Indigo as well, acting to coordinate the market between rival nations. Sweden and Switzerland were Orange neutral in world war two and also had some commercial ties to all sides. The United States in both world wars tried to stay Orange neutral or isolationist and trade as Indigo to both sides, for example supplying Japan with oil but both times became Red Orange to counterbalance the Yellow predatory tactics of the Germans. Sometimes Arab nations and Israel trade and try and reduce tensions through a neutral country such as Egypt, other times this Indigo trade and Orange peace deal or truce falls apart and needs to be worked at to avoid open warfare. The United Nations often succeeds in being neutral in a conflict though votes in the General Assembly and Security Council can be non-centrist and veto Orange positions. Sometimes during the cold war a neutral state helped with unofficial back channels to resolve conflicts, for example North Vietnam held peace talks in neutral Orange Paris574F[[571]](#endnote-571) during the war, Switzerland allowed contacts between Himmler and leading Jews towards the end of the second world war. Tax havens can also be Orange and Indigo such as Luxembourg, Lichtenstein, the Caymans in that they are not aligned militarily with anyone but also act to some degree as financial police and expose account holders who have money from a crime or in some cases tax evasion.

Orange Yellow countries like jackals tend to be aggressive against Red nations, such as Syria dominating Lebanon. Kurds are Red people persecuted by Orange Yellow police and the military in Turkey as well as previously by Yellow Saddam Hussein in Iraq. Italy was more Orange Yellow than Yellow in World War Two; they did much less fighting than Yellow Germany, invading Ethiopia and parts of Croatia. When the war turned against them they surrendered much earlier than Germany. Vichy France was also Center right and its members had some sympathy with Fascist ideas before the German invasion as did many French citizens, and used Germany’s Yellow strength to back its government. Croatia’s Ustase575F[[572]](#endnote-572) was Orange Yellow and was appointed by Hitler; they used the Nazi’s backing to attack Red Jews and Communists but were unable to continue without them.

Hungary and Romania as Orange Yellow also attacked their Red Jewish populations but did not have the violent Yellow strength to stand against the Red Orange soviet army. The Vikings were an example of Orange Yellow, attacking with the element of surprise the weaker areas of England such as Red monasteries, and avoiding heavy battles. Saladin576F[[573]](#endnote-573) acted as Orange Yellow in recapturing Jerusalem, searching for weak points and outmaneuvering the Red Orange defenders to vanquish the Red cities such as Acre and Jerusalem. In those days Islam was Yellow and wrested an Empire in Persia and Egypt from the Roman Empire and their warships acted as Orange Yellow pirates. Tripoli577F[[574]](#endnote-574) was the center of Orange Yellow slave traders and pirates who ravaged the coasts of Italy and France, forcing people to move inland, selling white slaves to the Turks. These attacks on American ships led to action by the United States Navy, recorded in the Marine’s anthem while other slave traders acted as Orange Yellow capturing blacks and selling them as slaves to the Americans and Spanish in the Americans. Around 1600 Elizabeth the First led an Orange Yellow navy robbing the Spanish Navy and their shipments of gold from their colonies in the New World. The Spanish Empire was Yellow under Philip the First, Elizabeth politically acted secretively and deceptively to take a share of the plunder flow south America and also was deceptive by holding out the hope of marriage and joining the two Empires for forestall an invasion of England.

The Huns were historically Orange Yellow attacking Red China when the rainfall drastically lessened in their homeland during the Great Warming of 900-1200AD578F[[575]](#endnote-575), usually attacking by surprise rather than slow and easily tracked violent armies. Julius Caesar was arguably Orange Yellow, using deception and maneuverability to outflank the enemy such as in Alexandria and Gaul. Surprise attacks with fewer troops deceptively looking for Red weak points are the characteristics of Orange Yellow, like foxes trying to break into henhouses.

Yellow nations are the most dangerous and aggressive like lions, and are the main motivating force of Empire building such as the Roman, British, American, German, Belgium, Dutch, Spanish with Philip the First, Islam, of Tamerlane, of Hitler and the Nazis, of the Kaizer with Germany in world war one, the Russian Empire before communism, the Japanese occupation of Manchuria and China and its co-prosperity sphere, the Persians when they attacked Greece, Charlemagne, the Zulu nation in the Boer War, Alexander the Great, Greece in the time of the Peloponnesian wars, the Hordes579F[[576]](#endnote-576) left by Genghis Khan to his children, the Aztecs before Cortez, Egypt in the time of the Pharaohs, Byzantium, the Franks, the Merovingian, the Ottoman Empire, Nebuchadnezzar, and so on. Empires typically expand through violence and have Red Orange resistance to check them. Often they receive regular tribute from the conquered nations which is like Yellow predators feeding on Red animals, and commit violent reprisals when challenged like lions becoming angry. Plunder enriches the Empire center which also acquires Violet artists to build it, often by kidnapping them from conquered cities to work for the dictators much like artists and musicians worked for the Yellow aristocracy in Europe since the Middle Ages.

The leader usually has a cruel streak which other nations do not match at first though they evolve over time equal cruelty in Red Orange, as was seen as Yellow Hitler caused Red Orange Russia to become as ruthless. Often survival of the fittest ideas guide Empires and they are eventually destroyed by another rising Yellow Empire like warring packs of Yellow predators fighting over territory, such as the Byzantium Empire destroyed by Islam or how the British and French Empires destroyed the Austrian Empire in world war one. They can be highly organized in their territories, often with low amounts of petty crime like a mafia family ruling a neighborhood because they dominate and control Orange Yellow, also needing to connect and manage all their territory by periodic visits such as the Roman armies quelling rebellions around the Empire as well as communications between different parts of the Empire such as horses and couriers. This is also like Yellow predators such as lions needing to patrol their territories.

Reprisals attempt to deter the development of Red Orange, often this resistance builds when the Empire loses its Yellow ruthlessness and becomes more Orange Yellow in ruling by divide and conquer strategies as well as bluff. It can also maintain itself with soldiers from defeated nations, the Roman Empire would get soldiers from nations it defeated to increase its troop numbers, for example the Goths in the Roman Empire. Yellow can move like nomadic predators subjugating an area leaving the equivalent of offspring with officials to repress the new territory, collect taxes and tribute, then the army moves on. They spread then like a new Yellow predator with advantages over others, killing or cowing rival predators and taking over their territories. Eventually other Yellow predators may evolve better strength, end their complacency, Red Orange may evolve a defense to the new Yellow predator, the Empire’s leaders may fight amongst themselves, or grow too large so a sudden shortage of Red prey such as a drought or a defeat in a military campaigning sure as Mark Antony against Parthia580F[[577]](#endnote-577) leads to a lack of money or a weakened army.

Much of their Yellow success depends on fear with Red people knowing from past experience what happens to those who resist, like Red gazelles knowing that resistance doesn’t work against lions but it may work against wild dogs. Tamerlane581F[[578]](#endnote-578) for example used to ravage a city if it did not surrender immediately, in the Roman Empire the soldiers could not pillage a city if it surrendered, but they could plunder it if the city fell in a siege. If a city rebelled under Tamerlane sometimes, as with Babylon, he would kill everyone, men women and children and destroy the city completely, forbidding it to be rebuilt and planting crops where it had stood. This could cause Red to panic rather than fight if they had heard what happened to those who resisted just as a Yellow charge of lions can cause a Red herd to make mistakes, as it can do in a clash of armies with many Roman battles decided by side or another being routed and losing their Red Orange or Yellow formation. Red Orange parts of a herd can be under siege from lions, a good example is when they attack elephants or buffalo and might win through a long battle of attrition in exhausting them. Like a city under siege the Red herd hides behind its Red Orange members, such as Red young elephants being protected by fully grown ones. Usually these stand their ground like the walls and armies of a sieged city while the Yellow predators try and find a way through the Red Orange defenses. Sometimes the Yellow predators give up and go looking for easier prey and this is like when the siege fails, such as happened several times with Constantinople. Other times the lions might lure off some of the stronger elephants or buffalo trying to chase away the lions and then they double back and attack the Red young, this is what Attila the Hun often did in his military tactics against the Romans.

The battle between Yellow and Red Orange occurs in nature where one color tries to avoid evolving the other stronger by too many attacks like antibiotics can build resistance in germs with overuse. So Yellow has a dilemma where only eating a particular species of Red prey such as lions eating gazelles over time can select the herd’s genes towards Red Orange and a specialize resistance to that predator. So Yellow eventually has to also attack Red Orange itself such as lions attacking buffalo and elephants because these evolved to be stronger against Yellow just as Red gazelles evolved to sometimes run faster, this is how Yellow evolved a frontal attack on strong animals, unlike the fox and jackal which use deception and speed, avoiding Red Orange large animals as harder to beat. A modern conventional army is Yellow and has trouble catching Red terrorists who run and hide from the slow moving forces, this is why Yellow Empire forces are not suited to guerrilla warfare but also as shown in Iraq and Afghanistan Red Orange resistance can adapt and evolve defenses in a long term occupation just as the Yellow Nazis found in World War Two. In Vietnam and Iraq patrols would sweep an area, Red would disperse and hide like gazelles against lions, only to reappear later and take back the territory and use secretive and deceptive tactics such as using snipers or roadside bombs.

Tamerlane might conquer an area, as the Nazis did against the Red Russians, and the Red army could melt away avoiding a fight, then they would reassemble when the Yellow predatory army was gone like a herd of gazelles might run away and reform when lions had moved on. Napoleon experienced the same tactics in invading Red Russia, after a time the French were exhausted by this the Russians harried the retreating armies to near annihilation582F[[579]](#endnote-579). In Afghanistan similar tactics are effective against Yellow forces; Orange Yellow Special Forces are more successful against Red there. The most successful tactics for Yellow is an opposing tactic to Red terrorism, Hitler would engage in mass reprisals against Red terrorists killing many Red people for each Yellow soldier ambushed, because Red tends to run and hide from confrontation a show of force sometimes works, though Red being solitary does not always care of others are hurt. Tamerlane would do the same against cities that rebelled against him calculating that others would learn of this and not rebel. For nations reluctant to engage in reprisals however there are few other options against Red unless they can be lured into a Red Orange versus Yellow conventional battle as the Russians eventually did at Stalingrad and Kursk but this was better for Red Orange. Antony was harried to near defeat by Red hit and run attacks in Armenia, and Rome’s most famous defeat583F[[580]](#endnote-580) was where they were persuaded to break up their fort to be ambushed in a forest by an army using deception. They persuaded the Romans to leave their defensive fortifications and then massacred them in the forest, though eventually these defeats were avenged with Yellow reprisals.

Roman soldiers would usually winter in their barracks in Gaul, the equivalent of modern holidays and short tours of duty though if danger threatened this could be cut short as with modern armies. The border of the Roman Empire were sometimes policed with armies billeted in cities as Yellow, often these Yellow armies in Julius Caesar’s time and Charlemagne roamed around putting down rebellions as well as expanding the Empire, while the Blue peasants acted as Red prey to some degree as they had to provide food and lodging. This strategy failed for the Romans when Attila the Hun caused the Goths to flee across the Danube into Roman territory as Red refugees, then they became Red Orange by attacking Yellow fortified cities. Eventually they were drafted as Yellow soldiers but because there were so many they took over the Empire bringing it to an end in the West, it survived for longer in Byzantium.

Social interactions in society can also be broken down into color codes. Astrology also breaks people into twelve categories and some of the descriptions are similar to those in Aperiomics such as Aries, Taurus, Gemini, and Leo, though Aperiomics has nothing to do with when people are born. For example Red is similar to Aries in that both refer to grazing animals, and Taurus is similar to Red Orange in that it is a larger and stronger grazing animal. Gemini is like Orange in that it has a dual nature. Cancer has a slight relationship to Orange Yellow in that crabs can be scavengers and then Leo is like Yellow predators. It may be people over time saw these first six colors as concepts they recognized in people and these evolved into changing definitions of the various signs. It is also interesting because I had not noticed this similarity to the zodiac until many years after I developed this theory. Astrology may still survive because some people see their star sign as like an aspect that society gives them, for example Leo Yellow people may be aggressive in society because being that sign encourages them to act more aggressively. Others with star signs that don’t match their personalities may either ignore this or just give up astrology, so about eight percent of the population may find they are reasonably well described by their star signs, others may occasionally see someone else like their star sign and ignore or not enquire about people who aren’t a match.

Superstition can persist in a society even if absurd. Red Orange, Yellow, Blue Indigo, and Violet tend to organize their team nature based on pi and probability, so the addiction to games of chance such as house racing, casinos, lotto, poker machines, tickets in houses and cars, etc can arise from these people using probability in their lives, seeking to be normal. Red, Orange Yellow, Blue, and Indigo Violet use chaos and determinism to survive and may believe there is a pattern in games of chance where none exists. So Roy and Biv societies develop strategies for survival and evolution either based on probability or working against it so it is not surprising many people are hooked on trying to find resources in random events such as horse racing and poker machines. Astrology makes predictions for people in most daily newspapers and these are in effect saying that the future is not random but deterministic as Newton believed, with secret methods Red, Orange Yellow, Blue, and Indigo Violet people often believe they can succeed in overcoming the randomness of games of chance like roulette and poker machines.

Other superstitions such as not walking on a crack, not breaking a mirror, having a lucky piece of clothing, touching wood, and so on can evolve from people seeing that sometimes unlucky events follow certain actions and believe the world is not random but there is a cause and effect relationship between these actions and what follows. Some religions ideas evolved from this by believing that prayer can beat random chance, such as with people praying to win lotto. At times people also believed that making sacrifices, removing unlucky influences such as heretics and icons of opposing religions, punishing those engaging in abnormal activities such as homosexuality and promiscuous sex would cause the Gods to control apparently random events in their favor, while priests would use secretive and deceptive rituals to convince people of their power, and by pointing to random events as being caused by angry gods. Red and Orange Yellow can then use religion and superstition as a way to beat random chance, but Red Orange and Yellow in religion and superstition can say their team nature will protect people from deterministic dangers. For example people might be part of a congregation or team that helps each other, they donate to charitable projects like a kind of social insurance and the implication is that helping members of your religious team will help you when you die because members of the team will pray for you.

Red Orange, Yellow, Blue Indigo and Violet have a normalizing influence on society because their activities tend to fall on a Gaussian normal curve584F[[581]](#endnote-581), this dominates much of society and causes opinion polls, marketing surveys, estimates of likely traffic flows on roads and into businesses with a Poisson Distribution585F[[582]](#endnote-582), government polls586F[[583]](#endnote-583) on various issues, average sizes of people for making clothes and furniture, working out the food needed in a city on the average in markets shops and restaurants, businesses such as doctors estimating the likely queues of waiting customers , and so on. This desire to conform and be normal can lead to social and psychological problems where people too different in appearance, too fat or thin, too tall or short, too smart or dumb, of a minority race can be ostracized as being on the fringe of Red Orange, Yellow, Blue Indigo and Violet in schools and social gatherings. While the team colors still include them as members there is a tendency to treat them like a deterministic color code and expel them from the team or discriminate against them. One religion may dominate an area then other religions might be seen as suspect or deviates to the normal. Like speciation in animals religions have tended to split into varying interpretations and to support their own as normal and others as being in error like the edges of the error, also called the normal curve. These religions if in Red Orange and Blue Indigo team colors might welcome others like trade unions and protesting organizations cooperate with each other. The tend to have an uneasy relationship with the right wing team colors of Yellow and Violet who may have their own version of religion rationalizing predatory behavior. With the deterministic colors of Red, Orange Yellow, Blue and Indigo Violet however they may see each other as competitors and use secrecy and deception to lie about and defame each other.

Red, Orange Yellow, Blue and Indigo Violet evolve for others to be like them so religion can become pedantic for devotion to a dogma, like Marxist Leninism became very exact in its doctrine. Those who did not follow this closely enough, even though this dogma is often based on competitive people deceiving each other with false devotion, get pushed out to a team fringe color code. Suburbs in a city with competitive color codes might see other suburbs with less competent people as outsiders they don’t want to support, one state may see others as weaker and some states and suburbs might absorb these deviants with migration where they team together more as Red Orange or Blue Indigo, for example many gays might prefer to move to San Francisco. People can form unusual teams and associations through the Internet, phone, social clubs, sports functions, churches, work friends, fellow truck drivers, commuting friends on such as buses and trains, private clubs such as golf or gaming, and these can become their Red Orange and Blue Indigo teams, seen as normal to them. Competitive color areas might be suspicious of their new neighbors so a small town might not accept a new arrival in their society for years.

This can be exacerbated by the media portraying random events as deterministic, leading to a slippery slope, tipping point, a crime wave, etc. A suspicious fire might make people fear a Yellow arsonist is in their ranks so the media in competitive colors might create a panic in people to hide and scatter to sell more newspapers while a team newspaper will emphasize the police and Red Orange neighborhood watch ways to deal with crime. A pedophile read about somewhere else leads them to fear their neighbors as abnormal perverts, this is a competitive strategy to divide people in the normal curve into the center as conformist and those on the edges as dangerous, secretive, deceptive and competitors. A Blue Indigo neighborhood watch can look for abnormal people on the edges of their normal curve to some degree but they usually try to include them as part of the team and cooperate with them. A minority is by definition abnormal and so is seen as deviant by competitive colors, stories of one bad person of that race makes them all seem suspect and sells newspapers or makes people watch television shows.

Renting apartments and houses may be frowned on as they allow unknown and possibly deceptive people into a society where teams of Blue Indigo home owners can keep an eye on each other. Sporting teams can be a way of joining a competitive Blue or Indigo Violet tribe where supporting the same team can be a way for people to feel part of a team as Blue Indigo and Yellow. Where team colors succeed by banding together and sometimes rejecting those on the edge of the normal curve the fringes survive by banding together to form a new Red Orange or Blue Indigo team or competing in something else they can win at as Blue or Indigo Violet. For example Blue Indigo people who don’t like football might support a baseball team, Blue Indigo workers forced out of a religion might form their own sect.

A Red Orange animal has more danger by being on the edge of the herd because Yellow predators are more likely to kill them there such as a Yellow hawk attacking a school of birds. Sometimes contrarians or those with deviant opinions can succeed because a calamity may affect the average person more. For example in an epidemic a loner might not be affected.

Sometimes a Red Orange army is composed of deviants from the normal such as the unemployed, criminals, homosexuals, juveniles that have to leave home and these can be thrown together by joining the army or a gang.

This is different from the usual ideas of natural selection because in Aperiomics the abnormal are expelled into harm’s way and survive by forming teams but in the usual idea of evolution mutations are either more successful competitors or die out. For example larger animals might be seen as abnormal in a small herd and so Red small animals can move more quickly and the Red Orange ones tend to be left behind and end up on the fringe of the herd. The more the conformist Red move in unison the more any deviants from this will and up on the edge because it is improbable they would by chance move to stay in the Red center. So they are moved into the line of fire and if successful against predators their deviant genes become valuable and being stronger animals they can win battles with other males for females, this spreads their genes through the herd and so the whole herd evolves.

If these Red Orange mutations don’t work well enough then the Red Orange fringe becomes wiped out by predators and the conformist Red continues to rely on flight and vigilance with conformity much as a flock of budgies would move with the same responses to danger, hiding in trees from predator birds with Green camouflage and using many sentries to spot danger. In the same way in an economy Blue Indigo may succeed through forcing Violet management to employ people less fit such as those on the edge of the normal curve by standing together as a team. For example having disabled people in a union led to their recognition as good workers in limited jobs so now we see large organizations employing many disabled workers, African Americans overcame prejudice by joining a union, and so on. A union especially in a tight labor market can add value by making less fit workers more productive with social insurance and better work practices, for example if some workers have health problems and regularly miss work then in Blue they could not compete but in a union with flexible work hours they would be as good as other workers.

The mathematics of Blue can be illustrated by a game of darts. The normal curve is also called the error curve because the errors in doing a task usually fall on a normal curve and the further away from a target the less probable the event is. A fresh dart board where a player always aims at the center will tend to form a pattern of impacts with a density of holes decreasing in a normal curve shape the further away from the center. Since darts is a competition this error curve will roughly determine the winners because those that make more errors tend to lose, so the edges of this error curve are the Blue competitive losers in society. The same curve is also a normal curve where a Blue Indigo darts team might have a range of good and bad players along this normal curve so the total team has an average score. Instead of discarding the outlying losers a Blue Indigo team has more strength, in a contest for best player the team would likely win because more players means even a poor player might fix the defects in his game over time.

In Blue the roots of a plant and of most Biv businesses and social structures form a triangle, with fewer roots at the top or at Blue Indigo, growing to more roots down into Blue. The triangle can represent roots of a tree, it can also represent layers of folders to drill down into with a database, a representation of the ancestors of an animal or person, expanding roots of workers mining like tunnels expanding in number the further you go down into a mine, etc. So instead of these extra roots and variations being just errors if they are not successful they can be viable resources because the average return from all the roots may be profitable.

The various roots of a tree might access and follow a seam of fertile soil and water, other roots further out might get less of this find and more of other unusual or serendipitous finds such as a new seam of water or nutrients elsewhere. So these improbable edges of the root system give the plant a chance to make a lucky find on the path less travelled while the center maximizes the deterministic chaotic idea of following the current seam. Like the Red Orange errors of the dart player surround the bull’s eye the edges of the root system surround the Blue center and give it chances for new resources by serendipity because these deviant roots sometimes find more than the main roots, a player might aim for a bull’s eye and though he misses get another number with a good score. They join with Blue in the higher parts of the roots when it joins the trunk so Blue deterministic strategies and Blue Indigo probabilistic strategies combine to give the most efficient way for tree roots to find nutrients. In a Blue Indigo union of these roots the plant mixes the different nutrients from the Blue competing roots to give a stable mix of the nutrients to send to the Indigo tree trunk, just like produce is sent to the Indigo market. Blue Indigo redistributes resources from once root to another like a worker’s cooperative and act as a kind of insurance so that one unsuccessful root can receive sustenance to keep it growing and looking for food, like welfare helping someone back into the workforce. This is similar to a herd protecting each member by sticking together and helping each other if possible.

The Indigo market and Orange police represent where the randomness of Blue Indigo and Red Orange meet the chaotic Indigo Violet and Orange Yellow. Red Orange tend to move randomly, both to look for food, water and other objects, and also to make themselves unpredictable to Yellow and Orange Yellow because the more predictable prey is, the easier for predators to anticipate their movements. Non-random moving Red and Indigo Violet animals tend to be able to track each other because each forms a plan which could be anticipated by the other, so secrecy and deception are also needed to avoid this drawback.

There is an uncertainty in Orange and Indigo, sometimes randomness is a better strategy and sometimes determinism. This is why Orange and Indigo mediate well in society because mathematically they function as a hybrid of the left and right. Orange police can move randomly and unpredictably to not be anticipated by Orange Yellow criminals, for example walking random beats and driving random patrols can defeat the best laid plans, and looking for patterns in what should be random data will often show Red and Orange Yellow movements in Roy. The Orange Yellow side of Orange police is deterministic and they use this to catch randomly moving criminals such as gangs in small mistakes. For example a gang of Yellow bank robbers takes chances such as there not being police patrols near a bank and that no one they know tips off the police. Indigo Violet police to counter a gang like this would have a fast response set up to silent alarms, use secretive and deceptive informants and offer rewards and reduced sentences for anyone giving information on the gang so their reliance on luck will eventually fail to good planning.

As Red Orange the police concentrate on improbable events and harden their defenses to unlikely attacks, such as bank robberies, sieges in warfare breaking through weak parts of a wall as in the Middle Ages, patrolling areas where violent crimes might occur, and so on. For example a Red Orange wall in a fort under siege might have weak points a Yellow army could find by random chance so Red Orange defenders would minimize the chance of bad luck by fixing these areas. Red Orange police might insist on randomly changed passwords on safes in banks to reduce the odds of a successful robbery.

Yellow represents order or control and Orange Yellow represents chaos. Yellow avoids chaos by its probabilistic nature just as in Biv where Violet uses probability to run its businesses which acts as a counter to Indigo Violet growth and possible collapse. Orange Yellow animals create chaos with their deception and secrecy trying to move chaotically with a plan to overcome Red’s chaotic movement, when there is too much of this in Roy society than chaotic crime is hard to stop because it is secretive and deceptive.

Orange Yellow cannot move randomly because they might never find Red animals this way, they combine a goal with a chaotic pattern hard for Red prey to anticipate because if Red moved randomly then they would often make a wrong move and be killed. Yellow predators such as lions, dictators, organized crime, etc try to maintain order since chaos can threaten their supremacy. They need then to impose order on chaos just as turbulence as chaos and clear air as order are complimentary around the wing of a plane moving through air, around a hurricane, etc. Yellow predators then try to impose order on Roy society which is one of the attractions of a Yellow dictatorship, kings, Empires, the mafia, the Nazis, fascist Mussolini, where the Yellow strong man reduces Orange Yellow chaos in an economy, neighborhood, and even in world politics.

This order finds its enemy in Orange Yellow who needs chaos to succeed whereas Red Orange tries to subvert Yellow’s dominance by improbable ways of acting because they use probability as well to succeed. For example a Yellow dictator might use a conventional army to control a Roy country, in an attack they shoot rifles and lob mortar shells which like throwing darts at a dartboard fall on an error or normal curve and the more ammunition they use the more likely the Red Orange enemy would be beaten. Red Orange fights in a similar way such as the Red Orange Russians defending themselves against the Yellow Nazi attacks in world war two, defensive fire and more troops meant that eventually Yellow was defeated in this statistical war of attrition, also Russia had superior abilities to produce weapons as well as being able to get them from the allies so the odds were in their favor if the war lasted long enough. There was also chaotic war in this conflict; Red attempts to assassinate Yellow Nazi officials could have won the war quickly because the Nazis might have folded like a house of cards if Hitler was killed. The Nazis also used secretive and deceptive Orange Yellow officers who claimed to want to kill Hitler to draw out assassination plans.

Orange Yellow chaos creates instability which can bring down a Yellow dictatorship, sometimes an imperial power like the United States prefers a strong Yellow ally such as Mubarak in Egypt but his rule can be undercut by secretive Red terrorists who would plunge Egypt into chaos if they succeeded in too many terrorist attacks against tourists. Then overseas visitors would begin to see Egypt as full of friendly looking people that are secretive and deceptive, waging a secret war. The Orange Yellow security services play a cat and mouse game of deception against these Red extremists but if this went too far it would be bad for the country so sometimes open shows of force by the Yellow army and police are needed. Orange Yellow informers can also bring down a weakened mafia family that does not discipline them with enough Yellow force in reprisals.

In a Biv economy a sudden increase in Green Blue resources can lead to an Indigo Violet and Blue scramble to make use of them before someone else does, this is why during the Great Recession none of the major banks saw that money would run dry in the economy as they were more intent in beating each other to use up all the available business opportunities or be overshadowed later. This competition is often also conformist just as in horse racing where each jockey uses a similar strategy as the others while waiting for an opportunity to take the lead, following too different a plan runs the risk of being left behind completely. If the resources such as an increase in the money supply, new technology invented in Blue Indigo, new mineral resources found, prices dropping making more resources Green Blue instead of Green, then Blue roots grow and Indigo Violet branches expand. So boom and bust is a natural strategy in competitive use of resources.

Like Orange Yellow chaos to Yellow order, Indigo Violet growth and collapse is contrary to the more planned approach of Violet to flowering and fruiting. Violet has its version of Yellow order, the objective is to consistently create flowers and fruits to procreate and this can mean to resist excessive Indigo Violet branches growing and collapse because growing too fast can cause a plant to collapse before flowering. If resources are unreliable it is sometimes better to grow and collapse quickly hoping there is enough time to flower and fruit, this happens in an economy when Indigo Violet agents bypass Blue Indigo Violet unions and have an unstable relationship with Blue workers to get the news of new resources secretly and quickly.

In the Great Recession the economy grew as Indigo Violet based partly on sudden excesses of Green Blue savings from China and Japan. This led to eventual collapses and Blue unemployment with little Blue Indigo stability because little attention was paid to how long these resources would last and their real effects, bringing down even Violet companies like General Motors and their Blue Indigo unions just as weak branches of a tree can bring down the canopy of leaves. The imposition of order by Yellow over Orange Yellow criminal and predatory chaos is like Violet dominating Indigo Violet booms and busts. Sometimes takeovers are not Violet based, and can be like strong Orange Yellow predators beating Yellow ones such as hyenas attacking lions, Violet businesses might be weakened and bought out, fraud and incompetence in the banking and derivatives department can damage the company, they can be greenmailed, sold short, etc by Indigo Violet agents in the frenzy of growth and this leads to collapses in Violet and more instability in the economy. Takeovers of Indigo Violet business by Violet can maintain order by reducing this excessive growth; the opposite can fuel booms and busts more.

Once there is a collapse in parts of the Indigo Violet economy Blue workers suddenly lose job security, and this persists until there is regrowth of these companies, the old businesses get dismembered into fresh humus and soil for other Biv companies or another wild growth phase starts like with desert plants with more rain. So increases in the money supply and low interest rates can be like rain in the desert, fuelling another cycle of Indigo Violet boom and bust.

Violet avoiding of Indigo Violet tipping points makes for a stable plant and leaves, the relationship with Red is also probability versus chaos so Red prey usually find secure food in the randomized part of Violet plants, buffered against variations in Green resources such as rainfall, through the chaotic growth and collapse of Red animals may threaten Violet plants by sometimes overeating them, and at other times not eating enough so the leaves overgrow and strain the plant’s resources. This is like in a society which tries to maintain a Red safety net and welfare state by averaging out the claims made, but in a recession the numbers of Red can climb suddenly and overwhelm the Violet resources and other times a boom reduces unemployment and leaves welfare resources unused.

If Red eats too much, for example grazing animals or a Red welfare state then Indigo Violet can dominate in plants and Biv businesses leading them to grow fast to flower and fruit, and making a less stable food for Red. If taxes for Roy become onerous then there can be tax avoidance and even tax flight, the equivalent of plants having fewer tasty leaves and more poisons and thorns or growing high to place them out of reach or not growing at all where there are too many grazing animals. This can lead to more chaos from Orange Yellow predators as food runs short for Red, in the welfare state this would be like welfare being reduced in Britain in the Great Depression where people sometimes starved and many converted to militant Red Communist ideas. This is also like Red grazing animals resenting the low amounts of food which they have come to believe is theirs by right. The reduction in Red welfare can set off an oscillation in Roy where Red people get robbed more by Orange Yellow criminals who have come to depend on them as an easy target, this can be corner stores charging high prices in Red ghettoes, Yellow loan sharks who use violence to enforce repayment, Orange Yellow thieves breaking into homes or snatching purses, and so on. This can leave Red people poorer with a chaotic collapse in security and assets and lead to an outcry about cruel welfare cutbacks that cause more hurt to Red people than anticipated.

Yellow stability also interacts with chaotic Blue workers, with probability versus chaos. For example Yellow as a team can attack Blue workers and cause a collapse in a Biv village, Yellow can also act like Biv Violet to some degree where goods they have stolen or acquired through a Yellow dictatorship can be traded with Blue workers. For example organized crime can have regular stolen goods and money in Roy and money launder this into Biv, Blue workers and Blue Indigo unions can see this as a regular income source. This is a common way for Biv economies to get money in a Roy Empire such as with King Leopold and his Congo colony, the plundered goods were taxed and the money went into the Roy Belgian economy, traders bought these goods as if their cheapness was because of Biv free market conditions.

Commercial law can be enshrined into Biv society so that issues need not be constantly renegotiated. For example Blue Indigo union demands such as set wages for a given job or industry, holiday times and pay, health insurance, pensions, discrimination based on sex or race, unemployment insurance might be government law so union demands are coerced by the state. Indigo Violet laws such as the right to opt out of a union, to not hire people against religious beliefs, can also be law so Indigo Violet need not negotiate these, and infringements of these laws can lead to prison. In Roy some issues may not be settled by the law for example openly gay Red Orange people may battle Yellow homophobes without police involvement, and Red closeted gays or vulnerable children and Orange Yellow predators may be ignored. As the recent history of pedophilia in the Catholic Church shows, the absence of state Orange law can lead to a minor civil war where people settle their issues themselves. Red Orange gays might band together for protection such as having gay nightclubs and neighborhoods and have gangs of Yellow homophobes as enemies. This can be a problem with the laws being too rigid, if the penalties are not high or there is a low budget for policing then the Orange police action can be ineffective or not neutral enough, this can lead to cold Red versus Orange Yellow and hot Red Orange versus Yellow crime being ignored. For example gangs in the US are often not effectively policed, the church has had pedophiles operating it in without being caught or even investigated, the Yellow mafia still thrives in many areas, etc.

Police and the courts have functioned through history as Roy and Biv, often highly influenced and bribed by various color codes. Even today justifications can be found for favoring the left or right on an issue rather than a neutral law. It has been common through history and even today for police to act as Orange Yellow, participating in Yellow crime, or turning a blind eye such as being bribed by the Yellow mafia in Prohibition. This Orange Yellow aspect of policing can cause Red people to distrust and even hate them and have the Red Orange members of society protect vulnerable citizens such as Red crack addicts that are being persecuted by Orange Yellow police. Wealthier parts of society might use cocaine with less chance of being raided and lower sentences if caught. A decision by the courts in favor of keeping an issue underground can keep underground police corruption hidden such as gays being blackmailed over their sexual orientation or police getting free sexual favors in exchange for not closing down brothels. Police then can become ineffective in some legal issues because this secretiveness and deception allows them to cover up incompetence, laziness or their own crimes.

Periodically this underground economy or issue can flare up as it grows secretly in Red and Orange Yellow threatening Yellow and Violet order and lead to a crackdown or surge in policing. The underground or black economy in Biv can be seen as Indigo Violet and Blue doing secret deals to benefit themselves, such as Blue Indigo union workers doing Blue cash work and Indigo Violet getting cheaper deals while avoiding taxes. The Red and Orange Yellow underground involves Roy crime or at least frowned on activities to be kept hidden such as drug use, prostitution, exploitation of illegal immigrants, and so on.

Keeping the peace then buries many crimes instead of solving them as part of keeping the peace; this is often where Orange Yellow wants them because it allows corruption and bribery to continue while preserving a façade. If Red Orange wins in court then the issue becomes above ground or open, Orange Yellow corruption and blackmail is reduced because nothing is hidden, and the supremacy of Yellow order is checked by a new order where the repressed behavior becomes legal. This can lead for example to demonstrations, and a Yellow dictatorship or elite may push back with Yellow police brutality such as mass arrests, tear gas, sometimes shooting directly into crowds but because these team based demonstrations are random scaring or hurting some of them might not affect the others so it becomes a war of attrition. If Yellow wins and the pendulum of the law swings back their way then it may move back to the dominations by Orange Yellow police and intelligence agencies and the issue may be buried again in secretive policing. In a marginal society issues like these may change from the left to the right alternating according to who wins an election, which side is stronger in a dictatorship as underground Orange Yellow or above ground Red Orange, etc.

For many issues there is no definite solution so the law swings to Orange Yellow for example with marijuana laws and buries the issue so the public can be deceptively told it is under control. This leads to Orange Yellow police corruption and victimized Red addicts often exploited by Orange Yellow dealers or even Yellow government leaders providing the drugs. Red Orange stands up to this persecution of their community and may prevail for a while with decriminalization which can threaten order with threats of drug use catching on by example in Yellow neighborhoods, which might then leads to Orange Yellow criminalization again and the cycle continues.

Violet and Blue Indigo represents the above ground economy where collective action on both sides makes it easier for governments to monitor it, there is a tendency then for the underground economy to get out of control because the government assumes that everything important about the economy is visible. For example in the great recession Indigo Violet agents ran riot with dubious business deals which were not detected until they had reached tipping points after enormous growth, the large taxes gotten from this activity together with no above ground evidence of problems let the underground financial economy grow too far. This also management by crisis where nothing is done as long as the economy is growing but growth is a a normal phase of chaos. When the collapse happens some new Orange and Indigo laws are created but the deceptive colors either find a way around these laws or try to have them repealed, then the cycle of growth and collapse resumes. The cycle of regulation and later deregulation often follows the same pendulum, Indigo Violet might gain the upper hand later with elections and relax regulations because the chaotic problems are again hidden underground, court decisions through appointed judges by special interests allow relaxation of laws and this corruption leads to large profits in the growth phase of chaos, dissatisfaction with the previous laws can also occur because they appear to restrict business too much and lead to sluggish growth in the Violet part of the economy.

This leads to an expansion of the underground economy, such in power generation and sales with Enron, in finance with too much speculation after the repeal of Glass Steagall with Bear Stearns and Lehman Brothers speculating too much instead of looking after clients, in Ponzi schemes such as Madoff where low SEC budgets and a revolving door to jobs on Wall Street led to a reluctance to pursue corporate crime, in environmental damage such as in the Bush administration where regulators reduced safety requirements on oil drilling which led to the oil rig explosion off the coast of Louisiana, in economics such as Alan Greenspan believing bubbles should be allowed to deflate by themselves and assuming he could see everything that was going on in the economy, in foreign policy where business involved itself in contracts to maintain troops such as Halliburton, in government where relaxed laws on lobbying led to corruption, in war where Iraq may have been invaded for Indigo Violet agents to secure oil deals, relaxed ethical standards allowing corrupt and conflicted politicians and officials into government, diplomats and foreign policy staff running things and upsetting allies, etc.

So this deregulation sets up potential tipping points and collapse in the economy by unsustainable expansion. It looks good at first as some of the excesses of Blue Indigo are removed and the economy sprouts Indigo Violet and Violet branches. Often this expansion is fast because this was formerly suppressed under Blue Indigo domination. These collapses can be exacerbated by the return to Blue Indigo regulation unless tipping points are avoided by stimulating the economy, for example this Indigo Violet competition made the world economy so fragile at the end of the Great Recession that regulating derivatives and requiring a mark to market accountancy standard could have caused more business collapses. As Blue Indigo rises in strength the damage to the Biv roots can be healed by increasing worker minimum wages, improving unemployment insurance by extending its length, health insurance reform to keep workers healthier, strengthening unions, reregulating industries, and so on. The control of this chaotic Indigo Violet chaos brings back some probabilistic stability where recessionary problems are healed by redistribution of resources to damaged parts of the economy, prevention of new tipping points forming, like a plant with damaged branches lying dormant then tentatively growing new branches.

Eventually the economy will again become overregulated and stagnant such as the economy before Margaret Thatcher587F[[584]](#endnote-584) in Britain and the cycle of deregulation and collapse will resume. Sometimes then this cycle occurs in Roy and Biv because there is no satisfactory balance or not enough effort is spent in finding this balance because Orange and Indigo are going through a weakened phase. If the Orange police are weakened by Orange Yellow corruption and a hostile and separate Red Orange vigilantism of beating up and framing Yellow crooks then laws can be unstable and oscillate from Red Orange to Orange Yellow. If the Indigo market is failing to coordinate correctly than the cycle of deregulation and reregulating tries to find a better balance as Blue Indigo or Indigo Violet.

Often these problems are caused by fluctuations of Green and Green Blue resources and the color codes change ratios to try and compensate, such as from weather disasters and good rains changing food prices, running out of resources driving up prices and new finds or techniques for oil extraction driving down prices, wars wrecking parts of the global economy, illegal immigration undercutting wages of Blue workers and the strength of Blue Indigo unions, brain drains of talent to other countries, swings to the left or right in some countries forcing changes in others, and so on.

This Indigo Violet deregulation often follows from too many Blue Indigo regulations to overprotect people, so the initial business successes can be because of people used to be protected suddenly being ripped off. This is like a Red Orange herd used to not being attacked by Orange Yellow predators devolving its defenses and then being vulnerable. Wages can be negotiated too high, unproductive workers might not be allowed to be fired, regulations on what workers can and cannot do might make work inefficient, strikes might damage productivity, regulations to restrict Indigo Violet agents might make business too complex and hard where penalties for misrepresentation or malpractice are too high, legitimate business might be forbidden such as offshore oil drilling in America, too much wealth in Blue Indigo might lead to a lack of capital in the Violet part of the economy, welfare might be too high and discourage working, new businesses might be too complex and expensive to start up with legal hurdles such as companies going public in America, and so on.

Deregulation in one part of the economy may create a boom there as resources from the Blue roots are consumed; sometimes these are stored wealth such as worker savings, pension funds which were consumed by Indigo Violet agents with poor quality bonds in the lead up to the Great Recession, and so on. As some Green Blue areas are tapped out new resources need to be found, this may drive a Violet Yellow Empire into expansion often with the urging of agents desperate for more Green Blue resources such as the need for oil associated in fact with the Iraq war. Staving off collapse becomes more and more the rationale with salesmen looking to pay their bills and this desperation in Indigo Violet can lead to a turnover in staff, reusing old leads for sales, more strident demands by sales managers as seen in Glengarry Glen Ross588F[[585]](#endnote-585). Liar’s Poker589F[[586]](#endnote-586) also showed a desperate attempt to make dubious sales and being fired for those unsuccessful, which culminated in a tipping point and Salomon Brothers collapsing.

This is like an Orange Yellow pack of jackals looking for Red food that has been nearly wiped out, it becomes a matter of success or starvation. Getting past the Red Orange larger animals is like evading the regulations to protect buyers because in a drought the Red animals may be consumed and only the harder Red Orange ones such as hippos and buffalo remain for the predators, transparency in business is like Red animals looking for plains free of places for predators to hide because Indigo Violet predation can use obfuscation in business documents to cover their tracks, and so on. The urge to deregulate is often resisted by Violet who prefers the stability of rules that give them a secure profit, even a monopoly. In the same way the actions of Orange Yellow jackals is sometimes against the interests of Yellow predators like lions who may find their food source has been scared away, or wiped out by erratic breeding of Indigo Violet or killing too many Red animals and burying the carcasses as saved food. This can be like Indigo Violet businesses that make far more money than they need, partially because they can evaluate their self-esteem only on beating others and partially because they fear lean times from the collapse they know they are causing.

Once the scams from deregulation are exposed the dilemma is that fixing the problem leads to faster collapses of Indigo Violet unstable businesses and initially this causes the slump of recession to deepen. Often a revival is based on whether the Blue consumer has been tapped out like whether a Biv plant in nature such as overeaten grass has enough reserves in its roots to grow new branches and leaves, if so then the Biv plant may sprout new branches more quickly. This is why Blue housing has traditionally enabled an economy to climb out of recession and when this has been used up there are few other stored assets available. Sometimes the Biv economy is so top heavy with wealth inequality that resources must come from increased taxation on Violet and Indigo Violet such as after the Great Depression.

Economies tend to store unused resources in the form of investments and collectibles which can be sold off if needed. If wealth becomes too concentrated in one color code money is stored and often loaned out to others rather than actually being owned by the other colors. However if the system is skewed towards the Violet wealthy or the Blue worker then loaning to other colors can be futile because they cannot pay it all back, because to make a profit from an investment the borrower has to have a means to make a profit or income from someone else and if the Blue part of the economy for example is becoming poorer then additional money to pay interest may not be there unless it becomes Roy Red and they steal it or use secrecy and deception, which they did to some degree with no documentation loans. If that area of an economy, or even a whole nation has a deficit like this then there are few ways to repay loans other than refinancing, selling off assets, making money like a predator off someone else, and so on.

So if Violet has set up the system corruptly or is too talented compared to others it may loan this money back to the rest of the Biv plant economy and lose much of it in a recession, causing more chaotic collapses for themselves. Art may be suddenly debased in value as well as other collectibles which trade on Indigo Violet talent and scarcity for their value, this is because when Art is so competitive the underlying value is lost because buyers are more intent on watching each other to see what others are doing. Also they may not care whether it is a scam or not only whether they make money out of it, this can then become a case of shared secrecy and deception or conspiracy. It is normally true that conspiracies can fall apart if there are too many participants but if everyone is by nature secretive and deceptive as Blue or Indigo Violet they see no competitive advantage is exposing a conspiracy. According to Mark Markopolos590F[[587]](#endnote-587) many of Bernie Maddoff’s clients didn’t care if he was front running or even running a Ponzi scheme, only whether he provided the returns in a deniable way so they could profit from on selling his services. This is like Red animals hiding together from predators or Orange Yellow predators close to each other. They can have a conspiracy of silence because exposing the others is rarely in their interest. Indigo Violet act as agents for Violet and so there is a conspiracy when secrecy and deception are needed in this agency, for example with the intelligence services.

When the market starts to falter the highly leveraged investors collapse first and this scares the others into a run for the exits and this overreaction causes more collapses. The tendency to run and scatter is Indigo Violet versus Blue who survive by running, hiding, and deception. Signs of panic can also indicate a lack of team colors because they would tend to resist and team together in an economic collapse. This was seen in the stock market during the great recession when stocks plummeted in America as Indigo Violet ran with their money or collapsed, but it recovered to some degree later as they return to use the same kind of highly competitive, leverage growth strategies. Often the concentration of wealth in the top one per cent can require a redistribution to other color codes to stop further collapses in Indigo Violet and Blue, foreclosed homes and other possessions of the wealthy may become cheaper as Violet and Indigo Violet suffer a decline and might be able to be bought by those in Blue Indigo and Blue formerly priced out of the market or then able to get back into home ownership. Loans not paid back to the wealthy amounts to a redistribution of wealth, Ravi Bhatra591F[[588]](#endnote-588) the economist is an advocate of this as a cause for the great depression.

A similar problem can happen if Blue and Blue Indigo become too wealthy such as with powerful unions or oil cartels, here Violet must borrow money rather than make investments from profits and so Indigo Violet business might find it hard to get off the ground with sluggish growth and many collapses. Blue Indigo America was exploited as in previous deregulation booms such as the savings and loans crisis by Indigo Violet financial con men who had come to expect the consumer to be able to stand this gouging, but Blue America had already been debilitated by manufacturing jobs lost to China, this is like Red prey becoming scarce and Orange Yellow predators not realizing this and a collapse of the ecosystem occurs.

The Chinese and Japanese loaned money to Violet American business who since they could not sell much to China or Japan because of their trade deficit hoped to profit by loaning this money to Blue Americans, this money was deceptive because it gave a false impression of prosperity. Thus goods from Blue China were sold on finance with the trade deficit because China had to invest the trade surplus offshore to keep the Chinese Yuan low relative to the American dollar, and Indigo Violet agents made profits deceptively while Americans used homes purchased with Chinese money like an ATM. This easy credit led to a boom in prices because Blue versus Indigo Violet tend to grow quickly by too much competition, and a collapse after tipping points were reached. It often takes time for the differences between borrowing money and owning it to become apparent, interest charges eat into remaining capital without profits being possible until it becomes obvious it cannot all be repaid. The result was similar to a Ponzi scheme but without someone creating the system and knowing how it operates, money went into no documentation loans and the returns were created by people refinancing or reselling the homes at a profit. More loans then were issued even though the only reason the market was rising was because of this ever increasing loan money, the interest being repaid with fresh loan capital just like in a Ponzi scheme where dividends are paid through fresh capital infusions.

Psychology in many respects complements criminal and civil law, a person may be guilty of a crime in Roy but mental illness can be a defense to this, that the person could not deliberately commit an offence because they did not understand right from wrong. In Biv also civil law can focus on intent and so when someone is mentally ill they cannot intend to make a contractual obligation. The kinds of mental illness are related to the different color codes of crime and also the different colors of health problems and how they are treated or ignored. A Yellow violent criminal is predatory by nature, but so is a psychopath, a sadist, or sociopath, the first might go to an Orange prison but the second to an Orange mental hospital.

Orange Yellow is a petty thief like a fox and this is like the mental illness of kleptomania where people feel compelled to steal, usually deceptively such as shoplifting. Orange can be the police in this case but it can also be mental health professionals who must judge whether someone is genuinely mental ill, is faking because they believe the penalty for insanity is less. Orange Yellow is deceptive by nature and might readily fake kleptomania which can make it difficult for the genuinely ill. Red Orange can be violent like Yellow and also might be described as psychopathic such as with Violent gang members, being a vigilante can be viewed as mental illness in a modern society where solving crimes is supposed to be left to the police. Red can be schizophrenic with their secretive and deceptive thoughts and paranoia about Orange Yellow secret agents spying on them.

In Biv the focus of psychology is not of someone being a predator or prey as in Roy but whether they are capable of doing things. This incapacity can affect their signing of contracts, looking after their own affairs such as the elderly with Alzheimer’s, being able to work, and so on. If someone agrees to a Biv contract generally they are liable for non-performance of their side of it such as having to pay back money borrowed or knowingly sold something by misrepresenting it. Psychology in Biv can include drugs that are an Indigo market solution for mental illness but also mental problems which can involve poor performance. For example Ritalin592F[[589]](#endnote-589) is often prescribed for attention deficit disorder or ADD where children cannot or will not behave appropriately in school or the home. There is no suggestion of criminal intent here but in Roy a child might be punished as a criminal for disrupting a class or striking and abusing a teacher. Instead the mental illness is managed to some degree with amphetamines, similar to drugs that would be illegal in Roy. Ritalin is often used in universities to help students pass exams because they learn to fake the symptoms of ADD to doctors so it becomes like an Indigo market solution to amphetamine use, this parallels the Roy criminal approach to methamphetamines which are closely related to Ritalin. Here Ritalin would be an Indigo Violet drug which is used secretly and deceptively in a highly competitive environment, it can also be used this way on Indigo Violet children where parents might prefer a deceptive diagnosis of ADD and make their children perform better in a competitive school rather than see the child as unmotivated. In Violet illicit drug use might be more open but their power and privilege can insulate them from prosecution, cocaine might be openly used for creative thinking by musicians and actors as well as ecstasy, marijuana, vitamins to improve thinking, speed, and so on. Violet artists and actors occasionally get busted for drugs or go into rehab but they are not condemned for this as Red people in Roy ghettoes would be, they also have better lawyers as part of the Violet team to protect them. Steroids can be more or less openly used in some Violet sports such as bodybuilding where competition is less important than seeing the sport as a kind of beauty contest, but in other sports as the Olympics they can be an Indigo Violet secretive edge in a highly competitive environment.

The Indigo market provides solutions for these mental problems with anti-depressants for example being a large growth market. Blue Indigo people can include those disabled and less competent and instead of drugs to give a competitive edge such as Ritalin in Indigo Violet, Blue Indigo works to help its less able members. Anti-depressants can remove bad feelings about failure and Blue Indigo can contain people who fail in competitive Blue. Anti-psychotic medications can control psychosis which in Biv is regarded as an inability to function in the market rather than being a potential criminal. Blue people can also use drugs secretly and deceptively to give a competitive edge such as truck drivers using speed and extra caffeine to stay awake and drive further, painkillers to handle chronic pain such as back injuries, alcohol to feel better in between unpleasant days at work, and so on.

Trials of drugs are based on randomness so they don’t naturally take into account chaotic effects since this is not part of the mathematics of probability. Growth of problems associated with drugs as well as tipping points can occur but not be seen in trials leading to disasters when they become widely used. For example taking Ritalin might improve performance of abnormal students on a normal curve which is a team solution where the abnormally acting students by using random trials are helped enough to participate in school. It is also becoming a means for Blue and Indigo Violet students to get better grades in school because of intense competition, instead of acting to normalize students it can act to increase the abilities of some in competition to leave the others behind, such as in getting to university. As Ritalin becomes prescribed deceptively by bad students faking symptoms this could lead to students normally not clever enough to pass exams passing and then not being able to sustain this performance later in the workplace without drugs, it then acts like a kind of leverage to promote educational growth but also leading to potential tipping points and collapse of someone’s health. Other good students without ADD might feel the pressure to acquire them secretly to maintain their position in the class so the overall competitive nature of the class may end up the same except that now everyone is taking drugs, this is like in economics where Indigo Violet agents all need to borrow money and take risks to compete even though with more cooperation they could all do as well financially.

Exams are a good example of a tipping point, to fail by a single point can be a catastrophe for a career so a drug designed by probability trials to help abnormal students in Blue Indigo can become a drug to stave off disaster in Indigo Violet. Education in Blue can have similar problem where ADD can be seen as a lack of willpower and that they might not be a hard worker because of a short attention span. Children with ADD can often appear antisocial and Ritalin can be administered to make children more like team players in Violet and Blue Indigo rather than loners. Learning on the job as a Blue Indigo apprentice can be less prone to tipping points because often a slow learner has time to get it right in an uncompetitive, cooperative environment. Cooperating and playing well with others can be a more important advantage than the benefits of Ritalin in studying better, some people then can use it as a competitive advantage and others use it to improve their ability to cooperate .

In Indigo Violet the system is designed to be a filter because not everyone can be a doctor or lawyer and so some way must be found to insure enough fail to give a good income for the rest and avoid a glut of doctors and lawyers. Drugs to improve performance is Indigo Violet versus Blue because if they are taken by everybody it becomes like steroids at the Olympics where losing a medal is the tipping point and can be caused by being the only one not cheating. This is often overcome by using randomness to combat chaos, for example random drug tests often expose steroid users. Because this educational filter can be somewhat arbitrary such as a limited number of scholarship or university places then there is less guilt about cheating because those who succeed this way are usually good enough for this vocation, they are only overcoming an arbitrary filter to maintain higher earnings for Violet professionals. In Roy society ADD can cause a student to be persecuted so a poor Red student might be picked on if they are poorly coordinated and drugs that help this condition can make them better able to defend themselves.

Depression can be seen as a reaction to abnormal events in society such as poor finances, lost relatives or spouses, etc and antidepressants can help people recover from these unusual circumstances. They can also be seen as staving off a chaotic collapse where someone snaps from too much stress, one problem with them is they appear to work no better than placebos593F[[590]](#endnote-590). This is the secretive and deceptive side of chaos where a placebo can itself be enough to prevent a tipping point causing depression. When their lives improve the theory would be that the need for anti-depressants would lessen. In Indigo Violet however anti-depressants can be used to avoid tipping points where competition is strong pushing more people into more stressful situations, so instead of helping people get over unusual stresses they help people avoid disastrous breakdowns in a pressure cooker like environment. A job might be nerve wracking and some people might need to drink alcohol to get through the day so antidepressants can enable someone to handle dangerous levels of stress that would hurt unmedicated people. Testing antidepressants in situations with these tipping points is difficult, in a trial seeing if someone feels better compared to a controlled placebo group is not the same as seeing if it helps people to avoid cracking under pressure in highly competitive situations. The difference is chaos versus randomness, in a randomized drug trial there is no attempt to see if the user approaches tipping points causing a break down or depression, in chaos the tipping point is the main aspect to be monitored.

Other causes of mental illness can be dominated by the money in the pharmaceutical industry. Problems such as autism, Alzheimer’s disease, ADD, depression, are increasing in numbers in America despite being stable or rare in other societies. Often the real causes are hidden or surrounded by deception and so can be a Red versus Orange Yellow or Blue versus Indigo Violet interaction. For example drugs that are not safe can be pushed by Indigo Violet agents and create disease or be little better then placebos such as with antidepressants. Often corruption is rife in faked survey data because tipping points of non-approval of a drug by the FDA is a chaotic tipping point and invites deception, bought off doctors can make the difference between using deceptive endorsements and a tipping point of a drug being banned, and where Indigo Violet drug salesmen pushing doctors to prescribe them face tipping points of selling by fraud or being fired. Toxins in the environment could be leading to disease and mental problems because of tipping points that might not show up in randomized drug trials, such as pushing poor diets of too much sugar onto children, allergic reactions causing brain fog, colorings and additives in foods, and so on. So people can become sicker by Orange Yellow fraud or Indigo Violet sharp business and then have dubious medicines pushed on them to try and cover it up, medicine can then have a Blue versus Indigo Violet part which is competitive with high growth in profits or collapse, secrecy and deception in how medicines really work, and which is hard to uncover because of the random nature of drug trials which obscures tipping points. For example a thousand people might participate in a drug trial but only ten be near a tipping point such as an antidepressant causing suicidal thoughts under extreme work stress. These failures might be seen as a statistical abnormality and ignored, instead if all the people in the next trial were like these failures to find the tipping point involved then nearly all might get the suicidal thoughts. The problem is finding tipping points is difficult in trials because of the randomizing selection of participants; this has to be changed to a deterministic sample of people such as those under high stress. The same applies to construction, steel might tested under random stresses and seem ok, but to build an airplane wing it has to be tested around a tipping point like metal fatigue to avoid chaos. Color code interactions in medicine like any other aspect of society mean that many problems are intractable, a Utopian society is then impossible in the long term.

Companies in a Biv society can mimic many of the different tactics used in nature by plants. Some can act as strangler vines growing up around a business and crushing it. Others can be parasitic, tapping into the resources of the tree as the tax department or excessive loans might do. Others again can set themselves up in the upper levels of society such as Violet and Yellow and try and get resources there like businesses that cater to the rich by trying to become part of the team. Plants in nature can be deliberately inflammable if they expect to grow faster after a fire so being vulnerable to forest fires can be a strategy for evolution and beating one's competition, for example a small tree with little chance to outgrow others might vary or mutate to highly flammable bark. When the others burn down it has another chance to grow large before they do. In business companies can push the economy into tipping points that hurt themselves if they hurt others more, if they can take advantage of the recession to grow more quickly and form a monopoly then they profit more from disaster than good times. Sometimes then recessions and busts can be strategies for some Indigo Violet businesses just as destabilizing the Roy system with terror or horror as Red or Orange Yellow can lead to political advantages. Blue businesses can also do this, a third world country might remain poor because Blue workers reduce prices trying to send others bankrupt and buy them out rather than forming a cartel as Blue Indigo and raising prices.

One example of this in Indigo Violet is short selling which can aim to damage an economy or industry with rumors and attacks then buy a stock cheaply for when it recovers. Dumping of goods is also done for this, to bankrupt industries to dominate them later or buy them out and whoever can afford to sell at a loss for the longest time wins this competition. When an economy is damaged it can still be some time before the correct policies are used because a color code may be in control and still be doing well, and because it may accept being hurt for longer to hurt others more. For example after the great recession corporate profits quickly regrew and the larger banks to bailed out and resumed paying large bonuses, so there is little incentive for Violet and Indigo Violet to reduce high unemployment as that might increase wages they have to pay. Blue Indigo may have damaging strikes to weaken small Indigo Violet companies to negotiate higher wages but also to deter others from rejecting pay rises, the union officials might even damage a company with strikes to buy the shares cheaply and then make profits after the strike ends and the company recovers. For example an Indigo Violet business may push for laws bad for the economy such as deregulating to create a boom to cash up and then short others in the collapse they know must come. Credit default swaps can enable a bank to loan money to a business and then insure against the business going bankrupt, then suddenly arranging to withdraw credit so the company fails and they collect more on the swap than they lose on the loan. Violet companies may incite strikes to break unions and accept short term losses because if the union fails then Blue workers will compete against each other to work for lower wages, recouping the cost of the strike.

Banks may over lend to consumers expecting to be bailed out while the credit crisis will drive smaller and less well politically connected competitors into bankruptcy, other banks will be cheaper to takeover or they will gain market share when the other banks fail. Like the desert plant they may assume boom and bust is good for them and try to keep this cycle going, in nature then it is often good to evolve near tipping points rather than avoid them. Indigo Violet and Blue can be like Ponzi schemes in their nature where by concealing their real finances they can persuade others to loan to and do business with them, such as no documentation loans for Blue home buyers and the companies that approved these loans. If for example a company makes loans it knows will fail and hides this then its high volume of loans will attract more investors and gain a higher share price then honest companies, it could then buy them out, corrupt them with more bad lending and like a Ponzi scheme this will continue until fewer investors make the losses impossible to hide. Blue workers with no document loans hope to resell a home for more money before their fake income statements lead them to default so they keep buying property until a lack of credit or inability to pay the interest exposes them like a Ponzi scheme.

Destructive innovation can sometimes be damaging to an economy, too many changes in technology may be purchased to avoid competitors getting an advantage leading to waste because so much still useful goods are thrown away and they become flimsily constructed on the assumption they will be discarded before they should wear out. This can lead to a waste of natural resources, toxic materials in landfills, wasted capital in building machinery to make goods quickly obsolescent, and unemployment or constant retraining to keep up with the changes. Productivity and gross domestic product or GDP appear to increase by this churning of goods but over time people may not own much and not have savings. This is like overproduction as pointed out by Marx except people work with this overproduction to use it up with planned obsolescence, also goods may be made deceptively in a flimsy way and a bad reputation is staved off by trying to grow with new innovation and if this stops then their reputation for reliability would collapse. This creates a busy economy and as Keynes said saving money can often make an economy contract, but Indigo Violet and Blue growth like this can lead to a tipping point and crisis.

Increases in productivity can be another strategy where unemployment can result because with less work for the same output of foods unless there are other job opportunities people will not earn wages to buy the goods leading to overproduction or over growth of the economy, and in this over competitive economy some companies can become bankrupt and cause more unemployment. This can be an Indigo Violet strategy of improving productivity by reducing holidays and laying off less efficient workers, but because there is less cooperation it can damage the economy. Also the objective of competition is often to get a critical advantage which eliminates the competition and create a Violet monopoly with higher profits, this is like plants trying to outgrow each other and overshadow the competition with their foliage and if some succeed then this can cause economic collapse in others and a recession.

To some degree there is cooperation between Yellow predators where each builds and defends a territory, this is more stable and stochastic in how their numbers change. Too much competition between them would lead to bloody battles and their constantly recovering from injuries, this can be an unstable ecosystem because Red and Red Orange prey numbers could fluctuate wildly as predator numbers did. In the same way chaotic growth and collapse of Indigo Violet and Blue businesses by too much competition makes the market unstable and unable to use probability to accurately forecast what goods and materials will be needed. For example if Blue farmers compete with each other too much by changing crop types the prices could change wildly with gluts and famines leading to sudden increases in yield from not fallowing land leading to famine later when the soil is exhausted, interfering with a stable insect population and causing plagues of locusts or drops in bee numbers, racing to get to market first to make their neighbors get lower prices, etc then it can be less efficient than them also cooperating to some degree to stabilize prices, set quotas, have uniform rules for pesticides and fertilizers, etc. Indigo Violet businesses can cut profit margins to drive competitors out of business and then fail themselves in the resulting recession so trying to compete by causing tipping points can be dangerous for everyone. They might try to anticipate the market with a new fashion then go bankrupt if it fails, cut wages of workers too much and have them headhunted because they hate working there, and so on.

Attrition is an important strategy in marginal societies just as it is in nature. Armies in history have fought endless wars losing soldiers regularly as in world war one often without either side being exhausted except after a long period. This is a Violet versus Blue Indigo tactic in Biv and Yellow versus Red Orange in Roy, rather than competing with each other people and animals form teams and lose some through attrition but the teams survive. Employees in companies become regularly injured, become burnt out, and are pensioned off and replaced by fresh workers without the company collapsing; this is a stochastic process where the attrition is composed of independent events each of which is not dangerous to the whole. Salesmen become burnt out from the stresses of cold calling and high pressure selling, and move on or chaotically collapse while their companies hire fresh people and continue on as before using randomization to protect against this chaos. This is like opposing armies in Roy where casualties are replaced and trained in time so each regiment varies little in strength, the soldiers may be injured chaotically however. Police can sometimes be injured by Yellow criminals but by using social insurance in health, pensions, new recruits, recovery leave, etc the Red Orange team component stays strong. The Orange Yellow police have less need of social insurance against attrition because Red is not team based so the battle to catch Red works is more individuals competing with each other, if individuals are hurt or killed then the competition to replace them works instead of cooperation. In Roy Red Orange terrorists and freedom fighters are regularly killed and fresh recruits found, for example Islamic resistance in the Middle East to Israel as well as Yellow dictatorships such as Egypt and Syria has lasted for decades with Israeli assassination of individuals having little effect. The Red Orange Taliban and Al Qaeda are highly resistant to individuals being killed because of their team instinct and often this motivates new recruits to join.

Yellow Dictatorships can keep going by their soldiers and police being killed over time by Red Orange communist insurgents because if they have the power to tax Red people and corruptly make money from nationalized resources such as oil they can pay for new soldiers and police. Red Orange insurgents594F[[591]](#endnote-591) can live off the Red peasantry and by raids on businesses and military depots so the war of attrition can continue like this indefinitely. Public servants often form a cooperative and they are unionized in most Western countries. When something goes wrong in government someone in the bureaucracy might have to take the blame as a scapegoat and resign so those likely to have to do this get higher wages and benefits to compensate so the bureaucracy survives unscathed. This is similar to in nature where some of a Red Orange species such as Wildebeest are eaten by Yellow predators but their birth rate compensates for this and the herd numbers continue at approximately the same level, a Yellow pride of lions or pack of hyenas can sometimes lose a member without affecting their ability to hunt and young cubs soon grow to fill the gap. Plants have many Violet leaves and there is also attrition with animals eating them, but they usually grow enough to balance this random loss of leaves, seeds, flowers, etc. The Blue Orange part of the plant stores nutrients so if roots are lost or fail to find food then it has the reserves to usually overcome random bad times. In sport this is seen in teams such as in football, baseball and cricket where some players get injured, rested, or taken off the team if they are out of form while the team continues on.

In Blue Indigo workers can be hurt by industrial accidents, furniture removalists often damage their backs, welders hurt their eyes over time, truck drivers sometimes lose their licenses or have accidents through being unlucky, miners develop lung diseases, workers in radioactive environments can develop cancer randomly, etc but the businesses and unions continue with roughly the same organization. Blue workers eventually can reach a tipping point and collapse where miners can’t find veins of ore or wildcatters have too many dry holes and sell their tools to others, farmers have a drought and have to sell to another farmer, disease wipes out a cattle rancher and so on. These can cause large changes in a business because they are not team based, a lone breadwinner's family can face disaster if a Blue worker is injured but if he is in Blue Indigo he would probably have unemployment and health insurance.

There are three main sections in Aperiomics; Roy, Green and Green Blue, and Biv which correspond to a negative sum game, a zero sum game, and a positive sum game. Roy is a negative sum game, where a gain on one color is a loss for the other and each side loses to some degree, for example a Yellow lion attacks a Red zebra and loses energy or might be injured in the process, and the zebra might lose energy in getting away. If the lion succeeds in killing the zebra it still lost energy originally though it gains some back from eating the zebra, this is approximately analogous to an ante in a card or board game where a betting decision must take into account the money anted up. For example in backgammon using a doubling cube enables a player to double the stakes during a game, the other player may accept the cube and play for double the stakes or resign and lose his original stake immediately but he must take into account that he loses his original stake if he resigns. This is like a Yellow lion chasing its prey, he has expended energy in the chase and would continue longer than he normally might because he has wasted this energy if he gives up and also he is more cautious about wasting energy on a long shot in chasing prey.

This leads to the expression “the lesser of two evils” where the aim is a reduction of bad alternatives such as the lion must hunt to avoid starvation and the Red zebra must run to avoid being eaten and also to the Prisoner’s Dilemma where a prisoner chooses the least bad alternative. Businesses can engage in this negative sum game when they lose money by dumping goods at below cost to bankrupt a competitor, nations sometimes go to war like this like the Palestinians and the Israelis where there are only least bad choices in the conflict, often the objective is to hurt the other side even if they are hurt in return such as with suicide bombers leading to reprisals such as the recent Israeli invasion of Lebanon. Communism as Red did this in trying to destroy Yellow Capitalism to the extent of eventually bankrupting the Soviet Union but also causing the west to spend vast amounts of money on a nuclear deterrent, they believed that capitalism would be defeated one day so the negative sum game would hasten this victory. Nazi Germany as Yellow attacked Red Russia unwisely because they believed that sooner or later Communism would try and destroy them so the least bad alternative was to attack first. This can lead to a vicious circle where nations can become embroiled in civil war with no chance of either side to succeed but they must continue to win enough plunder to pay for their losses so far. When nations lose enough wealth in this way they can turn from a Biv society to a Roy one and cannibalize their long term future with destructive policies. Mutually Assured Destruction or MAD595F[[592]](#endnote-592) and escalation of war happen for this reason in Roy where the least bad alternative is not to destroy each other with nuclear weapons but to keep wasting money on weapons, because this negative sum game thinking is foreign to Biv think tanks and research have had limited success in understanding it.

Green and Green Blue represent a zero sum game where the gain of one is precisely the loss of the other. This is seen by the creation and moving of a fence between them where Green is public property and is unfenced, the creation of fences and their growth takes as much land from Green as is fenced under Green Blue. For example rising demand might make some oil recoverable and some more land is claimed under mining leases so this is lost to Green as it is no longer public property. This zero sum game is often used in Biv where a deal is examined for potential profits and if it is not economical to do then it is abandoned to Green and someone else may try to do this deal later. In Roy public property is preferred, if Green Blue private property is desired then criminals looking to break into a Biv home or a Red communist leaning country wants to nationalize private business and mineral deposits then the Green Blue fence is knocked down and the goods taken by whoever is the most powerful in that situation.

Biv is a positive sum game where both sides gain, it is also called a double win since both sides can profit, cooperation and competition work best to maximize profits for people but also allows them both to profit, for example in professional tennis the loser might also receive a prize or makes money from sponsorships. Destructive actions are less profitable because they invite revenge by the injured party, for example Orange police can regard a deal that injuries someone as an offence.

Advertising in a marginal society has different objectives according to if it is Roy or Biv. In Biv advertising is used in the Indigo market to coordinate resources and in Roy to hurt a rival color code. In Blue advertising of information promotes a competitive edge where goods are represented as improving productivity of workers and can be from Indigo Violet agents. Goods can be sold by Blue Indigo in classified advertising often as a kind of social insurance where people buy and sell second hand goods, advertise garage sales, advertise raffles as a way to help each other rather than to profit. For example toys and cribs might be bought second hand, used and then resold for about the same price and this is equivalent to sharing these resources.

Blue Indigo advertises solidarity amongst its members and vigilance against bad business deals, advertisements might include a link or badge to an association that protects consumers by examining products or only allowing reputable companies to join. They emphasize openness and honesty while Blue might advertise lower prices and quality often in a secretive black market such as local newspapers or smaller ads. Blue Indigo advertising rules are restrictive and negotiated with Violet businesses to avoid ripping people off, mass production and standardization is used rather than small numbers of items. Large scale ads avoiding discrimination and offending minorities is important since Blue Indigo includes deviates from the norm who work together as a team.

Advertising in the Indigo market is usually between Indigo Violet agents looking for goods and Blue Indigo larger businesses, so there is an accommodation for large and small orders. A jobs market can advertise for example Blue Indigo union style jobs and Indigo Violet agency jobs. The agencies might look for Violet talent and Blue Indigo businesses for workers in a safer but less competitive work environment. Advertising for agencies as Indigo Violet can be deceptive as people might still be working and looking to change jobs without alerting their employers they are intending to do this. To work in a market a person usually then answers an ad for an Indigo Violet agent or a Blue Indigo distributor or wholesaler, a large market then might have advertisements from Indigo Violet agents of Violet products as well as Blue Indigo unions of Blue producers. Violet advertising is of refined goods and is open and honest, rather than from their deceptive Indigo Violet agents.

Mathematics is an important part of advertising, especially when free services such as Internet web pages rely on it. Analysis can include what people bought before, where they have been such as web pages, their demographics, and so on. What TV people watch is surveyed to determine a price for advertising based also on demographics for particular products. It can also divide into random and deterministic analysis, for example advertising can be viral so one person tells another about it, this can lead to an exponential growth in the numbers who see it and then the growth can suddenly collapse if they lose interest or it is no longer related to current events. Stochastic or probability based advertising is where each consumer sees the ad and responds to it independently, this averages out fluctuations as deviations from the norm and might try and aim for the normal average customer or lowest common denominator such as those with the most money to spend on movies or toys sold as part of the marketing. This is often a tactic in moviemaking as well, writing a script which appeals most to a group who have more money and time to go to see movies and for television those who are more likely to buy from the advertisers.

Advertising can lead to a conflict, for example appealing to a particular religion or minority races in targeted ads can cause tension with other buyers who are then associate the product with someone else rather than someone like them. This depends on whether the intended audience is a team based color, for example Blue Indigo and Violet advertising could target a minority because being team colors they are not divided against their members but advertising directed at Indigo Violet or Blue might see this as a threat because advice and help is being given to a competitor. Some advertisers such as Amazon try to target the abnormal buyer, i.e those people who buy unusual subjects in books can be a bigger market than those who conform to buying bestsellers. Careful attention to demographics may be needed where for example in a gay dominated area of San Francisco gays are normal and heterosexuals deviates so advertising might be directed primarily at gays, in a black suburb whites can be regarded as deviates and ignored in advertising to get the largest response for money spent. Surveys can also be used to aid in advertising, on web pages, opinion polls, and so on.

In Indigo Violet advertising is different from staples such as bread where small differences in packaging or product changes will lead to small differences in sales, tipping points occur in Indigo Violet advertising where a failure in advertising can lead to a drastic loss in market share or bankruptcy. Talent can be used to sell fashion, perfume, movie scripts, etc and so top Violet actors and models like the flower on a plant which attracts insects by its beauty may make all the difference between a product being over a tipping point, or being under and failing. For example a movie might appeal to people as Violet and attracts a normalized crowd by appealing to a lowest common denominator such as physical beauty or being family friendly, this tends to get a fairly predictable box office so a given star might usually guarantee a profit and commanding a good fee for this. Another movie might be Indigo Violet and put together by agents, it tries to compete with other movies by trying to make it go viral by being sexier, have more action, be scarier, etc. They can also be deceptive by hyping the movie in previews but the movie is not as good. Many more movies like this may come out so that occasionally some do very well and pay for a string of chaotic failures.

Perfumes and fashion, also food and exercise related inventions may also be marketed in a similar way to Violet flowers where higher prices and talented promoters such as a famous movie star or model try to make the product seem normal and to use it makes you part of the team. If the products fail then they are discounted in department stores, they become Indigo Violet where they compete for smaller parts of the market often with deceptive advertising and offers. This advertising then is like plants shooting up, few of which survive, but Violet products are like the foliage where they support each other’s products and emphasize friendly cooperative service, that they will be in business for a long time and have few competitors.

Money in Biv is like the sap in a tree, taking nutrients from the Blue roots and moving them up to the Violet leaves and back. It is also like blood vessels in an animal which are also arranged as roots and leaves, carrying nutrients to cells and taking away waste. In the same way money allows people to buy nutrients and have waste removed, like blood and sap the amount of value in goods and services it delivers depends on what is available. One difference is that money moves in an approximately equal and opposite direction to goods and services, when people buy goods from a store money goes in and goods equal in value move outwards in the opposite direction. In some cases the movement is not equal and opposite, for example the store may overcharge for the goods and people get less for their money, also Indigo Violet and Blue can be secretive and deceptive to try and get more money for goods than they are worth. Violet and Blue Indigo can use their team numbers to get more money than goods and services are worth, for example a store might have a monopoly on goods in an area and overcharge for them, a union might get more than their labor is worth by threatening to go on strike.

In Green and Green Blue money is a zero sum game where goods in Green Blue are worth money because they are private property and economical to use, mine, farm, etc and if they are or become Green they are worth no money in Biv or they can only be used by running at a loss. A miner might look for a seam of gold and if he finds it then the gold will be convertible to money and the money will flow to him, and flow out again to buy mining equipment, food, pay wages etc. When the gold claim is filed the Roy economy loses approximately the same amount of money because it is no longer Green public property, for example a Roy government might develop the mine itself but chooses to sell the claim to a miner and receive taxes and fees instead. In a Biv economy the central bank of a country issues banknotes which are owned by the Roy state, it sells these into the Biv economy and withdraws a certain amount out of circulation when they are worn or damaged in a zero sum game. A torn banknote for example might become Green or worthless.

Roy money can be paid to Red people on welfare; they might then spend this in the Biv Economy for rent and food. Money can be taxed out of the Biv economy, borrowed from it or expanded with quantitative easing596F[[593]](#endnote-593) to pay for this. A Yellow bank robber might rob a bank and the money stolen becomes Roy because it is taken by force and not as a double win transaction. Planning a robbery is a negative sum game because the robbers need to spend their money or they will eventually run out and starve, so like a lion they must act as the lesser of two evils. Red Orange people might spend money on locks and surveillance cameras to avoid losing more from robbery so defense is the lesser of two evils. In Roy money can move in the same direction to goods, for example duress may be applied by Yellow such as protection money or getting goods cheaper than they normally would be.

Because Biv is a positive sum game both sides win in a transaction and money moves through a series of transactions, but this win can be a profit or loss as a person might gain by selling at a loss in a transaction if this is better than keeping the goods or services. A profit or loss can be of a number of transactions, for example a Biv company might calculate its profit in a year over thousands of transactions. Mutual profit or loss in Biv moves up and down the roots and branches of Biv society in each transaction, this profit flows in an equivalent way to sap in a tree. For example Blue miners sell gold at a profit if it cost less to mine than it is worth in the market, a Blue Indigo cooperative might sometimes make a profit or loss as the market fluctuates but averages a profit. Indigo Violet profits from being an agent for Violet, Violet also profits because it refines the gold from Blue into jewelry and sells this for a higher price than raw gold. As profits move through the Biv tree it benefits as a whole and losses moving through a tree are where damage spreads, like a broken branch might disrupt nutrients going through leaves and flowers while other nutrients must be diverted from other areas to repair the damage. Profits and losses can move like a liquid and have a current, momentum, move chaotically or as waves.

This current can be seen by transactions over time such as the raw gold as it moves though the economy and is refined and used. It can have a momentum with the pressure people feel to do a transaction, for example if gold is rare then it may be more important to buy it when available. Profits and losses can grow in Indigo Violet versus Blue where these transactions are deterministic so one transaction must be done before a second transaction is possible, when this chain of transactions is unbroken business can grow rapidly but if it breaks such as an Indigo Violet jeweler being robbed and not having the money to buy more gold the whole chain can stop working. Losses can also grow in a chain where a collapsed business fails to pay its accounts and sends other businesses bankrupt, this is like the multiplier effect in economics. Waves of profit and loss move in Violet versus Blue Indigo where they are independent, for example a Blue Indigo cooperative has a big supply of food and prices are low and each buyer independent of the others makes a better deal than they normally would and might have more money to buy other things. This profit ripples outward in the Biv economy like waves independent of the effects on other buyers and sellers to a large degree, Violet might suffer a big loss in a gold transaction and decides not to stock gold jewelry any more, this causes consumers to have to travel further to pay more which costs them money and so they spend less in other stores, the wave of loss rippling outward. These waves move through the Biv economy, when they reach a person a profit wave gives them a onetime profit and a loss wave a onetime loss. This can be represented by a moving wave as profit and a moving trough as a loss, the waves can cross over each other when a person might have made a profit on cheaper food and a loss on more expensive jewelry on the same day.

These waves can also move in different speeds and have different amplitudes, i.e. they can give different profits and losses depending on the origin though they generally will fade in effect the further in distance and time from the original force that gave them motion, such as a sale at a store or another store going out of business. They also affect people differently depending on how much money they have so this can lead to a change from waves to chaos or vice versa. For example a wave of cheaper food might help some people to avoid a tipping point of not being able to afford bus fare to work and losing their job, this can be represented as the depth of liquidity or assets of the person when the wave passes by. By making this liquidity temporarily deeper it acts to float other actions like the bus fare saving the job and this small amount of money like a butterfly effect gives a large change in a job saved. The passing trough of the more expensive jewelry makes people who need it such as a man who must buy an engagement ring poorer, this might have a large change where the engagement is postponed and his fiancé marries someone else. This is like a wave breaking in shallow water where the random wave collapses into chaotic effects. If a person is not affected by the wave or trough it passes them unchanged like they didn’t need to buy jewelry in the time the prices fluctuated, if it does affect them then this transfers energy to a wave or chaotic event elsewhere like a wave in the sea might move a buoy and make other ripples or break it and create a chaotic event. For example the man who kept his job by getting the cheap food and being able to afford the bus fare would continue to get wages which independently affects businesses he shops at like an expanding wave. Keeping the job might make him move to a better area which hurts a business he shopped at enough so they fire a part time employee.

The chaotic profits and losses of Blue versus Indigo can also cause waves, like a landslide falling into water and making ripples. Indigo Violet might buy gold secretly and deceptively from Blue and if he makes a bad deal then his business might collapse because Violet doesn’t want to sell jewelry anymore at that price of gold; this creates waves of loss of a jewelry store. Blue farmers might buy farm machinery cheaply and raise production and when this produce is sold to the Blue Indigo cooperative prices fall and waves of profit spread through the community. Credit can provide temporary liquidity, for example the man who nearly lost this job for the cost of a bus fare could have afforded to borrow the bus fare money by going to a pawn broker, and the man buying the engagement ring could have avoided catastrophe by borrowing the extra money needed. Credit can be like a wave itself, when available in a community it helps people to avoid temporary tipping points but it can also be used chaotically to create wave effects. For example a Blue farmer borrows money to buy the farm equipment that made for a bumper crop, this leads to cheaper prices in the Blue Indigo cooperatives and a wave of profits through the community as they save money on food and can spend more elsewhere, this could have caused a baker to decide to open a store, the success leading to people employed and another store opening to sell cheese and coffee nearby in a chaotic multiple effect. It may also have caused other Blue farms to go bankrupt because the cheaper grain stole their market, then the original Blue farmer buys out their farms and raises his prices.

When there is insufficient liquidity people cannot buy what they want, this can be because rising credit has stretched available liquidity too far. Because the waves still have amplitude this is like a wave encountering shallow water, consumers and businesses might have grown chaotically too fast and are vulnerable to waves which can swamp their overextended businesses. The great recession was like a tsunami but of a trough of bad news panicking investors and this exposed overstretched credit on assets that were not really liquid. The wave breaks in a tipping point and a business or family’s budget can become a catastrophe. A similar situation is with trees in nature where insufficient water in a drought is combated by efficient water use and discarding leaves and branches that waste water; this is like an orderly shedding of excess staff and cutting costs in a recession. The next stage is the tree cannot support itself with its Indigo Violet branches breaking and bringing down the canopy while its roots cannot rebuild to look for water and it collapses into a kind of bankruptcy. Initially the discarded leaves and branches become food for other plants when the recession or drought ends, these are like surplus labor and cheaper goods such as second hand office equipment making it easier for companies to start up and grow. The falling of the whole forest is like a dustbowl style depression, the discarded workers and equipment are not reused because there are not enough resources to start a business, like not enough rain to regrow in a drought.

People have expenses and need to generate enough income to create liquidity to pay bills and live on a kind of treadmill, if their assets have insufficient liquidity or they don’t receive enough liquidity in wages or welfare then tipping points of house foreclosure, business collapses from lack of sales causing unemployment, car breakdowns from lack of maintenance causing people not being able to get to or look for work can occur which causes even less liquidity and more affects from chaotic effects from waves of profit and troughs of loss rippling through the economy. A breaking wave of money where bills cannot be paid or delayed or a sudden wave of wealth where short term work appears such as a building contract or economic stimulus can both cause chaos because the wave amplitude is magnified by the lack of liquidity. This translates to a breaking wave or trough in the movements of goods and services because sudden waves of money cause people to be able to buy things they have been delays, while a trough such as a spike in the price of food could cause it to stop selling and trucks transporting it to become idle. Waves or troughs can come from specific locations or times, for example troughs of losses from Wall Street and the banks rippled through the economy in the great depression and great recession while waves of profits came from innovations in Silicon Valley and Redmond with Microsoft.

Bubbles in the Biv economy can be formed by currents of money, goods, and services which move into a smaller location or part of the market, a glut of money pushes prices higher while a glut of goods might push prices lower and a glut of services pushes wages lower. Waves can still occur in these situations and they can cause chaotic growth or collapse. For example prior to the great recession a glut of money from trade surpluses of China and Japan came to America as a safe haven from economic recessions in Asia, this combined with low interest rates formed a current which flowed into real estate and subprime mortgage bonds. As this current pushed into these areas money was devalued, the same as prices of real estate going up. This led to deterministic effects of Indigo Violet deceptively loaning money to Blue home buyers but with no documentation loans their real credit worthiness was unknown. This chaotic growth was unstable and tipping points from rising interest rates as well as collapses of some smaller companies caused the current to falter, this led to low liquidity and waves of profit for some buying homes at distressed process as well as troughs of losses having magnified effects.

In the aftermath of this recession Red scared money like a stampeding herd moved quickly around the world for a safe harbor, and this glut of money created huge currents in price fluctuations and then these chaotic price rises collapsed when the liquidity ran away again. Eventually the money sat in a liquidity trap in bonds like a deep pool with no current causing it to move but elsewhere the economy collapsed further because of lack of liquidity. Since the lack of liquidity had caused waves and troughs to create more collapses restoring the liquidity did not quickly resuscitate the economy.

Before a wave breaks there can be situations where the variations in the height of the money waves goes to higher and lower levels of liquidity like a wave going over areas of varying depth, not enough to break the wave but enough to make it rise up and drop down in height. These are like market pauses where prices suddenly rise and fall because the amount of liquidity is affecting the market to a larger degree than is good for it, some properties might sell suddenly with a small burst of liquidity while others sit there unable to find buyers who can get finance, share prices rally and then profit takers move in when the money runs away again like a rip after a wave hitting the beach where it moves out again, short sellers attack and retreat, these undulations are also seen in prisons before a major riot. This can also be caused by chaos, the growth of liquidity and collapses occur as money moves around looking for a safe haven or bargains, this creates pockets of liquidity where waves and troughs have little effect and look as if the economy in this area is stable, then collapses as some of the money moves in profit taking causes more collapse and the current of money moves away.

Currents and waves can also affect goods and services, for example a glut of wheat production in a good year can depress prices, this can result in Indigo Violet businesses being built on this cheap wheat with high growth and leverage just as a glut of money leads to an inflation of prices in that sector. As with money if this wheat is withdrawn by exporting to another market or there is a poor harvest then Indigo Violet business based on it such as bakeries might collapse. While there is a wheat bubble waves and troughs can affect the economy, for example extra shipments of wheat might create optimism and temporary savings for consumers, a trough of delayed shipments might raise prices temporarily and cause some collapses in over leveraged businesses. A glut of services can be where there is high unemployment or an area people want to work in such as a coastal resort. This glut will create a bubble of workers which drops the value of their wages and can create Indigo Violet businesses that grow quickly to take advantage of this and can collapse like a real estate bubble if the workers go elsewhere or unionize. Waves and troughs can affect the economy in services, a sudden bankruptcy give a wave of new unemployed which temporarily depresses wages while a new company hiring might cause a wave of wage rises by a temporary shortage of workers.

Liquidity is generally calculated by the money on hand as assets minus the liabilities to be paid in the near future, other assets may be semi liquid if they can be sold quickly while some liabilities might be semi liquid if they can be delayed such as accounts paid late, loans with a longer term before repayment, prepaid orders which can be delivered after a time delay, and so on. The difference between a person’s cash on hand and immediate liabilities is analogous to the depth of their liquidity and time they have to pay bills represents the strength of the current. A current of money moving into an investment such as real estate gives a deceptive impression of liquidity because jobs like construction are more available and wages are higher from a demand for workers, credit is easier to get, and prices of homes are increasing giving a greater depth of semi liquid assets. There can also be a liquidity of goods and services, for example when wheat is plentiful most homes would find it affordable and even charities would have plenty to give, when workers are plentiful many jobs would find cheap labor, for example with illegal immigrants in Arizona and California.

Waves of money move according to this depth of liquidity, currents can move according to independent investors and buyers or they can move deterministically in Blue and Indigo Violet. For example workers may need to be paid, mortgages payments made, accounts paid, cash paid on delivery, all these require money to be in a certain place at a certain time, this moves along conduits like the branches and roots of a tree. If an economy is viewed from above cash could be seen moving in people’s wallets, along bank transfers, accumulated in pools in banks and safes and would be moving in sometimes large quantities from one location to another. If money fails to be available in enough depth at one point such as to pay wages then the workers may quit, accounts not be paid, goods not delivered and this causes a domino like series of collapses in customer’s and company’s schedules. Since these money flows are like pipes the lack of money for wages is like liquidity running dry and this lack of liquidity might cause workers to not have liquidity to buy food and make mortgage payments, etc. Some of these money flows also occur randomly, for example a customer decides to buy a new car because rainy weather meant he had the day off and a car dealer has more profit to pay wages and commissions for the day, others can be waves and troughs which raise or lower the liquidity of the business and whether they can pay wages or not.

When there is a trough of money, food or other resources then the economy can turn to Roy temporarily, for example a sudden spike in food prices as it ripples over the economy can make some people steal secretly as Red or Orange Yellow, or openly and violently as Red Orange or Violet. This can also happen if the current of money, goods or services moves away from an area, for example a Violet business if it cannot average out a downturn may turn Yellow and embezzle other people’s money, like Enron did when the market became too hard to make money honestly. Indigo Violet agents might be generally honest but occasionally defraud people to make ends meet, the Indigo market as just before the great recession started to rob more people and needed more policing, the Blue Indigo unions were behind more violent protests by the left in America in the last years of the Bush administration and when a bubble formed by speculators raised the price of oil and food, and Blue workers sometimes become Red by going on welfare. Conversely Roy can turn temporarily to Biv with a wave of prosperity temporarily passing or a current coming into a Roy area.

The two strategies for dealing with waves and currents are stochastic or chaotic. In stochastic methods insurance allows people to average out waves of prosperity with troughs of scarcity where they can pay into unemployment and health insurance for when they are out of work or sick, they can save money for a rainy day, they can do favors for others and then ask for a favor when they need one, etc. In chaos people react to waves and currents by growing quickly and being competitive, and when collapses come to rebuild quickly again.

Currents can have a high momentum and thus find it hard to change direction, they can also cause random and chaotic changes in their path. A bull market in the stock market can be caused by a high pressure of money going into shares like a moving herd of wildebeest people have to go with the flow as the current can drown out other currents and waves. Often this can be because bargains in the stock market or real estate would be gone if people procrastinate, this is like a herd rushing to get to a water hole before all the water is gone. Blue Indigo and Violet are team colors and when they see others rushing to invest they instinctively do the same rather than go it alone elsewhere, they trust their numbers and influence will protect them with government influence in voting for laws to help them or bail them out, and the herd or mob mentality that the consensus view is correct. This also happens with Violet such as when companies en masse started doing business in China and Russia like a stampede into limited opportunities and a sense that their combined clout with Western governments would protect them from nationalization and unfair treatment. Violet business also stampeded into subprime bonds again with the assumption to lag behind was dangerous and that the government would bail them out, at the same time Blue Indigo people stampeded into buying homes with no documentation loans believing that it was safer to do what others were doing and that their voting power would protect them if things went wrong.

Such momentum usually leads to scarcity because it overshoots a sensible policy; it then begins to turn to Roy though from the beginning there are usually Roy criminals involved which need to be controlled by the Orange police. If policing is neglected in favor of an Indigo market approach as in America then some corporate crime and criminal misrepresentation on both sides can grow unchecked, though often people are persuaded by the apparent abundance that honest business will be more profitable. Like a herd of Red Orange wildebeest moving to greener pastures Blue Indigo people in a bull market invest in and thereby create a money bubble and like Yellow lions with plenty of food Violet business rushes into this market with little fear of loss. As resources grow scarce Blue Indigo investors become like Wildebeest in a drought, their house had to rise in value to refinance loans and like Yellow lions confronted by weakened and starving Wildebeest there is a short term killing in the market as people gamble more wildly in stocks and real estate to make up their losses.

This creates disaster for some Blue Indigo investors and others feed on their forced sales and foreclosures, meanwhile collapses in Violet subprime lenders meant opportunities for taking over their business cheaper and buying their bonds. This time of the market is still prosperous for money as there is enough food and profit from those failing to keep up with the momentum. When resources become scarcer the Roy market becomes desperate with momentum collapsing into competition like a rush for the exits in a burning building, the Red Orange investors are openly gouged as they try and sell, Violet lenders become Yellow and predatory bankrupting and foreclosing on people or offering higher interest rates on loans or mafia style loan sharking with violent retribution on those who cannot pay. The Violet lenders also start to go bankrupt themselves as they turn Yellow and the feeding on failed companies now provides little profit. Eventually the momentum can be broken where like the wildebeest not having the strength to look for water the economy grinds to a halt. Getting the economy moving again means recreating lost momentum, providing food and welfare in this situation can reinforce the benefits of not moving and the conventional wisdom of moving as a team tends to make people now do nothing as a team. Liquidity in this situation is like the saved energy and fat on the animals, this can enable them to weather the waves and troughs of luck but when this runs low the herd and its predators become insolvent which leads to catastrophe as waves of small amounts of water or food lead to stampedes just as limited food banks become overwhelmed in a recession. Troughs of further bad luck such as disease outbreaks in a herd, or in the economy another bank failure can cause a stampede away from the area.

These currents also occur with money, goods, and services, prior to the great recession a current of money poured into America mainly from China and Japan, this moved as a herd in the sense that money was invested where other money went because it had more clout and could threaten to go elsewhere. Towards the end of this bull market money became cannibalistic where it fed by buying up failed investments cheap, the next stage was where large currents of money fled around the world to various investments to be safe, like wildebeest stampeding from danger, and to make up for losses like wildebeest stampeding for food and water to replenish their reserves. Finally much of the money expired in worthless investments by Yellow predators such as shorting subprime bonds or companies or survived in liquidity traps where it was safe such as in US treasury bonds. This money now has low momentum but great depths and its inertia now makes it difficult for it to start moving again. Over time this money will venture out of these safe havens into slightly less secure areas such as high quality corporate bonds, with the emphasis still on the government providing enough Orange policing to deter more fraud and predation. Yellow financial crooks tend to go bankrupt in this phase, some who survive as Violet will be first to revive the money currents in the Biv economy while those tainted by Yellow predation will be under suspicion. Shallow liquidity areas will keep this money out because this money current may not be enough to float these parts of the economy, areas that are liquid enough to function without these money currents will be trusted for a while because money managers have fresh memories of investments collapsing when they try to get their money out.

Money, goods, and services can move in a deterministic chaotic way in Blue versus Indigo Violet as well as stochastically in Blue Indigo versus Violet. This can also have currents and waves but here it follows a cause and effect relationship rather than of independent events. These currents of money move in a similar way to water through pipes so the laws of hydraulics apply in an approximate way, in Roy money goods and services move like electricity between positive Red and negative Yellow. A current of money can move through the economy as people buy things, generally when there is a transaction money moves from the buyer to the seller and the goods or services purchased move from the seller to the buyer. Because transactions in Biv benefit both parties the seller makes a profit or loss, generally he intends to make a profit or reduction of a loss but the buyer also makes a profit or reduced loss. For example if a buyer is looking at three cars he selects the one he thinks is the best value, so he profits compared to buying the other cars. This profit or loss for both parties flows from each transaction through the roots and branches of the Biv economy in both directions, this is like sap flowing through a tree or blood flowing through an animal’s body, delivering nutrients or value and removing waste products or losses. Goods and services also flow through these roots and branches, for example food and other supplies flow to anyone in Biv who makes a transaction providing they can make it a double win for both parties. Usually people will do work providing it pays well enough and the work is useful enough to the employer.

Money flows according to a time pressure where it has to be in a certain place at a certain time, for example to pay wages on payday, for a buyer to take delivery of goods where they must usually pay cash on delivery, and where people should make loan repayments on time. If this money fails to be there then there can be chaos, for example workers might quit if not paid, customers don’t get their orders, accounts are not paid, etc. This timing and the distance money must travel gives it a velocity, the amount of money gives it a momentum because it causes people and goods to move and do work according to its amplitude and velocity. Money tends to move in pulses or pressure waves, for example workers might get paid on Fridays and so bars and nightclubs get an extra current of money on Friday nights while their wives may do extra shopping over the weekend. Accounts may need to be settled by the end of the month, so companies may receive an extra current of money before then. Snack bars may receive most of their customers at lunch time, so a current of money comes in at that time, beach resorts may receive most of their money in the summer and ski resorts in the winter, and soon.

To smooth out fluctuations in current in an electrical circuit a capacitor and resistor are used because these surges can damage electrical components. Surges of money, goods, and services can cause damage to an economy as well, for example a large group of people may be known to be visiting a town and before this business is disrupted by stockpiling goods to sell them such as food, drinks, preparing accommodation and so on. When the group arrives sales are made to them and new stocks reordered, if the time of the stay is uncertain then more motels may be constructed, crops planted, and goods imported. After they leave there is an economic slump because the extra motel rooms are not needed and may be demolished, stocks of food may be unsold and spoil, and people laid off. This is like a tidal wave where before it hits an area the water level goes down like the preparations reduced liquidity needed to buy other goods, the wave of liquidity disrupts the normal commerce and as it withdraws the damage must be repaired such as damage to motel rooms and broken plates in restaurants. This effect of a wave can be stochastic as well as chaotic, stochastic effects are where independent people and businesses are affected such as hotels independently preparing for extra guests. Chaotic effects are where a hotel orders more beer which causes more hops to be planted, which causes more fertilizer to be bought, which causes more oil to be imported to make the fertilizer. Because chaotic business is secretive and deceptive the hop farmer may plant too much assuming the extra demand will last and the fertilizer importer may have stocks he can’t sell. In Blue and Indigo Violet this growth from being over competitive can cause tipping points and collapse later, for example if the expected wave of guests doesn’t arrive such as a cancellation because of the weather then each link in this deterministic chain of beer, hops, fertilizer and oil will tend to collapse while independent effects of lower motel room use is normally averaged out by motels.

Waves in these currents are reduced by the hydraulic equivalent of capacitors and resistors, storage pools as banks and slower movements of money. A resort may build large motels which have extra rooms to house waves of guests with little disruption, large amounts of beer and food may be stored like electricity in a capacitor to handle these waves of demand without causing chaos. Banks can extend a line of credit to a business as an overdraft and a consumer with a credit card; also they allow people to save money and weather these storms of feast or famine and then repay them later. When a company receives accounts paid it deposits money into a bank to reduce an overdraft or increase savings and drawing money out in between deposits to buy stock and pay wages. A consumer banks wages and saves or pays off a credit card; this tends to smooth out the waves of money and lulls between them. A union also acts as a capacitor because they may not work hard without allowing layoffs of workers, then when there is a need for additional work to be done the workers are fully trained and available to handle the wave of work like the motel rooms handle a wave of extra guests. If companies have extra capital and credit lines in reserve then they can invest in waves of opportunities as they become available and then average out losses from keeping extra money on hand.

Resistance is also used to smooth out a current flow in conjunction with a buffer or capacitor, this is added by being slow to spend more money; people need to preserve a credit rating and can be frugal which is equivalent to not overloading a capacitor because a wave of money coming in is not quickly spent leaving someone short in between these lulls. Companies may have extra purchases approved by an accountant that takes time to arrange and is like a resistance to new costs, also cash flow might be graphed and monitored because in deterministic flows there is a tendency to costs to grow and cause a collapse. Destructive waves in Indigo such as the stock market are reduced by circuit breakers where if stocks rise or fall too much in a time period they can be temporarily suspended, this is protecting against stochastic waves where many investors would be hurt independently and chaotic waves where an investor may face margin calls and a collapse of his leveraged investment from a sudden wave of selling or buying of stocks.

A money bubble can have stochastic and chaotic components, people sense the momentum of money flowing into it and that it would be hard to reverse, this is like a herd of wildebeest that has a momentum that is hard to turn around. If the front of the herd gets stuck such as in trying to cross a river then reversing course is hard because of the pressure of the herd behind them, in the same way a money bubble has a momentum of growth and even when people in an investment company see danger of collapse the pressure of others in the company to keep going can outvote them. This can be stochastic in that employees might see this danger and short the market in one part of the investment company while other parts continue to go long. It can be chaotic as well, for example part of an investment company decides not to underwrite subprime bonds anymore because they saw the rising numbers of foreclosures of homes prior to the great recession, this has the effect of their sales staff not having bonds to sell and losing commission and the company losing profits, management forces the buyers to underwrite more subprime bonds to avoid collapse in the sales force.

Money currents can also be self-reinforcing like feedback in electrical circuits, in the lead up to the great recession sales of houses led to price rises from the increasing amounts of easy credit available, this caused loans to be repaid even from poor credit risks because the value of homes kept rising from the demand. This appeared as feedback to the lenders who increased the funds available, loans were securitized and as the payments were made on them this money was ploughed back into buying more bonds so few people actually took money out of the market before it collapsed. Some investors bought a home which appreciated in value and reinvested their profits in more and more properties; most of these investors lost everything when the market collapsed. Feedback is an important part of chaos, the reinvestment of profits is mistaken for more money coming into the bubble rather than much of the same money being churned into different deals. This feedback often occurs from the secretive and deceptive nature of these chaotic systems where people losing money may lie about it, like a multi-level marketing scheme people benefit in the short term by giving positive feedback to each other. It can become like a Ponzi scheme except that while most of the investors know they are being deceptive they don’t realize that so many other investors are also deceiving them. Many speculative bubbles are like Ponzi schemes because there is not enough money available if everyone wanted to sell, this is like a company being insolvent as the debts of the bubble or the prices people will sell for are above the assets or the money people are willing or able to pay. Investing in an insolvent company is only justified if the share prices of the company will rise for some reason, which people believe in less as the debts of the company become known. Many of the businesses associated with the subprime bubble collapsed or barely survived with large debts such as Bear Stearns, Lehman, UBS, and Deutsche Bank, where everyone had an incentive to be deceptive to each other about bad news because it might scare off customers.

Blue versus Indigo Violet pump money through the economy and this pressure can create pulses or pressure waves of money like voltage in electrical circuits. Pumping is an important part of inflating a bubble because a pressure in it develops for the money to escape like an over inflated balloon, this can be where investors become nervous or want to use the money elsewhere. It is usually where people or companies decide a certain amount of money must go in a certain direction, for example someone sells a house for a profit and decides to buy two more, a company budgets a certain amount for renovations and new equipment, a pension fund decides to buy some stocks and so on. Normally this pumping does not produce a bubble for example people usually have to buy groceries each week but this money pumped into supermarkets does not drive up prices, a bubble is like an aneurism in a blood vessel where these pipes of money bulge and this makes it appear as if the money is going somewhere. For example a supermarket cannot usually take more than a certain amount of money because groceries will become sold out and increased demand for groceries can usually be met from warehouses.

With a limited supply the money being pumped into an area of the economy becomes concentrated, for example with limited housing available and an influx of workers looking to rent causes a bidding war and rents to rise in an employment and money bubble. Workers might rush in to rent in the fear they could miss out and investors pay more for homes because of the increased return. The pressure of money and worker numbers here comes up against a limited pipe size and forces it to expand, the equivalent of forcing rents to go up and a balloon expanding. Rent controls as in New York would be one way to fight this bubble expanding; the pressure to outbid each other would be contained by a counter pressure from the government not to raise rents which holds down real estate values so housing doesn’t become much more expensive to build.

A pump consists of a valve or diode plus a means to create a current, in electrical circuits a diode stops the current flowing the wrong way like a valve does. A diode can be used with an electric motor or battery , a Biv economy can have an economic motor such as a big company building cars to sell elsewhere, a mine pumps wages into a local economy, a market buys up food grown in an area by farmers pumping money into these farms, etc. In a Biv economy most transactions are also one way, when a person buys something he usually cannot return it unless it is faulty or deceptively sold. This causes money to be pumped in one direction, if valves fail then it can flow in reverse such as auctioneers of subprime bonds in the great recession demanding their money back because of fraud. Transistors in electrical circuitry transform a small variation in a current into a larger one, amplifying a signal can also occur in Biv hydraulics with leverage. For example a company might be able to buy and sell much more with investors or a large loan, changes in stock market prices might be amplified by buying stock options or borrowing against them, a person might be able to buy a better car or buy one earlier by getting finance. This leverage can fuel money currents by pumping more money in a desired direction and with more pressure can come more of a chance of a money bubble. Governments have a checkered history in regulating chaotic markets because they are secretive and deceptive, they can pump money into an economy in a recession, too much creates a bubble everywhere which is inflation, if localized it causes rises in a business sector or area such as public works and earmarks in a town bringing in wages and allowing people to buy homes for higher prices, tax cuts allow more money to flow into an area such as accelerated depreciation of equipment leading to sales at less discounted prices, lower interest rates allowing people to pay more for homes causing prices to rise, a budget in deficit pumps more money through the economy, and so on.

In Roy money refers to Green instead of Green Blue and so is publicly owned instead of private. Generally money, goods, and services need not change hands in a deal that benefits both parties, they can be forcibly taken from people as in theft or as tax for government expenditure in a negative sum game. Yellow thieves might steal or Yellow dictators tax from Red Orange to fund organized crime or a fascist government. Red Orange gangs might steal from a Yellow mafia; Red Orange freedom fighters might raid Yellow dictators for arms and resources such as in Africa battling over gold and diamond mines. Red Orange versus Yellow is random and Red versus Orange Yellow is chaotic as with the corresponding colors in Biv, here the forces involved are like electricity. This is because Yellow and Red are opposites, Yellow is negative and Red is positive but in Biv the two forces of acceleration as Violet and gravity as Blue are not opposites but work together.

Biv works on power because whoever is more powerful dominates; they become more powerful in effect by taking energy, money, food, possessions, etc from weaker people or compel them to do things. In the animal food chain a Yellow lion takes the accumulated energy in a Red gazelle by eating it just as people take energy out of food. Roy is a negative sum game where the victor must expend energy to get more energy, for example a lion must use up energy to catch prey and get energy back from eating them, if it failed then this exertion of energy sometimes makes it too weak and other Orange Yellow animals such as hyenas and Yellow such as cheetahs and leopards would eat the lion and take its energy. In politics this power struggle is the same where those more powerful must take from the weak to stay strong and each transaction instead of having two winners has two losers, one losing less than the other. This was seen in world war one where Germany as Yellow fought Red Orange France and Britain, both sides were nearly ruined by the cost of the war in money and lives, and the Allies made no profit from victory compared to the situation before the war. A lion makes no profit from being a predator though it avoids a worse outcome of starvation, so in Roy the goal is the lesser of two evils. This is seen in the prisoner’s dilemma where a prisoner must decide to confess and receive a small prison sentence or his accomplice may confess first and leave him with a bigger prison sentence. Since both outcomes are prison they are both losses, the prisoners can only reduce how big a loss it is.

As in Biv Red Orange versus Yellow is stochastic and who wins depends on random chance such as between a pack of wolves and a herd of buffaloes, these are analogous to currents as in Biv except here they are electrical currents and however wins is determined by subtracting the energy of the winner from the loser just as an electrical current is positive minus negative or in mathematics where a value might also be a positive number minus a negative number. For example if lions wear out a group of buffaloes enough to kill one before they are exhausted then they had more negative energy than the buffalo had positive energy. Which is negative and which is positive might be seen as arbitrary because the important point here is they are opposites, however Yellow generally acts in a negative way such as in arguments and the very nature of predation. If Red Orange freedom fighters have more guns, food, and soldiers than a Yellow authoritarian government and bring it down then they had more positive energy. It is also possible to calculate actual energy expended versus taken, for example a pride of lions may expend a certain amount of energy in overcoming a cornered buffalo and eat a greater or lesser amount of food to get energy to compensate for this. Regarding these as positive and negative energy makes it easier to calculate what happens in Roy, this can be exact as in the energy gained from a slain buffalo in kilograms of meat versus the calories lost in chasing the buffalo. It might also be calculated in terms of money or goods stolen from a Red Orange gang by a Yellow gang such as cash, guns, or drugs taken. It might also be Yellow soldiers injured or killed by a Red Orange terrorist attack versus Red Orange casualties, the value of Red crops burned by Orange Yellow agents causing sabotage, and so on.

Red versus Orange Yellow is chaotic like Blue versus Indigo Violet, effects follow causes and chance plays no role. Orange Yellow is negative and Red is positive, so for example if an Orange Yellow thief robbed Red secretly of $400 than that would be a negative $400 transaction, an Orange Yellow fox catching a Red rabbit would result in a negative energy transaction of the energy from the meat versus the amount expended in catching it. In war Red terrorists such as Al Qaeda might fight a secretive and deceptive battle against Orange Yellow Western intelligence agencies such as the CIA, if Al Qaeda confuses the CIA with misinformation it gains positive energy, if the CIA kill or capture one of their men it would be a gain of negative energy. The two interactions in Roy, Red versus Orange Yellow and Red Orange versus Yellow can be summed according to positive and negative energies, this is like in Biv where the double win in transactions means each parties ideally gains something from a deal. Instead of saying that in Roy a transaction has a winner and loser, applying positive ad negatives to the outcomes allows an overall balance of gains and losses to be determined. For example in nature Yellow lions gain negative energy when they kill their prey minus the energy expended in catching it while Red animals gain positive energy from eating plants and lose some to negative energy when some of them get killed or expend energy in escaping. Red would usually lose more energy against Yellow in escaping rather than being caught, because they are faster than lions and can scatter. Against Orange Yellow they are more vulnerable because they can be deceived by a stealthy approach, so they might lose more energy to Orange Yellow from being killed than from the times they survived by running away.

Red Orange animals also gain energy from eating plants but cannot outrun lions so they lose energy from fighting off Yellow in a war of attrition and exhaustion until the lions give up, or they lose from being killed if the lions exhaust a buffalo. Sometimes they succeed in killing a lion which loses all its energy or wounding it with their horns which inflicts an energy loss as it must devote energy to healing. Orange Yellow predators like wild dogs in Africa attacking a herd of Red Orange buffalo might only succeed if they deceptively get a calf or sick buffalo, so they lose energy not from a battle of exhaustion but of one being deceptively killed.

In the same way a conflict such as world war one can be scored in positive and negative terms, Yellow and Orange Yellow being the central powers, Serbia being Red and making a deceptive strike in assassinating the Yellow Arch Duke Ferdinand, this provoked a response by Yellow Germany and Austria after which the Allies formed a Red Orange defensive formation. Gains by the Austrians and Germans were negative and by Britain, France, and Russia positive so at each point in the battles as in nature a transaction of predator and prey had a positive or negative outcome in the overall negative sum game. In a marginal society there would be similar positive and negative outcomes such as negative for a successful Yellow robbery and positive for Red Orange beating off an assailant. Overall this balance of positive and negative would indicate to the Orange police if crime is winning or losing.

In the economy Roy money, goods, and services can also move in this negative sum game. This can be seen in taxation where money is taken from one group such as Yellow and given to Red in communism, this would be a positive distribution while the opposite would be negative. In the economy money can move as currents, this can be viewed electrically as positive and negative currents which when they encounter each other like in war will partially cancel each other out and usually leave a positive or negative amount left. In the money bubble there can be a current of money going into it which can be Violet as acceleration and Blue as gravity, for example in the trickle-down theory of economics this would be gravity where money trickled down like saps trickles under gravity in a tree into no documentation loans which fuelled the real estate bubble for cheap housing prior to the great recession. At the same time there was a Violet bubble where money rushed into speculative investments like art, subprime mortgage bonds of money that had trickled down into the Blue real estate boom and then back up by making bonds and loans being repaid, the tech stock market in the late 1990s, and the oil speculative bubble in the great recession. In addition to this there was Roy crime where transactions were not intended to be a double win in positive sum games but of predator and prey in negative sum games.

For example the stock market experienced naked short selling which is like a Yellow versus Red Orange battle as a war of attrition, Yellow short sellers use up money to drive down the price of a stock like a pride of lions uses up energy exhausting some buffaloes. This shorting costs money because other stock buyers or the company can fight this by buying stock hoping to make the short sellers run out of money like the buffalo trying to exhaust the lions. So far it is a negative sum game, both sides have lost money and the company cannot borrow because its stock price is now too low and others fear being attacked by the short sellers. It is also restricted in doing business like Red Orange animals under attack find it hard to feed and catch their breath, and also to get support from the others in the herd. If the short sellers become financially exhausted they must give up, they could also use greenmail to be paid off to some degree, this is like a herd allowing one of them to be killed so the others can escape.

A Ponzi scheme can also be a negative sum game because in the long run the Orange Yellow conmen must fail as they only stave off bankruptcy by getting in new funds by deception. The new investors will likely also lose their money though it depends on whether they can sell out before the Ponzi scheme implodes. Many bubbles in the economy are part Roy and part Biv, money is drawn into an investment such as real estate which gives a double win because building more houses creates economic prosperity. If the bubble gets too large then it becomes a negative sum game where everyone will eventually lose unless they get out early enough because money becomes scarce and Roy economics take over in scarcity, in the Red versus Orange Yellow deceptive part the investments will collapse like dominoes in chaos like Orange Yellow Bear Stearns caused Lehman to fail, in the Red Orange versus Yellow part the investments will collapse as money is exhausted like Yellow banks failing and being taken over by the FDIC insurance in America.

These color codes can allow maps of economic activities to be displayed and then updating them can show parts of the economy operating, this will be shown in the next book. For example in the real estate bubble prior to the great recession each transaction of a credit default map, collateralized debt obligation, derivative, stock sale or purchase, and real estate sale or purchase could be represented by a color code according to who benefitted from it. A Roy transaction such as a successful short which bankrupts a company or allows it to be taken over would be more Yellow and if the company won this would be more Red Orange. A Ponzi scheme would appear as between Orange Yellow and Red, if the investors won it would be Red and if both lost equally then it would be more Orange. BCCI as a criminal bank encompassed most of these Roy interactions because it eventually imploded after losing money on most of its deals; it existed in Green outside normal regulatory laws and territorial borders. As a Ponzi scheme when BCCI collapsed it hurt many poor depositors in Africa which would be negative Yellow as Red people mainly lost there. In other parts Yellow dictators lost money so this would also be a Red Orange result and in some cases interlocking Ponzi schemes resulted in Orange Yellow interactions like foxes stalking each other, with mutual deception any might have imploded first. In some cases BCCI donated to charity which would be Red. In other Roy transactions subprime bonds represented a kind of Ponzi scheme often without anyone realizing it because so many were deceitful but could not see how deceitful the whole bubble was. For example individuals taking out no documentation loans often knew they would fail to repay loans unless they continued to be able to buy and sell at a profit so millions of their individual Ponzi schemes added up the a larger one. Many of those agents assembling tranches of subprime bonds knew the underlying loans were destined to fail but as long as they kept securitizing more bonds then their individual Indigo Violet Ponzi scheme would continue, these also added up into a larger Ponzi scheme and in conjunction with the Blue Ponzi created an overall bubble.

Colors of these transactions would also be a mix of Red and Yellow in a negative sum game according to who lost more on each individual bond. Other bonds did not fail and were Biv, the loans were mostly repaid and the bond sold as a legitimate investment as a mix of Indigo Violet and Blue according to which side profited the most from each transaction. Yellow plundering in a marginal society can create a bubble where instead of the money accumulating voluntarily in a positive sum game this manipulation of the market creates a glut of profits such as with hedge funds and investment banks prior to the great recession. This money was paid out in high wages, bonuses, stock options, etc and was like Violet investors becoming wealthy in the associated Biv bubble. Much of this plunder was open and from the aggressive shorts and market manipulation of Goldman Sachs for example, Orange Yellow plunder also created a bubble where so many people became wealthy from deceitfully forming subprime bonds, selling them and also for shorting them. Blue Indigo unions can also plunder an economy and create a bubble with wildcat strikes to drive up wages, leading to companies being held to ransom and extra money for unionists which they spend to drive up prices in their neighborhood. Blue people in the secretive and deceptive black market can create a bubble of secret money earned by tradesmen in a time of lax tax enforcement which they then spend and increase prices.

Services can also be bubbles in Roy and Biv where workers can come to an area looking for employment as a double win in Biv, in Roy this can be slavery, serfdom, conscription, and so on. As with money and goods, labor can be controlled in Roy by whoever has the most power. Military conscription is Roy where people are paid but are compelled to serve, in Biv people voluntarily sign up for military service. If war becomes a sufficiently negative sum game then people in a Biv country might have to be conscripted to match the conscription of soldiers in a Roy enemy.

Resumption of private property changes it from Green Blue to Green public property and pays people compensation in a marginal society, in a Roy society the property might be seized without compensation or given to others. Resistance in a Roy society to plundering, tax, slavery, etc is like electrical resistance to the powerful, this is also like friction in Biv where people might reluctantly do deals that are not good but the best available or strikers resist low wage offers in a wages negotiation. For example if only poorly paid work is available there can be friction between Blue workers and Violet management, arguments, working slowly and carelessly, etc.

In Roy passive resistance can be where Red Orange people avoid cooperation as Ghandi advocated instead of Red Orange violent resistance. Red Orange Russia after the Communists took power encountered resistance from the white Russians or Yellow military and loyalists of the Czar, there were many violent battles in a war of attrition. Orange Yellow resistance both real and imagined was attacked by Stalin in purges of the Army and Communist Party, in Yellow countries such as Germany after the Great War there was open Red Orange resistance from Communists in street battles. In occupying France there was Red Orange resistance from the population that sabotaged some installations, avoided cooperating with the Nazis, and so on. Roy power can also be highly leveraged as in Biv, this is like the transistor where a Yellow dictator can dominate a society with few actual troops and this can be vulnerable to collapse with determined Red Orange resistance. For example the mafia might control large parts of an economy with intimidation because individuals are afraid of going up against Yellow organized criminals and survival is more likely with running and hiding. Red economies such as the new communist Russia held power initially with few troops, their shows of force made Orange Yellow former parts of the Czar’s government also run and hide.

# About the Author

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1. <http://en.wikipedia.org/wiki/Antipredator_adaptation> [↑](#endnote-ref-1)
2. <http://en.wikipedia.org/wiki/Frill-necked_Lizard> [↑](#endnote-ref-2)
3. <http://en.wikipedia.org/wiki/Meerkat> [↑](#endnote-ref-3)
4. <http://en.wikipedia.org/wiki/Paranoia> [↑](#endnote-ref-4)
5. <http://en.wikipedia.org/wiki/Chronology_of_Soviet_secret_police_agencies> [↑](#endnote-ref-5)
6. <http://en.wikipedia.org/wiki/Wolf_in_sheep%27s_clothing> [↑](#endnote-ref-6)
7. <http://www.youtube.com/watch?v=IOwinLWrEIw&feature=channel> [↑](#endnote-ref-7)
8. <http://en.wikipedia.org/wiki/Malthusian_catastrophe>

   “A **Malthusian catastrophe** (also phrased **Malthusian check**, **Malthusian crisis**, **Malthusian disaster**, or **Malthusian nightmare**) was originally foreseen to be a forced return to [subsistence](http://en.wikipedia.org/wiki/Subsistence)-level conditions once [population growth](http://en.wikipedia.org/wiki/Population_growth) had outpaced [agricultural](http://en.wikipedia.org/wiki/Agriculture) [production](http://en.wikipedia.org/wiki/Production,_costs,_and_pricing). Later formulations consider [economic](http://en.wikipedia.org/wiki/Economics) growth limits as well. The term is also commonly used in discussions of [oil depletion](http://en.wikipedia.org/wiki/Oil_depletion). Based on the work of political economist [Thomas Malthus](http://en.wikipedia.org/wiki/Thomas_Malthus) (1766–1834), theories of Malthusian catastrophe are very similar to the [Iron Law of Wages](http://en.wikipedia.org/wiki/Iron_Law_of_Wages). The main difference is that the Malthusian theories predict what will happen over several generations or centuries, whereas the Iron Law of Wages predicts what will happen in a matter of years and decades.” [↑](#endnote-ref-8)
9. <http://en.wikipedia.org/wiki/Tipping_point_%28sociology%29>

   “The phrase has extended beyond its original meaning and been applied to any process in which, beyond a certain point, the rate at which the process proceeds increases dramatically. It has been applied in many fields, from [economics](http://en.wikipedia.org/wiki/Economics) to [human ecology](http://en.wikipedia.org/wiki/Human_ecology)[[1]](http://en.wikipedia.org/wiki/Tipping_point_%28sociology%29#cite_note-0) to [epidemiology](http://en.wikipedia.org/wiki/Epidemiology). It can also be compared to [phase transition](http://en.wikipedia.org/wiki/Phase_transition) in [physics](http://en.wikipedia.org/wiki/Physics) or the propagation of populations in an unbalanced [ecosystem](http://en.wikipedia.org/wiki/Ecosystem).

   [Mathematically](http://en.wikipedia.org/wiki/Mathematics), the angle of repose may be seen as a [bifurcation](http://en.wikipedia.org/wiki/Bifurcation_theory). In [control theory](http://en.wikipedia.org/wiki/Control_theory), the concept of [positive feedback](http://en.wikipedia.org/wiki/Positive_feedback) describes the same phenomenon, with the problem of balancing an [inverted pendulum](http://en.wikipedia.org/wiki/Inverted_pendulum) being the classic embodiment. The concept has also been applied to the popular acceptance of new technologies, for example being used to explain the success of [VHS](http://en.wikipedia.org/wiki/VHS) over [Betamax](http://en.wikipedia.org/wiki/Betamax).” [↑](#endnote-ref-9)
10. <http://en.wikipedia.org/wiki/Overpopulation> [↑](#endnote-ref-10)
11. <http://en.wikipedia.org/wiki/Stalin#Purges_and_deportations> [↑](#endnote-ref-11)
12. <http://en.wikipedia.org/wiki/Chaos_theory>

    “**Chaos theory** is a field of study in [mathematics](http://en.wikipedia.org/wiki/Mathematics), [physics](http://en.wikipedia.org/wiki/Physics), [economics](http://en.wikipedia.org/wiki/Economics) and [philosophy](http://en.wikipedia.org/wiki/Philosophy) studying the behavior of [dynamical systems](http://en.wikipedia.org/wiki/Dynamical_system_%28definition%29) that are highly sensitive to initial conditions. This sensitivity is popularly referred to as the [butterfly effect](http://en.wikipedia.org/wiki/Butterfly_effect). Small differences in initial conditions (such as those due to rounding errors in numerical computation) yield widely diverging outcomes for chaotic systems, rendering long-term prediction impossible in general.[[1]](http://en.wikipedia.org/wiki/Chaos_theory#cite_note-0) This happens even though these systems are [deterministic](http://en.wikipedia.org/wiki/Deterministic_system_%28mathematics%29), meaning that their future behaviour is fully determined by their initial conditions, with no [random](http://en.wikipedia.org/wiki/Randomness) elements involved.[[2]](http://en.wikipedia.org/wiki/Chaos_theory#cite_note-1) In other words, the deterministic nature of these systems does not make them predictable.[[3]](http://en.wikipedia.org/wiki/Chaos_theory#cite_note-2) This behavior is known as deterministic chaos, or simply [*chaos*](http://en.wikipedia.org/wiki/Chaos). Chaotic behavior can be observed in many natural systems, such as the weather.[[4]](http://en.wikipedia.org/wiki/Chaos_theory#cite_note-Sneyers-3) “ [↑](#endnote-ref-12)
13. <http://icb.oxfordjournals.org/content/41/1/90.full> [↑](#endnote-ref-13)
14. <http://en.wikipedia.org/wiki/Mutation> [↑](#endnote-ref-14)
15. <http://en.wikipedia.org/wiki/Punctuated_equilibrium>

    “**Punctuated equilibrium** is a [theory](http://en.wikipedia.org/wiki/Theory) in [evolutionary biology](http://en.wikipedia.org/wiki/Evolution) which proposes that most [sexually reproducing](http://en.wikipedia.org/wiki/Sexual_reproduction) [species](http://en.wikipedia.org/wiki/Species) will experience little evolutionary change for most of their geological history, remaining in an extended state called *stasis*. When evolution occurs, it is localized in rare, rapid events of branching speciation, called [cladogenesis](http://en.wikipedia.org/wiki/Cladogenesis). Cladogenesis is the process by which species split into two distinct species, rather than one species gradually transforming into another. Thus, "punctuated equilibria is a model for discontinuous tempos of change (in) the process of speciation and the deployment of species in geological time."[[1]](http://en.wikipedia.org/wiki/Punctuated_equilibrium#cite_note-Gould.26Eldredge1977-0)

    Punctuated equilibrium is commonly contrasted against the theory of [phyletic gradualism](http://en.wikipedia.org/wiki/Phyletic_gradualism), which states that evolution generally occurs uniformly and by the steady and gradual transformation of whole lineages ([anagenesis](http://en.wikipedia.org/wiki/Anagenesis)). In this view, evolution is seen as generally smooth and continuous.” [↑](#endnote-ref-15)
16. <http://en.wikipedia.org/wiki/Sexy_son_hypothesis>

    “The **sexy son hypothesis** is a [hypothesis](http://en.wikipedia.org/wiki/Hypothesis) from [evolutionary biology](http://en.wikipedia.org/wiki/Evolutionary_biology) that was proposed by [P. J. Weatherhead](http://en.wikipedia.org/w/index.php?title=P._J._Weatherhead&action=edit&redlink=1) and [R. J. Robertson](http://en.wikipedia.org/w/index.php?title=R._J._Robertson&action=edit&redlink=1) in 1979.[[1]](http://en.wikipedia.org/wiki/Sexy_son_hypothesis#cite_note-0) It posits that a [female](http://en.wikipedia.org/wiki/Female) animal's optimal choice among potential [mates](http://en.wikipedia.org/wiki/Mate) is a male whose genes will produce male [offspring](http://en.wikipedia.org/wiki/Offspring) with the best chance of [reproductive success](http://en.wikipedia.org/wiki/Reproductive_success). In particular, the sexy son hypothesis implies that a potential [mate](http://en.wikipedia.org/wiki/Mating)'s capacity as a [caregiver](http://en.wikipedia.org/wiki/Parental_care) or any other direct benefits the male can offer the female (eg. nuptial gifts, good [territory](http://en.wikipedia.org/wiki/Territory_%28animal%29)) are irrelevant to his value as potential father of the female's offspring.

    In his book [*The Selfish Gene*](http://en.wikipedia.org/wiki/The_Selfish_Gene), [Richard Dawkins](http://en.wikipedia.org/wiki/Richard_Dawkins) wrote:

    In a society where males compete with each other to be chosen as he-men by females, one of the best things a mother can do for her genes is to make a son who will turn out in his turn to be an attractive he-man. If she can ensure that her son is one of the fortunate few males who wins most of the copulations in the society when he grows up, she will have an enormous number of grandchildren. The result of this is that one of the most desirable qualities a male can have in the eyes of a female is, quite simply, sexual attractiveness itself.[[2]](http://en.wikipedia.org/wiki/Sexy_son_hypothesis#cite_note-1)

    The idea is that if females choose "attractive" males, they will get "attractive" sons, and thus more grandchildren, because choosy females will prefer the "attractive" sons. Interesting is the fact that the theory will work with any trait that females choose, as long as it is heritable, as choosing the trait makes males attractive, and not the trait in itself. It also follows that traits culturally perceived as negative can still be seen as desirable, for example why females stay with or are attracted to males they know to be disloyal in a monogamous relationship: If this trait is passed to any male children, they are more likely to themselves be non-monogamous, have several mates and spread the female's genes to multiple grandchildren. The sexy son hypothesis is one of several possible explanations for the highly diverse and often astonishing ornaments of animals.[[*citation needed*](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed)]

    The sexy son hypothesis has been suggested as the origin of some aspects of [human sexual behavior](http://en.wikipedia.org/wiki/Human_sexual_behavior). In particular, it has been shown that human females are more attracted to traditionally [masculine](http://en.wikipedia.org/wiki/Masculinity) men ("cads") during the most [fertile](http://en.wikipedia.org/wiki/Fertility) times of their [menstrual cycles](http://en.wikipedia.org/wiki/Menstrual_cycle), and more attracted to relatively [feminine](http://en.wikipedia.org/wiki/Femininity) men ("dads") during the remainder of the cycle. However, the methodology of these claims is disputed.[[3]](http://en.wikipedia.org/wiki/Sexy_son_hypothesis#cite_note-2) These observations have led to the conclusion that [infidelity](http://en.wikipedia.org/wiki/Infidelity) is a natural occurrence in women, and [evolutionarily](http://en.wikipedia.org/wiki/Evolution) advantageous, on the grounds that it will enable them to secure both the best [genes](http://en.wikipedia.org/wiki/Human_genome) and the best caregiver for their offspring.[[4]](http://en.wikipedia.org/wiki/Sexy_son_hypothesis#cite_note-3)[[5]](http://en.wikipedia.org/wiki/Sexy_son_hypothesis#cite_note-4)” [↑](#endnote-ref-16)
17. <http://en.wikipedia.org/wiki/Dominant_genes> [↑](#endnote-ref-17)
18. <http://en.wikipedia.org/wiki/Epigenetics> [↑](#endnote-ref-18)
19. <http://en.wikipedia.org/wiki/Sexual_selection>

    “**Sexual selection** is the [theory](http://en.wikipedia.org/wiki/Theory) proposed by [Charles Darwin](http://en.wikipedia.org/wiki/Charles_Darwin) that states that certain evolutionary traits can be explained by [intraspecific competition](http://en.wikipedia.org/wiki/Intraspecific_competition). Darwin defined sexual selection as the effects of the "struggle between the individuals of one sex, generally the males, for the possession of the other sex".[[1]](http://en.wikipedia.org/wiki/Sexual_selection#cite_note-0) [Biologists](http://en.wikipedia.org/wiki/Biology) today distinguish between "male to male combat" or "Intrasexual Selection" (it is usually males who fight each other), "mate choice" or "Intersexual Selection" (usually female choice of male mates)[[2]](http://en.wikipedia.org/wiki/Sexual_selection" \l "cite_note-1) and [sexual conflict](http://en.wikipedia.org/wiki/Sexual_conflict). Traits selected by male combat are called secondary sexual characteristics (including horns, antlers, etc.) and sometimes referred to as "weapons"; and traits selected by mate choice are called "ornaments". Much attention has been given to *cryptic* female choice,[[3]](http://en.wikipedia.org/wiki/Sexual_selection" \l "cite_note-2) a phenomenon in internally fertilising animals such as mammals and birds, where a female will get rid of a male's [sperm](http://en.wikipedia.org/wiki/Sperm) without his knowledge. The equivalent in male-to-male combat is [sperm competition](http://en.wikipedia.org/wiki/Sperm_competition).

    Females often prefer to mate with males with external ornaments, exaggerated features of morphology. These preferences may arise when an arbitrary female preference for some aspect of male morphology—initially increased by [genetic drift](http://en.wikipedia.org/wiki/Genetic_drift)—creates, in due course, selection for males with the appropriate ornament. This is known as the [sexy son hypothesis](http://en.wikipedia.org/wiki/Sexy_son_hypothesis). Alternatively, genes that enable males to develop impressive ornaments or fighting ability may simply show off greater [disease resistance](http://en.wikipedia.org/wiki/Immune_system) or a more efficient [metabolism](http://en.wikipedia.org/wiki/Metabolism), features that also benefit females. This idea is known as the good genes hypothesis.” [↑](#endnote-ref-19)
20. <http://en.wikipedia.org/wiki/Deviant_behavior>

    “Norms are specific behavioral standards, ways in which people are supposed to act, paradigms for predictable behavior in society. They are not necessarily moral, or even grounded in morality; in fact, they are just as often pragmatic and, paradoxically, irrational. (A great many of what we call manners, having no logical grounds, would make for good examples here.) Norms are rules of conduct, not neutral or universal, but ever changing; shifting as society shifts; mutable, emergent, loose, reflective of inherent biases and interests, and highly selfish and one-sided. They vary from class to class, and in the generational "gap." They are, in other words, contextual.

    Deviance can be described as a violation of these norms. Deviance is a failure to conform with culturally reinforced norms. This definition can be interpreted in many different ways. Social norms are different in one culture as opposed to another. For example, a deviant act can be committed in one society or culture that breaks a social norm there, but may be considered normal for another culture and society. Some acts of deviance may be criminal acts, but also, according to the society or culture, deviance can be strictly breaking social norms that are intact.

    Viewing deviance as a violation of social norms, sociologists have characterized it as "any thought, feeling or action that members of a social group judge to be a violation of their values or rules";[[1]](http://en.wikipedia.org/wiki/Deviant_behavior#cite_note-0) "violation of the norms of a society or group";[[2]](http://en.wikipedia.org/wiki/Deviant_behavior#cite_note-1) "conduct that violates definitions of appropriate and inappropriate conduct shared by the members of a social system";[[3]](http://en.wikipedia.org/wiki/Deviant_behavior#cite_note-2) "the departure of certain types of behavior from the norms of a particular society at a particular time";[[4]](http://en.wikipedia.org/wiki/Deviant_behavior#cite_note-3) and "violation of certain types of group norms [... where] behavior is in a disapproved direction and of sufficient degree to exceed the tolerance limit of the community."[[5]](http://en.wikipedia.org/wiki/Deviant_behavior#cite_note-4) [↑](#endnote-ref-20)
21. <http://en.wikipedia.org/wiki/Normal_distribution>

    “The normal distribution is often used to describe, at least approximately, any [variable](http://en.wikipedia.org/wiki/Random_variable) that tends to cluster around the mean. For example, the heights of adult males in the United States are roughly normally distributed, with a mean of about 70 inches (1.8 m). Most men have a height close to the mean, though a small number of [outliers](http://en.wikipedia.org/wiki/Outlier) have a height significantly above or below the mean. A [histogram](http://en.wikipedia.org/wiki/Histogram) of male heights will appear similar to a bell curve, with the correspondence becoming closer if more data are used.” [↑](#endnote-ref-21)
22. <http://animals.nationalgeographic.com/animals/mammals/gazelle/> [↑](#endnote-ref-22)
23. <http://www.youtube.com/watch?v=r8ZHJZFIAAg> [↑](#endnote-ref-23)
24. <http://www.youtube.com/watch?v=LU8DDYz68kM> [↑](#endnote-ref-24)
25. <http://www.youtube.com/watch?v=po-Gn6VS4eM&feature=related> [↑](#endnote-ref-25)
26. <http://en.wikipedia.org/wiki/Cat_and_mouse>

    “**Cat and mouse**, often expressed as **cat-and-mouse game**, is an English-language idiom dating back to 1675 that means "a contrived action involving constant pursuit, near captures, and repeated escapes."[[1]](http://en.wikipedia.org/wiki/Cat_and_mouse#cite_note-mw-0) The "cat" is unable to secure a definitive victory over the "mouse", who despite not being able to defeat the cat, is able to avoid capture. In extreme cases, the idiom may imply that the contest is never-ending.

    In colloquial usage it has often been generalized (or corrupted) to mean simply that the advantage constantly shifts between the contestants, leading to an [impasse](http://en.wikipedia.org/wiki/Impasse) or [*de facto*](http://en.wikipedia.org/wiki/De_facto) stalemate.” [↑](#endnote-ref-26)
27. <http://www.outtoafrica.nl/animals/engthomsonsgazelle.html> [↑](#endnote-ref-27)
28. <http://www.youtube.com/watch?v=CC2UQKAF29Y&feature=related> [↑](#endnote-ref-28)
29. <http://www.youtube.com/watch?v=cZUBC1SSWN8&feature=related> [↑](#endnote-ref-29)
30. <http://www.youtube.com/watch?v=X-uuVydQ-qY> [↑](#endnote-ref-30)
31. <http://www.youtube.com/watch?v=64gVARjZM-0&feature=related> [↑](#endnote-ref-31)
32. <http://en.wikipedia.org/wiki/Genetic_drift#Founder_effect> [↑](#endnote-ref-32)
33. <http://www.youtube.com/watch?v=s19o4QtG-LY> [↑](#endnote-ref-33)
34. <http://www.youtube.com/watch?v=r8ZHJZFIAAg> [↑](#endnote-ref-34)
35. <http://www.youtube.com/watch?v=3HlL2R4cQao> [↑](#endnote-ref-35)
36. <http://www.youtube.com/watch?v=4flKUKHochQ&NR=1> [↑](#endnote-ref-36)
37. <http://www.youtube.com/watch?v=UF6zE21Pzd4> [↑](#endnote-ref-37)
38. <http://www.youtube.com/watch?v=B0ruKhhbISc> [↑](#endnote-ref-38)
39. <http://www.youtube.com/watch?v=GmLYGzlPLj0> [↑](#endnote-ref-39)
40. <http://www.youtube.com/watch?v=pNnx_X5ue2c&feature=related> [↑](#endnote-ref-40)
41. <http://en.wikipedia.org/wiki/Emperor_Penguin#Predators>

    “The Emperor Penguin's predators include birds and aquatic mammals; the [Southern Giant Petrel](http://en.wikipedia.org/wiki/Southern_Giant_Petrel) (*Macronectes giganteus*) is the predominant avian predator, responsible for up to 34% of chick deaths in some colonies. The [South Polar Skua](http://en.wikipedia.org/wiki/South_Polar_Skua) (*Stercorarius maccormicki*) mainly scavenges for dead chicks, as the live chicks are too large to be attacked by the time of its annual arrival in the colony.[[48]](http://en.wikipedia.org/wiki/Emperor_Penguin#cite_note-47)

    The primary aquatic predators are both mammals: the [Leopard Seal](http://en.wikipedia.org/wiki/Leopard_Seal) (*Hydrurga leptonyx*), which takes some adult birds, as well as fledglings soon after they enter the water,[[24]](http://en.wikipedia.org/wiki/Emperor_Penguin#cite_note-Kooy90-23) and the [Orca](http://en.wikipedia.org/wiki/Orca) (*Orcinus orca*), which takes adult birds.[[49]](http://en.wikipedia.org/wiki/Emperor_Penguin#cite_note-48)

    If one of a breeding pair dies or is killed during the breeding season, the surviving parent must abandon its egg or young and go back to the sea to feed.” [↑](#endnote-ref-41)
42. <http://www.youtube.com/watch?v=6irlA2vGej8&feature=fvw> [↑](#endnote-ref-42)
43. <http://www.youtube.com/watch?v=3HlL2R4cQao> [↑](#endnote-ref-43)
44. <http://www.youtube.com/watch?v=_BtMuSjnGcY&feature=fvst> [↑](#endnote-ref-44)
45. <http://www.youtube.com/watch?v=aA8YiZrYBg0> [↑](#endnote-ref-45)
46. <http://www.youtube.com/watch?v=SPXnFeB6ihA> [↑](#endnote-ref-46)
47. <http://www.youtube.com/watch?v=NV2IEuBUvF8> [↑](#endnote-ref-47)
48. <http://www.youtube.com/watch?v=y2kOmTjbFM0> [↑](#endnote-ref-48)
49. <http://www.youtube.com/watch?v=1SlU3ZNCnTU> [↑](#endnote-ref-49)
50. <http://www.youtube.com/watch?v=22GMcyc9IzE> [↑](#endnote-ref-50)
51. <http://en.wikipedia.org/wiki/Attrition_warfare>

    “**Attrition warfare** is a [military strategy](http://en.wikipedia.org/wiki/Military_strategy) in which a belligerent side attempts to win a [war](http://en.wikipedia.org/wiki/War) by wearing down its enemy to the point of collapse through continuous losses in personnel and [*matériel*](http://en.wikipedia.org/wiki/Mat%C3%A9riel).

    The war will usually be won by the side with greater such resources.[[1]](http://en.wikipedia.org/wiki/Attrition_warfare#cite_note-0) A good example of this was during [World War I](http://en.wikipedia.org/wiki/World_War_I) when the [Allies](http://en.wikipedia.org/wiki/Allies_of_World_War_I) wore down the [Central Powers](http://en.wikipedia.org/wiki/Central_Powers) to the point of capitulation.” [↑](#endnote-ref-51)
52. <http://www.youtube.com/watch?v=tom7-We8h1Y> [↑](#endnote-ref-52)
53. <http://www.youtube.com/watch?v=nUzGMh-gtgQ&NR=1> [↑](#endnote-ref-53)
54. <http://www.yellowstone.net/wildlife/wolf.htm> [↑](#endnote-ref-54)
55. <http://www.youtube.com/watch?v=Ytbasvq2-4E> [↑](#endnote-ref-55)
56. <http://www.youtube.com/watch?v=C6rAQekwvL0> [↑](#endnote-ref-56)
57. <http://en.wikipedia.org/wiki/Bamboo> [↑](#endnote-ref-57)
58. <http://en.wikipedia.org/wiki/Schism>

    “A **schism** (pronounced [/ˈskɪzəm/](http://en.wikipedia.org/wiki/Wikipedia:IPA_for_English) or /ˈsɪzəm/), from [Greek](http://en.wikipedia.org/wiki/Greek_language) σχίσμα, *skhísma* (from σχίζω, *skhízō*, "to tear, to split"), is a split or division between people, usually belonging to an organization or movement. The word is most frequently applied to a break of [communion](http://en.wikipedia.org/wiki/Communion_%28Christian%29) between two sections of [Christianity](http://en.wikipedia.org/wiki/Christianity) that were previously a single body, or to a division within some other religion. It is also used of a split within a non-religious organization or movement or, more broadly, of a separation between two or more people, be it brothers, friends, lovers, etc.

    A **schismatic** is a person who creates or incites schism in an organization or who is a member of a splinter group. **Schismatic** as an adjective means pertaining to a schism or schisms, or to those ideas, policies, etc. that are thought to lead towards or promote schism.

    In religion, the charge of schism is distinguished from that of [heresy](http://en.wikipedia.org/wiki/Heresy), since the offence of schism concerns not differences of belief or doctrine but promotion of, or the state of, division,[[1]](http://en.wikipedia.org/wiki/Schism_%28religion%29" \l "cite_note-0) but schisms frequently involve mutual accusations of heresy. In Roman Catholic teaching, every heresy is a schism.[[2]](http://en.wikipedia.org/wiki/Schism_%28religion%29#cite_note-1). However, the [Presbyterian](http://en.wikipedia.org/wiki/Presbyterian) scholar [James McCord](http://en.wikipedia.org/wiki/James_McCord) (quoted with approval by the [Episcopalian](http://en.wikipedia.org/wiki/Episcopal_Church_%28United_States%29) [bishop](http://en.wikipedia.org/wiki/Bishop) of [Virginia](http://en.wikipedia.org/wiki/Virginia) Peter Lee) drew a distinction between them, teaching: *"If you must make a choice between heresy and schism, always choose heresy. As a schismatic, you have torn and divided the body of Christ. Choose heresy every time."*[*[3]*](http://en.wikipedia.org/wiki/Schism_%28religion%29#cite_note-2) [↑](#endnote-ref-58)
59. <http://en.wikipedia.org/wiki/Show_trial>

    “Show trials were a significant part of [Joseph Stalin](http://en.wikipedia.org/wiki/Joseph_Stalin)'s regime. The [Moscow Trials](http://en.wikipedia.org/wiki/Moscow_Trials) of the [Great Purge](http://en.wikipedia.org/wiki/Great_Purge) period in the [Soviet Union](http://en.wikipedia.org/wiki/Soviet_Union) are characteristic.

    The authorities staged the actual trials meticulously. If defendants refused to "cooperate", i.e., to admit guilt for their alleged and mostly fabricated crimes, they did not go on public trial, but suffered execution nonetheless. This happened, for example during the prosecution of the so-called "[Labour Peasant Party](http://en.wikipedia.org/w/index.php?title=Labour_Peasant_Party&action=edit&redlink=1)" (Трудовая Крестьянская Партия), a party invented by [NKVD](http://en.wikipedia.org/wiki/NKVD), which, in particular, assigned the notable economist [Alexander Chayanov](http://en.wikipedia.org/wiki/Alexander_Chayanov) to it.

    Some solid public evidence of what really happened during the Moscow Trials came to the West through the [Dewey Commission](http://en.wikipedia.org/wiki/Dewey_Commission). After the [collapse of the Soviet Union](http://en.wikipedia.org/wiki/Collapse_of_the_Soviet_Union), more information became available. This discredited [Walter Duranty](http://en.wikipedia.org/wiki/Walter_Duranty), who claimed that these trials were actually fair.” [↑](#endnote-ref-59)
60. <http://en.wikipedia.org/wiki/Lysenkoism>

    “From 1934 to 1940, under Lysenko's admonitions and with Stalin's approval, many geneticists were executed (including Isaak Agol, Solomon Levit, [Grigorii Levitskii](http://en.wikipedia.org/w/index.php?title=Grigorii_Levitskii&action=edit&redlink=1), [Georgii Karpechenko](http://en.wikipedia.org/wiki/Georgii_Karpechenko) and [Georgii Nadson](http://en.wikipedia.org/wiki/Georgii_Nadson)) or sent to [labor camps](http://en.wikipedia.org/wiki/Labor_camp). The famous Soviet geneticist [Nikolai Vavilov](http://en.wikipedia.org/wiki/Nikolai_Vavilov) was arrested in 1940 and died in prison in 1943.[[4]](http://en.wikipedia.org/wiki/Lysenkoism#cite_note-3)

    Genetics was [stigmatized](http://en.wikipedia.org/wiki/Social_stigma) as a 'bourgeois science' or 'fascist science' (because fascists — particularly the [Nazis](http://en.wikipedia.org/wiki/Nazism) in [Germany](http://en.wikipedia.org/wiki/Germany) — embraced genetics and attempted to use it to justify their theories on [eugenics](http://en.wikipedia.org/wiki/Eugenics) and the [master race](http://en.wikipedia.org/wiki/Master_race), which culminated in [Action T4](http://en.wikipedia.org/wiki/Action_T4)).

    Despite the ban, some Soviet scientists continued to work in genetics, dangerous as it was[*[citation needed](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed" \o "Wikipedia:Citation needed)*].

    In 1948, genetics was officially declared "a [bourgeois pseudoscience](http://en.wikipedia.org/wiki/Bourgeois_pseudoscience)"[[5]](http://en.wikipedia.org/wiki/Lysenkoism#cite_note-gar57-4); all geneticists were fired from work (some were also arrested), and all genetic research was discontinued. [Nikita Khrushchev](http://en.wikipedia.org/wiki/Nikita_Khrushchev), who claimed to be an expert in agricultural science, also valued Lysenko as a great scientist, and the taboo on genetics continued (but all geneticists were released or [rehabilitated posthumously](http://en.wikipedia.org/wiki/Rehabilitation_%28Soviet%29)). The ban was only waived in the mid 1960s.

    Thus, Lysenkoism caused serious, long-term harm to Soviet biology. It represented a serious failure of the early Soviet leadership to find real solutions to agricultural problems, throwing their support for a charlatan — at the expense of many human lives. Lysenkoism also spread to [China](http://en.wikipedia.org/wiki/China), where it continued long after it was eventually denounced by the Soviets[*[citation needed](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed" \o "Wikipedia:Citation needed)*].” [↑](#endnote-ref-60)
61. <http://en.wikipedia.org/wiki/Orthodoxy>

    “The word **orthodox**, from [Greek](http://en.wikipedia.org/wiki/Greek_language) orthodoxos "having the right opinion", from *orthos* ("right", "true", "straight") + [*doxa*](http://en.wikipedia.org/wiki/Doxa) ("opinion" or "praise", related to *dokein*, "to think"),[[1]](http://en.wikipedia.org/wiki/Orthodoxy#cite_note-0) is typically used to mean the adherence to well-researched and well-thought-out accepted norms, especially in religion.[[2]](http://en.wikipedia.org/wiki/Orthodoxy#cite_note-1)

    The term did not conventionally exist with any degree of formality (in the sense in which it is now used) prior to the advent of [Christianity](http://en.wikipedia.org/wiki/Christianity) in the Greek-speaking world, though the word does occasionally show up in ancient literature in other, somewhat similar contexts.[[*citation needed*](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed)] Orthodoxy is opposed to [*heterodoxy*](http://en.wikipedia.org/wiki/Heterodoxy) ("other teaching"), [*heresy*](http://en.wikipedia.org/wiki/Heresy) and [*schism*](http://en.wikipedia.org/wiki/Schism_%28religion%29). People who deviate from orthodoxy by professing a [doctrine](http://en.wikipedia.org/wiki/Doctrine) considered to be false are most often called heretics or [radicals](http://en.wikipedia.org/wiki/Political_radicalism), while those who deviate from orthodoxy by removing themselves from the perceived body of believers are called schismatics. The distinction in terminology pertains to the subject matter; if one is addressing corporate unity, the emphasis may be on schism; if one is addressing doctrinal coherence, the emphasis may be on heresy.

    [*Apostasy*](http://en.wikipedia.org/wiki/Apostasy), for example, is a violation of orthodoxy that takes the form of abandonment of the [faith](http://en.wikipedia.org/wiki/Faith), a concept largely unknown before the adoption of Christianity as the [state religion](http://en.wikipedia.org/wiki/State_religion) of Rome on February 27, 380 by [Theodosius I](http://en.wikipedia.org/wiki/Theodosius_I), see also [First seven Ecumenical Councils](http://en.wikipedia.org/wiki/First_seven_Ecumenical_Councils). A lighter deviation from orthodoxy than heresy is commonly called *error*, in the sense of not being grave enough to cause total estrangement, while yet seriously affecting communion. Sometimes *error* is also used to cover both full heresies and minor errors.

    The concept of orthodoxy is the most prevalent in many forms of organized [monotheism](http://en.wikipedia.org/wiki/Monotheism), but orthodox belief is not usually overly emphasized in [polytheistic](http://en.wikipedia.org/wiki/Polytheism) or [animist](http://en.wikipedia.org/wiki/Animist) religions. Often there is little to no concept of [dogma](http://en.wikipedia.org/wiki/Dogma), and varied interpretation of doctrine and [theology](http://en.wikipedia.org/wiki/Theology) is tolerated and sometimes even encouraged within certain contexts. [Syncretism](http://en.wikipedia.org/wiki/Syncretism), for example, plays a much wider role in non-monotheistic (and particularly, non-scriptual) religion. The prevailing governing idea within polytheism is most often [orthopraxy](http://en.wikipedia.org/wiki/Orthopraxy) ("right practice") rather than "right belief". [↑](#endnote-ref-61)
62. <http://en.wikipedia.org/wiki/Fascism>

    “**Fascism**, pronounced [/ˈfæʃɪzəm/](http://en.wikipedia.org/wiki/Wikipedia:IPA_for_English), is a [radical](http://en.wikipedia.org/wiki/Political_radicalism) and [authoritarian](http://en.wikipedia.org/wiki/Authoritarianism) [nationalist](http://en.wikipedia.org/wiki/Nationalism) political [ideology](http://en.wikipedia.org/wiki/Ideology).[[1]](http://en.wikipedia.org/wiki/Fascism#cite_note-0)[[2]](http://en.wikipedia.org/wiki/Fascism#cite_note-1)[[3]](http://en.wikipedia.org/wiki/Fascism#cite_note-2)[[4]](http://en.wikipedia.org/wiki/Fascism#cite_note-3) Fascists seek to organize a [nation](http://en.wikipedia.org/wiki/Nation) according to [corporatist](http://en.wikipedia.org/wiki/Corporatism) perspectives, values, and systems, including the political system and the economy.[[5]](http://en.wikipedia.org/wiki/Fascism#cite_note-4)[[6]](http://en.wikipedia.org/wiki/Fascism#cite_note-5) Fascism was originally founded by Italian [national syndicalists](http://en.wikipedia.org/wiki/National_syndicalism) in [World War I](http://en.wikipedia.org/wiki/World_War_I) who combined [left-wing](http://en.wikipedia.org/wiki/Left-wing_politics) and [right-wing](http://en.wikipedia.org/wiki/Right-wing_politics) political views, but it gravitated to the political right in the early 1920s.[[7]](http://en.wikipedia.org/wiki/Fascism#cite_note-6)[[8]](http://en.wikipedia.org/wiki/Fascism#cite_note-7) Scholars generally consider fascism to be on the [far right](http://en.wikipedia.org/wiki/Far_right) of the conventional [left-right political spectrum](http://en.wikipedia.org/wiki/Left-right_politics).[[9]](http://en.wikipedia.org/wiki/Fascism#cite_note-8)[[10]](http://en.wikipedia.org/wiki/Fascism#cite_note-ah.brookes.ac.uk-9)[[11]](http://en.wikipedia.org/wiki/Fascism#cite_note-sr3-10)[[12]](http://en.wikipedia.org/wiki/Fascism#cite_note-er71-11)[[13]](http://en.wikipedia.org/wiki/Fascism#cite_note-ls112-12)[[14]](http://en.wikipedia.org/wiki/Fascism#cite_note-13) Fascists believe that a nation is an [organic](http://en.wikipedia.org/wiki/Organicism) community that requires strong leadership, singular collective identity, and the will and ability to commit violence and wage war in order to keep the nation strong.[[15]](http://en.wikipedia.org/wiki/Fascism#cite_note-gj120-14) They claim that culture is created by the collective national society and its state, that cultural ideas are what give individuals identity, and thus they reject [individualism](http://en.wikipedia.org/wiki/Individualism).[[15]](http://en.wikipedia.org/wiki/Fascism#cite_note-gj120-14) Viewing the nation as an integrated collective community, they see [pluralism](http://en.wikipedia.org/wiki/Ontological_pluralism) as a dysfunctional aspect of society, and justify a [totalitarian](http://en.wikipedia.org/wiki/Totalitarianism) state as a means to represent the nation in its entirety.[[16]](http://en.wikipedia.org/wiki/Fascism#cite_note-15)[[17]](http://en.wikipedia.org/wiki/Fascism#cite_note-16) They advocate the creation of a [single-party state](http://en.wikipedia.org/wiki/Single-party_state).[[18]](http://en.wikipedia.org/wiki/Fascism#cite_note-17) Fascists reject and resist the autonomy of cultural or ethnic groups who are not considered part of the fascists' nation and who refuse to assimilate or are unable to be assimilated.[[19]](http://en.wikipedia.org/wiki/Fascism#cite_note-Pax_Romanizing-18) They consider attempts to create such autonomy as an affront and a threat to the nation.[[19]](http://en.wikipedia.org/wiki/Fascism#cite_note-Pax_Romanizing-18) Fascist governments forbid and suppress opposition to the fascist state and the fascist movement.[[20]](http://en.wikipedia.org/wiki/Fascism#cite_note-19) They identify violence and war as actions that create national [regeneration](http://en.wikipedia.org/wiki/Regeneration), spirit and [vitality](http://en.wikipedia.org/wiki/Vitalism).[[21]](http://en.wikipedia.org/wiki/Fascism#cite_note-20)” [↑](#endnote-ref-62)
63. [↑](#endnote-ref-63)
64. <http://en.wikipedia.org/wiki/Military%E2%80%93industrial_complex>

    “**Military-industrial complex** (**MIC**) is an [emergent](http://en.wikipedia.org/wiki/Emergence) process between politics and businesses that **causes and is caused by** wars, businesses who create military weapons, and propaganda funded by such politics and businesses to increase the demand for such wars and weapons so they can be paid to increase the supply.

    It is a concept commonly used to refer to [policy](http://en.wikipedia.org/wiki/Policy) relationships between [governments](http://en.wikipedia.org/wiki/Government), national [armed forces](http://en.wikipedia.org/wiki/Armed_forces), and the [industrial sector](http://en.wikipedia.org/wiki/Industry) that supports them. These relationships include political approval for research, development, production, use, and support for military training, weapons, equipment, and facilities within the national defense and security policy. It is a type of [iron triangle](http://en.wikipedia.org/wiki/Iron_triangle).

    The term is most often played in reference to the [military of the United States](http://en.wikipedia.org/wiki/Military_of_the_United_States), where it gained popularity after its use in the [farewell address speech](http://en.wikisource.org/wiki/Military-Industrial_Complex_Speech) of President [Dwight D. Eisenhower](http://en.wikipedia.org/wiki/Dwight_D._Eisenhower), though the term is applicable to any country with a similarly developed infrastructure.

    It is sometimes used more broadly to include the entire network of contracts and flows of money and resources among individuals as well as institutions of the [defense contractors](http://en.wikipedia.org/wiki/Defense_contractor), [The Pentagon](http://en.wikipedia.org/wiki/The_Pentagon), and the [Congress](http://en.wikipedia.org/wiki/Federal_government_of_the_United_States#The_Legislative_Branch) and [executive branch](http://en.wikipedia.org/wiki/Federal_government_of_the_United_States#Executive_branch). This sector is intrinsically prone to [principal-agent problem](http://en.wikipedia.org/wiki/Principal-agent_problem), [moral hazard](http://en.wikipedia.org/wiki/Moral_hazard), and [rent seeking](http://en.wikipedia.org/wiki/Rent_seeking). Cases of [political corruption](http://en.wikipedia.org/wiki/Political_corruption) have also surfaced with regularity.

    A similar thesis was originally expressed by [Daniel Guérin](http://en.wikipedia.org/wiki/Daniel_Gu%C3%A9rin), in his 1936 book [*Fascism and Big Business*](http://en.wikipedia.org/wiki/Fascism_and_Big_Business), about the [fascist](http://en.wikipedia.org/wiki/Fascism) government support to heavy industry. It can be defined as, “an informal and changing coalition of groups with vested psychological, moral, and material interests in the continuous development and maintenance of high levels of weaponry, in preservation of colonial markets and in military-strategic conceptions of internal affairs” [[1]](http://en.wikipedia.org/wiki/Military%E2%80%93industrial_complex#cite_note-0) [↑](#endnote-ref-64)
65. <http://en.wikipedia.org/wiki/Cartel>

    “A **cartel** is a formal (explicit) agreement among *competing* firms. It is a formal organization of producers and manufacturers that agree to fix prices, marketing, and production.[[1]](http://en.wikipedia.org/wiki/Cartel#cite_note-0) Cartels usually occur in an [oligopolistic industry](http://en.wikipedia.org/wiki/Oligopoly), where there is a small number of sellers and usually involve [homogeneous products](http://en.wikipedia.org/wiki/Homogeneous_products). Cartel members may agree on such matters as [price fixing](http://en.wikipedia.org/wiki/Price_fixing), total industry output, [market shares](http://en.wikipedia.org/wiki/Market_share), allocation of customers, allocation of territories, [bid rigging](http://en.wikipedia.org/wiki/Bid_rigging), establishment of common sales agencies, and the division of profits or combination of these. The aim of such [collusion](http://en.wikipedia.org/wiki/Collusion) (also called the **cartel agreement**) is to increase individual members' [profits](http://en.wikipedia.org/wiki/Profit_%28economics%29) by reducing competition.

    One can distinguish **private cartels** from **public cartels**. In the public cartel a government is involved to enforce the cartel agreement, and the government's sovereignty shields such cartels from legal actions. Contrariwise, private cartels are subject to legal liability under the [antitrust](http://en.wikipedia.org/wiki/Antitrust) laws now found in nearly every nation of the world.

    [Competition laws](http://en.wikipedia.org/wiki/Competition_law) often forbid private cartels. Identifying and breaking up cartels is an important part of the [competition policy](http://en.wikipedia.org/wiki/Competition_policy) in most countries, although proving the existence of a cartel is rarely easy, as firms are usually not so careless as to put agreements to collude on paper.[[2]](http://en.wikipedia.org/wiki/Cartel#cite_note-oecd.org-1)[[3]](http://en.wikipedia.org/wiki/Cartel#cite_note-2)

    Several economic studies and legal decisions of antitrust authorities have found that the median price increase achieved by cartels in the last 200 years is around 25%. Private international cartels (those with participants from two or more nations) had an average price increase of 28%, whereas domestic cartels averaged 18%. Fewer than 10% of all cartels in the sample failed to raise market prices.” [↑](#endnote-ref-65)
66. <http://en.wikipedia.org/wiki/Bretton_Woods_system>

    “The **Bretton Woods system** is commonly understood to refer to the international monetary regime that prevailed from the end of World War II until the early 1970s. Taking its name from the [site](http://en.wikipedia.org/wiki/Mount_Washington_Hotel) of the 1944 conference that created the [International Monetary Fund](http://en.wikipedia.org/wiki/International_Monetary_Fund) (IMF) and [World Bank](http://en.wikipedia.org/wiki/World_Bank), the Bretton Woods system was history's first example of a fully negotiated monetary order intended to govern currency relations among sovereign states. In principle, the regime was designed to combine binding legal obligations with multilateral decision-making conducted through an international organization, the IMF, endowed with limited supranational authority. In practice the initial scheme, as well as its subsequent development and ultimate demise, were directly dependent on the preferences and policies of its most powerful member, the [United States](http://en.wikipedia.org/wiki/United_States).

    Setting up a system of rules, institutions, and procedures to regulate the international monetary system, the planners at Bretton Woods established the [International Monetary Fund](http://en.wikipedia.org/wiki/International_Monetary_Fund) (IMF) and the [International Bank for Reconstruction and Development](http://en.wikipedia.org/wiki/International_Bank_for_Reconstruction_and_Development) (IBRD), which today is part of the [World Bank Group](http://en.wikipedia.org/wiki/World_Bank_Group).

    Four points defined the Bretton Woods system:[[1]](http://en.wikipedia.org/wiki/Bretton_Woods_system#cite_note-0)

    1. The [pegged rate](http://en.wikipedia.org/wiki/Pegged_rate) currency regime, a compromise between freely floating and irrevocably fixed exchange rates.
    2. A system for ensuring an adequate supply of monetary reserves.
    3. A ban on most discriminatory currency practices or exchange regulation, to avoid the kind of economic warfare that had characterized the 1930s.
    4. A forum for international cooperation on monetary matters.”

    [↑](#endnote-ref-66)
67. <http://en.wikipedia.org/wiki/Competition_law>

    “**Competition law**, known in the [United States](http://en.wikipedia.org/wiki/United_States) as **antitrust law**, are [laws](http://en.wikipedia.org/wiki/Laws) that promote or maintain [market competition](http://en.wikipedia.org/wiki/Market_competition) by regulating [anti-competitive](http://en.wikipedia.org/wiki/Anti-competitive) conduct.[[1]](http://en.wikipedia.org/wiki/Competition_law#cite_note-Taylor_2006_1-0)

    The history of competition law reaches back to the [Roman Empire](http://en.wikipedia.org/wiki/Roman_Empire). The business practices of market traders, [guilds](http://en.wikipedia.org/wiki/Guild) and governments have always been subject to scrutiny, and sometimes severe sanctions. Since the twentieth century, competition law has become global. The two largest and most influential systems of competition regulation are [United States antitrust law](http://en.wikipedia.org/wiki/United_States_antitrust_law) and [European Union competition law](http://en.wikipedia.org/wiki/European_Union_competition_law). National and regional competition authorities across the world have formed international support and enforcement networks.

    Modern competition law has historically evolved on a country level to promote and maintain competition in markets principally within the territorial boundaries of [nation-states](http://en.wikipedia.org/wiki/Nation-states). National competition law usually does not cover activity beyond territorial borders unless it has significant effects at nation-state level.[[1]](http://en.wikipedia.org/wiki/Competition_law#cite_note-Taylor_2006_1-0)” [↑](#endnote-ref-67)
68. <http://en.wikipedia.org/wiki/Financial_crisis_of_2007%E2%80%932010>

    “The **financial crisis of 2007 to the present** is a crisis triggered by a liquidity shortfall in the United States banking system caused by the overvaluation of assets.[[1]](http://en.wikipedia.org/wiki/Financial_crisis_of_2007%E2%80%932010#cite_note-0) It has resulted in the collapse of large financial institutions, the bailout of banks by national governments and downturns in stock markets around the world. In many areas, the housing market has also suffered, resulting in numerous [evictions](http://en.wikipedia.org/wiki/Eviction), [foreclosures](http://en.wikipedia.org/wiki/Foreclosure) and prolonged vacancies. It is considered by many economists to be the worst [financial crisis](http://en.wikipedia.org/wiki/Financial_crisis) since the [Great Depression](http://en.wikipedia.org/wiki/Great_Depression) of the 1930s.[[2]](http://en.wikipedia.org/wiki/Financial_crisis_of_2007%E2%80%932010#cite_note-1) It contributed to the failure of key businesses, declines in consumer wealth estimated in the trillions of U.S. dollars, substantial financial commitments incurred by governments, and a significant decline in economic activity.[[3]](http://en.wikipedia.org/wiki/Financial_crisis_of_2007%E2%80%932010#cite_note-2) Many causes have been suggested, with varying weight assigned by experts.[[4]](http://en.wikipedia.org/wiki/Financial_crisis_of_2007%E2%80%932010#cite_note-3) Both market-based and regulatory solutions have been implemented or are under consideration,[[5]](http://en.wikipedia.org/wiki/Financial_crisis_of_2007%E2%80%932010" \l "cite_note-4) while significant risks remain for the [world economy](http://en.wikipedia.org/wiki/World_economy) over the 2010–2011 periods.[[6]](http://en.wikipedia.org/wiki/Financial_crisis_of_2007%E2%80%932010#cite_note-5)

    The collapse of a global [housing bubble](http://en.wikipedia.org/wiki/Housing_bubble), which peaked in the U.S. in 2006, caused the values of [securities](http://en.wikipedia.org/wiki/Security_%28finance%29) tied to [real estate pricing](http://en.wikipedia.org/wiki/Real_estate_pricing) to plummet thereafter, damaging financial institutions globally.[[7]](http://en.wikipedia.org/wiki/Financial_crisis_of_2007%E2%80%932010#cite_note-6) Questions regarding bank [solvency](http://en.wikipedia.org/wiki/Solvency), declines in credit availability, and damaged investor confidence had an impact on global [stock markets](http://en.wikipedia.org/wiki/Stock_market), where securities suffered large losses during late 2008 and early 2009. Economies worldwide slowed during this period as credit tightened and international trade declined.[[8]](http://en.wikipedia.org/wiki/Financial_crisis_of_2007%E2%80%932010#cite_note-7) Critics argued that [credit rating agencies](http://en.wikipedia.org/wiki/Credit_rating_agency) and investors failed to accurately price the [risk](http://en.wikipedia.org/wiki/Financial_risk) involved with [mortgage](http://en.wikipedia.org/wiki/Mortgage_loan)-related financial products, and that governments did not adjust their regulatory practices to address 21st century financial markets.[[9]](http://en.wikipedia.org/wiki/Financial_crisis_of_2007%E2%80%932010#cite_note-Declaration_of_G20-8) Governments and [central banks](http://en.wikipedia.org/wiki/Central_bank) responded with unprecedented [fiscal stimulus](http://en.wikipedia.org/wiki/Fiscal_policy), [monetary policy](http://en.wikipedia.org/wiki/Monetary_policy) expansion, and institutional bailouts.” [↑](#endnote-ref-68)
69. <http://en.wikipedia.org/wiki/Derivative_%28finance%29>

    “A **derivative** is a financial instrument - or more simply, an agreement between two people or two parties - that has a value determined by the price of something else (called the underlying).[[1]](http://en.wikipedia.org/wiki/Derivative_%28finance%29#cite_note-0) It is a financial contract with a value linked to the expected future price movements of the asset it is linked to - such as a share or a currency. There are many kinds of derivatives, with the most notable being swaps, futures, and options. However, since a derivative can be placed on any sort of [security](http://en.wikipedia.org/wiki/Security_%28finance%29), the scope of all derivatives possible is nearly endless. Thus, the real definition of a derivative is an agreement between two parties that is contingent on a future outcome of the underlying.

    Referring to derivatives as stand-alone assets would be a misconception, since a derivative is incapable of having value of its own. However, some more commonplace derivatives, such as swaps, futures, and options, (which have a theoretical face value that can be calculated using formulas, such as [Black-Scholes](http://en.wikipedia.org/wiki/Black-Scholes)), have been traded on markets before their expiration date as if they were assets. Amongst the earlier derivatives, rice futures have been traded on the [Dojima Rice Exchange](http://en.wikipedia.org/wiki/Dojima_Rice_Exchange) since 1710.” [↑](#endnote-ref-69)
70. <http://en.wikipedia.org/wiki/Old_boy_network>

    “An **old boy network**, or **society**, can refer to social and business connections among [former pupils](http://en.wikipedia.org/wiki/Alumnus) of male-only [private schools](http://en.wikipedia.org/wiki/Private_school).

    This can apply to the network between the graduates of a single school, also known as an *old boy society* and similar to an [alumni association](http://en.wikipedia.org/wiki/Alumni_association). It can also mean a network of social and business connections among the alumni of various prestigious schools. In popular language, *old boy network* or *old boy society* has come to be used in reference to the preservation of social elites in general; such connections within the [British Civil Service](http://en.wikipedia.org/wiki/Her_Majesty%27s_Civil_Service) formed a primary theme in the [British Broadcasting Corporation](http://en.wikipedia.org/wiki/BBC)'s satirical comedy series [*Yes Minister*](http://en.wikipedia.org/wiki/Yes_Minister).” [↑](#endnote-ref-70)
71. <http://en.wikipedia.org/wiki/Secret_society>

    “**Secret society** is a term used to describe clubs or [organisations](http://en.wikipedia.org/wiki/Organisation) in which the activities and inner functioning of those societies are concealed from non-members. The society may or may not attempt to conceal its existence. The term usually excludes covert groups, such as [intelligence agencies](http://en.wikipedia.org/wiki/Intelligence_agencies) or guerrilla insurgencies, which hide their activities and memberships but maintain a public presence. The exact qualifications for labeling a group as a secret society are disputed, but definitions generally rely on the degree to which the organization insists on [secrecy](http://en.wikipedia.org/wiki/Secrecy), and might involve the retention and transmission of [secret knowledge](http://en.wikipedia.org/wiki/Secret_knowledge), denial of membership in or knowledge of the group, the creation of personal bonds between [members](http://en.wikipedia.org/wiki/Members) of the organization, and the use of secret rites or rituals which solidify members of the [group](http://en.wikipedia.org/wiki/Group).” [↑](#endnote-ref-71)
72. <http://en.wikipedia.org/wiki/Capitalism>

    “**Capitalism** is an [economic system](http://en.wikipedia.org/wiki/Economic_system) in which the [means of production](http://en.wikipedia.org/wiki/Means_of_production) are [privately](http://en.wikipedia.org/wiki/Private_property) [owned](http://en.wikipedia.org/wiki/Ownership) and operated for [profit](http://en.wikipedia.org/wiki/Profit_%28economics%29); supply, demand, price, distribution, and investments are determined mainly by private decisions in the [free market](http://en.wikipedia.org/wiki/Free_market), rather than by the state through [central economic planning](http://en.wikipedia.org/wiki/Central_economic_planning); Profit is distributed to owners who invest in [businesses](http://en.wikipedia.org/wiki/Business), and wages are paid to workers employed by businesses.

    Some define capitalism as where *all* the means of production are privately owned, and some define it more loosely where merely "most" are in private hands —while others refer to the latter as a [mixed economy](http://en.wikipedia.org/wiki/Mixed_economy) biased toward capitalism. Private ownership in capitalism implies the right to control property, including determining how it is used, who uses it, whether to sell or rent it, and the right to the revenue generated by the property.[[1]](http://en.wikipedia.org/wiki/Capitalism#cite_note-0) Capitalism also refers to the process of [capital accumulation](http://en.wikipedia.org/wiki/Capital_accumulation).

    There is no consensus on the precise definition of capitalism, nor how the term should be used as an analytical category.[[2]](http://en.wikipedia.org/wiki/Capitalism#cite_note-1) There is, however, little controversy that private ownership of the means of production, creation of goods or services for profit in a market, and prices and wages are elements of capitalism.[[3]](http://en.wikipedia.org/wiki/Capitalism#cite_note-2) There are a variety of historical cases to which the designation is applied, varying in time, geography, politics and culture.[[4]](http://en.wikipedia.org/wiki/Capitalism#cite_note-Scott-3)” [↑](#endnote-ref-72)
73. <http://en.wikipedia.org/wiki/Secret_police>

    “**Secret police** (sometimes **political police**) are a [police](http://en.wikipedia.org/wiki/Police) agency which operates in [secrecy](http://en.wikipedia.org/wiki/Secrecy) to protect the power and authority of a [political regime](http://en.wikipedia.org/wiki/Political_regime) or [state](http://en.wikipedia.org/wiki/Sovereign_state).

    Secret police forces are associated with [totalitarian](http://en.wikipedia.org/wiki/Totalitarianism) regimes, as they are, by definition, used to support the [political power](http://en.wikipedia.org/wiki/Political_power) of an individual government or regime rather than upholding the common [rule of law](http://en.wikipedia.org/wiki/Rule_of_law).

    Instead of transparently enforcing the rule of law and being subject to [public scrutiny](http://en.wikipedia.org/wiki/Public_scrutiny) as ordinary [police agencies](http://en.wikipedia.org/wiki/Law_enforcement_agencies) do, secret police organizations are specifically intended to operate beyond and above the law in order to suppress [political dissent](http://en.wikipedia.org/wiki/Political_dissent) through [clandestine](http://en.wikipedia.org/wiki/Clandestine_operation) acts of terror and intimidation (such as [kidnapping](http://en.wikipedia.org/wiki/Kidnapping), [coercive interrogation](http://en.wikipedia.org/wiki/Coercive_interrogation), [torture](http://en.wikipedia.org/wiki/Torture), [internal exile](http://en.wikipedia.org/wiki/Internal_exile), [forced disappearance](http://en.wikipedia.org/wiki/Forced_disappearance), and [assassination](http://en.wikipedia.org/wiki/Assassination)) targeted against political enemies of the ruling authority.

    Secret police forces are accountable only to the [executive branch](http://en.wikipedia.org/wiki/Executive_branch) of the government, sometimes only to a [dictator](http://en.wikipedia.org/wiki/Dictator). They operate entirely or partially in secrecy, that is, most or all of their operations are obscure and hidden from the general public and government except for the topmost executive officials. This semi-official capacity allows the secret police to bolster the government's control over their citizens while also allowing the government to [deny prior knowledge](http://en.wikipedia.org/wiki/Plausible_deniability) of any violations of civil liberties.[[1]](http://en.wikipedia.org/wiki/Secret_police#cite_note-0)

    Secret police agencies have often been used as an instrument of [political repression](http://en.wikipedia.org/wiki/Political_repression).

    States where the secret police wield significant power are sometimes referred to as [police states](http://en.wikipedia.org/wiki/Police_state) or [counterintelligence states](http://en.wikipedia.org/wiki/Counterintelligence_state). Secret police differ from the [domestic security agencies](http://en.wikipedia.org/wiki/Security_agency) in modern [liberal democracies](http://en.wikipedia.org/wiki/Liberal_democracy), because domestic security agencies are generally subject to [government regulation](http://en.wikipedia.org/wiki/Government_regulation), reporting requirements, and other [accountability](http://en.wikipedia.org/wiki/Accountability) measures.” [↑](#endnote-ref-73)
74. <http://en.wikipedia.org/wiki/Gulag>

    “The **Gulag** or **GULAG** was the government agency that administered the main[[1]](http://en.wikipedia.org/wiki/Gulag" \l "cite_note-0) [Soviet](http://en.wikipedia.org/wiki/Soviet_Union) penal [labor camp](http://en.wikipedia.org/wiki/Labor_camp) systems. While the camps housed a wide range of [convicts](http://en.wikipedia.org/wiki/Convict), from petty criminals to [political prisoners](http://en.wikipedia.org/wiki/Political_prisoner), with large numbers convicted by simplified procedures, such as [NKVD troikas](http://en.wikipedia.org/wiki/NKVD_troika) and other instruments of [extrajudicial punishment](http://en.wikipedia.org/wiki/Extrajudicial_punishment), the Gulag is recognized as a major instrument of [political repression in the Soviet Union](http://en.wikipedia.org/wiki/Political_repression_in_the_Soviet_Union).

    *GULAG* is the [acronym](http://en.wikipedia.org/wiki/Acronym) for *The Chief Administration of Corrective Labor Camps and Colonies* ([Russian](http://en.wikipedia.org/wiki/Russian_language): **Г**лавное **У**правление Исправительно-Трудовых **Лаг**ерей и колоний; ***G****lavnoye* ***U****pravlyeniye Ispravityel'no-Trudovih* ***Lag****yeryey i koloniy*) of the [NKVD](http://en.wikipedia.org/wiki/NKVD). Eventually, by [metonymy](http://en.wikipedia.org/wiki/Metonymy), the usage of "the Gulag" began generally denoting the entire penal labor system in the USSR, then any such penal system. In Russian, *Gulag* is pronounced: ([Russian](http://en.wikipedia.org/wiki/Russian_language): ГУЛАГ, [listen](http://upload.wikimedia.org/wikipedia/commons/a/a3/Ru-Gulag.ogg) ([help](http://en.wikipedia.org/wiki/Wikipedia:Media_help)·[info](http://en.wikipedia.org/wiki/File:Ru-Gulag.ogg)))

    

    The term became known to general public in the West with the 1973 publication by [Aleksandr Solzhenitsyn](http://en.wikipedia.org/wiki/Aleksandr_Solzhenitsyn), the 1970 Nobel Prize in Literature winner, of [*The Gulag Archipelago*](http://en.wikipedia.org/wiki/The_Gulag_Archipelago), which likened the scattered camps to "a chain of islands" and described the Gulag as a system where people worked to death.[[2]](http://en.wikipedia.org/wiki/Gulag#cite_note-Applebaum_2003-1) Some scholars concur with this view,[[3]](http://en.wikipedia.org/wiki/Gulag#cite_note-2)[[4]](http://en.wikipedia.org/wiki/Gulag#cite_note-3) whereas others argue that Gulag was neither as large nor as deadly as it is often presented,[[5]](http://en.wikipedia.org/wiki/Gulag#cite_note-GRZ-4) and it was not a death camp,[[6]](http://en.wikipedia.org/wiki/Gulag#cite_note-5) although during some periods of its history mortality was high there.[[2]](http://en.wikipedia.org/wiki/Gulag#cite_note-Applebaum_2003-1)

    On March 1940, there were 53 separate camps and 423 labour colonies in the USSR.[[5]](http://en.wikipedia.org/wiki/Gulag#cite_note-GRZ-4) Today's major industrial cities of the Russian Arctic such as [Norilsk](http://en.wikipedia.org/wiki/Norilsk), [Vorkuta](http://en.wikipedia.org/wiki/Vorkuta), and [Magadan](http://en.wikipedia.org/wiki/Magadan), were camps originally built by prisoners and run by ex-prisoners.[[7]](http://en.wikipedia.org/wiki/Gulag#cite_note-6)” [↑](#endnote-ref-74)
75. <http://en.wikipedia.org/wiki/Multi-level_marketing>

    “**Multi-level marketing** (**MLM**), (also called **network marketing**,[[1]](http://en.wikipedia.org/wiki/Multi-level_marketing#cite_note-0)[[2]](http://en.wikipedia.org/wiki/Multi-level_marketing#cite_note-1)[[3]](http://en.wikipedia.org/wiki/Multi-level_marketing#cite_note-merrilees-2)[[4]](http://en.wikipedia.org/wiki/Multi-level_marketing#cite_note-3)[[5]](http://en.wikipedia.org/wiki/Multi-level_marketing#cite_note-4) **direct selling**,[[6]](http://en.wikipedia.org/wiki/Multi-level_marketing#cite_note-FTCstatement-5)[[3]](http://en.wikipedia.org/wiki/Multi-level_marketing#cite_note-merrilees-2) and **referral marketing**,[[7]](http://en.wikipedia.org/wiki/Multi-level_marketing#cite_note-skepdic-6) [[8]](http://en.wikipedia.org/wiki/Multi-level_marketing#cite_note-7)[[9]](http://en.wikipedia.org/wiki/Multi-level_marketing#cite_note-8)[[10]](http://en.wikipedia.org/wiki/Multi-level_marketing#cite_note-9)[[11]](http://en.wikipedia.org/wiki/Multi-level_marketing#cite_note-10)[[12]](http://en.wikipedia.org/wiki/Multi-level_marketing#cite_note-11)) is a term that describes a marketing structure used by some [companies](http://en.wikipedia.org/wiki/Company) as part of their overall [marketing strategy](http://en.wikipedia.org/wiki/Marketing_strategy). The structure is designed to create a marketing and sales force by [compensating promoters](http://en.wikipedia.org/wiki/Multi-level_marketing#Compensation_plans) of company products not only for sales they personally generate, but also for the sales of other promoters they introduce to the company, creating a downline of distributors and a [hierarchy](http://en.wikipedia.org/wiki/Hierarchy) of multiple levels of compensation.

    The products and company are usually marketed [directly to consumers](http://en.wikipedia.org/wiki/Direct_selling) and potential business partners by means of relationship referrals and [word of mouth](http://en.wikipedia.org/wiki/Word_of_mouth) marketing.[[13]](http://en.wikipedia.org/wiki/Multi-level_marketing#cite_note-12)

    MLM companies have been a frequent subject of controversy as well as the target of lawsuits. Criticism has focused on their similarity to illegal [pyramid schemes](http://en.wikipedia.org/wiki/Pyramid_scheme), price-fixing of products, high initial start-up costs, emphasis on recruitment of lower-tiered salespeople over actual sales, encouraging if not requiring salespeople to purchase and use the company's products, potential exploitation of personal relationships which are used as new sales and recruiting targets, complex and sometimes exaggerated compensation schemes, and cult-like techniques which some groups use to enhance their members' enthusiasm and devotion. Not all MLM companies operate the same way, and MLM groups have persistently denied that their techniques are anything but legitimate business practices.” [↑](#endnote-ref-75)
76. <http://en.wikipedia.org/wiki/Animal_farm>

    “[Old Major](http://en.wikipedia.org/wiki/Old_Major), the old boar on the Manor Farm, calls the animals on the farm for a meeting, where he compares the humans to [parasites](http://en.wikipedia.org/wiki/Parasite) and teaches the animals a [revolutionary](http://en.wikipedia.org/wiki/Revolution) song, "[Beasts of England](http://en.wikipedia.org/wiki/Beasts_of_England)".

    When Major dies three days later, two young pigs, [Snowball](http://en.wikipedia.org/wiki/Snowball_%28Animal_Farm%29) and [Napoleon](http://en.wikipedia.org/wiki/Napoleon_%28Animal_Farm%29), assume command and turn his dream into a [philosophy](http://en.wikipedia.org/wiki/Political_philosophy). The animals revolt and drive the drunken and irresponsible [Mr. Jones](http://en.wikipedia.org/wiki/Jones_%28Animal_Farm%29) from the farm, renaming it "Animal Farm."

    The [Seven Commandments](http://en.wikipedia.org/wiki/Seven_Commandments) of [Animalism](http://en.wikipedia.org/wiki/Animalism_%28Animal_Farm%29) are written on the wall of a barn. The most important is the seventh, "All animals are [equal](http://en.wikipedia.org/wiki/Social_equality)." All the animals work, but the [workhorse](http://en.wikipedia.org/wiki/Horse), [Boxer](http://en.wikipedia.org/wiki/Boxer_%28Animal_Farm%29), does more than others and adopts the [maxim](http://en.wikipedia.org/wiki/Maxim_%28saying%29) — "I will work harder."

    Snowball attempts to teach the animals reading and writing; food is plentiful; and the farm runs smoothly. The pigs elevate themselves to positions of leadership and set aside special food items ostensibly for their personal health. Napoleon takes the pups from the farm dogs and trains them privately. When Mr. Jones tries retaking the farm, the animals defeat him at what they call the "Battle of the Cowshed." Napoleon and Snowball struggle for leadership. When Snowball announces his idea for a [windmill](http://en.wikipedia.org/wiki/Windmill), Napoleon opposes it. Snowball makes a speech in favour of the windmill, whereupon Napoleon has his dogs chase Snowball away. In Snowball's absence, Napoleon declares himself leader and makes changes. Meetings will no longer be held and instead a committee of pigs will run the farm.” [↑](#endnote-ref-76)
77. <http://en.wikipedia.org/wiki/Survival_of_the_fittest>

    “"***Survival of the fittest***" is a [phrase](http://en.wikipedia.org/wiki/Phrase) which is commonly used in contexts other than intended by its first two proponents: British [polymath](http://en.wikipedia.org/wiki/Polymath) philosopher [Herbert Spencer](http://en.wikipedia.org/wiki/Herbert_Spencer) (who coined the term) and [Charles Darwin](http://en.wikipedia.org/wiki/Charles_Darwin).

    Herbert Spencer first used the phrase — after reading Charles Darwin's *On the Origin of Species* — in his *Principles of Biology* (1864), in which he drew parallels between his own economic theories and Darwin's biological ones, writing “This survival of the fittest, which I have here sought to express in mechanical terms, is that which Mr. Darwin has called 'natural selection', or the preservation of favoured races in the struggle for life."[[1]](http://en.wikipedia.org/wiki/Survival_of_the_fittest#cite_note-sotf-0)

    Darwin first used Spencer's new phrase "survival of the fittest" as a synonym for "[natural selection](http://en.wikipedia.org/wiki/Natural_selection)" in the fifth edition of [*On the Origin of Species*](http://en.wikipedia.org/wiki/On_the_Origin_of_Species), published in 1869.[[2]](http://en.wikipedia.org/wiki/Survival_of_the_fittest#cite_note-1stD-1)[[3]](http://en.wikipedia.org/wiki/Survival_of_the_fittest#cite_note-OriginCh4-2) Darwin meant it as a [metaphor](http://en.wikipedia.org/wiki/Metaphor) for "better adapted for immediate, local environment", not the common inference of "in the best physical shape" [[4]](http://en.wikipedia.org/wiki/Survival_of_the_fittest#cite_note-sjg-3). Hence, it is not a scientific description,[[5]](http://en.wikipedia.org/wiki/Survival_of_the_fittest" \l "cite_note-4) and is both incomplete and misleading.

    The phrase "survival of the fittest" is not generally used by modern biologists as the term does not accurately convey the meaning of [natural selection](http://en.wikipedia.org/wiki/Natural_selection), the term biologists use and prefer. Natural selection refers to differential reproduction as a function of traits that have a genetic basis. "Survival of the fittest" is inaccurate for two important reasons. First, survival is merely a normal prerequisite to reproduction. Second, fitness has specialized meaning in biology different from how the word is used in popular culture. In [population genetics](http://en.wikipedia.org/wiki/Population_genetics), [fitness](http://en.wikipedia.org/wiki/Fitness_%28biology%29) refers to differential reproduction. "Fitness" does not refer to whether an individual is "physically fit" — bigger, faster or stronger — or "better" in any subjective sense. It refers to a difference in reproductive rate from one generation to the next. [[6]](http://en.wikipedia.org/wiki/Survival_of_the_fittest#cite_note-IntroEvolutionaryBiology-5).” [↑](#endnote-ref-77)
78. <http://en.wikipedia.org/wiki/Ayn_rand>

    “In 1947, during the [Second Red Scare](http://en.wikipedia.org/wiki/Second_Red_Scare), Rand testified as a "friendly witness" before the United States [House Un-American Activities Committee](http://en.wikipedia.org/wiki/House_Un-American_Activities_Committee). Her testimony described the disparity between her personal experiences in the [Soviet Union](http://en.wikipedia.org/wiki/Soviet_Union) and the portrayal of it in the 1944 film [*Song of Russia*](http://en.wikipedia.org/wiki/Song_of_Russia).[[54]](http://en.wikipedia.org/wiki/Ayn_rand#cite_note-53) Rand argued that the film grossly misrepresented conditions in the Soviet Union, portraying life there as being much better and happier than it actually was.[[55]](http://en.wikipedia.org/wiki/Ayn_rand#cite_note-54) When asked about her feelings on the effectiveness of the investigations after the hearings, Rand described the process as "futile".[[56]](http://en.wikipedia.org/wiki/Ayn_rand#cite_note-55) [↑](#endnote-ref-78)
79. <http://en.wikipedia.org/wiki/Warsaw_pact>

    “The **Warsaw Treaty** (1955–91) is the informal name for the [mutual defense](http://en.wikipedia.org/wiki/Collective_defense) **Treaty of Friendship, Cooperation and Mutual Assistance** commonly known as the **Warsaw Pact** subscribed by eight [communist states](http://en.wikipedia.org/wiki/Communist_state) in [Eastern Europe](http://en.wikipedia.org/wiki/Eastern_Europe), which was established at the [USSR](http://en.wikipedia.org/wiki/Soviet_Union)’s initiative and realized on 14 May 1955, in [Warsaw](http://en.wikipedia.org/wiki/Warsaw), Poland.

    In the [Communist](http://en.wikipedia.org/wiki/Communist) Bloc, the treaty was the military analogue of the [Council for Mutual Economic Assistance](http://en.wikipedia.org/wiki/Council_for_Mutual_Economic_Assistance) (CoMEcon), the Communist (East) European economic community. The Warsaw Treaty was the [Soviet Bloc](http://en.wikipedia.org/wiki/Soviet_Bloc)’s military response to [West Germany](http://en.wikipedia.org/wiki/West_Germany)’s May 1955[[1]](http://en.wikipedia.org/wiki/Warsaw_pact#cite_note-0) integration to [NATO Pact](http://en.wikipedia.org/wiki/North_Atlantic_Treaty_Organization), per the [Paris Pacts](http://en.wikipedia.org/wiki/Paris_Pacts) of 1954.[[2]](http://en.wikipedia.org/wiki/Warsaw_pact#cite_note-1)[[3]](http://en.wikipedia.org/wiki/Warsaw_pact#cite_note-2)[[4]](http://en.wikipedia.org/wiki/Warsaw_pact#cite_note-3)” [↑](#endnote-ref-79)
80. <http://en.wikipedia.org/wiki/Liebensraum>

    “[***Lebensraum***](http://upload.wikimedia.org/wikipedia/commons/b/ba/De-Lebensraum.ogg) ([help](http://en.wikipedia.org/wiki/Wikipedia:Media_help)·[info](http://en.wikipedia.org/wiki/File:De-Lebensraum.ogg)) ([German](http://en.wikipedia.org/wiki/German_language) for "[habitat](http://en.wikipedia.org/wiki/Habitat_%28ecology%29)" or literally "living space") was one of the major political ideas of [Adolf Hitler](http://en.wikipedia.org/wiki/Adolf_Hitler), and an important component of [Nazi](http://en.wikipedia.org/wiki/Nazism) ideology. It served as the motivation for the [expansionist](http://en.wikipedia.org/wiki/Expansionist) policies of [Nazi Germany](http://en.wikipedia.org/wiki/Nazi_Germany), aiming to provide extra space for the growth of the German population, for a [Greater Germany](http://en.wikipedia.org/wiki/German_question#Later_influence). In Hitler's book [*Mein Kampf*](http://en.wikipedia.org/wiki/Mein_Kampf), he detailed his belief that the German people needed *Lebensraum* ("living space", i.e. land and raw materials), and that it should be found in the East. It was the stated policy of the Nazis to kill, deport, or enslave the Polish, Russian and other [Slavic](http://en.wikipedia.org/wiki/Slavic_peoples) populations, whom they considered inferior, and to repopulate the land with Germanic peoples. The entire urban population was to be exterminated by starvation, thus creating an agricultural surplus to feed Germany and allowing their replacement by a German [upper class](http://en.wikipedia.org/wiki/Elite).”

    

    [↑](#endnote-ref-80)
81. <http://en.wikipedia.org/wiki/Timur>

    “**Timur** (from the [Perso-Arabic](http://en.wikipedia.org/wiki/Persian_alphabet) form تیمور *Tīmūr*, ultimately from [Chagatai](http://en.wikipedia.org/wiki/Chagatai_language) ([Middle Turkic](http://en.wikipedia.org/wiki/Middle_Turkic)) *Temür* "[iron](http://en.wikipedia.org/wiki/Iron)"; 8 April 1336 – 18 February 1405), normally known as **Tamerlane** (from *Tīmūr-e Lang*) in English, was a 14th-century conqueror of [Western](http://en.wikipedia.org/wiki/West_Asia), [South](http://en.wikipedia.org/wiki/South_Asia) and [Central Asia](http://en.wikipedia.org/wiki/Central_Asia), founder of the [Timurid Empire and Timurid dynasty](http://en.wikipedia.org/wiki/Timurid_dynasty) (1370–1405) in Central Asia, and great great grandfather of [Babur](http://en.wikipedia.org/wiki/Babur), the founder of the Mughal Dynasty, which survived until 1857 as the [Mughal Empire](http://en.wikipedia.org/wiki/Mughal_Empire) in India.[[1]](http://en.wikipedia.org/wiki/Timur#cite_note-0)[[2]](http://en.wikipedia.org/wiki/Timur#cite_note-1)[[3]](http://en.wikipedia.org/wiki/Timur#cite_note-2)[[4]](http://en.wikipedia.org/wiki/Timur#cite_note-EI-3)[[5]](http://en.wikipedia.org/wiki/Timur#cite_note-4)

    Born into the [Turco-Mongol](http://en.wikipedia.org/wiki/Turco-Mongol)[[6]](http://en.wikipedia.org/wiki/Timur#cite_note-Manz-5)[[7]](http://en.wikipedia.org/wiki/Timur#cite_note-UNESCO-6) [Barlas tribe](http://en.wikipedia.org/wiki/Barlas) who ruled in Central Asia,[[8]](http://en.wikipedia.org/wiki/Timur#cite_note-Secret_History_of_Mongols-7)[[9]](http://en.wikipedia.org/wiki/Timur#cite_note-Chaliand-8) Timur was in his lifetime a controversial figure, and remains so today. He sought to restore the Mongol Empire,[[10]](http://en.wikipedia.org/wiki/Timur" \l "cite_note-9)[[11]](http://en.wikipedia.org/wiki/Timur#cite_note-10) yet his heaviest blow was against the Islamized Tatar [Golden Horde](http://en.wikipedia.org/wiki/Golden_Horde). He was more at home in an urban environment than on the [steppe](http://en.wikipedia.org/wiki/Steppe). He styled himself a [ghazi](http://en.wikipedia.org/wiki/Ghazw) yet some Muslim states, e.g. the [Ottoman Empire](http://en.wikipedia.org/wiki/Ottoman_Empire), were severely affected by his wars. A great patron of the arts, his campaigns also caused vast destruction. Timur told the [qadis](http://en.wikipedia.org/wiki/Qadi) of [Aleppo](http://en.wikipedia.org/wiki/Aleppo), during the sack of that newly conquered city,"I am not a man of blood; and God is my witness that in all my wars I have never been the aggressor, and that my enemies have always been the authors of their own calamity."[[12]](http://en.wikipedia.org/wiki/Timur#cite_note-11) [↑](#endnote-ref-81)
82. <http://en.wikipedia.org/wiki/Dien_bien_phu>

    “The following year, the important [Battle of Dien Bien Phu](http://en.wikipedia.org/wiki/Battle_of_Dien_Bien_Phu) was fought between the Việt Minh (led by [Ho Chi Minh](http://en.wikipedia.org/wiki/Ho_Chi_Minh)), and the United States-backed [French Union](http://en.wikipedia.org/wiki/French_Union) (led by General [Navarre](http://en.wikipedia.org/wiki/Henri_Navarre), successor to General [Raoul Salan](http://en.wikipedia.org/wiki/Raoul_Salan)). The siege of the French garrison lasted fifty-seven days, from 5:30PM on March 13 to 5:30PM on May 7, 1954. The southern outpost or fire base of the camp, Isabelle, did not follow the [cease-fire](http://en.wikipedia.org/wiki/Cease-fire) order and fought until the next day at 01:00AM; a few hours before the long-scheduled Geneva Meeting's Indochina conference involving the [United States](http://en.wikipedia.org/wiki/United_States), the United Kingdom, the French Union and the [Soviet Union](http://en.wikipedia.org/wiki/Soviet_Union).

    The battle was significant beyond the valleys of Dien Bien Phu. Vo Nguyen Giap's victory ended major French involvement in [Indochina](http://en.wikipedia.org/wiki/French_Indochina) and led to the accords which partitioned Vietnam into [North](http://en.wikipedia.org/wiki/North_Vietnam) and [South](http://en.wikipedia.org/wiki/South_Vietnam). Eventually, these conditions inspired American involvement in the [Vietnam War](http://en.wikipedia.org/wiki/Vietnam_War). The battle of Điện Biên Phủ is described by historians as "the first time that a non-European colonial independence movement had evolved through all the stages from [guerrilla bands](http://en.wikipedia.org/wiki/Guerrilla_warfare) to a conventionally organized and equipped army able to defeat a modern Western occupier in [pitched battle](http://en.wikipedia.org/wiki/Pitched_battle)."[[3]](http://en.wikipedia.org/wiki/Dien_bien_phu#cite_note-2)

    The Western fear of a [Communist](http://en.wikipedia.org/wiki/Communist) extension in Southeast Asia, named the [Domino Theory](http://en.wikipedia.org/wiki/Domino_Theory) by [Dwight D. Eisenhower](http://en.wikipedia.org/wiki/Dwight_D._Eisenhower) during the Dien Bien Phu siege and the departure of the French from [Laos](http://en.wikipedia.org/wiki/Laos), [Cambodia](http://en.wikipedia.org/wiki/Cambodia) and Vietnam, was a factor leading to the direct American intervention in [South Vietnam](http://en.wikipedia.org/wiki/South_Vietnam).” [↑](#endnote-ref-82)
83. <http://en.wikipedia.org/wiki/Colonialism>

    “**Colonialism** is the building and maintaining of [colonies](http://en.wikipedia.org/wiki/Colony) in one territory by people from another territory. Colonialism is a process whereby [sovereignty](http://en.wikipedia.org/wiki/Sovereignty) over the colony is claimed by the [metropole](http://en.wikipedia.org/wiki/Metropole) and [social structure](http://en.wikipedia.org/wiki/Social_structure), [government](http://en.wikipedia.org/wiki/Government) and [economics](http://en.wikipedia.org/wiki/Economics) within the territory of the colony are changed by the colonists. Colonialism is a certain set of unequal relationships, between metropole and colony and between colonists and the [indigenous population](http://en.wikipedia.org/wiki/Indigenous_peoples).

    Colonialism normally refers to a period of history from the 15th to the late 19th centuries when nations of Europe established colonies on other continents. The reasons for the practice of colonialism at this time include:

    * The [profits](http://en.wikipedia.org/wiki/Profit_%28economics%29) to be made.
    * To expand the [power](http://en.wikipedia.org/wiki/Power_in_international_relations) of the metropole.
    * To escape [persecution](http://en.wikipedia.org/wiki/Persecution) in the metropole.
    * To spread the colonists way of life including religious and political beliefs

    Some colonists also felt they were helping the indigenous population by bringing them [civilization](http://en.wikipedia.org/wiki/Civilization). However, the critics said the reality was often subjugation, displacement or death.

    Colonialism and [imperialism](http://en.wikipedia.org/wiki/Imperialism) were ideologically linked with [mercantilism](http://en.wikipedia.org/wiki/Mercantilism).[[1]](http://en.wikipedia.org/wiki/Colonialism#cite_note-dk-0)” [↑](#endnote-ref-83)
84. <http://en.wikipedia.org/wiki/Globalization>

    “**Globalization** (or **globalisation**) describes a process by which regional economies, societies, and cultures have become integrated through a global network of communication, transportation, and trade. The term is sometimes used to refer specifically to [economic globalization](http://en.wikipedia.org/wiki/Economic_globalization): the integration of national economies into the international economy through [trade](http://en.wikipedia.org/wiki/Trade), [foreign direct investment](http://en.wikipedia.org/wiki/Foreign_direct_investment), [capital flows](http://en.wikipedia.org/wiki/Capital_flow), [migration](http://en.wikipedia.org/wiki/Human_migration), and the spread of [technology](http://en.wikipedia.org/wiki/Technology).[[1]](http://en.wikipedia.org/wiki/Globalization#cite_note-bhagwati-0) However, globalization is usually recognized as being driven by a combination of economic, technological, sociocultural, political, and biological factors.[[2]](http://en.wikipedia.org/wiki/Globalization#cite_note-1) The term can also refer to the transnational circulation of ideas, languages, or [popular culture](http://en.wikipedia.org/wiki/Popular_culture) through [acculturation](http://en.wikipedia.org/wiki/Acculturation).” [↑](#endnote-ref-84)
85. <http://en.wikipedia.org/wiki/Corporate_socialism>

    “[Subsidies](http://en.wikipedia.org/wiki/Subsidies) considered excessive, unwarranted, wasteful, unfair, inefficient, or bought by [lobbying](http://en.wikipedia.org/wiki/Lobbying) are often called corporate welfare. The label of corporate welfare is often used to decry projects advertised as benefiting the general welfare that spend a disproportionate amount of funds on large corporations, and often in uncompetitive, or [anti-competitive](http://en.wikipedia.org/wiki/Anti-competitive) ways. For instance, in the United States, [agricultural subsidies](http://en.wikipedia.org/wiki/Agricultural_subsidy) are usually portrayed as helping honest, hardworking independent farmers stay afloat. However, the majority of income gained from commodity support programs actually goes to large agribusiness corporations such as [Archer Daniels Midland](http://en.wikipedia.org/wiki/Archer_Daniels_Midland), as they own a considerably larger percentage of production.[[5]](http://en.wikipedia.org/wiki/Corporate_socialism#cite_note-4)

    According to the [Cato Institute](http://en.wikipedia.org/wiki/Cato_Institute), the U.S. federal government spent $92 billion on corporate welfare during fiscal year 2006. Recipients included [Boeing](http://en.wikipedia.org/wiki/Boeing), [Xerox](http://en.wikipedia.org/wiki/Xerox), [IBM](http://en.wikipedia.org/wiki/IBM), [Motorola](http://en.wikipedia.org/wiki/Motorola), [Dow Chemical](http://en.wikipedia.org/wiki/Dow_Chemical), and [General Electric](http://en.wikipedia.org/wiki/General_Electric).[[6]](http://en.wikipedia.org/wiki/Corporate_socialism#cite_note-5)

    Alan Peters and Peter Fisher have estimated that state and local governments provide $40-50 billion annually in economic development incentives,[[7]](http://en.wikipedia.org/wiki/Corporate_socialism" \l "cite_note-6) which many critics characterize as corporate welfare.” [↑](#endnote-ref-85)
86. <http://en.wikipedia.org/wiki/Oligarchy>

    “An **oligarchy** (from [Greek](http://en.wikipedia.org/wiki/Greek_language) ὀλιγαρχία, *oligarkhía*[[1]](http://en.wikipedia.org/wiki/Oligarchy#cite_note-0)) is a form of power structure in which [power](http://en.wikipedia.org/wiki/Political_power) effectively rests with a small segment of society distinguished by royalty, wealth, family ties, or military control. The word oligarchy is from the Greek words "ὀλίγος" (*olígos*), "a few"[[2]](http://en.wikipedia.org/wiki/Oligarchy#cite_note-1) and the verb "ἄρχω" (*archo*), "to rule, to govern, to command".[[3]](http://en.wikipedia.org/wiki/Oligarchy#cite_note-2) Such states are often controlled by politically powerful families whose children are heavily conditioned and mentored to be heirs of the power of the oligarchy.

    Oligarchies have been [tyrannical](http://en.wikipedia.org/wiki/Tyrant) throughout history, being completely reliant on public [servitude](http://en.wikipedia.org/wiki/Servitude) to exist. Although [Aristotle](http://en.wikipedia.org/wiki/Aristotle) pioneered the use of the term as a synonym for rule by the rich, for which the exact term is [plutocracy](http://en.wikipedia.org/wiki/Plutocracy), oligarchy is not always a rule by wealth, as oligarchs can simply be a privileged group, and do not have to be connected by bloodlines as in a [monarchy](http://en.wikipedia.org/wiki/Monarchy). Some city-states from [ancient Greece](http://en.wikipedia.org/wiki/Ancient_Greece) were oligarchies.” [↑](#endnote-ref-86)
87. <http://en.wikipedia.org/wiki/Shock_therapy_%28economics%29>

    “Since the USSR's collapse, the [post-Soviet states](http://en.wikipedia.org/wiki/Post-Soviet_states) faced many problems. Among other things, provision of [healthcare](http://en.wikipedia.org/wiki/Healthcare) and social services had declined, [life expectancy](http://en.wikipedia.org/wiki/Life_expectancy) had fallen, and the GDP was halved. [Poverty](http://en.wikipedia.org/wiki/Poverty) in the region had increased more than tenfold.[[11]](http://en.wikipedia.org/wiki/Shock_therapy_%28economics%29#cite_note-10) The economic crisis that struck all post-Soviet countries in the 1990s was twice as intense as the [Great Depression](http://en.wikipedia.org/wiki/Great_Depression) in the countries of Western Europe and the United States in the 1930s.[[12]](http://en.wikipedia.org/wiki/Shock_therapy_%28economics%29#cite_note-11)[[13]](http://en.wikipedia.org/wiki/Shock_therapy_%28economics%29#cite_note-Russia-12)

    However, it has not been established whether these adverse outcomes were due to the general collapse of the [Soviet economy](http://en.wikipedia.org/wiki/Economy_of_the_Soviet_Union) (which began before 1989) or the policies subsequently implemented or a combination of both. Some research suggests that the very fast pace of 'shock therapy' privatization mattered, and had a particularly harsh effect on the death rate in Russia.[[14]](http://en.wikipedia.org/wiki/Shock_therapy_%28economics%29#cite_note-13) Sachs himself resigned from his post as advisor, after stating the he felt his advice was unheeded and his policy recommendations were not actually put into practice.[[15]](http://en.wikipedia.org/wiki/Shock_therapy_%28economics%29#cite_note-14)[[16](http://en.wikipedia.org/wiki/Shock_therapy_%28economics%29#cite_note-15)” [↑](#endnote-ref-87)
88. <http://en.wikipedia.org/wiki/Tito>

    “**Josip Broz Tito** (born **Josip Broz**; [Serbo-Croatian Cyrillic](http://en.wikipedia.org/wiki/Serbo-Croatian_Cyrillic): Јосип Броз Тито; 25 May 1892 – 4 May 1980) was a [Yugoslav](http://en.wikipedia.org/wiki/Socialist_Federal_Republic_of_Yugoslavia) revolutionary and statesman.[[1]](http://en.wikipedia.org/wiki/Tito#cite_note-britannica-0) He was Secretary-General (later President) of the [League of Communists of Yugoslavia](http://en.wikipedia.org/wiki/League_of_Communists_of_Yugoslavia) (1939–80), and went on to lead the [World War II](http://en.wikipedia.org/wiki/World_War_II) Yugoslav guerrilla movement, the Yugoslav [Partisans](http://en.wikipedia.org/wiki/Yugoslav_Partisans) (1941–45).[[2]](http://en.wikipedia.org/wiki/Tito#cite_note-1) After the war, he was the [authoritarian](http://en.wikipedia.org/wiki/Authoritarian)[[3]](http://en.wikipedia.org/wiki/Tito#cite_note-Cohen-2)[[4]](http://en.wikipedia.org/wiki/Tito#cite_note-Andjelic-3)[[5]](http://en.wikipedia.org/wiki/Tito#cite_note-Tierney-4) [Prime Minister](http://en.wikipedia.org/wiki/Prime_Minister_of_SFR_Yugoslavia) (1943–63) and later [President](http://en.wikipedia.org/wiki/President_of_SFR_Yugoslavia) (1953–80) of the [Socialist Federal Republic of Yugoslavia](http://en.wikipedia.org/wiki/Socialist_Federal_Republic_of_Yugoslavia) (SFRY). From 1943 to his death in 1980, he held the rank of [Marshal of Yugoslavia](http://en.wikipedia.org/wiki/Marshal_of_Yugoslavia), serving as the supreme commander of the Yugoslav military, the [Yugoslav People's Army](http://en.wikipedia.org/wiki/Yugoslav_People%27s_Army) (JNA).

    Tito was the chief architect of the "[second Yugoslavia](http://en.wikipedia.org/wiki/Socialist_Federal_Republic_of_Yugoslavia)", a socialist federation that lasted from World War II until 1991. Despite being one of the founders of [Cominform](http://en.wikipedia.org/wiki/Cominform), he was also the first (and the only successful) Cominform member to defy Soviet hegemony. A backer of independent roads to socialism (sometimes referred to as "national communism" or "[Titoism](http://en.wikipedia.org/wiki/Titoism)"), he was one of the main founders and promoters of the [Non-Aligned Movement](http://en.wikipedia.org/wiki/Non-Aligned_Movement), and its first Secretary-General. As such, he supported the policy of nonalignment between the two hostile blocs in the [Cold War](http://en.wikipedia.org/wiki/Cold_War).” [↑](#endnote-ref-88)
89. <http://en.wikipedia.org/wiki/Usury>

    “**Usury** (pronounced [/ˈjuːʒəri/](http://en.wikipedia.org/wiki/Wikipedia:IPA_for_English), comes from the [Medieval Latin](http://en.wikipedia.org/wiki/Medieval_Latin) *usuria*, "interest" or from the Latin *usura* "interest") originally meant the charging of [interest](http://en.wikipedia.org/wiki/Interest) on [loans](http://en.wikipedia.org/wiki/Loan). This included charging a fee for the use of money, such as at a [bureau de change](http://en.wikipedia.org/wiki/Bureau_de_change). After interest became acceptable, usury came to mean the interest above the rate allowed by law. In common usage today, the word means the charging of unreasonable or relatively high rates of interest. The term is largely derived from Christian religious principles; [*Riba*](http://en.wikipedia.org/wiki/Riba) is the corresponding [Arabic](http://en.wikipedia.org/wiki/Arabic_language) term and [*ribbit*](http://en.wikipedia.org/wiki/Loans_and_interest_in_Judaism) the [Hebrew](http://en.wikipedia.org/wiki/Hebrew_language) one. The primary focus in this article is on the [Christian](http://en.wikipedia.org/wiki/Christian) tradition.” [↑](#endnote-ref-89)
90. <http://motherjones.com/politics/2009/09/fiji-spin-bottle> [↑](#endnote-ref-90)
91. <http://en.wikipedia.org/wiki/Serfdom>

    “**Serfdom** is the [socio-economic](http://en.wikipedia.org/wiki/Socio-economic) status of unfree [peasants](http://en.wikipedia.org/wiki/Peasants) under [feudalism](http://en.wikipedia.org/wiki/Feudalism), and specifically relates to [Manorialism](http://en.wikipedia.org/wiki/Manorialism). It was a condition of [bondage](http://en.wikipedia.org/wiki/Debt_bondage) or modified [slavery](http://en.wikipedia.org/wiki/Slavery) which developed primarily during the [High Middle Ages](http://en.wikipedia.org/wiki/High_Middle_Ages) in Europe. Serfdom was the enforced labour of serfs on the fields of landowners, in return for protection and the right to work on their leased fields.

    Serfdom involved not only work in fields, but also various other activities, like [forestry](http://en.wikipedia.org/wiki/Forestry), [mining](http://en.wikipedia.org/wiki/Mining), transportation (both land and river-based), and crafts. [Manors](http://en.wikipedia.org/wiki/Manorialism) formed the basic unit of society during this period, and the lord and his serfs were bound legally, economically, and socially. Serfs were labourers who were bound to the land; they formed the lowest [social class](http://en.wikipedia.org/wiki/Social_class) of the feudal society. Serfs were also defined as people in whose labour landowners held property rights. Before the 1861 abolition of serfdom in Russia, a landowner's estate was often measured by the number of "souls" he owned. [Feudalism](http://en.wikipedia.org/wiki/Feudalism) in Europe evolved from agricultural slavery in the late [Roman Empire](http://en.wikipedia.org/wiki/Roman_Empire) and spread through Europe around the 10th century; it flourished in Europe during the Middle Ages but lasted until the 19th century in some countries.” [↑](#endnote-ref-91)
92. <http://en.wikipedia.org/wiki/Magna_carta>

    “**Magna Carta** is an [English](http://en.wikipedia.org/wiki/Kingdom_of_England) [charter](http://en.wikipedia.org/wiki/Charter), originally issued in the year [1215](http://en.wikipedia.org/wiki/1215), and reissued later in the 13th century in modified versions which omit certain temporary provisions, including the most direct challenges to the monarch's authority. The charter first passed into law in 1225. The 1297 version, described as **The Great Charter of the Liberties of England, and of the Liberties of the Forest**, still remains on the [statute](http://en.wikipedia.org/wiki/Statute) books of [England and Wales](http://en.wikipedia.org/wiki/England_and_Wales).

    The 1215 Charter required King [John of England](http://en.wikipedia.org/wiki/John_of_England) to proclaim certain liberties, and accept that his [will](http://en.wikipedia.org/wiki/Will_%28philosophy%29) was not [arbitrary](http://en.wikipedia.org/wiki/Arbitrary), for example by explicitly accepting that no "freeman" (in the sense of non-[serf](http://en.wikipedia.org/wiki/Serf)) could be punished except through the [law of the land](http://en.wikipedia.org/wiki/Law_of_the_land), a right which is still in existence today.

    Magna Carta was the first document forced onto an [English King](http://en.wikipedia.org/wiki/English_King) by a group of his subjects (the barons) in an attempt to limit his powers by law and protect their privileges. It was preceded and directly influenced by the 1100 [Charter of Liberties](http://en.wikipedia.org/wiki/Charter_of_Liberties), when King [Henry I](http://en.wikipedia.org/wiki/Henry_I_of_England) had specified particular areas where his powers would be limited.” [↑](#endnote-ref-92)
93. <http://en.wikipedia.org/wiki/Napoleon>

    “**Napoleon Bonaparte** (French: *Napoléon Bonaparte* French pronunciation: [[napoleɔ̃ bɔnɑpaʁt]](http://en.wikipedia.org/wiki/Wikipedia:IPA_for_French), Italian: *Napoleone di Buonaparte*; 15 August 1769 – 5 May 1821) was a military and political leader of France and [Emperor of the French](http://en.wikipedia.org/wiki/Emperor_of_the_French) as **Napoleon I**, whose actions shaped European politics in the early 19th century.

    Napoleon was born in [Corsica](http://en.wikipedia.org/wiki/Corsica) to parents of [noble Italian ancestry](http://en.wikipedia.org/wiki/Nobility_of_Italy) and trained as an artillery officer in mainland France. Bonaparte rose to prominence under the [First French Republic](http://en.wikipedia.org/wiki/First_French_Republic) and led successful campaigns against the [First](http://en.wikipedia.org/wiki/First_Coalition) and [Second](http://en.wikipedia.org/wiki/War_of_the_Second_Coalition) Coalitions arrayed against France. In 1799, he staged a [*coup d'état*](http://en.wikipedia.org/wiki/Coup_d%27%C3%A9tat) and installed himself as First Consul; five years later the French Senate proclaimed him emperor. In the first decade of the nineteenth century, the [French Empire](http://en.wikipedia.org/wiki/First_French_Empire) under Napoleon engaged in a series of conflicts—the [Napoleonic Wars](http://en.wikipedia.org/wiki/Napoleonic_Wars)—involving every major European power. After a streak of victories, France secured a dominant position in continental Europe, and Napoleon maintained the French [sphere of influence](http://en.wikipedia.org/wiki/Sphere_of_influence) through the formation of extensive alliances and the appointment of friends and family members to rule other European countries as French [client states](http://en.wikipedia.org/wiki/Client_state).” [↑](#endnote-ref-93)
94. <http://en.wikipedia.org/wiki/Wildebeest>

    “Wildebeest are known for their annual [migration](http://en.wiktionary.org/wiki/migration) to new [pastures](http://en.wikipedia.org/wiki/Pastures). Many [documentaries](http://en.wikipedia.org/wiki/Documentaries) feature wildebeest crossing [rivers](http://en.wikipedia.org/wiki/River), or being eaten by [crocodiles](http://en.wikipedia.org/wiki/Crocodiles) or drowning in the attempt. Although it is assumed that this migration is a frenzy and that the wildebeest cross blindly, recent research has shown that a herd of gnu possesses what is known as a "[swarm intelligence](http://en.wikipedia.org/wiki/Swarm_intelligence)", whereby the animals systematically explore and overcome the obstacle as one.[[*citation needed*](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed)]

    The major predators that prey on wildebeest are [lions](http://en.wikipedia.org/wiki/Lions), [hyenas](http://en.wikipedia.org/wiki/Hyenas), [cheetahs](http://en.wikipedia.org/wiki/Cheetahs), [leopards](http://en.wikipedia.org/wiki/Leopards), and [crocodiles](http://en.wikipedia.org/wiki/Crocodiles), who seem to favor the wildebeest. However, wildebeest are very strong and can inflict considerable injury to even a lion. Wildebeest have an apparent maximum running speed of around 64 km/h (40 mph).[*[citation needed](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed" \o "Wikipedia:Citation needed)*] The primary defensive tactic is herding, where the young animals are protected by the older larger ones while the herd runs as a group. Typically the predators attempt to cut out a young or ill animal and attack without having to worry about the herd. Wildebeest have developed some additional sophisticated cooperative behavior and scientists are unsure how much is learned behaviorally and how much is hard wired into the DNA of the animal. For example, at night the animals will take turns sleeping while others stand guard against a night attack by invading predators.” [↑](#endnote-ref-94)
95. <http://en.wikipedia.org/wiki/Market_trend>

    “A bull market is associated with increasing investor confidence, and increased investing in anticipation of future price increases ([capital gains](http://en.wikipedia.org/wiki/Capital_gain)). A bullish trend in the stock market often begins before the general economy shows clear signs of recovery. It is a win-win situation for the investors.

    India's [Bombay Stock Exchange](http://en.wikipedia.org/wiki/Bombay_Stock_Exchange) Index, [SENSEX](http://en.wikipedia.org/wiki/SENSEX), was in a bull market trend for about five years from April 2003 to January 2008 as it increased from 2,900 points to 21,000 points. A notable bull market was in the 1990s and most of the 1980s when the U.S. and many other stock markets rose; the end of this time period sees the [dot-com bubble](http://en.wikipedia.org/wiki/Dot-com_bubble).

    A bear market is a general decline in the stock market over a period of time.[[6]](http://en.wikipedia.org/wiki/Market_trend#cite_note-5) It is a transition from high investor optimism to widespread investor fear and pessimism.

    According to [The Vanguard Group](http://en.wikipedia.org/wiki/The_Vanguard_Group), "While there’s no agreed-upon definition of a bear market, one generally accepted measure is a price decline of 20% or more over at least a two-month period."[[7]](http://en.wikipedia.org/wiki/Market_trend#cite_note-6)

    A bear market followed the [Wall Street Crash of 1929](http://en.wikipedia.org/wiki/Wall_Street_Crash_of_1929) and erased 89% (from 386 to 40) of the [Dow Jones Industrial Average](http://en.wikipedia.org/wiki/Dow_Jones_Industrial_Average)'s market capitalization by July 1932, marking the start of the [Great Depression](http://en.wikipedia.org/wiki/Great_Depression). After regaining nearly 50% of its losses, a longer bear market from 1937 to 1942 occurred in which the market was again cut in half. Another long-term bear market occurred from about 1973 to 1982, encompassing the 1970s energy crisis and the high unemployment of the early 1980s. Yet another bear market occurred between March 2000 and October 2002. The most recent example occurred between October 2007 and March 2009. [↑](#endnote-ref-95)
96. <http://en.wikipedia.org/wiki/French_Revolution>

    “The French Revolution began in 1789 with the convocation of the [Estates-General](http://en.wikipedia.org/wiki/Estates-General_of_1789) in May. The first year of the Revolution witnessed members of the [Third Estate](http://en.wikipedia.org/wiki/Third_Estate) proclaiming the [Tennis Court Oath](http://en.wikipedia.org/wiki/Tennis_Court_Oath) in June, the [assault on the Bastille](http://en.wikipedia.org/wiki/Storming_of_the_Bastille) in July, the passage of the [Declaration of the Rights of Man and of the Citizen](http://en.wikipedia.org/wiki/Declaration_of_the_Rights_of_Man_and_of_the_Citizen) in August, and an [epic march](http://en.wikipedia.org/wiki/The_Women%27s_March_on_Versailles) on [Versailles](http://en.wikipedia.org/wiki/Versailles) that forced the royal court back to [Paris](http://en.wikipedia.org/wiki/Paris) in October. The next few years were dominated by tensions between various [liberal assemblies](http://en.wikipedia.org/wiki/The_Legislative_Assembly_and_the_fall_of_the_French_monarchy) and a [conservative](http://en.wikipedia.org/wiki/Conservatism) monarchy intent on thwarting major reforms. A [republic](http://en.wikipedia.org/wiki/First_French_Republic) was proclaimed in September 1792 and [King Louis XVI](http://en.wikipedia.org/wiki/Louis_XVI_of_France) was executed the next year. External threats also played a dominant role in the development of the Revolution. The [French Revolutionary Wars](http://en.wikipedia.org/wiki/French_Revolutionary_Wars) started in 1792 and ultimately featured [spectacular French victories](http://en.wikipedia.org/wiki/Military_history_of_France) that facilitated the conquest of the [Italian peninsula](http://en.wikipedia.org/wiki/Italian_peninsula), the [Low Countries](http://en.wikipedia.org/wiki/Low_Countries), and most territories west of the [Rhine](http://en.wikipedia.org/wiki/Rhine)—achievements that had defied previous French governments for centuries. Internally, popular sentiments radicalized the Revolution significantly, culminating in the brutal [Reign of Terror](http://en.wikipedia.org/wiki/Reign_of_Terror) from 1793 until 1794. After the fall of [Robespierre](http://en.wikipedia.org/wiki/Maximilien_Robespierre) and the [Jacobins](http://en.wikipedia.org/wiki/Jacobin_Club), the [Directory](http://en.wikipedia.org/wiki/French_Directory) assumed control of the French state in 1795 and held power until 1799, when it was replaced by the [Consulate](http://en.wikipedia.org/wiki/French_Consulate) under [Napoleon Bonaparte](http://en.wikipedia.org/wiki/Napoleon_Bonaparte).” [↑](#endnote-ref-96)
97. <http://en.wikipedia.org/wiki/Karl_Marx>

    “Marx argued that [capitalism](http://en.wikipedia.org/wiki/Capitalism), like previous socioeconomic systems, would inevitably produce internal tensions which would lead to its destruction.[[3]](http://en.wikipedia.org/wiki/Karl_Marx#cite_note-2) Just as [capitalism replaced feudalism](http://en.wikipedia.org/wiki/Transition_from_feudalism_to_capitalism), he believed [socialism](http://en.wikipedia.org/wiki/Socialism) would, in its turn, replace capitalism, and lead to a [stateless](http://en.wikipedia.org/wiki/Stateless_society), [classless society](http://en.wikipedia.org/wiki/Classless_society) called [pure communism](http://en.wikipedia.org/wiki/Pure_communism). This would emerge after a transitional period called the "[dictatorship of the proletariat](http://en.wikipedia.org/wiki/Dictatorship_of_the_proletariat)": a period sometimes referred to as the "workers state" or "workers' democracy".[[4]](http://en.wikipedia.org/wiki/Karl_Marx#cite_note-3)[[5]](http://en.wikipedia.org/wiki/Karl_Marx#cite_note-4) In section one of *The Communist Manifesto* Marx describes [feudalism](http://en.wikipedia.org/wiki/Feudalism), capitalism, and the role internal social contradictions play in the historical process:

    We see then: the means of production and of exchange, on whose foundation the [bourgeoisie](http://en.wikipedia.org/wiki/Bourgeoisie) built itself up, were generated in feudal society. At a certain stage in the development of these means of production and of exchange, the conditions under which feudal society produced and exchanged...the feudal relations of property became no longer compatible with the already developed productive forces; they became so many fetters. They had to be burst asunder; they were burst asunder. Into their place stepped free competition, accompanied by a social and political constitution adapted in it, and the economic and political sway of the bourgeois class. A similar movement is going on before our own eyes.... The productive forces at the disposal of society no longer tend to further the development of the conditions of bourgeois property; on the contrary, they have become too powerful for these conditions, by which they are fettered, and so soon as they overcome these fetters, they bring order into the whole of bourgeois society, endanger the existence of bourgeois property.[[6]](http://en.wikipedia.org/wiki/Karl_Marx#cite_note-manifesto-5)

    Marx argued for a systemic understanding of socio-economic change. He argued that the structural contradictions within capitalism necessitate its end, giving way to socialism:

    The development of Modern Industry, therefore, cuts from under its feet the very foundation on which the bourgeoisie produces and appropriates products. What the bourgeoisie, therefore, produces, above all, are its own grave-diggers. Its fall and the victory of the proletariat are equally inevitable.

    —(*The Communist Manifesto*)[[6]](http://en.wikipedia.org/wiki/Karl_Marx#cite_note-manifesto-5)” [↑](#endnote-ref-97)
98. <http://en.wikipedia.org/wiki/Industrial_revolution>

    “The **Industrial Revolution** was a period from the 18th to the 19th century where major changes in agriculture, manufacturing, mining, transport and technology had a profound effect on the [socioeconomic](http://en.wikipedia.org/wiki/Socioeconomics) and [cultural](http://en.wikipedia.org/wiki/Culture) conditions starting in the [United Kingdom](http://en.wikipedia.org/wiki/United_Kingdom), then subsequently spreading throughout Europe, North America, and eventually the world. The onset of the Industrial Revolution marks the major turning point in human history; almost every aspect of daily life was eventually influenced in some way. Most notably, average income and population began to exhibit unprecedented sustained growth. In the two centuries following 1800, the world's average income increased over 10-fold, while the world's population increased over 6-fold.[[2]](http://en.wikipedia.org/wiki/Industrial_revolution#cite_note-1) In the words of Nobel Prize winning Robert E. Lucas, Jr., "For the first time in history, the living standards of the masses of ordinary people have begun to undergo sustained growth. ... Nothing remotely like this economic behavior has happened before."[[3]](http://en.wikipedia.org/wiki/Industrial_revolution#cite_note-2) [↑](#endnote-ref-98)
99. <http://en.wikipedia.org/wiki/Luddite>

    “The **Luddites** were a [social movement](http://en.wikipedia.org/wiki/Social_movement) of [British](http://en.wikipedia.org/wiki/United_Kingdom_of_Great_Britain_and_Ireland) [textile](http://en.wikipedia.org/wiki/Textile) artisans in the nineteenth century who protested – often by destroying mechanized [looms](http://en.wikipedia.org/wiki/Loom) - against the changes produced by the [Industrial Revolution](http://en.wikipedia.org/wiki/Industrial_Revolution), which they felt was leaving them without work and changing their way of life. It took its name from [Ned Ludd](http://en.wikipedia.org/wiki/Ned_Ludd).

    The movement emerged in the harsh economic climate of the [Napoleonic Wars](http://en.wikipedia.org/wiki/Napoleonic_Wars) and difficult working conditions in the new textile factories. The principal objection of the Luddites was to the introduction of new wide-framed automated looms that could be operated by cheap, relatively unskilled labour, resulting in the loss of jobs for many skilled textile workers. The movement began in 1811 and 1812, when mills and pieces of factory machinery were burned by [handloom](http://en.wikipedia.org/wiki/Handloom) [weavers](http://en.wikipedia.org/wiki/Weaver), and for a short time was so strong that Luddites clashed in battles with the [British Army](http://en.wikipedia.org/wiki/British_Army). Measures taken by the [British government](http://en.wikipedia.org/wiki/British_government) to suppress the movement included a mass trial at [York](http://en.wikipedia.org/wiki/York) in 1812 that resulted in many [executions](http://en.wikipedia.org/wiki/Execution) and [penal transportations](http://en.wikipedia.org/wiki/Penal_transportation).

    The action of destroying new machines had a long tradition before the Luddites, especially within the [textile industry](http://en.wikipedia.org/wiki/Textile_industry). Many inventors of the 18th century were attacked by vested interests who were threatened by new and more efficient ways of making [yarn](http://en.wikipedia.org/wiki/Yarn) and [cloth](http://en.wikipedia.org/wiki/Cloth). [Samuel Crompton](http://en.wikipedia.org/wiki/Samuel_Crompton), for example, had to hide his new [spinning mule](http://en.wikipedia.org/wiki/Spinning_mule) in the roof of his house at [Hall i' th' Wood](http://en.wikipedia.org/wiki/Hall_i%27_th%27_Wood) in 1779 to prevent it being destroyed by the mob.

    In modern usage, "Luddite" is a term describing those opposed to [industrialization](http://en.wikipedia.org/wiki/Industrialization), [automation](http://en.wikipedia.org/wiki/Automation), [computerization](http://en.wikipedia.org/wiki/Computerization) or new [technologies](http://en.wikipedia.org/wiki/Technology) in general.[[1]](http://en.wikipedia.org/wiki/Luddite#cite_note-0)” [↑](#endnote-ref-99)
100. <http://en.wikipedia.org/wiki/Imperialism>

     “**Imperialism**, as defined by *The Dictionary of Human Geography*, is "the creation and maintenance of an unequal economic, cultural and territorial relationship, usually between states and often in the form of an [Empire](http://en.wikipedia.org/wiki/Empire), based on domination and subordination." Imperialism has been described as a primarily western concept that employs "expansionist – [mercantilist](http://en.wikipedia.org/wiki/Mercantilist) and latterly [communist](http://en.wikipedia.org/wiki/Communist) – systems."[[1]](http://en.wikipedia.org/wiki/Imperialism#cite_note-0)[[*which?*](http://en.wikipedia.org/wiki/Wikipedia:Avoid_weasel_words)] Geographical domains include the [Mongolian Empire](http://en.wikipedia.org/wiki/Mongolian_Empire), [Roman Empire](http://en.wikipedia.org/wiki/Roman_Empire), the [Ottoman Empire](http://en.wikipedia.org/wiki/Ottoman_Empire), the [Holy Roman Empire](http://en.wikipedia.org/wiki/Holy_Roman_Empire), the [Portuguese Empire](http://en.wikipedia.org/wiki/Portuguese_Empire), the [Spanish Empire](http://en.wikipedia.org/wiki/Spanish_Empire), the [Dutch Empire](http://en.wikipedia.org/wiki/Dutch_Empire), the [Persian Empire](http://en.wikipedia.org/wiki/Persian_Empire), the [French Empire](http://en.wikipedia.org/wiki/French_colonial_empire),[[2]](http://en.wikipedia.org/wiki/Imperialism#cite_note-1) the [Russian Empire](http://en.wikipedia.org/wiki/Russian_Empire),[[3]](http://en.wikipedia.org/wiki/Imperialism#cite_note-2) the [American Empire](http://en.wikipedia.org/wiki/American_Empire), the [Chinese Empire](http://en.wikipedia.org/wiki/History_of_China), or the [British Empire](http://en.wikipedia.org/wiki/British_Empire),[[4]](http://en.wikipedia.org/wiki/Imperialism#cite_note-3) but the term can equally be applied to domains of knowledge, beliefs, values and expertise, such as the Empires of [Christianity](http://en.wikipedia.org/wiki/Christianity) (see [Christendom](http://en.wikipedia.org/wiki/Christendom))[[5]](http://en.wikipedia.org/wiki/Imperialism#cite_note-4) or [Islam](http://en.wikipedia.org/wiki/Islam) (see [Caliphate](http://en.wikipedia.org/wiki/Caliphate)).[[6]](http://en.wikipedia.org/wiki/Imperialism#cite_note-5) Imperialism is usually [autocratic](http://en.wikipedia.org/wiki/Autocratic), and also sometimes monolithic[[7]](http://en.wikipedia.org/wiki/Imperialism" \l "cite_note-6)[[*clarification needed*](http://en.wikipedia.org/wiki/Wikipedia:Please_clarify)] in character.” [↑](#endnote-ref-100)
101. <http://en.wikipedia.org/wiki/Wealth_inequality>

     “**Economic inequality** (or "wealth and income differences") comprises all disparities in the distribution of [economic](http://en.wikipedia.org/wiki/Economic) [assets](http://en.wikipedia.org/wiki/Assets) and [income](http://en.wikipedia.org/wiki/Income). The term typically refers to inequality among individuals and groups within a society, but can also refer to [inequality among countries](http://en.wikipedia.org/wiki/International_inequality). Economic Inequality generally refers to [equality of outcome](http://en.wikipedia.org/wiki/Equality_of_outcome), and is related to the idea of [equality of opportunity](http://en.wikipedia.org/wiki/Equality_of_opportunity). It is a contested issue whether economic inequality is a positive or negative phenomenon, both on utilitarian and moral grounds. A study published in 2009[[1]](http://en.wikipedia.org/wiki/Wealth_inequality#cite_note-Spirit_Level-0) has shown that negative social phenomena such as shorter life expectancy, higher disease rates, homicide, infant mortality, obesity, teenage pregnancies, emotional depression and prison population correlate with higher socioeconomic inequality.

     Economic inequality has existed in a wide range of societies and historical periods; its nature, cause and importance are open to broad debate. A country's economic structure or system (for example, [capitalism](http://en.wikipedia.org/wiki/Capitalism) or [socialism](http://en.wikipedia.org/wiki/Socialism)), ongoing or past wars, and differences in individuals' abilities to create wealth are all involved in the creation of economic inequality.” [↑](#endnote-ref-101)
102. <http://en.wikipedia.org/wiki/Dead_Sea_Scrolls>

     “The **Dead Sea Scrolls** are a collection of about 900 documents, including texts from the [Hebrew Bible](http://en.wikipedia.org/wiki/Hebrew_Bible), discovered between 1947 and 1956 in eleven [caves](http://en.wikipedia.org/wiki/The_Qumran_Caves) in and around the ruins of the ancient settlement of [Khirbet Qumran](http://en.wikipedia.org/wiki/Qumran) on the northwest shore of the [Dead Sea](http://en.wikipedia.org/wiki/Dead_Sea) in the [West Bank](http://en.wikipedia.org/wiki/West_Bank).

     The texts are of great religious and historical significance, as they include the oldest known surviving copies of Biblical and extra-biblical documents and preserve evidence of great diversity in late [Second Temple](http://en.wikipedia.org/wiki/Second_Temple) [Judaism](http://en.wikipedia.org/wiki/Judaism). They are written in [Hebrew](http://en.wikipedia.org/wiki/Hebrew), [Aramaic](http://en.wikipedia.org/wiki/Aramaic) and [Greek](http://en.wikipedia.org/wiki/Koine_Greek), mostly on [parchment](http://en.wikipedia.org/wiki/Parchment), but with some written on [papyrus](http://en.wikipedia.org/wiki/Papyrus).[[1]](http://en.wikipedia.org/wiki/Dead_Sea_Scrolls#cite_note-0) These manuscripts generally date between 150 BCE and 70 CE.[[2]](http://en.wikipedia.org/wiki/Dead_Sea_Scrolls#cite_note-1) The scrolls are traditionally identified with the ancient [Jewish](http://en.wikipedia.org/wiki/Jew) [sect](http://en.wikipedia.org/wiki/Sect) called the [Essenes](http://en.wikipedia.org/wiki/Essenes), though some recent interpretations have challenged this association and argue that the scrolls were penned by priests in [Jerusalem](http://en.wikipedia.org/wiki/Jerusalem), [Zadokites](http://en.wikipedia.org/wiki/Zadokites), or other unknown Jewish groups.[[3]](http://en.wikipedia.org/wiki/Dead_Sea_Scrolls#cite_note-2)[[4]](http://en.wikipedia.org/wiki/Dead_Sea_Scrolls#cite_note-golb-2009-3)” [↑](#endnote-ref-102)
103. <http://en.wikipedia.org/wiki/First_Jewish%E2%80%93Roman_War>

     “The siege of Jerusalem, the capital city, had begun early in the war, but had turned into a stalemate. Unable to breach the city's defenses, the Roman armies established a permanent camp just outside the city, digging a trench around the circumference of its walls and building a wall as high as the city walls themselves around Jerusalem. Anyone caught in the trench attempting to flee the city would be captured, [crucified](http://en.wikipedia.org/wiki/Crucified), and placed in lines on top of the dirt wall facing into Jerusalem. The two Zealot leaders, [John of Gischala](http://en.wikipedia.org/wiki/John_of_Gischala) and [Simon Bar Giora](http://en.wikipedia.org/wiki/Simon_Bar_Giora), only ceased hostilities and joined forces to defend the city when the Romans began to construct ramparts for the siege. Those attempting to escape the city were crucified, with as many as five hundred crucifixions occurring in a day.[[6]](http://en.wikipedia.org/wiki/First_Jewish%E2%80%93Roman_War#cite_note-5)

     [Titus Flavius](http://en.wikipedia.org/wiki/Titus), Vespasian's son, led the final assault and [siege of Jerusalem](http://en.wikipedia.org/wiki/Siege_of_Jerusalem_%2870%29). During the infighting inside the city walls, a stockpiled supply of dry food was intentionally burned by [Sicarii](http://en.wikipedia.org/wiki/Sicarii) to induce the defenders to fight against the siege instead of negotiating peace; as a result many city dwellers and soldiers died of starvation during the siege. [Zealots](http://en.wikipedia.org/wiki/Zealots) under [Eleazar ben Simon](http://en.wikipedia.org/wiki/Eleazar_ben_Simon) held the Temple, [Sicarii](http://en.wikipedia.org/wiki/Sicarii) led by Simon Bar Giora held the upper city. Titus eventually wiped out the last remnants of Jewish resistance.[[*citation needed*](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed)]” [↑](#endnote-ref-103)
104. <http://en.wikipedia.org/wiki/Italian_Fascism>

     “The [First World War](http://en.wikipedia.org/wiki/World_War_I) (1914–18) [inflated](http://en.wikipedia.org/wiki/Inflation) Italy’s economy with great debts, [unemployment](http://en.wikipedia.org/wiki/Unemployment) (aggravated by thousands of demobilised soldiers), social discontent featuring [strikes](http://en.wikipedia.org/wiki/Strike_action), [organised crime](http://en.wikipedia.org/wiki/Organised_crime),[[13]](http://en.wikipedia.org/wiki/Italian_Fascism#cite_note-fsmith-12) and [anarchist](http://en.wikipedia.org/wiki/Anarchism), [Socialist](http://en.wikipedia.org/wiki/Socialism), and [Communist](http://en.wikipedia.org/wiki/Communism) insurrections.[[18]](http://en.wikipedia.org/wiki/Italian_Fascism#cite_note-marchonrome-17) When the elected [Italian Liberal Party](http://en.wikipedia.org/wiki/Italian_Liberal_Party_%28historical%29) Government could not control Italy, the Fascist Revolutionary Party (FRP) Leader [Benito Mussolini](http://en.wikipedia.org/wiki/Benito_Mussolini) took matters in hand, combating those societal ills with the [Blackshirts](http://en.wikipedia.org/wiki/Blackshirts), paramilitary squads of Great War veterans and ex-socialists; [Prime Ministers](http://en.wikipedia.org/wiki/Prime_Minister_of_Italy) such as [Giovanni Giolitti](http://en.wikipedia.org/wiki/Giovanni_Giolitti) allowed the Fascist’s taking the law in hand.[[19]](http://en.wikipedia.org/wiki/Italian_Fascism#cite_note-giolitti-18) The Liberal Government preferred Fascist [class collaboration](http://en.wikipedia.org/wiki/Class_collaboration) to the [Communist Party of Italy](http://en.wikipedia.org/wiki/Italian_Communist_Party)’s bloody [class conflict](http://en.wikipedia.org/wiki/Class_conflict), should they assume government, as had [Lenin](http://en.wikipedia.org/wiki/Lenin)’s [Bolsheviks](http://en.wikipedia.org/wiki/Bolshevism) in the recent [Russian Revolution](http://en.wikipedia.org/wiki/Russian_Revolution_%281917%29) of 1917.[[19]](http://en.wikipedia.org/wiki/Italian_Fascism#cite_note-giolitti-18) [*The Manifesto of the Fascist Struggle*](http://en.wikipedia.org/wiki/The_Manifesto_of_the_Fascist_Struggle) (June 1919) of the FRP presented the politico-philosophic tenets of [Fascism](http://en.wikipedia.org/wiki/Fascism); it included [women's suffrage](http://en.wikipedia.org/wiki/Women%27s_suffrage), a [minimum wage](http://en.wikipedia.org/wiki/Minimum_wage), an eight-hour workday, and reorganisation of public transport.[[20]](http://en.wikipedia.org/wiki/Italian_Fascism#cite_note-maifestoofstruggle-19)” [↑](#endnote-ref-104)
105. <http://en.wikipedia.org/wiki/Religion_in_ancient_Rome>

     “**Religion in ancient Rome** encompassed the [religious beliefs](http://en.wikipedia.org/wiki/Religious_belief) and [cult practices](http://en.wikipedia.org/wiki/Cult_%28religion%29) regarded by the [Romans](http://en.wikipedia.org/wiki/Ancient_Rome) as indigenous and central to their identity as a people, as well as the various and many cults imported from other peoples brought under Roman rule. Romans thus offered cult to innumerable deities who influenced every aspect of both the natural world and human affairs. The establishment of these cults was credited to Rome's divine ancestors, founders, and [kings](http://en.wikipedia.org/wiki/Kings_of_Rome), and to conquered nations and allies. Their temples provided the most visible and sacred manifestations of Rome's history and institutions. Rome's ancient [boundary](http://en.wikipedia.org/wiki/Pomoerium) enclosed an intrinsically sacred city.

     Participation in traditional religious rituals was a practical and moral necessity for Romans of every class and occupation, and was embedded in personal, domestic and public life. Cult could be offered any deity or any combination of deities, as long as it did not offend the [*mos maiorum*](http://en.wikipedia.org/wiki/Mos_maiorum), the "custom of the ancestors," that is, Roman tradition. Piety was the correct application of ritual and divine honours, especially in the form of sacrificial offerings. In return, the gods were likely to benefit their worshipers. Impieties such as religious negligence, superstition and self-indulgence could provoke divine wrath against the State.” [↑](#endnote-ref-105)
106. <http://en.wikipedia.org/wiki/Knights_templar>

     “Officially endorsed by the [Roman Catholic Church](http://en.wikipedia.org/wiki/Roman_Catholic_Church) around 1129, the Order became a favoured charity throughout Christendom, and grew rapidly in membership and power. Templar knights, in their distinctive white [mantles](http://en.wikipedia.org/wiki/Mantle_%28vesture%29) with a Red [cross](http://en.wikipedia.org/wiki/Christian_cross), were among the most skilled fighting units of the [Crusades](http://en.wikipedia.org/wiki/Crusades).[[4]](http://en.wikipedia.org/wiki/Knights_templar#cite_note-HC-3) Non-combatant members of the Order managed a large economic infrastructure throughout [Christendom](http://en.wikipedia.org/wiki/Christendom), innovating financial techniques that were an early form of [banking](http://en.wikipedia.org/wiki/Banking),[[5]](http://en.wikipedia.org/wiki/Knights_templar#cite_note-4)[[6]](http://en.wikipedia.org/wiki/Knights_templar#cite_note-5) and building many [fortifications](http://en.wikipedia.org/wiki/Fortification) across Europe and the [Holy Land](http://en.wikipedia.org/wiki/Holy_Land).

     The Templars' existence was tied closely to the Crusades; when the Holy Land was lost, support for the Order faded. Rumors about the Templars' secret initiation ceremony created mistrust, and King [Philip IV of France](http://en.wikipedia.org/wiki/Philip_IV_of_France), deeply in debt to the Order, took advantage of the situation. In 1307, many of the Order's members in France were arrested, tortured into giving [false confessions](http://en.wikipedia.org/wiki/False_confession), and then [burned at the stake](http://en.wikipedia.org/wiki/Death_by_burning).[[7]](http://en.wikipedia.org/wiki/Knights_templar#cite_note-Barber-trial-6) Under pressure from King Philip, [Pope Clement V](http://en.wikipedia.org/wiki/Pope_Clement_V) disbanded the Order in 1312. The abrupt disappearance of a major part of the European infrastructure gave rise to speculation and legends, which have kept the "Templar" name alive into the modern day.” [↑](#endnote-ref-106)
107. <http://en.wikipedia.org/wiki/Protestantism>

     “**Protestantism** is one of the four major divisions within [Christianity](http://en.wikipedia.org/wiki/Christianity) (or five, if [Anglicanism](http://en.wikipedia.org/wiki/Anglicanism) is considered separately) together with the [Eastern Orthodox churches](http://en.wikipedia.org/wiki/Eastern_Orthodoxy), the [Oriental Orthodox churches](http://en.wikipedia.org/wiki/Oriental_Orthodoxy), and the [Roman Catholic Church](http://en.wikipedia.org/wiki/Catholic_Church). The term is most closely tied to those groups that separated from the Catholic Church in the sixteenth-century [Protestant Reformation](http://en.wikipedia.org/wiki/Protestant_Reformation).

     The doctrines of the various Protestant [denominations](http://en.wikipedia.org/wiki/Protestantism_by_country) and [non-denominations](http://en.wikipedia.org/wiki/Non-denominational_Christianity) vary, but nearly unanimous doctrines include [justification](http://en.wikipedia.org/wiki/Justification_%28theology%29) by grace through faith and not through works, the [priesthood of all believers](http://en.wikipedia.org/wiki/Priesthood_of_all_believers), and the [Bible](http://en.wikipedia.org/wiki/Bible) as the ultimate authority in matters of faith and order.

     In the sixteenth century the followers of [Martin Luther](http://en.wikipedia.org/wiki/Martin_Luther) established the evangelical churches of Germany and Scandinavia. [Reformed churches](http://en.wikipedia.org/wiki/Reformed_churches) in Switzerland were established by [John Calvin](http://en.wikipedia.org/wiki/John_Calvin) and more radical reformers such as [Huldrych Zwingli](http://en.wikipedia.org/wiki/Huldrych_Zwingli). [Thomas Cranmer](http://en.wikipedia.org/wiki/Thomas_Cranmer) reformed the [Church of England](http://en.wikipedia.org/wiki/Church_of_England) and later [John Knox](http://en.wikipedia.org/wiki/John_Knox) established a more radical [Calvinist](http://en.wikipedia.org/wiki/Calvinism) communion in the [Church of Scotland](http://en.wikipedia.org/wiki/Church_of_Scotland).” [↑](#endnote-ref-107)
108. <http://en.wikipedia.org/wiki/Cistercians>

     “he [English Reformation](http://en.wikipedia.org/wiki/English_Reformation) was disastrous for the Cistercians in England, as [Henry VIII](http://en.wikipedia.org/wiki/Henry_VIII_of_England)'s [Dissolution of the Monasteries](http://en.wikipedia.org/wiki/Dissolution_of_the_Monasteries) saw the confiscation of church land throughout the country. [Laskill](http://en.wikipedia.org/wiki/Laskill), an outstation of [Rievaulx Abbey](http://en.wikipedia.org/wiki/Rievaulx_Abbey) and the only medieval blast furnace so far identified in Great Britain, was the one of the most efficient blast furnaces of its time.[[53]](http://en.wikipedia.org/wiki/Cistercians#cite_note-Woods-52) Slag from contemporary furnaces contained a substantial concentration of iron, whereas the slag of Laskill was low in iron content, and is believed to have produced cast iron with efficiency similar to a modern blast furnace.[[53]](http://en.wikipedia.org/wiki/Cistercians#cite_note-Woods-52)[[54]](http://en.wikipedia.org/wiki/Cistercians#cite_note-53) The monks may have been on the verge of building dedicated furnaces for the production of cast iron,[[53]](http://en.wikipedia.org/wiki/Cistercians#cite_note-Woods-52) but the furnace did not survive [Henry](http://en.wikipedia.org/wiki/Henry_VIII_of_England)'s Dissolution in the late 1530s, and the type of blast furnace pioneered there did not spread outside Rievaulx.[[55]](http://en.wikipedia.org/wiki/Cistercians#cite_note-54) Some historians believe that the suppression of the English monasteries may have stamped out an industrial revolution.[[53]](http://en.wikipedia.org/wiki/Cistercians#cite_note-Woods-52)” [↑](#endnote-ref-108)
109. <http://en.wikipedia.org/wiki/Jonestown>

     “**Jonestown** was the informal name for the **Peoples Temple Agricultural Project**, an [intentional community](http://en.wikipedia.org/wiki/Intentional_community) in northwestern [Guyana](http://en.wikipedia.org/wiki/Guyana) formed by the [Peoples Temple](http://en.wikipedia.org/wiki/Peoples_Temple), an [American](http://en.wikipedia.org/wiki/United_States) [cult](http://en.wikipedia.org/wiki/Cult) led by [Jim Jones](http://en.wikipedia.org/wiki/Jim_Jones). It became internationally notorious when, on November 18, 1978, 918 people died in the settlement as well as in a nearby airstrip and in [Georgetown](http://en.wikipedia.org/wiki/Georgetown,_Guyana), Guyana's capital. The name of the settlement became synonymous with the incidents at those locations.

     A total of 909 Temple members died in Jonestown, all but two from apparent [cyanide](http://en.wikipedia.org/wiki/Cyanide) poisoning, in an event termed "revolutionary suicide" by Jones and some members on an audio tape of the event and in prior discussions. The poisonings in Jonestown followed the murder of five others by Temple members at a nearby Port Kaituma airstrip. The victims included [Congressman](http://en.wikipedia.org/wiki/United_States_House_of_Representatives) [Leo Ryan](http://en.wikipedia.org/wiki/Leo_Ryan), the first and only Congressman [assassinated](http://en.wikipedia.org/wiki/Assassination) in the line of duty in the history of the United States. Four other Temple members died in Georgetown at Jones' command.

     To the extent the actions in Jonestown were viewed as a [mass suicide](http://en.wikipedia.org/wiki/Mass_suicide), it is the largest such event in modern history and resulted in the largest single loss of American civilian life in a non-natural disaster until the events of [September 11, 2001](http://en.wikipedia.org/wiki/September_11_attacks).[[1]](http://en.wikipedia.org/wiki/Jonestown#cite_note-0)” [↑](#endnote-ref-109)
110. <http://en.wikipedia.org/wiki/Good_samaritan>

     “The **parable of the Good Samaritan** is a [parable](http://en.wikipedia.org/wiki/Parables_of_Jesus) told by [Jesus](http://en.wikipedia.org/wiki/Jesus) in the [Gospel of Luke](http://en.wikipedia.org/wiki/Gospel_of_Luke) ([10:25-37](http://www.biblegateway.com/passage/?search=Luke%2010:25-37;&version=31;)

     ). In the parable, a Jewish traveler is beaten, robbed, and left half dead along the road. First a [priest](http://en.wikipedia.org/wiki/Kohen) and then a [Levite](http://en.wikipedia.org/wiki/Levite) come by, but both avoid the man. Finally, a [Samaritan](http://en.wikipedia.org/wiki/Samaritan) comes by. Samaritans and Jews generally despised each other, but the Samaritan helps the injured Jew. Jesus is described as telling the parable in response to a question regarding the identity of the "neighbor" which [Leviticus](http://en.wikipedia.org/wiki/Book_of_Leviticus) [19:18](http://www.biblegateway.com/passage/?search=Lev%2019:18;&version=31;) says should be loved.

     Portraying a Samaritan in positive light would have come as a shock to Jesus' audience.[[1]](http://en.wikipedia.org/wiki/Good_samaritan#cite_note-5GLuke-0) It is typical of his provocative speech in which conventional expectations are turned upside down.[[1]](http://en.wikipedia.org/wiki/Good_samaritan#cite_note-5GLuke-0)

     Some Christians, such as [Augustine](http://en.wikipedia.org/wiki/Augustine_of_Hippo), have interpreted the parable allegorically, with the Samaritan representing Jesus Christ, who saves the sinful soul.[[2]](http://en.wikipedia.org/wiki/Good_samaritan#cite_note-Caird.2C_G._B._1980_p._165-1) Others, however, discount this allegory as unrelated to the parable's original meaning,[[2]](http://en.wikipedia.org/wiki/Good_samaritan" \l "cite_note-Caird.2C_G._B._1980_p._165-1) and see the parable as exemplifying the ethics of Jesus, which have won nearly universal praise, even from those outside the Church.[[3]](http://en.wikipedia.org/wiki/Good_samaritan#cite_note-Sanders_p6-2)” [↑](#endnote-ref-110)
111. <http://en.wikipedia.org/wiki/Jansenism>

     “**Jansenism** was a theology and a movement, condemned as a heresy by [Pope Innocent X](http://en.wikipedia.org/wiki/Pope_Innocent_X) in 1655, that arose in the frame of the [Counter-Reformation](http://en.wikipedia.org/wiki/Counter-Reformation) and the aftermath of the [Council of Trent](http://en.wikipedia.org/wiki/Council_of_Trent) (1545–1563). It emphasized [original sin](http://en.wikipedia.org/wiki/Original_sin), human [depravity](http://en.wikipedia.org/wiki/Total_depravity), the necessity of [divine grace](http://en.wikipedia.org/wiki/Divine_grace), and [predestination](http://en.wikipedia.org/wiki/Predestination). Originating in the writings of the [Dutch](http://en.wikipedia.org/wiki/Dutch_people) [theologian](http://en.wikipedia.org/wiki/Theology) [Cornelius Otto Jansen](http://en.wikipedia.org/wiki/Cornelius_Otto_Jansen), Jansenism formed a distinct movement within the [Catholic Church](http://en.wikipedia.org/wiki/Catholic_Church) from the 16th to 18th centuries, and found its most important stronghold in the [Parisian](http://en.wikipedia.org/wiki/Paris) [convent](http://en.wikipedia.org/wiki/Convent) of [Port-Royal](http://en.wikipedia.org/wiki/Port-Royal-des-Champs), haven for many important theologians and writers ([Antoine Arnauld](http://en.wikipedia.org/wiki/Antoine_Arnauld), [Pierre Nicole](http://en.wikipedia.org/wiki/Pierre_Nicole), [Blaise Pascal](http://en.wikipedia.org/wiki/Blaise_Pascal), [Jean Racine](http://en.wikipedia.org/wiki/Jean_Racine), etc.).

     The term itself was coined by its [Jesuit](http://en.wikipedia.org/wiki/Jesuit) opponents, who accused them of being close to [Calvinists](http://en.wikipedia.org/wiki/Calvinist), as Jansenists identified themselves as rigorous followers of [Augustinism](http://en.wikipedia.org/wiki/Augustinism).[[1]](http://en.wikipedia.org/wiki/Jansenism#cite_note-Carraud-0) Several propositions supported by Jansenists, in particular concerning the relationship between humans' [free will](http://en.wikipedia.org/wiki/Free_will) and "[efficacious grace](http://en.wikipedia.org/wiki/Efficacious_grace)", were condemned by the [Pope](http://en.wikipedia.org/wiki/Pope), and the movement thus deemed [heretical](http://en.wikipedia.org/wiki/Heresy).[[1]](http://en.wikipedia.org/wiki/Jansenism#cite_note-Carraud-0)” [↑](#endnote-ref-111)
112. <http://en.wikipedia.org/wiki/Mensheviks>

     “The **Mensheviks** ([Russian](http://en.wikipedia.org/wiki/Russian_language): Меньшевик, Russian pronunciation: [[mʲɪnʲʂɨˈvʲik]](http://en.wikipedia.org/wiki/Wikipedia:IPA_for_Russian)) were a [faction](http://en.wikipedia.org/wiki/Political_faction) of the [Russian](http://en.wikipedia.org/wiki/Russia) [revolutionary](http://en.wikipedia.org/wiki/Revolutionary) movement that emerged in 1904 after a dispute between [Vladimir Lenin](http://en.wikipedia.org/wiki/Vladimir_Lenin) and [Julius Martov](http://en.wikipedia.org/wiki/Julius_Martov), both members of the [Russian Social-Democratic Labour Party](http://en.wikipedia.org/wiki/Russian_Social-Democratic_Labour_Party). The dispute originated at the [Second Congress](http://en.wikipedia.org/wiki/2nd_Congress_of_the_RSDLP) of that party, ostensibly over minor issues of party organization. Martov's supporters, who were in the minority in a crucial vote on the question of party membership, came to be called "Mensheviks", derived from the Russian word **меньшинство** (*men'shinstvo*, "minority"), whereas Lenin's adherents were known as "[Bolsheviks](http://en.wikipedia.org/wiki/Bolsheviks)", from *bol'shinstvo* ("majority").

     Neither side held a consistent majority over the course of the congress. The split proved to be long-standing and had to do both with pragmatic issues based in history such as the failed [revolution of 1905](http://en.wikipedia.org/wiki/Russian_revolution_of_1905), and theoretical issues of class leadership, class alliances, and [bourgeois](http://en.wikipedia.org/wiki/Bourgeois) [democracy](http://en.wikipedia.org/wiki/Democracy). While both factions believed that a bourgeois democratic revolution was necessary, the Mensheviks generally tended to be more [moderate](http://en.wikipedia.org/wiki/Moderate) and were more positive towards the "mainstream" [liberal](http://en.wikipedia.org/wiki/Liberalism) opposition.” [↑](#endnote-ref-112)
113. <http://en.wikipedia.org/wiki/Witch_burnings>

     “A **witch hunt** is a search for [witches](http://en.wikipedia.org/wiki/Witch) or evidence of [witchcraft](http://en.wikipedia.org/wiki/Witchcraft), often involving [moral panic](http://en.wikipedia.org/wiki/Moral_panic), [mass hysteria](http://en.wikipedia.org/wiki/Mass_hysteria) and [lynching](http://en.wikipedia.org/wiki/Lynching), but in historical instances also legally sanctioned and involving official **witchcraft trials**.

     The [classical period of witchhunts in Europe and North America](http://en.wikipedia.org/wiki/Witch_trials_in_Early_Modern_Europe_and_North_America) falls into the [Early Modern period](http://en.wikipedia.org/wiki/Early_Modern_period) or about 1480 to 1700, spanning the upheavals of the [Reformation](http://en.wikipedia.org/wiki/Protestant_Reformation) and the [Thirty Years' War](http://en.wikipedia.org/wiki/Thirty_Years%27_War), resulting in an estimated 40,000 to 100,000 executions.[[1]](http://en.wikipedia.org/wiki/Witch_burnings#cite_note-ReferenceA-0)

     The term "witch-hunt" is often used by analogy to refer to panic-induced searches for perceived wrong-doers other than witches. The best known example is probably the [McCarthyist](http://en.wikipedia.org/wiki/McCarthyist) search for communists during the [Cold War](http://en.wikipedia.org/wiki/Cold_War),[[2]](http://en.wikipedia.org/wiki/Witch_burnings#cite_note-JensenPath-1)[[3]](http://en.wikipedia.org/wiki/Witch_burnings#cite_note-MurphyCongress-2) which was discredited partly through being compared to the [Salem witch trials](http://en.wikipedia.org/wiki/Salem_witch_trials).[[2]](http://en.wikipedia.org/wiki/Witch_burnings#cite_note-JensenPath-1)” [↑](#endnote-ref-113)
114. <http://en.wikipedia.org/wiki/Reign_of_Terror>

     “**The Reign of Terror** (27 June 1793 – 27 July 1794), also known as **The Terror** ([French](http://en.wikipedia.org/wiki/French_language): *la Terreur*) was a period of violence that occurred for one year and one month after the onset of the [French Revolution](http://en.wikipedia.org/wiki/French_Revolution), incited by conflict between rival political factions, the [Girondins](http://en.wikipedia.org/wiki/Girondins) and the [Jacobins](http://en.wikipedia.org/wiki/Jacobin_Club), and marked by mass executions of "enemies of the revolution." Estimates vary widely as to how many were killed, with numbers ranging from 16,000 to 40,000; in many cases, records were not kept or, if they were, they are considered likely to be inaccurate. The [guillotine](http://en.wikipedia.org/wiki/Guillotine) ("National Razor") became the symbol of a string of executions: [Louis XVI](http://en.wikipedia.org/wiki/Louis_XVI), [Marie Antoinette](http://en.wikipedia.org/wiki/Marie_Antoinette), the [Girondins](http://en.wikipedia.org/wiki/Girondists), [Philippe Égalité (Louis Philippe II, Duke of Orléans)](http://en.wikipedia.org/wiki/Louis_Philippe_II,_Duke_of_Orl%C3%A9ans) and [Madame Roland](http://en.wikipedia.org/wiki/Madame_Roland), as well as many others, such as pioneering chemist [Antoine Lavoisier](http://en.wikipedia.org/wiki/Antoine_Lavoisier), lost their lives under its blade.” [↑](#endnote-ref-114)
115. <http://en.wikipedia.org/wiki/Red_terror>

     “The **Red Terror** in [Soviet Russia](http://en.wikipedia.org/wiki/Soviet_Russia) was the campaign of mass arrests and [executions](http://en.wikipedia.org/wiki/Execution) conducted by the [Bolshevik](http://en.wikipedia.org/wiki/Bolshevik) government. In [Soviet historiography](http://en.wikipedia.org/wiki/Soviet_historiography), the Red Terror is described as officially announced on September 2, 1918 by [Yakov Sverdlov](http://en.wikipedia.org/wiki/Yakov_Sverdlov) and ended in about October 1918. However many historians, beginning with [Sergei Melgunov](http://en.wikipedia.org/wiki/Sergei_Melgunov), apply this term to repressions for the whole period of the [Russian Civil War](http://en.wikipedia.org/wiki/Russian_Civil_War), 1918-1922.[[1]](http://en.wikipedia.org/wiki/Red_terror#cite_note-Melgunov-0)[[2]](http://en.wikipedia.org/wiki/Red_terror#cite_note-Black-1) The mass [repressions](http://en.wikipedia.org/wiki/Political_repression) were conducted [without judicial process](http://en.wikipedia.org/wiki/Extrajudicial_punishment) by the [secret police](http://en.wikipedia.org/wiki/State_security), the [Cheka](http://en.wikipedia.org/wiki/Cheka),[[3]](http://en.wikipedia.org/wiki/Red_terror#cite_note-Radzinsky-2) together with elements of the Bolshevik military intelligence agency, the [GRU](http://en.wikipedia.org/wiki/GRU).[[4]](http://en.wikipedia.org/wiki/Red_terror#cite_note-Suvorov.2C_Viktor_1984-3)

     The term "Red Terror" was originally[[5]](http://en.wikipedia.org/wiki/Red_terror#cite_note-4) used to describe the last six weeks of the "[Reign of Terror](http://en.wikipedia.org/wiki/Reign_of_Terror)" of the [French Revolution](http://en.wikipedia.org/wiki/French_Revolution), ending on July 28, 1794 (execution of [Robespierre](http://en.wikipedia.org/wiki/Maximilien_Robespierre)), to distinguish it from the subsequent period of [the White Terror](http://en.wikipedia.org/wiki/The_White_Terror_%28France%29)[[6]](http://en.wikipedia.org/wiki/Red_terror#cite_note-5) (historically this period has been known as the Great Terror (French: [la Grande Terreur](http://fr.wikipedia.org/wiki/Terreur_%28R%C3%A9volution_fran%C3%A7aise%29#La_Grande_Terreur_.28juin-juillet_1794.29)).” [↑](#endnote-ref-115)
116. <http://en.wikipedia.org/wiki/Adam_smith>

     “*An Inquiry into the Nature and Causes of the Wealth of Nations* expounds that the free market, while appearing chaotic and unrestrained, is actually guided to produce the right amount and variety of goods by a so-called "[invisible hand](http://en.wikipedia.org/wiki/Invisible_hand)".[[53]](http://en.wikipedia.org/wiki/Adam_smith#cite_note-minowitz-54)The image of the invisible hand was previously employed by Smith in *The Theory of Moral Sentiments*, but it has its original use in his essay, "The History of Astronomy". Smith believed that when an individual pursues his self-interest, he indirectly promotes the good of society: "by pursuing his own interest, [the individual] frequently promotes that of the society more effectually than when he intends to promote it."[[57]](http://en.wikipedia.org/wiki/Adam_smith#cite_note-Smith_1977_loc.3Dbk._IV.2C_ch._2-58) Self-interested competition in the free market, he argued, would tend to benefit society as a whole by keeping prices low, while still building in an incentive for a wide variety of goods and services. Nevertheless, he was wary of businessmen and argued against the formation of [monopolies](http://en.wikipedia.org/wiki/Monopoly).[[*citation needed*](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed)]

     An often-quoted passage from *The Wealth of Nations* is: "It is not from the benevolence of the butcher, the brewer, or the baker that we expect our dinner, but from their regard to their own self-interest. We address ourselves, not to their humanity but to their self-love, and never talk to them of our own necessities but of their advantages."[[58]](http://en.wikipedia.org/wiki/Adam_smith#cite_note-59) Value theory was important in classical theory. Smith wrote that the "real price of every thing ... is the toil and trouble of acquiring it" as influenced by its scarcity, a precursor to the modern concept of [opportunity cost](http://en.wikipedia.org/wiki/Opportunity_cost). Smith maintained that, with rent and profit, other costs besides wages also enter the price of a commodity.[[59]](http://en.wikipedia.org/wiki/Adam_smith#cite_note-60) Other classical economists presented competing theories to those of Smith, termed the "[labour theory of value](http://en.wikipedia.org/wiki/Labour_theory_of_value#The_theory.27s_development)".[[*citation needed*](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed)] [↑](#endnote-ref-116)
117. <http://en.wikipedia.org/wiki/Japanese_invasion_of_Manchuria>

     “On September 19, 1931, the day after the [Mukden Incident](http://en.wikipedia.org/wiki/Mukden_Incident), the Japanese [Imperial General Headquarters](http://en.wikipedia.org/wiki/Imperial_General_Headquarters), which had decided upon a policy of localizing the incident, communicated its decision to the [Kwantung Army](http://en.wikipedia.org/wiki/Kwantung_Army) command.

     In violation of orders from [Tokyo](http://en.wikipedia.org/wiki/Tokyo), Kwantung Army [commander in chief](http://en.wikipedia.org/wiki/Commander_in_chief) General [Shigeru Honjo](http://en.wikipedia.org/wiki/Shigeru_Honjo) ordered that his forces rapidly proceed to expand operations all along the [South Manchurian Railway](http://en.wikipedia.org/wiki/South_Manchurian_Railway). Under orders from Lieutenant General [Jirō Tamon](http://en.wikipedia.org/wiki/Jir%C5%8D_Tamon), troops of the [2nd Division](http://en.wikipedia.org/wiki/2nd_Division_%28Imperial_Japanese_Army%29) moved up the rail line and captured virtually every city along its 693 mile length in a matter of days, occupying [Anshan](http://en.wikipedia.org/wiki/Anshan,_China), [Haicheng](http://en.wikipedia.org/wiki/Haicheng,_Liaoning), [Kaiyuan](http://en.wikipedia.org/wiki/Kaiyuan), [Tiehling](http://en.wikipedia.org/wiki/Tieling), [Fushun](http://en.wikipedia.org/wiki/Fushun), [Szeping-chieh](http://en.wikipedia.org/wiki/Siping_%28city%29), [Changchun](http://en.wikipedia.org/wiki/Changchun), [Kuanchengtzu](http://en.wikipedia.org/wiki/Huadian), [Yingkou](http://en.wikipedia.org/wiki/Yingkou), [Antung](http://en.wikipedia.org/wiki/Dandong), and [Penhsihu](http://en.wikipedia.org/wiki/Benxi).

     Likewise on September 19, in response to General Honjō's request, the [Chosun Army](http://en.wikipedia.org/wiki/Chosen_Army_of_Japan) in [Korea](http://en.wikipedia.org/wiki/Korea) under General [Senjuro Hayashi](http://en.wikipedia.org/wiki/Senjuro_Hayashi) had ordered the [20th Infantry Division](http://en.wikipedia.org/wiki/IJA_20th_Division) to split its force, forming the [39th Mixed Brigade](http://en.wikipedia.org/w/index.php?title=39th_Mixed_Brigade_%28Imperial_Japanese_Army%29&action=edit&redlink=1), which departed on that day for Manchuria without authorization from the [Emperor](http://en.wikipedia.org/wiki/Hirohito).

     Between September 20 and September 25, Japanese forces took [Hsiungyueh](http://en.wikipedia.org/wiki/Xiongyuecheng), [Changtu](http://en.wikipedia.org/wiki/Changtu), [Liaoyang](http://en.wikipedia.org/wiki/Liaoyang), [Tungliao](http://en.wikipedia.org/wiki/Liaoyuan), [Tiaonan](http://en.wikipedia.org/wiki/Tiaonan), [Kirin](http://en.wikipedia.org/wiki/Jilin), [Chiaoho](http://en.wikipedia.org/wiki/Jiaohe), [Huangkutun](http://en.wikipedia.org/w/index.php?title=Huangkutun&action=edit&redlink=1) and [Hsin-min](http://en.wikipedia.org/wiki/Xinmin). This effectively secured control of [Liaoning](http://en.wikipedia.org/wiki/Liaoning) and Kirin provinces and the main line of rail communications to Korea.

     The Japanese civilian government was thrown into disarray by this massive act of [insubordination](http://en.wikipedia.org/wiki/Gekokujo), but as reports of one quick victory after another began to pour in, it was powerless to oppose the Army, and its decision was to immediately send three more [infantry divisions](http://en.wikipedia.org/wiki/Infantry_division) from Japan, beginning with the 14th Mixed Brigade of the [IJA 7th Division](http://en.wikipedia.org/wiki/IJA_7th_Division).” [↑](#endnote-ref-117)
118. <http://en.wikipedia.org/wiki/Vichy>

     “Following the armistice signed on June 22, 1940, the zone which was not occupied by the Germans took the name of the [French State *(État Français)*](http://en.wikipedia.org/wiki/Vichy_France) (as opposed to the traditional name, *République française* or French Republic) and set up its capital in Vichy on July 1, because of the town's relative proximity to [Paris](http://en.wikipedia.org/wiki/Paris) (4.5 hours by train) and because it was the city with the second largest hotel capacity at the time. Moreover, the existence of a modern telephone exchange made it possible to reach the whole world via phone.

     On July 1, the Government took possession of many hotels. Six hundred members of the French Parliament (Appointed Members and Senators) would come to Vichy for the meeting of the Chambers. On the 9th and 10th, in the main auditorium of the Opera House, the members of Parliament voted for the end of the [Third Republic](http://en.wikipedia.org/wiki/French_Third_Republic). The republican system was abolished, and the French State, with [Philippe Pétain](http://en.wikipedia.org/wiki/Philippe_P%C3%A9tain) at its helm as Head of State, replaced it. Only 80 of the 600 members of Parliament voiced their opposition. Starting from this date, Vichy would be, for more than four years, the capital of the French State. This government is often called the Vichy Regime. The preferred term is "Pétainist Regime" or "Regime of the French State." [↑](#endnote-ref-118)
119. <http://en.wikipedia.org/wiki/Solzenitsen>

     “In February 1945, while serving in [East Prussia](http://en.wikipedia.org/wiki/East_Prussia), Solzhenitsyn was arrested for writing derogatory comments in letters to a friend, Nikolai Vitkevich,[[14]](http://en.wikipedia.org/wiki/Solzenitsen#cite_note-13) about the conduct of the war by [Joseph Stalin](http://en.wikipedia.org/wiki/Joseph_Stalin), whom he called "Usatiy" ("one with mustachios,")[[15]](http://en.wikipedia.org/wiki/Solzenitsen#cite_note-14) "[Khozyain](http://en.wikipedia.org/wiki/Khozyain)" ("the master"), and "Balabos", ([Odessa Yiddish](http://en.wikipedia.org/wiki/Yiddish_dialects) for "the master").[[16]](http://en.wikipedia.org/wiki/Solzenitsen#cite_note-15) He was accused of anti-Soviet propaganda under [Article 58](http://en.wikipedia.org/wiki/Article_58) paragraph 10 of the Soviet criminal code, and of "founding a hostile organization" under paragraph 11.[[17]](http://en.wikipedia.org/wiki/Solzenitsen#cite_note-16) Solzhenitsyn was taken to the [Lubyanka](http://en.wikipedia.org/wiki/Lubyanka) prison in Moscow, where he was beaten and interrogated. On July 7, 1945, he was sentenced in his absence by [Special Council of the NKVD](http://en.wikipedia.org/wiki/Special_Council_of_the_NKVD) to an eight-year term in a [labor camp](http://en.wikipedia.org/wiki/Labor_camp). This was the normal sentence for most crimes under Article 58 at the time.[[18]](http://en.wikipedia.org/wiki/Solzenitsen#cite_note-17)

     The first part of Solzhenitsyn's sentence was served in several different work camps; the "middle phase," as he later referred to it, was spent in a [*sharashka*](http://en.wikipedia.org/wiki/Sharashka) (i.e., a special scientific research facility run by Ministry of State Security), where he met [Lev Kopelev](http://en.wikipedia.org/wiki/Lev_Kopelev), upon whom he based the character of *Lev Rubin* in his book [*The First Circle*](http://en.wikipedia.org/wiki/The_First_Circle), published in a self-censored or "distorted" version in the West in 1968 (an English translation of the full version was eventually published by Harper Perennial in October 2009).[[19]](http://en.wikipedia.org/wiki/Solzenitsen#cite_note-18) In 1950, he was sent to a "Special Camp" for political prisoners. During his imprisonment at the camp in the town of [Ekibastuz](http://en.wikipedia.org/wiki/Ekibastuz) in [Kazakhstan](http://en.wikipedia.org/wiki/Kazakhstan), he worked as a [miner](http://en.wikipedia.org/wiki/Miner), [bricklayer](http://en.wikipedia.org/wiki/Bricklayer), and [foundry](http://en.wikipedia.org/wiki/Foundry) foreman. His experiences at Ekibastuz formed the basis for the book [*One Day in the Life of Ivan Denisovich*](http://en.wikipedia.org/wiki/One_Day_in_the_Life_of_Ivan_Denisovich). One of his colleagues political prisoners, [Ion Moraru](http://en.wikipedia.org/wiki/Ion_Moraru), remembers that Solzhenitsyn has written at Ekibastuz.[[20]](http://en.wikipedia.org/wiki/Solzenitsen#cite_note-19) While there he had a tumor removed, although his [cancer](http://en.wikipedia.org/wiki/Cancer) was not diagnosed at the time.” [↑](#endnote-ref-119)
120. <http://en.wikipedia.org/wiki/Internet_bubble>

     “The "**dot-com bubble**" (or sometimes "**IT bubble**"[[1]](http://en.wikipedia.org/wiki/Internet_bubble#cite_note-0) or "**TMT bubble**") was a [speculative bubble](http://en.wikipedia.org/wiki/Economic_bubble) covering roughly 1995–2000 (with a climax on March 10, 2000 with the [NASDAQ](http://en.wikipedia.org/wiki/NASDAQ_Composite) peaking at 5132.52) during which [stock markets](http://en.wikipedia.org/wiki/Stock_markets) in industrialized nations saw their equity value rise rapidly from growth in the more recent [Internet sector](http://en.wikipedia.org/wiki/Quaternary_sector_of_industry) and related fields. While the latter part was a [boom and bust](http://en.wikipedia.org/wiki/Boom_and_bust) cycle, the **Internet boom** sometimes is meant to refer to the steady commercial growth of the Internet with the advent of the [world wide web](http://en.wikipedia.org/wiki/World_wide_web) as exemplified by the first release of the [Mosaic web browser](http://en.wikipedia.org/wiki/Mosaic_%28web_browser%29) in 1993 and continuing through the 1990s.

     The period was marked by the founding (and, in many cases, spectacular failure) of a group of new [Internet](http://en.wikipedia.org/wiki/Internet)-based companies commonly referred to as [*dot-coms*](http://en.wikipedia.org/wiki/Dot-com_company). Companies were seeing their stock prices shoot up if they simply added an ["e-" prefix](http://en.wikipedia.org/wiki/Internet-related_prefixes) to their name and/or a "[.com](http://en.wikipedia.org/wiki/.com)" to the end, which one author called "[prefix](http://en.wikipedia.org/wiki/Prefix) investing".[[2]](http://en.wikipedia.org/wiki/Internet_bubble#cite_note-1)

     A combination of rapidly increasing stock prices, market confidence that the companies would turn future profits, individual [speculation](http://en.wikipedia.org/wiki/Speculation) in stocks, and widely available [venture capital](http://en.wikipedia.org/wiki/Venture_capital) created an environment in which many investors were willing to overlook traditional metrics such as [P/E ratio](http://en.wikipedia.org/wiki/P/E_ratio) in favor of confidence in technological advancements.” [↑](#endnote-ref-120)
121. <http://en.wikipedia.org/wiki/The_Big_Short>

     “***The Big Short: Inside the Doomsday Machine*** is a 2010 non-fiction book by [Michael Lewis](http://en.wikipedia.org/wiki/Michael_Lewis_%28author%29) about the build-up of the housing and credit bubble during the 2000s. It describes several of the key players in the creation of the [credit default swap](http://en.wikipedia.org/wiki/Credit_default_swap) market that sought to bet against the bubble and profit from the [financial crisis of 2007–2010](http://en.wikipedia.org/wiki/Financial_crisis_of_2007%E2%80%932010). The book also highlights the eccentric nature of the type of person who bets against the market, or goes against the grain. The work follows [Meredith Whitney](http://en.wikipedia.org/wiki/Meredith_Whitney), who predicted the demise of [Citi Group](http://en.wikipedia.org/wiki/Citi_Group) and [Bear Stearns](http://en.wikipedia.org/wiki/Bear_Stearns); [Steve Eisman](http://en.wikipedia.org/w/index.php?title=Steve_Eisman&action=edit&redlink=1), an anti-social hedge fund manager; [Greg Lippmann](http://en.wikipedia.org/w/index.php?title=Greg_Lippmann&action=edit&redlink=1), a [Deutsche Bank](http://en.wikipedia.org/wiki/Deutsche_Bank) trader that created the first CDS market by matching buyers and sellers; the founders of [Cornwall Capital](http://en.wikipedia.org/w/index.php?title=Cornwall_Capital&action=edit&redlink=1), who started a hedge fund in their garage with $100,000 and built it into $120 million when the market crashed; Dr. [Michael Burry](http://en.wikipedia.org/wiki/Michael_Burry), an ex-neurologist who created Scion Capital LLC despite suffering from blindness in one eye and [Asperger syndrome](http://en.wikipedia.org/wiki/Asperger_syndrome)[[1]](http://en.wikipedia.org/wiki/The_Big_Short#cite_note-0); [Howie Hubler](http://en.wikipedia.org/w/index.php?title=Howie_Hubler&action=edit&redlink=1), infamously known as the person who lost $9 billion in one trade, the largest single loss in history[[2]](http://en.wikipedia.org/wiki/The_Big_Short#cite_note-1); and [Joseph Cassano](http://en.wikipedia.org/wiki/Joseph_Cassano)'s [AIG Financial Products](http://en.wikipedia.org/wiki/AIG_Financial_Products), which suffered over $99 billion in losses [[3]](http://en.wikipedia.org/wiki/The_Big_Short#cite_note-2). It does not discuss much about [John Paulson](http://en.wikipedia.org/wiki/John_Paulson), founder and president of Paulson & Co., a New York-based hedge fund that made $15 billion dollars in one CDS trade[[4]](http://en.wikipedia.org/wiki/The_Big_Short" \l "cite_note-3).” [↑](#endnote-ref-121)
122. <http://en.wikipedia.org/wiki/Demagogue>

     “20th-century American social critic and humorist [H. L. Mencken](http://en.wikipedia.org/wiki/H._L._Mencken), defined a demagogue as "one who will preach doctrines he knows to be untrue to men he knows to be idiots."

     As [George Bernard Shaw](http://en.wikipedia.org/wiki/George_Bernard_Shaw) said:

     But though there is no difference in this respect between the best demagogue and the worst, both of them having to present their cases equally in terms of melodrama, there is all the difference in the world between the statesman who is humbugging the people into allowing him to do the will of God, in whatever disguise it may come to him, and one who is humbugging them into furthering his personal ambition and the commercial interests of the plutocrats who own the newspapers and support him on reciprocal terms.

     [Max Weber](http://en.wikipedia.org/wiki/Max_Weber):

     Political leadership in the form of the free 'demagogue' who grew from the soil of the city state is of greater concern to us; like the city state, the demagogue is peculiar to the [Occident](http://en.wikipedia.org/wiki/Occident) and especially to [Mediterranean](http://en.wikipedia.org/wiki/Mediterranean) culture. Furthermore, political leadership in the form of the parliamentary 'party leader' has grown on the soil of the constitutional state, which is also indigenous only to the Occident.

     Though this definition emphasizes the use of [lying](http://en.wikipedia.org/wiki/Lie) and falsehoods, skilled demagogues often need to use only *special emphasis* by which an uncritical listener will be led to draw the desired conclusion themselves. Moreover, a demagogue may well believe his or her own arguments (for example, there are good reasons to assume that [Adolf Hitler](http://en.wikipedia.org/wiki/Adolf_Hitler)—certainly one of the most successful demagogues in history—sincerely believed his own anti-Jewish diatribes).” [↑](#endnote-ref-122)
123. <http://en.wikipedia.org/wiki/Guy_Burgess>

     “**Guy Francis De Moncy Burgess** (16 April 1911 – 30 August 1963) was a [British](http://en.wikipedia.org/wiki/United_Kingdom)-born [intelligence officer](http://en.wikipedia.org/wiki/Intelligence_officer) and [double agent](http://en.wikipedia.org/wiki/Double_agent), who worked for the [Soviet Union](http://en.wikipedia.org/wiki/Soviet_Union). He was part of the [Cambridge Five](http://en.wikipedia.org/wiki/Cambridge_Five) spy ring that betrayed [Western](http://en.wikipedia.org/wiki/Western_world) secrets to the Soviets before and during the [Cold War](http://en.wikipedia.org/wiki/Cold_War). Burgess and [Anthony Blunt](http://en.wikipedia.org/wiki/Anthony_Blunt) contributed to the Soviet cause with the transmission of secret [Foreign Office](http://en.wikipedia.org/wiki/Foreign_Office) and [MI5](http://en.wikipedia.org/wiki/MI5) documents that described [NATO](http://en.wikipedia.org/wiki/NATO) military strategy.” [↑](#endnote-ref-123)
124. <http://en.wikipedia.org/wiki/Franks>

     “The **Franks** ([Latin](http://en.wikipedia.org/wiki/Latin_language): *Franci* or *gens Francorum*) were a [West Germanic](http://en.wikipedia.org/wiki/West_Germanic) tribal confederation first attested in the third century as living north and east of the [Lower Rhine](http://en.wikipedia.org/wiki/Lower_Rhine) River. From the third to fifth centuries some Franks raided [Roman](http://en.wikipedia.org/wiki/Roman_Empire) territory while other Franks joined the Roman troops in [Gaul](http://en.wikipedia.org/wiki/Gaul). Only the [Salian Franks](http://en.wikipedia.org/wiki/Salian_Franks) formed a kingdom on Roman-held soil that was acknowledged by the Romans after 357. In the climate of the collapse of imperial authority in the West, the Frankish tribes were united under the [Merovingians](http://en.wikipedia.org/wiki/Merovingian) and conquered all of Gaul except [Septimania](http://en.wikipedia.org/wiki/Septimania) in the 6th century. The Salian political elite would be one of the most active forces in spreading [Christianity](http://en.wikipedia.org/wiki/Christianity) over [western Europe](http://en.wikipedia.org/wiki/Western_Europe).

     The [Merovingian](http://en.wikipedia.org/wiki/Merovingian) dynasty, descended from the Salians, founded one of the [Germanic monarchies](http://en.wikipedia.org/wiki/Germanic_monarchy) which replaced the [Western Roman Empire](http://en.wikipedia.org/wiki/Western_Roman_Empire) from the fifth century. The Frankish state consolidated its hold over large parts of western Europe by the end of the eighth century, developing into the [Carolingian Empire](http://en.wikipedia.org/wiki/Carolingian_Empire) which dominated most of Western Europe. This Empire would gradually evolve into [France](http://en.wikipedia.org/wiki/France) and the [Holy Roman Empire](http://en.wikipedia.org/wiki/Holy_Roman_Empire).” [↑](#endnote-ref-124)
125. <http://en.wikipedia.org/wiki/Boadicea>

     “**Boudica** (pronounced [/ˈbuːdɨkə/](http://en.wikipedia.org/wiki/Wikipedia:IPA_for_English); also spelled **Boudicca**), formerly known as **Boadicea** [/boʊdɨˈsiːə/](http://en.wikipedia.org/wiki/Wikipedia:IPA_for_English) and known in [Welsh](http://en.wikipedia.org/wiki/Welsh_language) as "Buddug" [[ˈbɨ̞ðɨ̞ɡ]](http://en.wikipedia.org/wiki/Wikipedia:IPA_for_Welsh)[[1]](http://en.wikipedia.org/wiki/Boadicea#cite_note-0) (d. AD 60 or 61) was queen of a Celtic tribe who led an uprising against the occupying forces of the [Roman Empire](http://en.wikipedia.org/wiki/Roman_Empire).

     Boudica's husband [Prasutagus](http://en.wikipedia.org/wiki/Prasutagus), ruler of the [Iceni](http://en.wikipedia.org/wiki/Iceni) tribe who had ruled as a nominally independent ally of Rome, left his kingdom jointly to his daughters and the Roman Emperor in his will. However, when he died his will was ignored. The kingdom was annexed as if conquered, Boudica was [flogged](http://en.wikipedia.org/wiki/Flogged) and her daughters raped, and Roman financiers called in their loans.

     In AD 60 or 61, while the Roman governor, [Gaius Suetonius Paulinus](http://en.wikipedia.org/wiki/Gaius_Suetonius_Paulinus), was leading a campaign on the island of [Anglesey](http://en.wikipedia.org/wiki/Anglesey) in north [Wales](http://en.wikipedia.org/wiki/Wales), Boudica led the Iceni people, along with the [Trinovantes](http://en.wikipedia.org/wiki/Trinovantes) and others, in revolt. They destroyed [Camulodunum](http://en.wikipedia.org/wiki/Camulodunum) (modern [Colchester](http://en.wikipedia.org/wiki/Colchester)), formerly the capital of the Trinovantes, but now a [*colonia*](http://en.wikipedia.org/wiki/Colonia_%28Roman%29) (a settlement for discharged Roman soldiers) and the site of a temple to the former emperor [Claudius](http://en.wikipedia.org/wiki/Claudius), which was built and maintained at local expense. They also routed a Roman legion, the [IX *Hispana*](http://en.wikipedia.org/wiki/Legio_IX_Hispana), sent to relieve the settlement.” [↑](#endnote-ref-125)
126. <http://en.wikipedia.org/wiki/Ambiorix>

     “Ambiorix and his tribesmen attacked and killed several Roman soldiers who were foraging for [wood](http://en.wikipedia.org/wiki/Wood) in the nearby vicinity. The survivors fled back to their camp, followed by Ambiorix and his men. There he realised there were too many Romans for his troops to fight and he decided to negotiate with them. Ambiorix explained to the Roman camp leaders, Sabinus and [Cotta](http://en.wikipedia.org/wiki/Cotta), that he had no problems with them and in fact, was very happy with them, because now he had no troubles with the other [tribes](http://en.wikipedia.org/wiki/Tribe). He warned the Romans that a coalition of other tribes were planning to attack them and would get the support of the German tribes who would cross the [Rhine](http://en.wikipedia.org/wiki/Rhine). Ambiorix advised them to relocate to another Roman [camp](http://en.wikipedia.org/wiki/Military_camp) so that they would be stronger to battle these troops. He also promised them he would leave them alone when they made this crossing.

     Sabinus and Cotta debated the whole night on what they should do. Sabinus trusted Ambiorix and considered it would be wise to do what he had advised them. Cotta thought it would be better to stay and try to fight back when the attacks would happen. Ultimately, Cotta decided they would stay, but it wouldn't be his fault if they all got killed by doing so. This made the Roman troops very unsure and therefore they decided to leave anyway. The two closest Roman camps were behind hills and in the other option behind a plain near a valley. Sabinus and Cotta chose for the easy solution and crossed the valley. While they crossed the valley Ambiorix and his men attacked them from up the hills and slaughtered them. Sabinus, Cotta and their troops were massacred.” [↑](#endnote-ref-126)
127. <http://en.wikipedia.org/wiki/East_India_Company>

     “The prosperity that the officers of the company enjoyed allowed them to return to their country and establish sprawling estates and businesses, and to obtain political power. The Company developed a [lobby](http://en.wikipedia.org/wiki/Lobbying) in the English parliament. Under pressure from ambitious tradesmen and former associates of the Company (pejoratively termed *Interlopers* by the Company), who wanted to establish private trading firms in India, a deregulating act was passed in 1694. This allowed any English firm to trade with India, unless specifically prohibited by act of parliament, thereby annulling the charter that was in force for almost 100 years. By an act that was passed in 1698, a new "parallel" East India Company (officially titled the *English Company Trading to the East Indies*) was floated under a state-backed indemnity of £2 million. The powerful stockholders of the old company quickly subscribed a sum of £315,000 in the new concern, and dominated the new body. The two companies wrestled with each other for some time, both in England and in India, for a dominant share of the trade. It quickly became evident that, in practice, the original Company faced scarcely any measurable competition. The companies merged in 1708, by a tripartite indenture involving both companies and the state. Under this arrangement, the merged company lent to the Treasury a sum of £3,200,000, in return for exclusive privileges for the next three years, after which the situation was to be reviewed. The amalgamated company became the *United Company of Merchants of England Trading to the East Indies*.[[14]](http://en.wikipedia.org/wiki/East_India_Company#cite_note-13)” [↑](#endnote-ref-127)
128. <http://en.wikipedia.org/wiki/Belgian_Congo>

     “The Congo Free State was a corporate state privately controlled by [Leopold II, King of the Belgians](http://en.wikipedia.org/wiki/Leopold_II_of_Belgium) through a dummy non-governmental organization, the [*Association Internationale Africaine*](http://en.wikipedia.org/wiki/Association_Internationale_Africaine). Leopold was the sole shareholder and chairman. The state included the entire area of the present [Democratic Republic of the Congo](http://en.wikipedia.org/wiki/Democratic_Republic_of_the_Congo) and existed from 1885 to 1908, when it was annexed by the government of Belgium. Initially, the occupation and exploration of the immense territory of the Congo Free State proved a heavy burden on the monarch's purse. Twice a state bankruptcy was avoided only by the Belgian state granting Leopold II emergency loans. However, in the 1890s the tide turned dramatically. Through the forced exploitation of [rubber](http://en.wikipedia.org/wiki/Rubber), [copper](http://en.wikipedia.org/wiki/Copper) and other minerals in the upper [Lualaba River](http://en.wikipedia.org/wiki/Lualaba_River) basin huge surpluses were generated. Leopold II used part of this new-found wealth for the embellishment of his native country: the Royal Galleries in Ostend, the Colonial Palace in Tervuren or the triumphal arch in Brussels were all funded from the profits generated by the Congo. However, it soon became clear that these profits were generated on the back of brutal mistreatment of the local people and plunder of the Congo's natural resources.

     Thus, under Leopold II's administration, the Congo Free State became the site of one of the most infamous international scandals of the turn of the twentieth century. The [report](http://en.wikipedia.org/wiki/Casement_Report) of the British Consul [Roger Casement](http://en.wikipedia.org/wiki/Roger_Casement), published in early 1904, was an irrefutable indictement of the "rubber system": "..the drowsy, unsupervised machine of coercion which wore out the people and the land"[[6]](http://en.wikipedia.org/wiki/Belgian_Congo#cite_note-5). In the absence of a census (the first was made in 1924), it is difficult to quantify the population loss of the period. According to Roger Casement's report, depopulation was caused mainly by four causes: "indiscriminate war", starvation, reduction of births and [tropical diseases](http://en.wikipedia.org/wiki/Tropical_diseases).

     The European and U.S. press agencies exposed the conditions in the Congo Free State to the public in the early 1900s. In 1904, Leopold II was forced to allow an international parliamentary commission of inquiry entry to the Congo Free State. The report of the commission (1905) confirmed most of the charges formulated by Edmund Morel and Roger Casement, but also by Protestant and Catholic missionaries[[7]](http://en.wikipedia.org/wiki/Belgian_Congo" \l "cite_note-6) By 1908, public pressure and diplomatic maneuvers led to the end of Leopold II's rule and to the annexation of the Congo as a [colony](http://en.wikipedia.org/wiki/Colony) of Belgium, known as the Belgian Congo.” [↑](#endnote-ref-128)
129. <http://en.wikipedia.org/wiki/1972_Nixon_visit_to_China>

     “Improved relations with the [Soviet Union](http://en.wikipedia.org/wiki/Soviet_Union) and the People’s Republic of China are often cited as the most successful diplomatic achievements of Nixon’s presidency.[[1]](http://en.wikipedia.org/wiki/1972_Nixon_visit_to_China#cite_note-0) After [World War II](http://en.wikipedia.org/wiki/World_War_II), Americans saw relations between the United States and the Soviet Union deteriorating, Russians consolidating communist puppet states over much of [Eastern Europe](http://en.wikipedia.org/wiki/Eastern_Europe), and China teetering on the edge of communism. Many Americans felt concern communists might cause the downfall of schools or labor unions. One of the main reasons Richard Nixon became the 1952 Vice-president candidate on the [Eisenhower](http://en.wikipedia.org/wiki/Dwight_D._Eisenhower) ticket was his strong anti-communism stance. Despite this, in 1972 Nixon became the first U.S. president to visit China.[[2]](http://en.wikipedia.org/wiki/1972_Nixon_visit_to_China#cite_note-1)” [↑](#endnote-ref-129)
130. <http://en.wikipedia.org/wiki/Potemkin_village>

     “**Potemkin villages** or Potyomkin villages (Russian: Потёмкинские деревни) is an idiom based on a historical myth. According to the myth, there were fake settlements purportedly erected at the direction of [Russian](http://en.wikipedia.org/wiki/Russia) minister [Grigory Potyomkin](http://en.wikipedia.org/wiki/Grigory_Potyomkin) to fool Empress [Catherine II](http://en.wikipedia.org/wiki/Catherine_II_of_Russia) during her visit to [Crimea](http://en.wikipedia.org/wiki/Crimea) in 1787. According to this story, Potyomkin, who led the [Crimean military campaign](http://en.wikipedia.org/wiki/Russo-Turkish_War,_1787-1792), had hollow [facades](http://en.wikipedia.org/wiki/Facade) of villages constructed along the desolate banks of the [Dnieper River](http://en.wikipedia.org/wiki/Dnieper_River) in order to impress the monarch and her travel party with the value of her new conquests, thus enhancing his standing in the empress' eyes.” [↑](#endnote-ref-130)
131. <http://en.wikipedia.org/wiki/Cuban_missile_crisis>

     “The compromise was a particularly sharp embarrassment for Khrushchev and the Soviet Union because the withdrawal of U.S. missiles from Italy and Turkey was not made public—it was a secret deal between Kennedy and Khrushchev. The Soviets were seen as retreating from circumstances that they had started—though if played well, it could have looked just the opposite. Khrushchev's fall from power two years later can be partially linked to [Politburo](http://en.wikipedia.org/wiki/Politburo_of_the_CPSU_Central_Committee) embarrassment at both Khrushchev's eventual concessions to the U.S. and his ineptitude in precipitating the crisis in the first place. However, the Cuban Missile Crisis was not solely responsible for the fall of Khrushchev.[[*citation needed*](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed)]

     Cuba perceived it as a partial betrayal by the Soviets, given that decisions on how to resolve the crisis had been made exclusively by Kennedy and Khrushchev. Castro was especially upset that certain issues of interest to Cuba, such as the status of Guantanamo, were not addressed. This caused Cuban-Soviet relations to deteriorate for years to come.[[52]](http://en.wikipedia.org/wiki/Cuban_missile_crisis#cite_note-Ramonet-52):278 On the other hand, Cuba continued to be protected from invasion.” [↑](#endnote-ref-131)
132. <http://en.wikipedia.org/wiki/Kruschev>

     “Khrushchev attributed his recall to Moscow to mental disorder on the part of Stalin, who feared conspiracies in Moscow matching those which the ruler believed to have occurred in the fabricated [Leningrad case](http://en.wikipedia.org/wiki/Leningrad_case), in which many of that city's Party officials had been falsely accused of treason.[[91]](http://en.wikipedia.org/wiki/Kruschev#cite_note-90) Khrushchev again served as head of the Party in Moscow city and province. Khrushchev biographer Taubman suggests that Stalin most likely recalled Khrushchev to Moscow to balance the influence of [Georgy Malenkov](http://en.wikipedia.org/wiki/Georgy_Malenkov) and security chief [Lavrentiy Beria](http://en.wikipedia.org/wiki/Lavrentiy_Beria), who were widely seen as Stalin's heirs.[[92]](http://en.wikipedia.org/wiki/Kruschev#cite_note-91)

     At this time, the aging dictator rarely called Party meetings. Instead, much of the high-level work of government took place at dinners hosted by Stalin. These sessions, which Beria, Malenkov, Khrushchev, Kaganovich, [Kliment Voroshilov](http://en.wikipedia.org/wiki/Kliment_Voroshilov), [Vyacheslav Molotov](http://en.wikipedia.org/wiki/Vyacheslav_Molotov), and [Nikolai Bulganin](http://en.wikipedia.org/wiki/Nikolai_Bulganin), who comprised Stalin's inner circle, attended, began with showings of cowboy movies favored by Stalin.[[93]](http://en.wikipedia.org/wiki/Kruschev#cite_note-cowboy-92) Stolen from the West, they lacked subtitles. The dictator had the meal served at around 1 a.m., and insisted that his subordinates stay with him and drink until dawn. On one occasion, Stalin had Khrushchev, then aged almost sixty, dance [a traditional Ukrainian dance](http://en.wikipedia.org/wiki/Hopak). Khrushchev did so, later stating, "When Stalin says dance, a wise man dances."[[93]](http://en.wikipedia.org/wiki/Kruschev#cite_note-cowboy-92) Khrushchev attempted to nap at lunch so that he would not fall asleep in the dictator's presence; he noted in his memoirs, "Things went badly for those who dozed off at Stalin's table."[[94]](http://en.wikipedia.org/wiki/Kruschev#cite_note-93) [↑](#endnote-ref-132)
133. Khrushchev’s address [↑](#endnote-ref-133)
134. <http://en.wikipedia.org/wiki/Lamarckism>

     “**Lamarckism** (or **Lamarckian inheritance**) is the idea that an organism can pass on characteristics that it acquired during its lifetime to its offspring (also known as [heritability of acquired characteristics](http://en.wikipedia.org/wiki/Inheritance_of_acquired_characters) or [soft inheritance](http://en.wikipedia.org/wiki/Soft_inheritance)). It is named after the French biologist [Jean-Baptiste Lamarck](http://en.wikipedia.org/wiki/Jean-Baptiste_Lamarck) (1744–1829), who incorporated the action of soft inheritance into his evolutionary theories. He is often incorrectly cited[[*citation needed*](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed)] as the founder of soft inheritance, which proposes that individual efforts during the lifetime of the organisms were the main mechanism driving species to [adaptation](http://en.wikipedia.org/wiki/Adaptation), as they supposedly would acquire adaptive changes and pass them on to offspring.” [↑](#endnote-ref-134)
135. <http://en.wikipedia.org/wiki/Gregor_Mendel>

     “**Gregor Johann Mendel** (July 20, 1822[[1]](http://en.wikipedia.org/wiki/Gregor_Mendel#cite_note-0) – January 6, 1884) was an [Augustinian](http://en.wikipedia.org/wiki/Augustinians) [priest](http://en.wikipedia.org/wiki/Priest) and [scientist](http://en.wikipedia.org/wiki/Scientist), who gained posthumous fame as the figurehead of the new science of [genetics](http://en.wikipedia.org/wiki/Genetics) for his study of the [inheritance](http://en.wikipedia.org/wiki/Biological_inheritance) of certain [traits](http://en.wikipedia.org/wiki/Trait_%28biological%29) in [pea](http://en.wikipedia.org/wiki/Pea) plants. Mendel showed that the inheritance of these traits follows particular [laws](http://en.wikipedia.org/wiki/Mendelian_inheritance), which were later named after him. The significance of Mendel's work was not recognized until the turn of the 20th century. The independent rediscovery of these laws formed the foundation of the modern science of genetics.[[2]](http://en.wikipedia.org/wiki/Gregor_Mendel#cite_note-pb-1)” [↑](#endnote-ref-135)
136. <http://en.wikipedia.org/wiki/The_Hundred_Flowers_Movement>

     “The **Hundred Flowers Campaign**, also termed the **Hundred Flowers Movement**, ([simplified Chinese](http://en.wikipedia.org/wiki/Simplified_Chinese_characters): 百花运动; [traditional Chinese](http://en.wikipedia.org/wiki/Traditional_Chinese_characters): 百花運動; [pinyin](http://en.wikipedia.org/wiki/Pinyin): *bǎihuā yùndòng*) refers to a brief interlude in the [People's Republic of China](http://en.wikipedia.org/wiki/People%27s_Republic_of_China) from 1956 to 1957 during which the [Chinese Communist Party](http://en.wikipedia.org/wiki/Communist_Party_of_China) (CCP) encouraged a variety of views and solutions to national policy issues, launched under the slogan: *"Letting a hundred flowers blossom and a hundred schools of thought contend is the policy for promoting progress in the arts and the sciences and a flourishing socialist culture in our land."*

     The first part of the phrase is often mistranslated and remembered in the west as "let a thousand flowers bloom" and used to refer to alleged deliberate attempts to flush out dissidents by encouraging them to show themselves as critical of the regime, before wiping them out.[[1]](http://en.wikipedia.org/wiki/The_Hundred_Flowers_Movement#cite_note-0) This view is supported by author [Jung Chang](http://en.wikipedia.org/wiki/Jung_Chang), who states that the campaign was a political trap, and that [Mao](http://en.wikipedia.org/wiki/Mao) persecuted those who had views different from the party. This view has also been challenged, notably because Premier [Zhou Enlai](http://en.wikipedia.org/wiki/Zhou_Enlai) played a large role in the campaign. The ideological crackdown following the campaign's failure re-imposed [Maoist](http://en.wikipedia.org/wiki/Maoism) orthodoxy in public expression.” [↑](#endnote-ref-136)
137. <http://en.wikipedia.org/wiki/Nineteen_Eighty-Four>

     “***Nineteen Eighty-Four*** (sometimes written ***1984***) is a 1949 [dystopian novel](http://en.wikipedia.org/wiki/Dystopian_novel) by [George Orwell](http://en.wikipedia.org/wiki/George_Orwell) about the [totalitarian](http://en.wikipedia.org/wiki/Totalitarian) regime of the Party. Orwell reversed the order of the digits "48" in the numeral of the year numbered "1948", during which year he was writing the novel, to obtain the "84" in the "1984" title. The novel depicts an [oligarchical](http://en.wikipedia.org/wiki/Oligarchy) [collectivist](http://en.wikipedia.org/wiki/Collectivist) society where life in the [Oceanian](http://en.wikipedia.org/wiki/Oceania_%28Nineteen_Eighty-Four%29) province of [Airstrip One](http://en.wikipedia.org/wiki/Airstrip_One) is a world of [perpetual war](http://en.wikipedia.org/wiki/Perpetual_war), pervasive government [surveillance](http://en.wikipedia.org/wiki/Surveillance), and incessant public [mind control](http://en.wikipedia.org/wiki/Mind_control). The individual is always subordinated to the masses, and it is in part this philosophy which allows the Party to manipulate and control humanity. In the [Ministry of Truth](http://en.wikipedia.org/wiki/Ministry_of_Truth) (Minitrue), protagonist [Winston Smith](http://en.wikipedia.org/wiki/Winston_Smith) is a [civil servant](http://en.wikipedia.org/wiki/Civil_servant) responsible for perpetuating the Party's [propaganda](http://en.wikipedia.org/wiki/Propaganda) by [revising](http://en.wikipedia.org/wiki/Historical_revisionism_%28negationism%29) historical records to render the Party omniscient and always correct, yet his meagre existence disillusions him to the point of seeking [rebellion](http://en.wikipedia.org/wiki/Rebellion) against [Big Brother](http://en.wikipedia.org/wiki/Big_Brother_%28Nineteen_Eighty-Four%29), eventually leading to his arrest, torture, and conversion.

     As literary [political fiction](http://en.wikipedia.org/wiki/Political_fiction), *1984* is a classic novel of the [social science fiction](http://en.wikipedia.org/wiki/Social_science_fiction) subgenre, thus, since its publication in 1949, the terms and concepts of [*Big Brother*](http://en.wikipedia.org/wiki/Big_Brother_%28Nineteen_Eighty-Four%29), [*doublethink*](http://en.wikipedia.org/wiki/Doublethink), [*thoughtcrime*](http://en.wikipedia.org/wiki/Thoughtcrime), [*Newspeak*](http://en.wikipedia.org/wiki/Newspeak), [*Memory hole*](http://en.wikipedia.org/wiki/Memory_hole), et cetera, became contemporary [vernacular](http://en.wikipedia.org/wiki/Vernacular), including the adjective [*Orwellian*](http://en.wikipedia.org/wiki/Orwellian), denoting George Orwell's writings and [totalitarianism](http://en.wikipedia.org/wiki/Totalitarianism) as exposited in *Nineteen Eighty-Four* and [*Animal Farm*](http://en.wikipedia.org/wiki/Animal_Farm) (1945).[[1]](http://en.wikipedia.org/wiki/Nineteen_Eighty-Four#cite_note-0) Other classifications for the novel may include science fiction and satire.” [↑](#endnote-ref-137)
138. <http://en.wikipedia.org/wiki/Trotsky>

     “In October 1927, Trotsky and Zinoviev were expelled from the Central Committee. When the United Opposition tried to organize independent demonstrations commemorating the 10th anniversary of the Bolshevik seizure of power in November 1927, the demonstrators were dispersed by force and Trotsky and Zinoviev were expelled from the Communist Party on 12 November. Their leading supporters, from Kamenev down, were expelled in December 1927 by the [XVth Party Congress](http://en.wikipedia.org/wiki/15th_Congress_of_the_All-Union_Communist_Party_%28Bolsheviks%29), which paved the way for mass expulsions of rank and file oppositionists as well as internal exile of opposition leaders in early 1928.

     When the XVth Party Congress made Opposition views incompatible with membership in the Communist Party, Zinoviev, Kamenev and their supporters capitulated and renounced their alliance with the Left Opposition. Trotsky and most of his followers, on the other hand, refused to surrender and stayed the course.

     Trotsky was exiled to [Alma Ata](http://en.wikipedia.org/wiki/Almaty) in [Kazakhstan](http://en.wikipedia.org/wiki/Kazakhstan) on 31 January 1928. He was expelled from the Soviet Union to [Turkey](http://en.wikipedia.org/wiki/Turkey) in February 1929, accompanied by his wife [Natalia Sedova](http://en.wikipedia.org/wiki/Natalia_Sedova) and his son [Lev Sedov](http://en.wikipedia.org/wiki/Lev_Sedov).

     After Trotsky's expulsion from the country, exiled Trotskyists began to waver and, between 1929 and 1934, most of the leading members of the Opposition surrendered to Stalin, "admitted their mistakes" and were reinstated in the Communist Party. [Christian Rakovsky](http://en.wikipedia.org/wiki/Christian_Rakovsky), who served as an inspiration for Trotsky between 1929 and 1934 while he was in Siberian exile, was the last prominent Trotskyist to capitulate. Almost all of them perished in the [Great Purges](http://en.wikipedia.org/wiki/Great_Purge) just a few years later.” [↑](#endnote-ref-138)
139. <http://en.wikipedia.org/wiki/Norman_Vincent_Peale>

     “A second major accusation of Peale is that he attempts to conceal that his "techniques" are actually a scientifically well known form of hypnosis, and that Peale attempts to persuade his readers to follow his beliefs through a combination of self-hypnosis and false evidence. While his techniques are not debated by [psychologists](http://en.wikipedia.org/wiki/Psychologists), Dr. Peale's said his theological practice and strategy was directed more at self analysis, forgiveness, character development, and growth [[22]](http://en.wikipedia.org/wiki/Norman_Vincent_Peale#cite_note-21) much like the [Jesuits](http://en.wikipedia.org/wiki/Jesuits) of the [Catholic Church](http://en.wikipedia.org/wiki/Catholic_Church).[[23]](http://en.wikipedia.org/wiki/Norman_Vincent_Peale#cite_note-22)

     Peale asserts that practicing his "techniques" will give the reader absolute self confidence and deliverance from suffering. The critics, in turn, assert that the repetitive "techniques" are actually a well known form of hypnosis ([autosuggestion](http://en.wikipedia.org/wiki/Autosuggestion)), hidden under a thin guise with the use of terms which may sound more benign from the reader's point of view ("techniques", "formulas," "methods," "prayers," and "prescriptions."). One author called Peale's book "The Bible of American autohypnotism."[[24]](http://en.wikipedia.org/wiki/Norman_Vincent_Peale#cite_note-23)

     Psychiatrist R.C. Murphy writes "Self knowledge, in Mr. Peale's understanding is unequivocally bad: self hypnosis is good." Murphy adds that the repeated hypnosis defeats an individual's self motivation, self knowledge, unique sense of self, sense of reality, and the ability to think critically. Murphy calls Peale's understanding of the mind inaccurate, "without depth," and Peale's description of the workings of the mind and the [unconscious mind](http://en.wikipedia.org/wiki/Unconscious_mind) as deceptively simplistic and false: "It is the very shallowness of his concept of 'person' that makes his rules appear easy ... If the unconscious of man ... can be conceptualized as a container for a small number of psychic fragments, then ideas like 'mind-drainage' follow. So does the reliance on self-hypnosis, which is the cornerstone of Mr. Peale's philosophy.'"[[21]](http://en.wikipedia.org/wiki/Norman_Vincent_Peale#cite_note-murphy-20) [↑](#endnote-ref-139)
140. <http://en.wikipedia.org/wiki/Transmission_of_the_Classics>

     “As books were gathered, so were many [Arab](http://en.wikipedia.org/wiki/Arab) scholars who had studied Greek ideas in the east. For example, Muhammud ibn 'Abdun and 'Abdu'l-Rahman ibn Ismail came to Spain and introduced many ideas about [medicine](http://en.wikipedia.org/wiki/Islamic_medicine) as well as several of the works of Aristotle and [Euclid](http://en.wikipedia.org/wiki/Euclid). [Ibn Bajjah](http://en.wikipedia.org/wiki/Ibn_Bajjah) (known as “Avempace”) and [Ibn Rushd](http://en.wikipedia.org/wiki/Averroes) (known as “Averroes”) were among the other famous philosophers of Spain who furthered the expansion of Greek ideas in medicine and philosophy.[[26]](http://en.wikipedia.org/wiki/Transmission_of_the_Classics#cite_note-25)

     Prior to Averroes, many Arab philosophers had confused Aristotle with [Plotinus](http://en.wikipedia.org/wiki/Plotinus), a [Hellenized](http://en.wikipedia.org/wiki/Hellenization) [Egyptian](http://en.wikipedia.org/wiki/History_of_Roman_Egypt) who founded [Neoplatonism](http://en.wikipedia.org/wiki/Neoplatonism) and had mixed Aristotle's ideas with Plato's. Averroes rediscovered the “true” Aristotle by translating key texts reintroducing him to [Arab Spain](http://en.wikipedia.org/wiki/Al-Andalus). He also challenged Al-Ghazali's largely anti-Greek philosophies and offered some of the best reconciliation of Islam and philosophy of the time.[[27]](http://en.wikipedia.org/wiki/Transmission_of_the_Classics#cite_note-Averr-26) Key to his arguments was the idea that although there was only one truth, that truth could be expressed in many ways, including both philosophy and religion. He even used the [Qur'an](http://en.wikipedia.org/wiki/Qur%27an) to back up his arguments in favor of Greek philosophy and logic, especially the passage: “It is [Muhammad] who has revealed the Book to you...some of its verses are unambiguous...and the others are ambiguous...only God and those confirmed in knowledge know its interpretation.” Averroes argued that “those confirmed in knowledge” were philosophers.[[27]](http://en.wikipedia.org/wiki/Transmission_of_the_Classics#cite_note-Averr-26)” [↑](#endnote-ref-140)
141. <http://en.wikipedia.org/wiki/Thomas_Aquinas>

     “Aquinas wrote several important commentaries on Aristotle, including [On the Soul](http://en.wikipedia.org/wiki/On_the_Soul), [Nicomachean Ethics](http://en.wikipedia.org/wiki/Nicomachean_Ethics) and [Metaphysics](http://en.wikipedia.org/wiki/Metaphysics_%28Aristotle%29). His work is associated with [William of Moerbeke's](http://en.wikipedia.org/wiki/William_of_Moerbeke) translations of Aristotle from [Greek](http://en.wikipedia.org/wiki/Ancient_Greek) into [Latin](http://en.wikipedia.org/wiki/Latin).” [↑](#endnote-ref-141)
142. <http://en.wikipedia.org/wiki/Godel>

     “In 1931 and while still in Vienna, Gödel published his famous [incompleteness theorems](http://en.wikipedia.org/wiki/G%C3%B6del%27s_incompleteness_theorems) in "Über formal unentscheidbare Sätze der *Principia Mathematica* und verwandter Systeme" (called in English "[On formally undecidable propositions of *Principia Mathematica* and related systems](http://en.wikipedia.org/wiki/On_Formally_Undecidable_Propositions_of_Principia_Mathematica_and_Related_Systems)"). In that article, he proved for any [computable](http://en.wikipedia.org/wiki/Recursion_theory) [axiomatic system](http://en.wikipedia.org/wiki/Axiomatic_system) that is powerful enough to describe the arithmetic of the [natural numbers](http://en.wikipedia.org/wiki/Natural_numbers) (e.g. the [Peano axioms](http://en.wikipedia.org/wiki/Peano_axioms) or [ZFC](http://en.wikipedia.org/wiki/ZFC)), that:

     1. If the [system](http://en.wikipedia.org/wiki/Formal_system) is [consistent](http://en.wikipedia.org/wiki/Consistency_proof), it cannot be [complete](http://en.wikipedia.org/wiki/Completeness).
     2. The consistency of the [axioms](http://en.wikipedia.org/wiki/Axiom) cannot be proven within the [system](http://en.wikipedia.org/wiki/Axiomatic_system).

     These theorems ended a half-century of attempts, beginning with the work of [Frege](http://en.wikipedia.org/wiki/Frege) and culminating in [*Principia Mathematica*](http://en.wikipedia.org/wiki/Principia_Mathematica) and [Hilbert's formalism](http://en.wikipedia.org/wiki/Philosophy_of_mathematics#Formalism), to find a set of axioms sufficient for all mathematics. The incompleteness theorems also imply that not all mathematical questions are computable.

     In hindsight, the basic idea at the heart of the incompleteness theorem is rather simple. Gödel essentially constructed a formula that claims that it is unprovable in a given formal system. If it were provable, it would be false, which contradicts the idea that in a consistent system, provable statements are always true. Thus there will always be at least one true but unprovable statement. That is, for any [computably enumerable](http://en.wikipedia.org/wiki/Computably_enumerable) set of axioms for arithmetic (that is, a set that can in principle be printed out by an idealized computer with unlimited resources), there is a formula that obtains in arithmetic, but which is not provable in that system. To make this precise, however, Gödel needed to solve several technical issues, such as encoding statements, proofs, and the very concept of provability into the natural numbers. He did this using a process known as [Gödel numbering](http://en.wikipedia.org/wiki/G%C3%B6del_number).” [↑](#endnote-ref-142)
143. <http://en.wikipedia.org/wiki/Francisco_Franco>

     “The first decade of Franco's rule in the 1940s following the end of the Civil War in 1939 saw continued oppression and the killing of an indetermined number of political opponents. Estimation is difficult and controversial, but the number of people killed probably lies somewhere between 15,000 and 50,000 (see above, *The end of the Civil War*).

     Subsequently Franco's state became less violent, but during his rule non-government [trade unions](http://en.wikipedia.org/wiki/Trade_union) and all political opponents across the [political spectrum](http://en.wikipedia.org/wiki/Political_spectrum), from [communist](http://en.wikipedia.org/wiki/Communism) and [anarchist](http://en.wikipedia.org/wiki/Anarchism) organizations to [liberal democrats](http://en.wikipedia.org/wiki/Liberal_democracy) and [Catalan](http://en.wikipedia.org/wiki/Catalan_nationalism) or [Basque](http://en.wikipedia.org/wiki/Basque_nationalism) separatists, were either suppressed or tightly controlled by all means, up to and including violent police repression. The [*Confederación Nacional del Trabajo*](http://en.wikipedia.org/wiki/Confederaci%C3%B3n_Nacional_del_Trabajo) (CNT) and the [*Unión General de Trabajadores*](http://en.wikipedia.org/wiki/Uni%C3%B3n_General_de_Trabajadores) (UGT) trade-unions were outlawed, and replaced in 1940 by the corporatist [*Sindicato Vertical*](http://en.wikipedia.org/wiki/Sindicato_Vertical). The [PSOE](http://en.wikipedia.org/wiki/PSOE) Socialist party and the [*Esquerra Republicana de Catalunya*](http://en.wikipedia.org/wiki/Esquerra_Republicana_de_Catalunya) (ERC) were banned in 1939, while the [Communist Party of Spain](http://en.wikipedia.org/wiki/Communist_Party_of_Spain_%28main%29) (PCE) went underground. The [Basque Nationalist Party](http://en.wikipedia.org/wiki/Basque_Nationalist_Party) (PNV) went into exile, and in 1959, the [ETA](http://en.wikipedia.org/wiki/ETA) armed group was created to wage a [low-intensity war](http://en.wikipedia.org/wiki/Low-intensity_warfare) against Franco.” [↑](#endnote-ref-143)
144. <http://en.wikipedia.org/wiki/Jesuits>

     “The Suppression of the Jesuits in Portugal, France, the [Two Sicilies](http://en.wikipedia.org/wiki/Two_Sicilies), [Parma](http://en.wikipedia.org/wiki/Duchy_of_Parma) and the [Spanish Empire](http://en.wikipedia.org/wiki/Spanish_Empire) by 1767 was troubling to the Society's defender, [Pope Clement XIII](http://en.wikipedia.org/wiki/Pope_Clement_XIII). A decree signed under secular pressure by [Pope Clement XIV](http://en.wikipedia.org/wiki/Pope_Clement_XIV) in July 1773 suppressed the Order. The suppression was carried out in all countries except [Prussia](http://en.wikipedia.org/wiki/Prussia) and Russia, where [Catherine the Great](http://en.wikipedia.org/wiki/Catherine_the_Great) had forbidden the [papal](http://en.wikipedia.org/wiki/Pope) decree to be executed. Because millions of Catholics (including many Jesuits) lived in the Polish western provinces of the Russian Empire, the Society was able to maintain its existence and carry on its work all through the period of suppression. Subsequently, [Pope Pius VI](http://en.wikipedia.org/wiki/Pope_Pius_VI) would grant formal permission for the continuation of the Society in Russia and Poland. Based on that permission, [Stanislaus Czerniewicz](http://en.wikipedia.org/wiki/Stanislaus_Czerniewicz) was elected superior of the Society in 1782. [Pope Pius VII](http://en.wikipedia.org/wiki/Pope_Pius_VII) during his captivity in France, had resolved to restore the Jesuits universally; and after his return to Rome he did so with little delay: on 7 August 1814, by the bull [*Sollicitudo omnium ecclesiarum*](http://en.wikipedia.org/wiki/Sollicitudo_omnium_ecclesiarum), he reversed the suppression of the Order and therewith, the then Superior in Russia, [Thaddeus Brzozowski](http://en.wikipedia.org/wiki/Thaddeus_Brzozowski), who had been elected in 1805, acquired universal jurisdiction.

     The period following the Restoration of the Jesuits in 1814 was marked by tremendous growth, as evidenced by the large number of Jesuit colleges and universities established in the 19th century. In the United States, 22 of the Society's 28 universities were founded or taken over by the Jesuits during this time. Some claim that the experience of suppression served to heighten [orthodoxy](http://en.wikipedia.org/wiki/Orthodoxy) among the Jesuits upon restoration. While this claim is debatable, Jesuits were generally supportive of Papal authority within the Church, and some members were associated with the [Ultramontanist](http://en.wikipedia.org/wiki/Ultramontanist) movement and the declaration of [Papal Infallibility](http://en.wikipedia.org/wiki/Papal_Infallibility) in 1870.” [↑](#endnote-ref-144)
145. <http://en.wikipedia.org/wiki/Visigoths>

     “The **Visigoths** ([Latin](http://en.wikipedia.org/wiki/Latin_language): *Visigothi*, *Wisigothi*, *Vesi*, *Visi*, *Wesi*, or *Wisi*) were one of two main branches of the [Goths](http://en.wikipedia.org/wiki/Goths), an [East Germanic tribe](http://en.wikipedia.org/wiki/East_Germanic_tribe); the [Ostrogoths](http://en.wikipedia.org/wiki/Ostrogoths) being the other. Together these tribes were among the [barbarians](http://en.wikipedia.org/wiki/Barbarians) who disturbed the late [Roman Empire](http://en.wikipedia.org/wiki/Roman_Empire) during the [Migration Period](http://en.wikipedia.org/wiki/Migration_Period). The [romanized](http://en.wikipedia.org/wiki/Romanized) Visigoths first emerged as a distinct people during the fourth century, initially in the [Balkans](http://en.wikipedia.org/wiki/Balkans), where they participated in several wars with Rome. A Visigothic army under [Alaric I](http://en.wikipedia.org/wiki/Alaric_I) eventually moved into Italy and famously [sacked Rome in 410](http://en.wikipedia.org/wiki/Sack_of_Rome_%28410%29).” [↑](#endnote-ref-145)
146. <http://en.wikipedia.org/wiki/Frederick_II,_Holy_Roman_Emperor#The_war_against_the_Pope_and_the_Italian_Guelphs>

     “**Frederick II of** [**Hohenstaufen**](http://en.wikipedia.org/wiki/Hohenstaufen) (26 December 1194 – 13 December 1250), called "*Stupor mundi*", the "wonder of the world" was one of the most powerful [Holy Roman Emperors](http://en.wikipedia.org/wiki/Holy_Roman_Emperor) of the Middle Ages. Viewing himself as a direct successor to the [Roman Emperors](http://en.wikipedia.org/wiki/Roman_Emperors) of Antiquity,[[1]](http://en.wikipedia.org/wiki/Frederick_II,_Holy_Roman_Emperor#cite_note-0) he was [King of the Romans](http://en.wikipedia.org/wiki/King_of_the_Romans) from his papal coronation in 1220 until his death; he was also a claimant to the title of [King of the Romans](http://en.wikipedia.org/wiki/King_of_the_Romans) from 1212 and unopposed holder of that monarchy from 1215. As such, he was [King of Germany](http://en.wikipedia.org/wiki/King_of_Germany), [of Italy](http://en.wikipedia.org/wiki/King_of_Italy), and [of Burgundy](http://en.wikipedia.org/wiki/King_of_Burgundy). At the age of three he was crowned [King of Sicily](http://en.wikipedia.org/wiki/Kingdom_of_Sicily) as a co-ruler with his mother [Constance](http://en.wikipedia.org/wiki/Constance_of_Sicily), the daughter of [Roger II of Sicily](http://en.wikipedia.org/wiki/Roger_II_of_Sicily). His other royal title was [King of Jerusalem](http://en.wikipedia.org/wiki/King_of_Jerusalem) by virtue of marriage and his connection with the [Sixth Crusade](http://en.wikipedia.org/wiki/Sixth_Crusade).

     He was frequently at war with the Papacy, hemmed in between Frederick's lands in northern Italy and his [Kingdom of Sicily](http://en.wikipedia.org/wiki/Kingdom_of_Sicily) (the *Regno*) to the south, and thus he was [excommunicated](http://en.wikipedia.org/wiki/Excommunication) twice and often vilified in pro-papal chronicles of the time and since. [Pope Gregory IX](http://en.wikipedia.org/wiki/Pope_Gregory_IX) went so far as to call him the [Antichrist](http://en.wikipedia.org/wiki/Antichrist).” [↑](#endnote-ref-146)
147. <http://en.wikipedia.org/wiki/Giordano_bruno>

     “**Giordano Bruno** (1548 – February 17, 1600), born **Filippo Bruno**, was an [Italian](http://en.wikipedia.org/wiki/Italian_people) [Dominican](http://en.wikipedia.org/wiki/Dominican_Order) [friar](http://en.wikipedia.org/wiki/Friar), [philosopher](http://en.wikipedia.org/wiki/Philosopher), [mathematician](http://en.wikipedia.org/wiki/Mathematician) and [astronomer](http://en.wikipedia.org/wiki/Astronomer), who is best known as a proponent of the infinity of the universe. His cosmological theories went beyond the [Copernican](http://en.wikipedia.org/wiki/Copernican_heliocentrism) model in identifying the [sun](http://en.wikipedia.org/wiki/Sun) as just one of an infinite number of independently moving heavenly bodies: he is the first man to have conceptualized the universe as a continuum where the stars we see at night are identical in nature to the Sun. He was [burned at the stake](http://en.wikipedia.org/wiki/Execution_by_burning) by authorities in 1600 after the [Roman Inquisition](http://en.wikipedia.org/wiki/Roman_Inquisition) found him guilty of [heresy](http://en.wikipedia.org/wiki/Christian_heresy). After his death he gained considerable fame; in the 19th and early 20th centuries, commentators focusing on his astronomical beliefs regarded him as a martyr for free thought and modern scientific ideas. Recent assessments suggest that his ideas about the universe played a smaller role in his trial than his [pantheist](http://en.wikipedia.org/wiki/Pantheist) beliefs, which differed from the interpretations and scope of [God](http://en.wikipedia.org/wiki/God) held by [Catholicism](http://en.wikipedia.org/wiki/Catholicism).[[1]](http://en.wikipedia.org/wiki/Giordano_bruno#cite_note-0)[[2]](http://en.wikipedia.org/wiki/Giordano_bruno#cite_note-1)” [↑](#endnote-ref-147)
148. <http://en.wikipedia.org/wiki/Hadrian%27s_wall>

     “**Hadrian's Wall** ([Latin](http://en.wikipedia.org/wiki/Latin_language): *Vallum Aelium - as inferred from text on the* [*Staffordshire Moorlands Patera*](http://en.wikipedia.org/wiki/Rudge_Cup#Staffordshire_Moorlands_Patera)) is a [stone](http://en.wikipedia.org/wiki/Rock_%28geology%29) and timber [fortification](http://en.wikipedia.org/wiki/Fortification) built by the [Roman Empire](http://en.wikipedia.org/wiki/Roman_Empire) across the width of what is now [northern England](http://en.wikipedia.org/wiki/Northern_England). Begun in AD 122, during the rule of emperor [Hadrian](http://en.wikipedia.org/wiki/Hadrian), it was the first of two fortifications built across Great Britain, the second being the [Antonine Wall](http://en.wikipedia.org/wiki/Antonine_Wall) in what is now Scotland. Hadrian's Wall is the better known of the two because its physical remains are more evident today.

     Opinions differ, but the growing consensus is that the Wall was built as a readily defended fortification which clearly defined the northern frontier (Latin: [limes](http://en.wikipedia.org/wiki/Limes)) of the Roman Empire in Britain ([Britannia](http://en.wikipedia.org/wiki/Roman_Britain)). It would also improve economic stability and provide peaceful conditions in the frontier zone.[[1]](http://en.wikipedia.org/wiki/Hadrian%27s_wall#cite_note-Stephen_Johnson_2004-0)

     The wall was the most heavily fortified border in the Empire. In addition to its role as a military fortification, it is thought that many of the gates through the wall would have served as [customs](http://en.wikipedia.org/wiki/Customs) posts to allow trade and levy [taxation](http://en.wikipedia.org/wiki/Taxation).” [↑](#endnote-ref-148)
149. <http://en.wikipedia.org/wiki/King_Canute>

     “**Cnut the Great** ([Old English](http://en.wikipedia.org/wiki/Old_English_language): *Cnūt*; [Old Norse](http://en.wikipedia.org/wiki/Old_Norse): *Knūtr inn rīki*; [Danish](http://en.wikipedia.org/wiki/Danish_language): ***Knud den Store*** *or* ***Knud II***[[1]](http://en.wikipedia.org/wiki/King_Canute#cite_note-0) [c.](http://en.wikipedia.org/wiki/Circa) 985 or 995 – 12 November 1035), also known as **Canute** or **Knut**, was a [Viking](http://en.wikipedia.org/wiki/Viking) king of [Denmark](http://en.wikipedia.org/wiki/Denmark) (**Cnut II**), [England](http://en.wikipedia.org/wiki/Kingdom_of_England), [Norway](http://en.wikipedia.org/wiki/Norway) and parts of [Sweden](http://en.wikipedia.org/wiki/Sweden). As a [statesman](http://en.wikipedia.org/wiki/Statesman), with notable successes in [politics](http://en.wikipedia.org/wiki/Politics) and the [military](http://en.wikipedia.org/wiki/Military), and the importance of his legacy – if now obscure – Cnut seems to have been one of the greatest figures of [medieval Europe](http://en.wikipedia.org/wiki/History_of_Europe#Middle_Ages). Until recently though, after the death of his heirs within a decade of his own and the [Norman conquest of England](http://en.wikipedia.org/wiki/Norman_conquest_of_England) in 1066, his achievements were largely lost to history.” [↑](#endnote-ref-149)
150. <http://en.wikipedia.org/wiki/Alfred_the_Great>

     “**Alfred the Great** ([Old English](http://en.wikipedia.org/wiki/Old_English_language): *Ælfrēd*, *Ælfrǣd*, "elf counsel"; 849 – 26 October 899), was King of [Wessex](http://en.wikipedia.org/wiki/Wessex) from 871 to 899. Alfred is noted for his defence of the [Anglo-Saxon](http://en.wikipedia.org/wiki/Anglo-Saxon) kingdoms of southern England against the [Vikings](http://en.wikipedia.org/wiki/Vikings), becoming the only [English](http://en.wikipedia.org/wiki/English_people) king to be accorded the [epithet](http://en.wikipedia.org/wiki/Epithet) "the Great".[[1]](http://en.wikipedia.org/wiki/Alfred_the_Great#cite_note-0) Alfred was the first [King of the West Saxons](http://en.wikipedia.org/wiki/List_of_monarchs_of_Wessex) to style himself "King of the Anglo-Saxons". Details of his life are described in a work by the [Welsh](http://en.wikipedia.org/wiki/Welsh_people) scholar and bishop [Asser](http://en.wikipedia.org/wiki/Asser). Alfred was a learned man who encouraged education and improved his kingdom's [legal](http://en.wikipedia.org/wiki/Law) system and [military](http://en.wikipedia.org/wiki/Military) structure. He is regarded as a [saint](http://en.wikipedia.org/wiki/Saint) by some [Catholics](http://en.wikipedia.org/wiki/Roman_Catholic_Church), but has never been officially canonized.[[2]](http://en.wikipedia.org/wiki/Alfred_the_Great#cite_note-1) The [Anglican Communion](http://en.wikipedia.org/wiki/Anglican_Communion) venerates him as a [hero of the Christian Church](http://en.wikipedia.org/wiki/Saints_in_Anglicanism), with a [feast day](http://en.wikipedia.org/wiki/Feast_day) of 26 October,[[3]](http://en.wikipedia.org/wiki/Alfred_the_Great#cite_note-2) and he may often be found depicted in [stained glass](http://en.wikipedia.org/wiki/Stained_glass) in [Church of England parish churches](http://en.wikipedia.org/wiki/Church_of_England_parish_church).” [↑](#endnote-ref-150)
151. <http://en.wikipedia.org/wiki/Ambiorix>

     “In 57 BC Julius Caesar conquered [Gaul](http://en.wikipedia.org/wiki/Gaul) and also [Belgica](http://en.wikipedia.org/wiki/Belgica) (modernday Northern France, Belgium and a southern section of the [Netherlands](http://en.wikipedia.org/wiki/Netherlands) to the [Rhine](http://en.wikipedia.org/wiki/Rhine) River; and the north-western portion of North Rhine-Westfalia, Germany.) There were several tribes in the country who fought against each other regularly. The [Eburones](http://en.wikipedia.org/wiki/Eburones) were ruled by Ambiorix and [Catuvolcus](http://en.wikipedia.org/wiki/Catuvolcus). In 54 BC Caesar's troops urgently needed more food and thereby the local tribes were forced to give up part of their [harvest](http://en.wikipedia.org/wiki/Harvest), which had not been good that year. Understandably the [starving](http://en.wikipedia.org/wiki/Starving) Eburones were reluctant to do so and Caesar ordered that [camps](http://en.wikipedia.org/wiki/Military_camp) be built near the Eburones' villages. Each [centurion](http://en.wikipedia.org/wiki/Centurion) was ordered to make sure the food supplies were delivered to the [Roman](http://en.wikipedia.org/wiki/Ancient_Rome) [soldiers](http://en.wikipedia.org/wiki/Soldiers). This created resentment among the Eburones.

     Although [Julius Caesar](http://en.wikipedia.org/wiki/Julius_Caesar) had freed him from paying tribute to the [Atuatuci](http://en.wikipedia.org/wiki/Atuatuci), Ambiorix joined [Catuvolcus](http://en.wikipedia.org/wiki/Catuvolcus) in the winter of 54 BC in an uprising against the [Roman](http://en.wikipedia.org/wiki/Roman_Republic) forces under [Quintus Titurius Sabinus](http://en.wikipedia.org/wiki/Quintus_Titurius_Sabinus) and [Lucius Aurunculeius Cotta](http://en.wikipedia.org/wiki/Lucius_Aurunculeius_Cotta).” [↑](#endnote-ref-151)
152. <http://en.wikipedia.org/wiki/Trebuchet> [↑](#endnote-ref-152)
153. <http://en.wikipedia.org/wiki/Georgy_Zhukov>

     “[Marshal of the Soviet Union](http://en.wikipedia.org/wiki/Marshal_of_the_Soviet_Union) **Georgy Konstantinovich Zhukov** ([Russian](http://en.wikipedia.org/wiki/Russian_language): Гео́ргий Константи́нович Жу́ков; December 1 [[O.S.](http://en.wikipedia.org/wiki/Old_Style_and_New_Style_dates) November 19] 1896 – June 18, 1974) was a [Russian](http://en.wikipedia.org/wiki/Russians) career [officer](http://en.wikipedia.org/wiki/Officer_%28armed_forces%29) in the [Red Army](http://en.wikipedia.org/wiki/Red_Army) who, in the course of [World War II](http://en.wikipedia.org/wiki/World_War_II), played a pivotal role in leading the Red Army through much of [Eastern Europe](http://en.wikipedia.org/wiki/Eastern_Europe) to liberate the [Soviet Union](http://en.wikipedia.org/wiki/Soviet_Union) and other nations from the [Axis Powers](http://en.wikipedia.org/wiki/Axis_Powers)' occupation and conquer [Germany](http://en.wikipedia.org/wiki/Nazi_Germany)'s capital, [Berlin](http://en.wikipedia.org/wiki/Berlin). He is the most decorated general in the history of both Russia and the Soviet Union.” [↑](#endnote-ref-153)
154. <http://en.wikipedia.org/wiki/Velvet_Revolution>

     “The **Velvet Revolution** ([Czech](http://en.wikipedia.org/wiki/Czech_language): *sametová revoluce*) or **Gentle Revolution** ([Slovak](http://en.wikipedia.org/wiki/Slovak_language): *nežná revolúcia*) (November 17 – December 29, 1989) was a [non-violent revolution](http://en.wikipedia.org/wiki/Nonviolent_revolution) in [Czechoslovakia](http://en.wikipedia.org/wiki/Czechoslovakia) that saw the overthrow of the [authoritarian](http://en.wikipedia.org/wiki/Authoritarian) government.[[1]](http://en.wikipedia.org/wiki/Velvet_Revolution#cite_note-0)

     On November 17, 1989, a Friday, riot police suppressed a peaceful [student demonstration](http://en.wikipedia.org/wiki/Student_activism) in [Prague](http://en.wikipedia.org/wiki/Prague). That event sparked a series of popular demonstrations from November 19 to late December. By November 20 the number of peaceful [protesters](http://en.wikipedia.org/wiki/Protest) assembled in Prague had swollen from 200,000 the previous day to an estimated half-million. A two-hour [general strike](http://en.wikipedia.org/wiki/General_strike), involving all citizens of Czechoslovakia, was held on November 27.

     With the collapse of other [Warsaw Pact](http://en.wikipedia.org/wiki/Warsaw_Pact) governments and increasing street protests, the [Communist Party of Czechoslovakia](http://en.wikipedia.org/wiki/Communist_Party_of_Czechoslovakia) announced on November 28 that it would relinquish power and dismantle the [single-party state](http://en.wikipedia.org/wiki/Single-party_state). [Barbed wire](http://en.wikipedia.org/wiki/Barbed_wire) and other obstructions were removed from the [border with West Germany and Austria](http://en.wikipedia.org/wiki/Czechoslovak_border_fortifications_during_the_Cold_War) in early December. On December 10, President [Gustáv Husák](http://en.wikipedia.org/wiki/Gust%C3%A1v_Hus%C3%A1k) appointed the first largely non-[communist](http://en.wikipedia.org/wiki/Communist) government in Czechoslovakia since 1948, and resigned. [Alexander Dubček](http://en.wikipedia.org/wiki/Alexander_Dub%C4%8Dek) was elected speaker of the federal parliament on December 28 and [Václav Havel](http://en.wikipedia.org/wiki/V%C3%A1clav_Havel) the President of Czechoslovakia on December 29, 1989. [↑](#endnote-ref-154)
155. <http://en.wikipedia.org/wiki/Detente>

     “**Détente** is the easing of strained relations, especially in a political situation. The term is often used in reference to the general easing of relations between the [Soviet Union](http://en.wikipedia.org/wiki/Soviet_Union) and the [United States](http://en.wikipedia.org/wiki/United_States) in the 1970s, a thawing at a period roughly in the middle of the [Cold War](http://en.wikipedia.org/wiki/Cold_War). In the Soviet Union, détente was known in [Russian](http://en.wikipedia.org/wiki/Russian_language): as разрядка ("*razryadka*", loosely meaning relaxation, discharge). Détente is an alternative strategy to [rollback](http://en.wikipedia.org/wiki/Rollback), the strategy of destroying an enemy state, and [containment](http://en.wikipedia.org/wiki/Containment), which means preventing the expansion of the enemy state.” [↑](#endnote-ref-155)
156. <http://en.wikipedia.org/wiki/La_Com%C3%A9die_humaine>

     “***a Comédie humaine*** (French pronunciation: [[la kɔmedi ymɛn]](http://en.wikipedia.org/wiki/Wikipedia:IPA_for_French), *The Human Comedy*) is the title of [Honoré de Balzac](http://en.wikipedia.org/wiki/Honor%C3%A9_de_Balzac)'s (1799–1850) [multi-volume collection of interlinked novels](http://en.wikipedia.org/wiki/Roman-fleuve) and stories depicting French society in the period of the [Restoration](http://en.wikipedia.org/wiki/Bourbon_Dynasty,_Restored) and the [July Monarchy](http://en.wikipedia.org/wiki/July_Monarchy) (1815–1848).” [↑](#endnote-ref-156)
157. <http://en.wikipedia.org/wiki/Blackwater_Worldwide>

     “**Xe Services LLC** (pronounced [/ˈziː/](http://en.wikipedia.org/wiki/Wikipedia:IPA_for_English) [*zee*](http://en.wikipedia.org/wiki/Wikipedia:Pronunciation_respelling_key)) is a [private military company](http://en.wikipedia.org/wiki/Private_military_company) founded as **Blackwater** USA in 1997 by [Erik Prince](http://en.wikipedia.org/wiki/Erik_Prince) and [Al Clark](http://en.wikipedia.org/wiki/Al_Clark_%28Blackwater%29).[[2]](http://en.wikipedia.org/wiki/Blackwater_Worldwide#cite_note-Gielink_2007_149-1)[[3]](http://en.wikipedia.org/wiki/Blackwater_Worldwide#cite_note-2) The company has a wide array of business divisions, subsidiaries, and spin-off corporations but the organization as a whole has aroused significant controversy.[[4]](http://en.wikipedia.org/wiki/Blackwater_Worldwide#cite_note-SundayHerald_090207-3)[[5]](http://en.wikipedia.org/wiki/Blackwater_Worldwide#cite_note-Alternet_092807-4)[[6]](http://en.wikipedia.org/wiki/Blackwater_Worldwide#cite_note-ScoopNZ_092807-5)[[7]](http://en.wikipedia.org/wiki/Blackwater_Worldwide#cite_note-HeraldUK_09-6)[[8]](http://en.wikipedia.org/wiki/Blackwater_Worldwide#cite_note-TehranTimes_092307-7)

     Based in [North Carolina](http://en.wikipedia.org/wiki/North_Carolina), Xe operates a tactical training facility ([36°27′N 76°12′W﻿ / ﻿36.45°N 76.2°W﻿ / 36.45; -76.2](http://toolserver.org/%7Egeohack/geohack.php?pagename=Blackwater_Worldwide&params=36_27_N_76_12_W_type:landmark_scale:50000_region:US)) that the company claims is the world's largest, where it trains more than 40,000 people a year, mostly from U.S. and other military and police services. The training consists of military offensive and defensive operations, as well as smaller scale personal security.

     

     Xe is currently the largest of the [U.S. State Department](http://en.wikipedia.org/wiki/United_States_Department_of_State)'s three private security contractors. Of the 987 contractors Xe provides, 744 are U.S. citizens.[[9]](http://en.wikipedia.org/wiki/Blackwater_Worldwide#cite_note-APBW_092207-8)[[10]](http://en.wikipedia.org/wiki/Blackwater_Worldwide#cite_note-CRS_CongressReportRL32419-9) At least 90% of the company's revenue comes from government contracts, of which two-thirds are [no-bid contracts](http://en.wikipedia.org/wiki/No-bid_contract).[[11]](http://en.wikipedia.org/wiki/Blackwater_Worldwide#cite_note-Virginian-Pilot_072506-10) Xe provided security services in [Iraq](http://en.wikipedia.org/wiki/Blackwater_Worldwide#Iraq_War_involvement) to the [United States federal government](http://en.wikipedia.org/wiki/United_States_federal_government), particularly the [Central Intelligence Agency](http://en.wikipedia.org/wiki/Central_Intelligence_Agency)[[1]](http://en.wikipedia.org/wiki/Blackwater_Worldwide#cite_note-OversightContract1-0) on a contractual basis. They no longer have a license to operate in Iraq: the new [Iraqi government](http://en.wikipedia.org/wiki/Iraqi_government) made multiple attempts to expel them from their country,[[12]](http://en.wikipedia.org/wiki/Blackwater_Worldwide" \l "cite_note-WP-licenserenewal-11) and denied their application for an operating license in January 2009.[[13]](http://en.wikipedia.org/wiki/Blackwater_Worldwide#cite_note-nyt-licenseapplication-12) However, the company is still under contract with the State Department and some Xe personnel were working legally in Iraq at least until September 2009.[[14]](http://en.wikipedia.org/wiki/Blackwater_Worldwide#cite_note-13)” [↑](#endnote-ref-157)
158. <http://en.wikipedia.org/wiki/Sicilian_Mafia> [↑](#endnote-ref-158)
159. <http://en.wikipedia.org/wiki/War_of_the_Spanish_Succession>

     “The **War of the Spanish Succession** (1701–1714) was fought among several European powers, principally the [Spanish loyal to Archduke Charles](http://en.wikipedia.org/wiki/Charles_VI,_Holy_Roman_Emperor), the [Holy Roman Empire](http://en.wikipedia.org/wiki/Holy_Roman_Empire), [Great Britain](http://en.wikipedia.org/wiki/Kingdom_of_Great_Britain), the [Dutch Republic](http://en.wikipedia.org/wiki/Dutch_Republic), [Portugal](http://en.wikipedia.org/wiki/Kingdom_of_Portugal) and the [Duchy of Savoy](http://en.wikipedia.org/wiki/Duchy_of_Savoy) against the [Spanish loyal to Philip V](http://en.wikipedia.org/wiki/Philip_V_of_Spain), [France](http://en.wikipedia.org/wiki/Early_Modern_France) and the Electorate of Bavaria over a possible unification of the Kingdoms of Spain and France under one [Bourbon](http://en.wikipedia.org/wiki/House_of_Bourbon) monarch. Such a unification would have drastically changed the European [balance of power](http://en.wikipedia.org/wiki/Balance_of_power_in_international_relations). The war was fought mostly in Europe but included [Queen Anne's War](http://en.wikipedia.org/wiki/Queen_Anne%27s_War) in [North America](http://en.wikipedia.org/wiki/North_America) and it was marked by the military leadership of notable generals including the [Duc de Villars](http://en.wikipedia.org/wiki/Claude_Louis_Hector_de_Villars), the [Jacobite](http://en.wikipedia.org/wiki/Jacobitism) [Duke of Berwick](http://en.wikipedia.org/wiki/James_FitzJames,_1st_Duke_of_Berwick-upon-Tweed), the [Duke of Marlborough](http://en.wikipedia.org/wiki/John_Churchill,_1st_Duke_of_Marlborough) and [Prince Eugene of Savoy](http://en.wikipedia.org/wiki/Prince_Eugene_of_Savoy). It resulted in the recognition of [Philip](http://en.wikipedia.org/wiki/Philip_V_of_Spain) as King of Spain while requiring him to renounce any claim to the French throne and to cede much of the Spanish Crown's possessions to the Holy Roman Empire, the Dutch Republic, Savoy and Great Britain, partitioning the [Spanish Empire](http://en.wikipedia.org/wiki/Spanish_Empire) in Europe.” [↑](#endnote-ref-159)
160. <http://en.wikipedia.org/wiki/Schlieffen_plan>

     “The **Schlieffen Plan** was the [German General Staff](http://en.wikipedia.org/wiki/German_General_Staff)'s early 20th century overall strategic plan for victory in a possible future war where it might find itself fighting on two fronts: [France](http://en.wikipedia.org/wiki/France) to the west and [Russia](http://en.wikipedia.org/wiki/Russia) to the east. The [First World War](http://en.wikipedia.org/wiki/World_War_I) later became such a war with both a [Western Front](http://en.wikipedia.org/wiki/Western_Front_%28World_War_I%29) and an [Eastern Front](http://en.wikipedia.org/wiki/Eastern_Front_%28World_War_I%29). The plan took advantage of expected differences in the three countries' speed in preparing for war. In short, it was the German plan to avoid a [two-front war](http://en.wikipedia.org/wiki/Two-front_war) by concentrating their troops in the west, quickly defeating the French and then, if necessary, rushing those troops by rail to the east to face the Russians before they had time to mobilize fully. The Schlieffen Plan was created by Count [Alfred von Schlieffen](http://en.wikipedia.org/wiki/Alfred_von_Schlieffen) and modified by [Helmuth von Moltke the Younger](http://en.wikipedia.org/wiki/Helmuth_von_Moltke_the_Younger) after Schlieffen's retirement. It was Moltke who actually put the plan into action, despite initial reservations about it.[[*citation needed*](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed)] In modified form, it was executed to near victory in the first month of [World War I](http://en.wikipedia.org/wiki/World_War_I); however, the modifications to the original plan, a French counterattack on the outskirts of [Paris](http://en.wikipedia.org/wiki/Paris) (the [Battle of the Marne](http://en.wikipedia.org/wiki/First_Battle_of_the_Marne)), and surprisingly speedy Russian offensives, ended the German offensive and resulted in years of [trench warfare](http://en.wikipedia.org/wiki/Trench_warfare). The plan has been the subject of intense debate among historians and military scholars ever since. Schlieffen's last words were "remember to keep the right flank strong", a request which was watered down by Moltke.” [↑](#endnote-ref-160)
161. <http://www.hartford-hwp.com/archives/61/index-hab.html> [↑](#endnote-ref-161)
162. <http://www.ccus.info/books/cc/yugoslavia.shtml> [↑](#endnote-ref-162)
163. <http://www.historylearningsite.co.uk/hyperinflation_weimar_germany.htm> [↑](#endnote-ref-163)
164. <http://en.wikipedia.org/wiki/Pawnbroker>

     “The pawnbroker assumes the risk that an item purchased was actually stolen property. However, laws exist in many jurisdictions that protect both the community at large and the brokers from unknowingly engaging in criminal activity (buying and selling stolen goods). These laws often require the pawnbroker to establish positive identification of the seller through photo identification (such as a driver's license or government-issued identity document), as well as a holding period placed on an item purchased by a pawnbroker (to allow for local law enforcement authorities to track down stolen items). In some cities, pawnshops must give a list of all newly-pawned items and their serial number to the police, to allow the police to determine if any of the items have been reported as stolen. Many police departments will advise burglary or robbery victims to visit local pawnshops to see if they can locate stolen items which might have been pawned or sold to the pawnbroker.” [↑](#endnote-ref-164)
165. <http://money.howstuffworks.com/money-laundering.htm> [↑](#endnote-ref-165)
166. <http://books.google.com.au/books?id=0f7yTNb_V3QC&pg=PA593&lpg=PA593&dq=mafia+bankrupt+company&source=bl&ots=OeOzNQ4DZU&sig=oWPWZNgYLLCe_tikUIwn9mqFqiY&hl=en&ei=6YYtTKn5IYqgkQXhvfh9&sa=X&oi=book_result&ct=result&resnum=4&ved=0CCMQ6AEwAw#v=onepage&q=mafia%20bankrupt%20company&f=false> [↑](#endnote-ref-166)
167. <http://www1.voanews.com/english/news/americas/French-Prosecutors-Seek-10-Year-Sentence-for-Noriega-97484369.html> [↑](#endnote-ref-167)
168. <http://www.usatoday.com/money/world/2008-11-11-mafia-economy_N.htm> [↑](#endnote-ref-168)
169. <http://en.wikipedia.org/wiki/Privatization_in_Russia>

     Russian privatization was the reform consisting in privatization of state-owned industrial assets that took place in Russia in the 1990s, during the presidency of Boris Yeltsin, immediately after the collapse of the Soviet Union, where private ownership of enterprises had been illegal for a long time. The privatization enabled Russia to shift from the deteriorating Soviet planned economy towards market economy, but as a result a good deal of the national wealth fell into the hands of a relatively small group of so-called business oligarchs (tycoons), and the wealth gap increased dramatically. [↑](#endnote-ref-169)
170. [http://en.wikipedia.org/wiki/Privatization\_of\_British\_Rail](http://en.wikipedia.org/wiki/Privatisation_of_British_Rail)

     “The Thatcher administration developed a policy of selling off the nationalized industries into private ownership, or privatization. As far as the railways were concerned, the government's policy had little effect during the whole period of the Thatcher administration except in relatively small areas, as it was considered that privatizing core railway operations would be too difficult. The chain of British Transport Hotels was sold off, mainly one hotel at a time, in 1982; Sealink (UK) Limited was sold in 1984 to Sea Containers Limited, who ultimately sold the routes to their current owner, Stena Line. In 1988 British Rail Engineering Limited was split between the major engineering works, which became BREL (1988) Ltd, and the (mostly smaller) works that were used for day-to-day maintenance of rolling stock, which became British Rail Maintenance Limited (BRML). BREL (1988) Ltd was soon sold to the Swiss-Swedish conglomerate ASEA Brown-Boveri, which renamed the company ABB Transportation. A merger between ABB Transportation and Daimler Benz created ADtranz on 1 January 1996; ADtranz was subsequently taken over by the Canadian-owned conglomerate, Bombardier.” [↑](#endnote-ref-170)
171. <http://en.wikipedia.org/wiki/Ranch>

     “Along with ranchers came the need for agricultural crops to feed both humans and livestock, and hence many farmers also came west along with ranchers. Many operations were "diversified," with both ranching and farming activities taking place. With the Homestead Act of 1862, more settlers came west to set up farms. This created some conflict, as increasing numbers of farmers needed to fence off fields to prevent cattle and sheep from eating their crops. Barbed wire, invented in 1874, gradually made inroads in fencing off privately owned land, especially for homesteads. There was some reduction of land on the Great Plains open to grazing.” [↑](#endnote-ref-171)
172. <http://en.wikipedia.org/wiki/Meritocracy>

     “Meritocracy is a system of a aristocratic or oligarchical government[1][2] or other organization wherein appointments are made and responsibilities assigned to individuals based upon demonstrated intelligence and ability (merit), evaluated using (frequent) institutionalised examination. This is opposed to other value systems, where reward and legitimacy is based upon possession of wealth (plutocracy), origin (aristocracy), family connections (nepotism), property, friendship (cronyism), technical expertise (technocracy), seniority (gerontocracy), popularity (representative democracy), or other historical determinants of social position and political power.” [↑](#endnote-ref-172)
173. <http://en.wikipedia.org/wiki/From_each_according_to_his_ability,_to_each_according_to_his_need>

     “From each according to his ability, to each according to his need (or needs) is a slogan popularized by Karl Marx in his 1875 Critique of the Gotha Program.[1] The phrase summarizes the principles that, under a Communist system, every person should contribute to society to the best of his or her ability and consume from society in proportion to his or her needs. In the Marxist view, such an arrange ment will be made possible by the abundance of goods and services that a developed Communist society will produce; the idea is that there will be enough to satisfy everyone's needs.[2][3]” [↑](#endnote-ref-173)
174. <http://en.wikipedia.org/wiki/Atlas_Shrugged>

     Rand then set out to create a work of fiction that explored the role of the mind in man's life and the morality of rational self-interest,[11] by exploring the consequences when the "men of the mind" go on strike, refusing to allow their inventions, art, business leadership, scientific research, or new ideas to be taken from them by the government or by the rest of the world. [↑](#endnote-ref-174)
175. <http://www.wildwatch.com/living_library/plants-1/acacias-thorn-trees-of-africa> [↑](#endnote-ref-175)
176. <http://www.primitivism.com/elephant-acacia.htm> [↑](#endnote-ref-176)
177. <http://www.looktothestars.org/> [↑](#endnote-ref-177)
178. “Veterinary herbal medicine “ by S. Wynn and B. Fougere [↑](#endnote-ref-178)
179. <http://en.wikipedia.org/wiki/Virulence>

     “Short-sighted evolution (which all evolution is) suggests that the traits that increase reproduction rate and transmission to a new host will rise to high frequency within the pathogen population. These traits include the ability to reproduce sooner, reproduce faster, reproduce in higher numbers, live longer, survive against antibodies, or survive in parts of the body the pathogen does not normally infiltrate. These traits typically arise due to mutations, which occur more frequently in pathogen populations than in host populations, due to the pathogens' rapid generation time and immense numbers. After only a few generations, the mutations that enhance rapid reproduction or dispersal will increase in frequency. The same mutations that enhance the reproduction and dispersal of the pathogen also enhance its virulence in the host, causing much harm (disease and death). If the pathogen's virulence kills the host and interferes with its own transmission to a new host, virulence will be selected against. But as long as transmission continues despite the virulence, virulent pathogens will have the advantage. So, for example, virulence often increases within families, where transmission from one host to the next is likely, no matter how sick the host. Similarly, in crowded conditions such as refugee camps, virulence tends to increase over time since new hosts cannot escape the likelihood of infection.” [↑](#endnote-ref-179)
180. <http://en.wikipedia.org/wiki/Evolutionary_medicine>

     “Such adaptations concern: \* The evolution of pathogens in terms of their virulence, resistance to antibiotics, and subversion of an individual’s immune system. \* The processes, constraints and trade-offs of human evolution. \* The evolved responses that enable individuals to protect, heal and recuperate themselves from infections and injuries such as immunity, fever, and sickness behavior, and the processes that regulate their deployment to maximize fitness. \* How past adaptation of early humans to their ancestral environment now affects contemporary humans with their different diet, life expectancy, degree of physical exercise, and hygiene. [↑](#endnote-ref-180)
181. <http://en.wikipedia.org/wiki/Federally_Administered_Tribal_Areas>

     “The NWFP Provincial Assembly has no power in FATA, and can only exercise its powers in PATA that are part of NWFP. The assembly cannot implement the law directly as it can do in other parts of the province or Settled Areas of NWFP. This has created a political vacuum in FATA, Frontier Regions and PATA, which serves the interests of terrorists very well, as there is absence of various government departments like police, judiciary, local governments, and civic amenities. There are no High Courts and Supreme Courts of Pakistan in Tribal Areas.” [↑](#endnote-ref-181)
182. <http://www.knowgangs.com/gangsofamerica/> [↑](#endnote-ref-182)
183. <http://en.wikipedia.org/wiki/City_of_God_%28film%29>

     “It depicts the growth of organized crime in the Cidade de Deus suburb of Rio de Janeiro, between the end of the '60s and the beginning of the '80s,…” [↑](#endnote-ref-183)
184. <http://www.time.com/time/world/article/0,8599,1948708,00.html> [↑](#endnote-ref-184)
185. <http://www.springerlink.com/content/l23225276k137217/> [↑](#endnote-ref-185)
186. <http://www.theotherrussia.org/2007/07/28/kasparov-on-the-putin-mafia/> [↑](#endnote-ref-186)
187. <http://www.citywire.co.uk/money/should-economic-news-scare-us-out-of-russia-and-china/a323379> [↑](#endnote-ref-187)
188. [http://www.nytimes.com/2008/twelve/29/business/worldbusiness/29iht-ruble.4.18982396.html](http://www.nytimes.com/2008/12/29/business/worldbusiness/29iht-ruble.4.18982396.html) [↑](#endnote-ref-188)
189. <http://en.wikipedia.org/wiki/Shock_therapy_%28economics%29>

     “Since the USSR's collapse, the post-Soviet states faced many problems. Among other things, provision of healthcare and social services had declined, life expectancy had fallen, and the GDP was halved. Poverty in the region had increased more than tenfold.[twelve] The economic crisis that struck all post-Soviet countries in the 1990s was twice as intense as the Great Depression in the countries of Western Europe and the United States in the 1930s.[13][14] However, it has not been established whether these adverse outcomes were due to the general collapse of the Soviet economy (which began before 1989) or the policies subsequently implemented or a combination of both. Some research suggests that the very fast pace of 'shock therapy' privatization mattered, and had a particularly harsh effect on the death rate in Russia.[15] Sachs himself resigned from his post as advisor, after stating the he felt his advice was unheeded and his policy recommendations were not actually put into practice.[16][17]” [↑](#endnote-ref-189)
190. [http://www.sciencedirect.com/science?\_ob=ArticleURL&\_udi=B6V6G-46RV9KC-3G&\_user=10&\_coverDate=twelve%2F31%2F1971&\_rdoc=1&\_fmt=high&\_orig=search&\_sort=d&\_docanchor=&view=c&\_searchStrId=1389302110&\_rerunOrigin=google&\_acct=C000050221&\_version=1&\_urlVersion=0&\_userid=10&md5=aa659eef9a58f7cfa8ee6f9e0180b2e6](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V6G-46RV9KC-3G&_user=10&_coverDate=12%2F31%2F1971&_rdoc=1&_fmt=high&_orig=search&_sort=d&_docanchor=&view=c&_searchStrId=1389302110&_rerunOrigin=google&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=aa659eef9a58f7cfa8ee6f9e0180b2e6) [↑](#endnote-ref-190)
191. <http://www.pbs.org/wgbh/pages/frontline/shows/saudi/analyses/madrassas.html> [↑](#endnote-ref-191)
192. <http://en.wikipedia.org/wiki/Wahhabi>

     “According to Western observers like Gilles Kepel, Wahhabism gained considerable influence in the Islamic world following a tripling in the price of oil in the mid-1970s. Having the world's largest reserves of oil but a relatively small population, Saudi Arabia began to spend tens of billions of dollars throughout the Islamic world promoting Wahhabism, which was sometimes referred to as "petro-Islam".[43] According to the documentary called The Qur'an aired in the UK, presenter Antony Thomas suggests the figure may be "upward of $100 billion".[44] Its largess funded an estimated "90% of the expenses of the entire faith", throughout the Muslim world, according to journalist Dawood al-Shirian.[45] It extended to young and old, from children's madrasas to high-level scholarship.[46] "Books, scholarships, fellowships, mosques" (for example, "more than 1500 mosques were built from Saudi public funds over the last 50 years") were paid for.[47] It rewarded journalists and academics, who followed it; built satellite campuses around Egypt for Al Azhar, the oldest and most influential Islamic university.[48]” [↑](#endnote-ref-192)
193. <http://www.childsoldiersglobalreport.org/content/south-africa> [↑](#endnote-ref-193)
194. <http://news.bbc.co.uk/2/hi/africa/4415196.stm> [↑](#endnote-ref-194)
195. <http://www.gwu.edu/~nsarchiv/NSAEBB/NSAEBB2/nsaebb2.htm> [↑](#endnote-ref-195)
196. <http://www.spiegel.de/international/world/0,1518,519330,00.html> [↑](#endnote-ref-196)
197. <http://t4america.org/resources/stranded/> [↑](#endnote-ref-197)
198. <http://www.policeemployment.com/resources/articles/economic-slowdown-speeds-up-crime> [↑](#endnote-ref-198)
199. <http://www.america.gov/st/educ-english/2008/April/20080423213056eaifas0.9088663.html> [↑](#endnote-ref-199)
200. <http://www.mbarron.net/Nile/envir_nf.html> [↑](#endnote-ref-200)
201. <http://www.southamerica.cl/General_Information/Itaipu_Dam.htm> [↑](#endnote-ref-201)
202. <http://www.languageinindia.com/junjul2002/baldridgeindianenglish.html> [↑](#endnote-ref-202)
203. <http://en.wikipedia.org/wiki/Racism_in_the_United_States>

     “Institutional racism is the theory that aspects of the structure, pervasive attitudes, and established institutions of society disadvantage some racial groups, although not by an overtly discriminatory mechanism.[112] There are several factors that play into institutional racism, including but not limited to: accumulated wealth/benefits from racial groups that have benefited from past discrimination, educational and occupational disadvantages faced by non-native English speakers in the United States, ingrained stereotypical images that still remain in the society (e.g. black men are likely to be criminals).[113]” [↑](#endnote-ref-203)
204. <http://findarticles.com/p/articles/mi_m3495/is_2_48/ai_97873141/> [↑](#endnote-ref-204)
205. <http://articles.latimes.com/2007/oct/18/local/me-firestone18> [↑](#endnote-ref-205)
206. <http://blogs.houstonpress.com/hairballs/2009/06/ice_gang_roundup_ms13.php> [↑](#endnote-ref-206)
207. <http://en.wikipedia.org/wiki/Jewish_deicide>

     “A liturgy with a similar pattern, historically using the term "perfidious Jews", can be found in the Improperia of the Roman Catholic Church. In the Anglican Church, the first Anglican Book of Common Prayer did not contain this formula, but has emerged in later versions, for example, the 1989 Anglican Prayer Book of the Anglican Church of Southern Africa, as the “The Solemn Adoration of Christ Crucified" or The Reproaches.[9]. Though not part of Christian dogma, many Christians, including members of the clergy, preached that the Jewish people were collectively guilty for Jesus's death.[10]” [↑](#endnote-ref-207)
208. <http://en.wikipedia.org/wiki/Crime_in_the_United_States>

     “Patterns are found within the victimology of crime in the United States. Overall, the financially disadvantaged, males, those younger than 25 and non European-Americans were more likely to fall victim to crime. Income, sex and age had the most dramatic effect on the chances of a person being victimized by crime, while the characteristic of race depended upon the crime being committed.[citation needed] In 2005, 27 out of 1,000 African Americans became the victim of a violent crime, compared to 20 out of every 1,000 White Americans. African Americans were overall 35% more likely to sustain a violent crime. The likelihood of being murdered was drastically higher for African Americans.[23] In 2004 African Americans constituted roughly 13.4% of the general population,[24] yet, nearly half, 49%, of all murder victims in 2005 were African American.” [↑](#endnote-ref-208)
209. <http://en.wikipedia.org/wiki/Black_Panther_Party>

     “Gaining national prominence, the Black Panther Party became an icon of the counterculture of the 1960s.[7] Ultimately, the Panthers condemned black nationalizm as "black racism" and became more focused on socialism without racial exclusivity.[8] They instituted a variety of community social programs designed to alleviate poverty and improve health among communities deemed most needful of aid. It also recognized that different minority communities (those it deemed oppressed by the US government) needed to organize around their own set of issues and encouraged alliances with such organizations. The Black Panther Party's most influential and widely known programs were its armed citizens' patrols to evaluate behavior of police officers and its Free Breakfast for Children program. However, the group's political goals were often overshadowed by their confrontational, militant, and sometimes violent tactics against police.[9]” [↑](#endnote-ref-209)
210. <http://www.time.com/time/magazine/article/0,9171,906902,00.html> [↑](#endnote-ref-210)
211. <http://en.wikipedia.org/wiki/Securitization>

     “**Securitization** is the financial practice of pooling various types of contractual debt such as residential mortgages, commercial mortgages, auto loans or credit card debt obligations and selling said debt as bonds, pass-through securities, or [Collateralized mortgage obligation](http://en.wikipedia.org/wiki/Collateralized_mortgage_obligation) (CMOs), to various investors. The principal and interest on the debt, underlying the security, is paid back to the various investors regularly. Securities backed by mortgage receivables are called [mortgage-backed securities](http://en.wikipedia.org/wiki/Mortgage-backed_securities), while those backed by other types of receivables are [asset-backed securities](http://en.wikipedia.org/wiki/Asset-backed_securities). The so-called lower risk of [securitised instruments](http://en.wikipedia.org/w/index.php?title=Securitised_instruments&action=edit&redlink=1) attracts a greater number of [investors](http://en.wikipedia.org/wiki/Investors) seeking to benefit in the process of taking many individual assets and repackaging them as [Collateralized debt obligation](http://en.wikipedia.org/wiki/Collateralized_debt_obligation).

     With the claimed high degree of predictability in large groups and assumed predictability, investors usually prefer taking on risk, as a [herd](http://en.wikipedia.org/wiki/Herd), rather than the total exposure inherent in direct investment in individual assets. Unlike general [corporate debt](http://en.wikipedia.org/wiki/Corporate_debt), the [credit quality](http://en.wikipedia.org/wiki/Credit_quality) of securitised debt is non-[stationary](http://en.wikipedia.org/wiki/Stationary) due to changes in volatility that are time- and structure-dependent. If the transaction is properly structured and the pool performs as expected, the credit risk of all tranches of structured debt improves; if improperly structured, the affected tranches will experience dramatic credit deterioration and loss.[[1]](http://en.wikipedia.org/wiki/Securitization#cite_note-0)” [↑](#endnote-ref-211)
212. <http://www.washingtonexaminer.com/local/crime/U_S_-Attorney_s-Office-bulks-up-for-recession-bailout-fraud-86678937.html> [↑](#endnote-ref-212)
213. From the book “The Big Short” by M. Lewis [↑](#endnote-ref-213)
214. <http://en.wikipedia.org/wiki/Fixing_Broken_Windows>

     “The book is based on an article titled "Broken Windows" by James Q. Wilson and George L. Kelling, which appeared in the March 1982 edition of The Atlantic Monthly.[2] The title comes from the following example: Consider a building with a few broken windows. If the windows are not repaired, the tendency is for vandals to break a few more windows. Eventually, they may even break into the building, and if it's unoccupied, perhaps become squatters or light fires inside. Or consider a sidewalk. Some litter accumulates. Soon, more litter accumulates. Eventually, people even start leaving bags of trash from take-out restaurants there or breaking into cars. A successful strategy for preventing vandalism, say the book's authors, is to fix the problems when they are small. Repair the broken windows within a short time, say, a day or a week, and the tendency is that vandals are much less likely to break more windows or do further damage. Clean up the sidewalk every day, and the tendency is for litter not to accumulate (or for the rate of littering to be much less). Problems do not escalate and thus respectable residents do not flee a neighborhood. [↑](#endnote-ref-214)
215. <http://en.wikipedia.org/wiki/White_flight>

     “White flight is the sociologic and demographic term denoting a trend wherein whites flee urban communities as the minority population increases, and move to other places like commuter towns.[1][2][3] Although an American coinage, “white flight” denotes like behavior in other countries. In many mixed-race cities in the U.S., the Brown v. Board of Education (1954) decision of the Supreme Court, ordering the de jure racial desegregation of public schools in the United States, and subsequent attempts to achieve de facto desegregation by means of forced busing, were major factors propelling white flight.[4][5]” [↑](#endnote-ref-215)
216. <http://en.wikipedia.org/wiki/Unemployment>

     “During a long period of unemployment, workers can lose their skills, causing a loss of human capital. Being unemployed can also reduce the life expectancy of workers by about 7 years [17]” [↑](#endnote-ref-216)
217. Ibid.

     “High unemployment can encourage xenophobia and protectionism as workers fear that foreigners are stealing their jobs.[citation needed] Efforts to preserve existing jobs of domestic and native workers include legal barriers against "outsiders" who want jobs, obstacles to immigration, and/or tariffs and similar trade barriers against foreign competitors. High unemployment can also cause social problems such as crime; if people don't have as much disposable income as before, then it is very likely that crime levels within the economy will increase.” [↑](#endnote-ref-217)
218. <http://en.wikipedia.org/wiki/Late-2000s_recession>

     “The financial crisis is linked to reckless lending practices by financial institutions and the growing trend of [securitization](http://en.wikipedia.org/wiki/Securitization) of real estate mortgages in the [United States](http://en.wikipedia.org/wiki/United_States).[[8]](http://en.wikipedia.org/wiki/Late-2000s_recession#cite_note-7)[[*not in citation given*](http://en.wikipedia.org/wiki/Wikipedia:Verifiability)] The US mortgage-backed securities, which had risks that were hard to assess, were marketed around the world. A more broad based credit boom fed a global [speculative bubble](http://en.wikipedia.org/wiki/Speculative_bubble) in [real estate](http://en.wikipedia.org/wiki/Real_estate_bubble) and equities, which served to reinforce the risky lending practices.[[9]](http://en.wikipedia.org/wiki/Late-2000s_recession#cite_note-8)[[10]](http://en.wikipedia.org/wiki/Late-2000s_recession#cite_note-9) The precarious financial situation was made more difficult by a sharp increase in [oil](http://en.wikipedia.org/wiki/Oil_price_increases_since_2003) and [food prices](http://en.wikipedia.org/wiki/2007%E2%80%932008_world_food_price_crisis). The emergence of [Sub-prime loan](http://en.wikipedia.org/wiki/Subprime_lending) losses in 2007 began the crisis and exposed other risky loans and over-inflated asset prices. With loan losses mounting and the fall of [Lehman Brothers](http://en.wikipedia.org/wiki/Lehman_Brothers) on September 15, 2008, a major panic broke out on the inter-bank loan market. As share and housing prices declined, many large and well established [investment](http://en.wikipedia.org/wiki/Investment_bank) and [commercial](http://en.wikipedia.org/wiki/Commercial_bank) banks in the United States and [Europe](http://en.wikipedia.org/wiki/Europe) suffered huge losses and even faced bankruptcy, resulting in massive public financial assistance.” [↑](#endnote-ref-218)
219. <http://www.miamirealestateattorneyblog.com/2010/06/more-fraud-at-countrywide-foun.html?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+MiamiRealEstateAttorneyBlogCom+%28Miami+Real+Estate+Attorney+Blog%29> [↑](#endnote-ref-219)
220. [http://www.nytimes.com/2009/twelve/28/opinion/28krugman.html](http://www.nytimes.com/2009/12/28/opinion/28krugman.html) [↑](#endnote-ref-220)
221. <http://www.smh.com.au/news/national/telstra-to-bust-unions/2008/08/13/1218307006697.html> [↑](#endnote-ref-221)
222. <http://www.guardian.co.uk/business/2006/jan/29/theairlineindustry.theobserver> [↑](#endnote-ref-222)
223. <http://www.businessweek.com/magazine/content/05_19/b3932001_mz001.htm> [↑](#endnote-ref-223)
224. <http://www.bloomberg.com/apps/news?pid=newsarchive&sid=aB1jlqmFOTCA> [↑](#endnote-ref-224)
225. <http://www.businessweek.com/news/2010-05-18/euro-u-s-stocks-oil-tumble-as-germany-bans-naked-short-sales.html> [↑](#endnote-ref-225)
226. <http://en.wikipedia.org/wiki/Silk_Road>

     “Extending 4,000 miles, the routes enabled people to transport goods, especially luxuries such as slaves, silk, satin and other fine fabrics, musk, other perfumes, spices, medicines, jewels, glassware and even rhubarb, as well as serving as a conduit for the spread of knowledge, ideas, cultures and diseases[5] between different parts of the world (Ancient China, Ancient India, Asia Minor and the Mediterranean). Trade on the Silk Road was a significant factor in the development of the great civilizations of China, India, Egypt, Persia, Arabia and Rome, and in several respects helped lay the foundations for the modern world.” [↑](#endnote-ref-226)
227. <http://en.wikipedia.org/wiki/Aztec_society>

     “Prior to the fall of the Aztec Empire, the Aztec people had a stable economy driven by a successful trade market. The markets, which were located in the center of many communities, were well organized and diverse in goods, as noted by the Spanish conquistadors upon their arrival. The regional merchants, known as tlanecuilo tended to barter utilitarian items and foodstuffs, which included gold, silver, and other precious stones, cloth and cotton, animal skins, both agriculture and wild game, and woodwork. The trade market of the Aztec people was not only important to commerce, but also to the socialization, as the markets provided a place for the people to exchange information within their regions. This type of trade market was used primarily for locally produced goods, as there was not much traveling needed to exchange goods at the market. With no domestic animals and to effective way to transport goods, the local markets were an essential part of Aztec commerce. However, the Aztec nobility obtained much of their merchandise from neighboring highland basins, distant places within the Empire, and from land beyond the Empire, therefore creating the need for a long distance trade organization.” [↑](#endnote-ref-227)
228. <http://www.historydoctor.net/Advanced%20Placement%20European%20History/Notes/late_nineteenth_century_changes_in_science_and_thought.htm> [↑](#endnote-ref-228)
229. <http://litweb.net/biogs/balzac_honore_de.html> [↑](#endnote-ref-229)
230. <http://www.darwinawards.com/> [↑](#endnote-ref-230)
231. <http://library.thinkquest.org/C004367/eh4.shtml> [↑](#endnote-ref-231)
232. <http://en.wikipedia.org/wiki/Master_race>

     “In the late 19th century and early 20th century, many people of native Indo-European ancestry reasoned that their own Aryan race must be genetically superior to other races because they seemed to have the most advanced and sophisticated mathematics, science, technology, social organization, philosophy, music, and art [7]; so the purest Aryans, many native Indo-Europeans thought, would be the most genetically superior. The next logical step, many believed, was to improve the Aryan race itself by a eugenics program.” [↑](#endnote-ref-232)
233. <http://www.theforbiddenknowledge.com/hardtruth/malthusian_premise.htm> [↑](#endnote-ref-233)
234. <http://en.wikipedia.org/wiki/Iq_tests>

     Although modern IQ tests are unbiased,[68][dubious – discuss] average test scores over the last century have risen steadily around the world. This rise is known as the "Flynn effect," named for James R. Flynn, who did much to document it and promote awareness of its implications. The effect increase has been continuous and approximately linear from the earliest years of testing to the present. This means, given the same test, the mean performance of Blacks today could be higher than the mean for Whites in 1920, though the gains causing this appear to have occurred predominantly in the lower half of the IQ distribution. If an unknown environmental factor can cause changes in IQ over time, then contemporary differences between groups could also be due to an unknown environmental factor. Nichols (1987)[69] critically summarized the argument as follows: 1. We do not know what causes the test score changes over time. 2. We do not know what causes racial differences in intelligence. 3. Since both causes are unknown, they must, therefore, be the same. 4. Since the unknown cause of changes over time cannot be shown to be genetic, it must be environmental. 5. Therefore, racial differences in intelligence are environmental in origin. [↑](#endnote-ref-234)
235. <http://en.wikipedia.org/wiki/Bird-of-paradise>

     “Most species have elaborate mating rituals, with the Paradisaea species using a lek-type mating system. Others, such as the Cicinnurus and Parotia species, have highly ritualised mating dances. Males are polygamous in the sexually dimorphic species, but monogamous in at least some of the monomorphic species. Hybridisation is frequent in these birds, suggesting the polygamous species of bird of paradise are very closely related despite being in different genera. Many hybrids have been described as new species, and doubt remains regarding whether some forms, such as Rothschild's Lobe-billed Bird of Paradise, are valid.” [↑](#endnote-ref-235)
236. <http://en.wikipedia.org/wiki/Darwin%27s_finches>

     “On the Galápagos Islands and afterward, Darwin thought in terms of "centers of creation" and rejected ideas of transmutation of species.[4] From Henslow's teaching he was interested in geographical distribution of species, particularly links between species on oceanic islands and on nearby continents. On Chatham Island he recorded that a mockingbird was similar to those he had seen in Chile, and after finding a different one on Charles Island he carefully noted where mockingbirds had been caught, but paid little attention to the finches. When writing up his notes on the way to Tahiti Darwin was astonished to find that all the mockingbirds caught on Charles Island were of one species, those from Albemarle of another, and those from James and Chatham Islands of a third species.” [↑](#endnote-ref-236)
237. <http://en.wikipedia.org/wiki/Sexual_selection>

     “Sexual selection is the theory proposed by Charles Darwin that states that certain evolutionary traits can be explained by intraspecific competition. Darwin defined sexual selection as the effects of the "struggle between the individuals of one sex, generally the males, for the possession of the other sex".[1] Biologists today distinguish between "male to male combat" or "Intrasexual Selection" (it is usually males who fight each other), "mate choice" or "Intersexual Selection" (usually female choice of male mates)[2] and sexual conflict. Traits selected by male combat are called secondary sexual characteristics (including horns, antlers, etc.) and sometimes referred to as "weapons"; and traits selected by mate choice are called "ornaments". Much attention has been given to cryptic female choice,[3] a phenomenon in internally fertilising animals such as mammals and birds, where a female will get rid of a male's sperm without his knowledge. The equivalent in male-to-male combat is sperm competition. Females often prefer to mate with males with external ornaments, exaggerated features of morphology. These preferences may arise when an arbitrary female preference for some aspect of male morphology—initially increased by genetic drift—creates, in due course, selection for males with the appropriate ornament. This is known as the sexy son hypothesis. Alternatively, genes that enable males to develop impressive ornaments or fighting ability may simply show off greater disease resistance or a more efficient metabolism, features that also benefit females. This idea is known as the good genes hypothesis.” [↑](#endnote-ref-237)
238. <http://en.wikipedia.org/wiki/Bowerbird>

     “The most notable characteristic of bowerbirds is their extraordinarily complex courtship and mating behavior, where males build a bower to attract mates. There are two main types of bowers. One clade of bowerbirds build so-called maypole bowers that are constructed by placing sticks around a sapling, in some species these bowers have a hut-like roof. The other major bowerbuilding clade builds an avenue type bower made of two walls of vertically placed sticks. In and around the bower the male places a variety of brightly colored objects he has collected. These objects — usually different among each species — may include hundreds of shells, leaves, flowers, feathers, stones, berries, and even discarded plastic items, coins, nails, rifle shells, or pieces of glass. The males spend hours arranging this collection. Bowers within a species share a general form but do show significant variation, and the collection of objects reflects the biases of males of each species and its ability to procure items from the habitat, often stealing them from neighboring bowers. Several studies of different species have shown that colors of decorations males use on their bowers match the preferences of females.” [↑](#endnote-ref-238)
239. Ibid.

     “Uy and collaborators[who?] have shown that mate searching females commonly visit multiple bowers, often returning to the male several times, watching as the male owner's elaborate courtship displays and inspecting the quality of the bower and tasting the paint the male has placed on the bower walls. Many females end up selecting the same male, and many under-performing males are left without copulations. Females mated with top mating males tend to return to the male the next year and search less.” [↑](#endnote-ref-239)
240. <http://en.wikipedia.org/wiki/Evolution>

     “Speciation events are important in the theory of punctuated equilibrium, which accounts for the pattern in the fossil record of short "bursts" of evolution interspersed with relatively long periods of stasis, where species remain relatively unchanged.[210] In this theory, speciation and rapid evolution are linked, with natural selection and genetic drift acting most strongly on organisms undergoing speciation in novel habitats or small populations. As a result, the periods of stasis in the fossil record correspond to the parental population, and the organisms undergoing speciation and rapid evolution are found in small populations or geographically restricted habitats, and therefore rarely being preserved as fossils.[211]” [↑](#endnote-ref-240)
241. <http://en.wikipedia.org/wiki/Health_insurance>

     “Universal health care is a broad concept that has been implemented in several ways. The common denominator for all such programs is some form of government action aimed at extending access to health care as widely as possible and setting minimum standards. Most implement universal health care through legislation, regulation and taxation. Legislation and regulation direct what care must be provided, to whom, and on what basis. Usually some costs are borne by the patient at the time of consumption but the bulk of costs come from a combination of compulsory insurance and tax revenues. Some programs are paid for entirely out of tax revenues. In others tax revenues are used either to fund insurance for the very poor or for those needing long term chronic care.” [↑](#endnote-ref-241)
242. [http://books.google.com.au/books?id=7qaMqwGRE00C&pg=PA60&lpg=PA60&dq=thatcher+privatization+car+leyland&source=bl&ots=hU2Mg9TQjn&sig=FCzeiGBVUvcRluUWUCB7w5Pcbss&hl=en&ei=n1MxTP-JMJWXkQXB7tiCBA&sa=X&oi=book\_result&ct=result&resnum=5&ved=0CCoQ6AEwBA#v=onepage&q&f=false](http://books.google.com.au/books?id=7qaMqwGRE00C&pg=PA60&lpg=PA60&dq=thatcher+privatisation+car+leyland&source=bl&ots=hU2Mg9TQjn&sig=FCzeiGBVUvcRluUWUCB7w5Pcbss&hl=en&ei=n1MxTP-JMJWXkQXB7tiCBA&sa=X&oi=book_result&ct=result&resnum=5&ved=0CCoQ6AEwBA#v=onepage&q&f=false) [↑](#endnote-ref-242)
243. <http://en.wikipedia.org/wiki/National_Coal_Board>

     “The National Coal Board (NCB) was the Statutory Corporation created to run the nationalized coal mining industry in the United Kingdom. Set up under the Coal Industry Nationalization Act 1946, it took over the mines on 'vesting day', 1 January 1947. In 1987 it was re-named the British Coal Corporation, whose assets were subsequently privatized.” [↑](#endnote-ref-243)
244. <http://en.wikipedia.org/wiki/Nationalization>

     “# 2008 Northern Rock - announced by Alistair Darling, Chancellor of the Exchequer on 17 February 2008 as 'a temporary measure'. The bank will be run at 'arms length' as a commercial business and sold to a private buyer in the future.[20]

     # 2008 Bradford & Bingley (mortgage book only) - announced by Alistair Darling, Chancellor of the Exchequer on 29 September 2008. The loans part of the company was nationalized, while the commercial bank was sold off.[21]

     # 2008 In October, the Royal Bank of Scotland, and the newly merged HBOS-Lloyds TSB was partly nationalized. The Government took over approximately 60% of RBS (later increased to 70%, then 80%) and 40% of HBOS-Lloyds TSB. This is part of the £500bn bank rescue package.” [↑](#endnote-ref-244)
245. From the book Liar’s Poker by M. Lewis [↑](#endnote-ref-245)
246. <http://en.wikipedia.org/wiki/Domino_theory>

     “Referring to communism in Indochina, U.S. President Dwight D. Eisenhower put the theory into words during an April 7, 1954 news conference: “Finally, you have broader considerations that might follow what you would call the "falling domino" principle. You have a row of dominoes set up, you knock over the first one, and what will happen to the last one is the certainty that it will go over very quickly. So you could have a beginning of a disintegration that would have the most profound influences.” [↑](#endnote-ref-246)
247. <http://en.wikipedia.org/wiki/Competition_law>

     “Competition law, or antitrust law, has three main elements: \* prohibiting agreements or practices that restrict free trading and competition between business. This includes in particular the repression of free trade caused by cartels. \* banning abusive behavior by a firm dominating a market, or anti-competitive practices that tend to lead to such a dominant position. Practices controlled in this way may include predatory pricing, tying, price gouging, refusal to deal, and many others. \* supervising the mergers and acquisitions of large corporations, including some joint ventures. Transactions that are considered to threaten the competitive process can be prohibited altogether, or approved subject to "remedies" such as an obligation to divest part of the merged business or to offer licenses or access to facilities to enable other businesses to continue competing.” [↑](#endnote-ref-247)
248. <http://searchengineland.com/google-passes-72-us-market-share-33545> [↑](#endnote-ref-248)
249. <http://www.readwriteweb.com/start/2010/06/startups-ipos-and-exits-or-not.php> [↑](#endnote-ref-249)
250. <http://en.wikipedia.org/wiki/Chaebol>

     “Chaebol (alternatively Jaebol, Jaebeol; Korean pronunciation: [tɕɛːbəl]) refers to a South Korean form of business conglomerate. They are powerful global multinationals owning numerous international enterprises. The Korean word means "business family" or "monopoly" and is often used the way "conglomerate" is used in English. There are several dozen large Korean family-controlled corporate groups which fall under this definition. Through aggressive governmental support and finance, some have become well-known international brand names, such as Samsung, Hyundai and LG. The chaebol has also played a some significant role in South Korean politics. In 1988 a member of a chaebol family, Chong Mong-jun, president of Hyundai Heavy Industries, successfully ran for the National Assembly. Other business leaders also were chosen to be members of the National Assembly through proportional representation. Since 2000, Hyundai has played a role in the thawing of North Korean and South Korean relations.” [↑](#endnote-ref-250)
251. <http://en.wikipedia.org/wiki/Cross_ownership>

     “Positives of cross ownership: \* Closely ties each business to the economic destiny of its business partners \* Promotes a slow rate of economic change. Cross ownership of shares is criticized for:

     \* Stagnating the economy \* Wasting capital that could be used to improve productivity \* Expanding economic downturns by preventing reallocation of capital” [↑](#endnote-ref-251)
252. <http://en.wikipedia.org/wiki/Zombie_company>

     “"Zombie company" is used to describe a pathology in an economy where a failing company continues to operate with government support, but cannot stand on its own. The term traces to Edward Kane's explanation of the situation of insolvent savings and loan associations in the 1980s and of Japanese banks in in the early 1990s. During the financial crisis of February 2009, Newsweek Magazine gave a down arrow to banks in its conventional wisdom watch section saying, "restructure them now, before we get Japanese-style "zombie banks" stalking a lost decade.[2]” [↑](#endnote-ref-252)
253. <http://www.time.com/time/2002/enron/> [↑](#endnote-ref-253)
254. <http://en.wikipedia.org/wiki/Airline>

     “Many countries have national airlines that the government owns and operates. Fully private airlines are subject to a great deal of government regulation for economic, political, and safety concerns. For instance, governments often intervene to halt airline labor actions in order to protect the free flow of people, communications, and goods between different regions without compromising safety. The United States, Australia, and to a lesser extent Brazil, Mexico, the United Kingdom and Japan have "deregulated" their airlines. In the past, these governments dictated airfares, route networks, and other operational requirements for each airline. Since deregulation, airlines have been largely free to negotiate their own operating arrange ments with different airports, enter and exit routes easily, and to levy airfares and supply flights according to market demand. The entry barriers for new airlines are lower in a deregulated market, and so the U.S. has seen hundreds of airlines start up (sometimes for only a brief operating period). This has produced far greater competition than before deregulation in most markets, and average fares tend to drop 20% or more. The added competition, together with pricing freedom, means that new entrants often take market share with highly reduced rates that, to a limited degree, full service airlines must match. This is a major constraint on profitability for established carriers, which tend to have a higher cost base. As a result, profitability in a deregulated market is uneven for most airlines. These forces have caused some major airlines to go out of business, in addition to most of the poorly established new entrants.” [↑](#endnote-ref-254)
255. <http://en.wikipedia.org/wiki/Nationalization_of_oil_supplies>

     “According to consulting firm PFC Energy, only 7% of the world's estimated oil and gas reserves are in countries that allow private international companies free rein. Fully 65% are in the hands of state-owned companies such as Saudi Aramco, with the rest in countries such as Russia and Venezuela, where access by Western companies is difficult. The PFC study implies political factors are limiting capacity increases in Mexico, Venezuela, Iran, Iraq, Kuwait and Russia.” [↑](#endnote-ref-255)
256. <http://www.boston.com/business/articles/2009/02/05/markopolos_secs_regional_turf_tiffs_hampered_case/> [↑](#endnote-ref-256)
257. <http://trains4america.wordpress.com/2009/02/25/why-virgin-trains-shouldnt-be-eyeing-our-rails-just-yet-even-though-they-are/> [↑](#endnote-ref-257)
258. <http://www.uow.edu.au/~sharonb/theives.html> [↑](#endnote-ref-258)
259. <http://en.wikipedia.org/wiki/Saudi_Aramco>

     “In 1950, King Abdul Aziz Ibn Saud threatened to nationalize his country's oil facilities, thus pressuring Aramco to agree to share profits 50/50. A similar process had taken place with American oil companies in Venezuela a few years earlier. The American government granted US Aramco member companies a tax break known as the golden gimmick equivalent to the profits given to Ibn Saud. In the wake of the new arrange ment, the company's headquarters was moved from New York to Dhahran.” [↑](#endnote-ref-259)
260. <http://en.wikipedia.org/wiki/Hugo_Ch%C3%A1vez>

     “Venezuela is a major producer of oil products, which remains the keystone of the Venezuelan economy. Chávez has gained a reputation as a price hawk in OPEC, pushing for stringent enforcement of production quotas and higher target oil prices. According to Rodríguez, the firing of 17,000 PDVSA employees and the "takeover of PDVSA by Chávez loyalists and the subordination of the firm's decisions to the government's political imperatives have resulted in a dramatic decline in Venezuela's oil-production capacity".[39] Rodríguez says "Venezuela's largest oil boom since the 1970s" was squandered, with PDVSA constrained by the costs of "political patronage" and the "loss of technical capacity".[39]…

     A 2006 Foreign Affairs article concurs that minimal gains have occurred despite the oil boom, and says that the government "just changed its methodology for measuring poverty", which rose "from 43 to 54 percent during Chávez's first four years in office" according to government statistics.[53] Barry Cannon attributes this decline to the oil strike in 2002: "The situation changed dramatically [...] once the oil strike was defeated. The Center for Economic Policy Research[vague][Need quotation to verify] (CEPR) shows that the Venezuelan economy grew on average by 11.85% in the period 2004-2007".[75] Some economists argue that job creation may not be permanent, for it relies on an expanded public payroll that will become unaffordable if oil prices fall.[76] Critics also question the government's reported poverty figures, based on contradictory statistics and definitions,[53] which they say have not fallen enough considering the country's vast oil revenues in the last two years.[76] The Economist reports that both poverty and unemployment figures under Chávez have not seen significant improvement and that official corruption under his government is rampant,[77] and point to the 1–2% drop in Venezuela's per-capita GDP early in Chávez's term, before the 2004 surge in oil prices.[78]” [↑](#endnote-ref-260)
261. <http://www.networkworld.com/news/2009/011709-europe-charges-microsoft-with-abuse.html> [↑](#endnote-ref-261)
262. <http://en.wikipedia.org/wiki/Blackwater_Worldwide>

     “Xe is currently the largest of the U.S. State Department's three private security contractors. Of the 987 contractors Xe provides, 744 are U.S. citizens.[9][10] At least 90% of the company's revenue comes from government contracts, of which two-thirds are no-bid contracts.[11] Xe provided security services in Iraq to the United States federal government, particularly the Central Intelligence Agency[1] on a contractual basis. They no longer have a license to operate in Iraq: the new Iraqi government made multiple attempts to expel them from their country,[12] and denied their application for an operating license in January 2009.[13] However, the company is still under contract with the State Department and some Xe personnel were working legally in Iraq at least until September 2009.[14]” [↑](#endnote-ref-262)
263. <http://en.wikipedia.org/wiki/Halliburton>

     “The company has become the object of several controversies involving the 2003 Iraq War and the company's ties to Former U.S. Vice President Dick Cheney. Cheney retired from the company during the 2000 U.S. presidential election campaign with a severance package worth $36 million.[40] As of 2004, he had received $398,548 in deferred compensation from Halliburton while Vice President.[41] Cheney was chairman and CEO of Halliburton Company from 1995 to 2000 and has received stock options from Halliburton.[42] Bunnatine Greenhouse, a civil servant with 20 years of contracting experience, had complained to Army officials on numerous occasions that Halliburton had been unlawfully receiving special treatment for work in Iraq, Kuwait and the Balkans. Criminal investigations were opened by the U.S. Justice Department, the Federal Bureau of Investigation (FBI) and the Pentagon's inspector general. In one of Greenhouse's supposed examples of abuse, he said that military auditors caught Halliburton overcharging the Pentagon for fuel deliveries into Iraq. She also complained that Defense Secretary Donald Rumsfeld's office took control of every aspect of Halliburton's $7 billion Iraqi oil/infrastructure contract. After her testimony, Greenhouse was demoted for poor performance.[43] Greenhouse's attorney, Michael Kohn, stated in the New York Times that "she is being demoted because of her strict adherence to procurement requirements and the Army's preference to sidestep them when it suits their needs.[44]” [↑](#endnote-ref-263)
264. <http://www.cato.org/pubs/briefs/bp-023.html> [↑](#endnote-ref-264)
265. <http://www.afscme.org/publications/2546.cfm> [↑](#endnote-ref-265)
266. <http://en.wikipedia.org/wiki/Faith-based_foreign_aid>

     “Critics question the mingling of economic, health, or other types of aid with the motivation of religious development groups, nearly all of which are Christian, often seeking conversions and threatening indigenous beliefs and cultural practices. Defenders credit Christian development and missionary groups for reaching people like no other groups can, due to historical networks, such as Africa's churches, and providing top quality services, often in health and education. Some, however, consider faith-based foreign aid to be a modern-day extension of religious colonialism, with morality often dangerously mixed with critical development concerns, especially global health education, prevention and treatment of infectious diseases, economic security and other issues.” [↑](#endnote-ref-266)
267. <http://en.wikipedia.org/wiki/Authoritarianism>

     “# Highly concentrated and centralized power structures" in which political power is generated and maintained by a "repressive system that excludes potential challengers" and uses political parties and mass organizations to "mobilize people around the goals of the government";[3] # The following principles[3]: 1. rule of men, not rule of law 2. rigged elections 3. all important political decisions made by unelected officials behind closed doors 4. a bureaucracy operated quite independently of rules, the supervision of elected officials, or concerns of the constituencies they purportedly serve 5. the informal and unregulated exercise of political power . [↑](#endnote-ref-267)
268. <http://www.amazon.com/Gang-Leader-Day-Sociologist-Streets/dp/1594201501> [↑](#endnote-ref-268)
269. <http://en.wikipedia.org/wiki/Microcredit>

     “Because field officers are in a position of power locally and are judged on repayment rates as the primary metric of their success, they sometimes use coercive and even violent tactics to collect installments on the microcredit loans. Some loan recipients sink into a cycle of debt, using a microcredit loan from one organization to meet interest obligations from another.[1] Also, counter to the original intention of the microcredit system to empower women, one of the effects of an infusion of cash into local economies has been to increase dowries, with women forced at times to take microcredit loans as the only means to pay these increased dowries for their daughters.[1] Bangladesh's former Finance and Planning Minister M. Saifur Rahman charges that some microfinance institutions use excessive interest rates.[20]” [↑](#endnote-ref-269)
270. <http://www.amnesta.net/other/monopoly/index2.html> [↑](#endnote-ref-270)
271. <http://macro-man.blogspot.com/2007/08/title-of-this-post-has-already-been.html> [↑](#endnote-ref-271)
272. <http://zerohedge.blogspot.com/2009/04/incredibly-shrinking-market-liquidity.html> [↑](#endnote-ref-272)
273. <http://www.wired.com/epicenter/2008/10/market-free-fal/> [↑](#endnote-ref-273)
274. <http://www.businessspectator.com.au/bs.nsf/Article/Gluskin-Sheff-Rosenberg-US-housing-obama-defaults--pd20100706-73SZJ?OpenDocument&src=rot> [↑](#endnote-ref-274)
275. <http://en.wikipedia.org/wiki/Bankruptcy_of_Lehman_Brothers#Controversy_of_executive_pay_during_crisis>

     “Richard Fuld, head of Lehman Brothers, faced questioning from the U.S. House of Representatives' Committee on Oversight and Government Reform. Rep. Henry Waxman (D-CA) asked: "Your company is now bankrupt, our economy is in crisis, but you get to keep $480 million (£276 million). I have a very basic question for you, is this fair?"[47] Fuld said that he had in fact taken about $300 million (£173 million) in pay and bonuses over the past eight years.[47] Despite Fuld's defense on his high pay, Lehman Brothers executive pay was reported to have increased significantly before filing for bankruptcy.[48] On October 17, 2008, CNBC reported that several Lehman executives, including Richard Fuld, have been subpoenaed in a case relating to securities fraud.” [↑](#endnote-ref-275)
276. <http://www.huffingtonpost.com/2008/05/23/general-motors-strike-wil_n_103342.html> [↑](#endnote-ref-276)
277. <http://en.wikipedia.org/wiki/United_States_housing_market_correction>

     “Homebuilder Kara Homes announced on 13 September 2006 the "two most profitable quarters in the history of our company", yet filed for bankruptcy protection less than one month later on 6 October.[28] Six months later on 10 April 2007, Kara Homes sold unfinished developments, causing prospective buyers from the previous year to lose deposits, some of whom put down more than $100,000.[29]” [↑](#endnote-ref-277)
278. <http://en.wikipedia.org/wiki/The_Great_Moderation>

     “In the mid 1980s major economic variables such as GDP, industrial production, monthly payroll employment and the unemployment rate began a decline in volatility.[[2]](http://en.wikipedia.org/wiki/The_Great_Moderation#cite_note-1) One research group viewed the causes of the moderation to be "improved policy, identifiable good luck in the form of productivity and commodity price shocks, and other unknown forms of good luck."[[3]](http://en.wikipedia.org/wiki/The_Great_Moderation#cite_note-2) The greater predictability in economic and financial performance had caused firms to hold less capital and to be less concerned about liquidity positions.[[4]](http://en.wikipedia.org/wiki/The_Great_Moderation#cite_note-3) This, in turn, is thought to have been a factor in encouraging increased debt levels and a reduction in risk premia required by investors. An example of the confidence of the economic profession in this period given by [Robert Lucas](http://en.wikipedia.org/wiki/Robert_Lucas,_Jr.), in his 2003 presidential address to the [American Economic Association](http://en.wikipedia.org/wiki/American_Economic_Association), where he declared that the "central problem of depression-prevention [has] been solved, for all practical purposes." [↑](#endnote-ref-278)
279. <http://www.megaessays.com/viewpaper/10830.html> [↑](#endnote-ref-279)
280. <http://en.wikipedia.org/wiki/Medell%C3%ADn_Cartel>

     “The violence carried out in the name of the Cartel directly led to it being targeted, by not only its competition (the Cali Cartel), but also by the "darker influences" which had allowed it to flourish in the first place. Corrupt government and military officials who had once been on the Cartel's payroll were influenced (from inside and outside Colombia) towards support of the [Cali Cartel](http://en.wikipedia.org/wiki/Cali_Cartel)'s rise and the Medellin's fall beginning in the late 1980s and culminating with the killing of Pablo Escobar in 1993. Many members of the Cartel, including Escobar, were hunted and killed by the [Colombia National Police](http://en.wikipedia.org/wiki/Colombia_National_Police). This force was trained and assisted by both the United States [Delta Force](http://en.wikipedia.org/wiki/Delta_Force) as well as the [CIA](http://en.wikipedia.org/wiki/CIA).” [↑](#endnote-ref-280)
281. <http://en.wikipedia.org/wiki/Trade_unions>

     “A **trade union** ([British English](http://en.wikipedia.org/wiki/British_English)) or **labor union** ([American English](http://en.wikipedia.org/wiki/American_English)) is an organization of workers that have banded together to achieve common goals such as better [working conditions](http://en.wikipedia.org/wiki/Working_conditions). The trade union, through its leadership, bargains with the employer on behalf of union members (rank and file[[1]](http://en.wikipedia.org/wiki/Trade_unions" \l "cite_note-0) members) and negotiates [labour contracts](http://en.wikipedia.org/wiki/Labour_and_employment_law) ([collective bargaining](http://en.wikipedia.org/wiki/Collective_bargaining)) with employers. This may include the negotiation of [wages](http://en.wikipedia.org/wiki/Wage), work rules, complaint procedures, rules governing hiring, firing and promotion of workers, benefits, workplace safety and policies. The agreements negotiated by the union leaders are binding on the rank and file members and the employer and in some cases on other non-member workers.

     Originating in [Europe](http://en.wikipedia.org/wiki/Europe), trade unions became popular in many countries during the [Industrial Revolution](http://en.wikipedia.org/wiki/Industrial_Revolution), when the lack of skill necessary to perform most jobs shifted employment [bargaining power](http://en.wikipedia.org/wiki/Bargaining_power) almost completely to the employers' side, causing many workers to be mistreated and underpaid. Trade union organisations may be composed of individual [workers](http://en.wikipedia.org/wiki/Workers), [professionals](http://en.wikipedia.org/wiki/Professionals), [past workers](http://en.wikipedia.org/wiki/Retiree), or the [unemployed](http://en.wikipedia.org/wiki/Unemployed). The most common, but by no means only, purpose of these organisations is "maintaining or improving the conditions of their [employment](http://en.wikipedia.org/wiki/Employment)".[[2]](http://en.wikipedia.org/wiki/Trade_unions#cite_note-webb-1) [↑](#endnote-ref-281)
282. <http://www.bloomberg.com/apps/news?pid=newsarchive&sid=aGr2XN9gsX4w> [↑](#endnote-ref-282)
283. <http://www.criticism.com/policy/republicans-minimum-wage-policy.php> [↑](#endnote-ref-283)
284. <http://en.wikipedia.org/wiki/Electoral_fraud>

     “In national elections, successful electoral fraud can have the effect of a coup d'état or corruption of democracy. In a narrow election a small amount of fraud may be enough to change the result. If the result is not affected, fraud can still have a damaging effect if not punished, as it can reduce voters' confidence in democracy. Even the perception of fraud can be damaging as it makes people less inclined to accept election results. This can lead to the breakdown of democracy and the establishment of a dictatorship. Electoral fraud is not limited to political polls and can happen in any election where the potential gain is worth the risk for the cheater; as in elections for labor union officials, student councils, sports judging, and the awarding of merit to books, films, music or television programmes.” [↑](#endnote-ref-284)
285. <http://news.bbc.co.uk/2/hi/africa/8460964.stm> [↑](#endnote-ref-285)
286. <http://en.wikipedia.org/wiki/Trade_union>

     “Originating in [Europe](http://en.wikipedia.org/wiki/Europe), trade unions became popular in many countries during the [Industrial Revolution](http://en.wikipedia.org/wiki/Industrial_Revolution), when the lack of skill necessary to perform most jobs shifted employment [bargaining power](http://en.wikipedia.org/wiki/Bargaining_power) almost completely to the employers' side, causing many workers to be mistreated and underpaid.” [↑](#endnote-ref-286)
287. <http://www.slate.com/id/2129292> [↑](#endnote-ref-287)
288. <http://law.jrank.org/pages/568/Blackmail-Extortion-Modern-federal-statutes.html> [↑](#endnote-ref-288)
289. <http://wapedia.mobi/en/Communist_Party_of_Great_Britain> [↑](#endnote-ref-289)
290. <http://en.wikipedia.org/wiki/Crony_capitalism>

     “In its lightest form, crony capitalism consists of [collusion](http://en.wikipedia.org/wiki/Collusion) among market players. While perhaps lightly competing against each other, they will present a unified front to the government in requesting subsidies or aid (sometimes called a trade association or [industry trade group](http://en.wikipedia.org/wiki/Industry_trade_group)). Newcomers to a market may find it difficult to find loans or acquire shelf space to sell their product; in technological fields, they may be accused of infringing on [patents](http://en.wikipedia.org/wiki/Patent) that the established competitors never invoke against each other. Distribution networks will refuse to aid the entrant. That said, there will still be competitors who "crack" the system when the legal barriers are light, especially where the old guard has become inefficient and is failing to meet the needs of the market. Of course, some of these upstarts may then join with the established networks to help deter any other new competitors. Examples of this have been argued to include the [*keiretsu*](http://en.wikipedia.org/wiki/Keiretsu) of post-war Japan, the [*chaebol*](http://en.wikipedia.org/wiki/Chaebol) of South Korea, and the powerful families who control much of the investment in [Latin America](http://en.wikipedia.org/wiki/Latin_America).” [↑](#endnote-ref-290)
291. [http://en.wikipedia.org/wiki/Bush\_Derange ment\_Syndrome](http://en.wikipedia.org/wiki/Bush_Derangement_Syndrome)

     “Krauthammer defined Bush Derange ment Syndrome as "the acute onset of paranoia in otherwise normal people in reaction to the policies, the presidency — nay — the very existence of George W. Bush".[[1]](http://en.wikipedia.org/wiki/Bush_Derangement_Syndrome#cite_note-CK2003-0)[[2]](http://en.wikipedia.org/wiki/Bush_Derangement_Syndrome#cite_note-mosely07-1) While Krauthammer's column was somewhat [tongue-in-cheek](http://en.wikipedia.org/wiki/Tongue-in-cheek) (e.g., "What is worrying epidemiologists about the [Dean](http://en.wikipedia.org/wiki/Howard_Dean) incident, however, is that heretofore no case had been reported in Vermont, or any other dairy state"), the term indicates a belief that some extreme [criticisms of President Bush](http://en.wikipedia.org/wiki/Public_image_of_George_W._Bush) are of emotional origins rather than based on facts or logic. The term has been widely adopted by other writers in the political arena.[[3]](http://en.wikipedia.org/wiki/Bush_Derangement_Syndrome#cite_note-mosely-2)[[4]](http://en.wikipedia.org/wiki/Bush_Derangement_Syndrome#cite_note-gibson-3)[[5]](http://en.wikipedia.org/wiki/Bush_Derangement_Syndrome#cite_note-fisa-4)” [↑](#endnote-ref-291)
292. Debt in Britain from nationalizing and making losses [↑](#endnote-ref-292)
293. <http://en.wikipedia.org/wiki/Subprime_mortgage_crisis>

     “The crisis can be attributed to a number of factors pervasive in both housing and credit markets, factors which emerged over a number of years. Causes proposed include the inability of homeowners to make their mortgage payments, due primarily to adjustable-rate mortgages resetting, borrowers overextending, predatory lending, speculation and overbuilding during the boom period, risky mortgage products, high personal and corporate debt levels, financial products that distributed and perhaps concealed the risk of mortgage default, monetary policy, international trade imbalances, and government regulation (or the lack thereof).[[33]](http://en.wikipedia.org/wiki/Subprime_mortgage_crisis#cite_note-32)[[34]](http://en.wikipedia.org/wiki/Subprime_mortgage_crisis#cite_note-33)[[35]](http://en.wikipedia.org/wiki/Subprime_mortgage_crisis#cite_note-34) Three important catalysts of the subprime crisis were the influx of moneys from the private sector, the banks entering into the mortgage bond market and the predatory lending practices of the mortgage lenders, specifically the adjustable-rate mortgage, 2-28 loan, that Mortgage Lenders sold directly or indirectly via Mortgage Brokers.[[1]](http://en.wikipedia.org/wiki/Subprime_mortgage_crisis#cite_note-DODD-0)[[36]](http://en.wikipedia.org/wiki/Subprime_mortgage_crisis#cite_note-The_downturn_in_facts_and_figures-35) On Wall Street and in the financial industry, [moral hazard](http://en.wikipedia.org/wiki/Moral_hazard) lay at the core of many of the causes.[[37]](http://en.wikipedia.org/wiki/Subprime_mortgage_crisis#cite_note-brown1-36)In its "Declaration of the Summit on Financial Markets and the World Economy," dated 15 November 2008, leaders of the [Group of 20](http://en.wikipedia.org/wiki/G20_major_economies) cited the following causes: During a period of strong global growth, growing capital flows, and prolonged stability earlier this decade, market participants sought higher yields without an adequate appreciation of the risks and failed to exercise proper due diligence. At the same time, weak underwriting standards, unsound risk management practices, increasingly complex and opaque financial products, and consequent excessive leverage combined to create vulnerabilities in the system. Policy-makers, regulators and supervisors, in some advanced countries, did not adequately appreciate and address the risks building up in financial markets, keep pace with financial innovation, or take into account the systemic ramifications of domestic regulatory actions.[[38]](http://en.wikipedia.org/wiki/Subprime_mortgage_crisis#cite_note-37)” [↑](#endnote-ref-293)
294. <http://www.asianewsnet.net/news.php?id=9759&sec=3> [↑](#endnote-ref-294)
295. <http://books.google.com.au/books?id=Q58pnx2yx10C&printsec=frontcover&dq=mafia+unions&source=bl&ots=yp2VZrP1lu&sig=7cwiTYtyhaQpGR-fzfh_2xf4zus&hl=en&ei=8LY2TPa5KcGOkQXhmOXGAw&sa=X&oi=book_result&ct=result&resnum=8&ved=0CDsQ6AEwBw#v=onepage&q&f=false> [↑](#endnote-ref-295)
296. <http://books.google.com.au/books?id=LeJQPwAACAAJ&dq=gang+leader+for+a+day&hl=en&ei=bbo2TKHfMNGLkAXHl6i1Aw&sa=X&oi=book_result&ct=result&resnum=1&ved=0CCsQ6AEwAA> [↑](#endnote-ref-296)
297. <http://en.wikipedia.org/wiki/Victimless_crime>

     “A **victimless crime** is an infraction of [criminal law](http://en.wikipedia.org/wiki/Criminal_law) without any identifiable evidence of an [individual](http://en.wikipedia.org/wiki/Individual) that has suffered [damage](http://en.wikipedia.org/wiki/Damage) in the infraction. Typical examples include traffic citations and violations of laws concerning public [decency](http://en.wikipedia.org/wiki/Decency), and include [public drunkenness](http://en.wikipedia.org/wiki/Public_intoxication), illicit [drug use](http://en.wikipedia.org/wiki/Recreational_drug_use), [vagrancy](http://en.wikipedia.org/wiki/Vagrancy_%28people%29), speeding and [public nudity](http://en.wikipedia.org/wiki/Public_nudity).[[1]](http://en.wikipedia.org/wiki/Victimless_crime#cite_note-0) These laws (concerning public [decency](http://en.wikipedia.org/wiki/Decency)) are based on the [Offence principle](http://en.wikipedia.org/wiki/Offence_principle), as opposed to laws based on the [Harm principle](http://en.wikipedia.org/wiki/Harm_principle). The term is not used in [jurisprudence](http://en.wikipedia.org/wiki/Jurisprudence). It is rather a [political](http://en.wikipedia.org/wiki/Politics) term, used by lobbyists with the implication that the law in question should be abolished. In a [constitutional state](http://en.wikipedia.org/wiki/Constitutional_state), the [legislature](http://en.wikipedia.org/wiki/Legislature), a body in turn elected by the [sovereign](http://en.wikipedia.org/wiki/Sovereign), defines [criminal law](http://en.wikipedia.org/wiki/Criminal_law). A [crime](http://en.wikipedia.org/wiki/Crime) (as opposed to a [civil wrong](http://en.wikipedia.org/wiki/Civil_wrong) or [*tort*](http://en.wikipedia.org/wiki/Tort)) is an infraction of a law, and will not always have an identifiable individual or group of individuals as its [victims](http://en.wiktionary.org/wiki/victim), but may also, for example, consist of the preparations that did not result in any damage ([*mens rea*](http://en.wikipedia.org/wiki/Mens_rea) in the absence of [*actus reus*](http://en.wikipedia.org/wiki/Actus_reus)), such as [attempted murder](http://en.wikipedia.org/wiki/Attempted_murder), offenses against [legal persons](http://en.wikipedia.org/wiki/Legal_person) as opposed to individuals or [natural persons](http://en.wikipedia.org/wiki/Natural_person), or directed against communal goods such as [social order](http://en.wikipedia.org/wiki/Social_order) or a [social contract](http://en.wikipedia.org/wiki/Social_contract) or the [state](http://en.wikipedia.org/wiki/Sovereign_state) itself, as in [tax avoidance and tax evasion](http://en.wikipedia.org/wiki/Tax_avoidance_and_tax_evasion), [treason](http://en.wikipedia.org/wiki/Treason), or, in non-[secular](http://en.wikipedia.org/wiki/Secular) systems, the supernatural (infractions of [religious law](http://en.wikipedia.org/wiki/Religious_law)).” [↑](#endnote-ref-297)
298. Gang Leader for a Day book, police raiding the gang and stealing from them. [↑](#endnote-ref-298)
299. <http://www.amazon.com/Liars-Poker-Rising-Through-Wreckage/dp/0140143459> [↑](#endnote-ref-299)
300. <http://www.jewishvirtuallibrary.org/jsource/Holocaust/Ravensbruck.html> [↑](#endnote-ref-300)
301. <http://www.ktla.com/news/landing/ktla-montecito-heights-gang-crossfire,0,3381970.story> [↑](#endnote-ref-301)
302. <http://en.wikipedia.org/wiki/Jack_the_Ripper>

     “In the mid-19th century, England experienced an influx of [Irish immigrants](http://en.wikipedia.org/wiki/Irish_diaspora), who swelled the populations of England's major cities, including the [East End of London](http://en.wikipedia.org/wiki/East_End_of_London). From 1882, Jewish refugees from eastern Europe and [Tsarist Russia](http://en.wikipedia.org/wiki/Tsarist_Russia) moved into the same area.[[1]](http://en.wikipedia.org/wiki/Jack_the_Ripper#cite_note-0) The [civil parish](http://en.wikipedia.org/wiki/Civil_parish) of [Whitechapel](http://en.wikipedia.org/wiki/Whitechapel) in London's East End became increasingly overcrowded. Work and housing conditions worsened, and a significant economic underclass developed.[[2]](http://en.wikipedia.org/wiki/Jack_the_Ripper#cite_note-1) Robbery, violence and alcohol dependency were commonplace, and the endemic poverty drove many women to prostitution. In October 1888, London's [Metropolitan Police Service](http://en.wikipedia.org/wiki/Metropolitan_Police_Service) estimated that there were 1200 prostitutes and about 62 brothels in Whitechapel.[[3]](http://en.wikipedia.org/wiki/Jack_the_Ripper#cite_note-2) The economic problems were accompanied by a steady rise in social tensions. Between 1886 and 1889, frequent demonstrations, [such as that of 13 November 1887](http://en.wikipedia.org/wiki/Bloody_Sunday_%281887%29), led to police intervention and further public unrest.[[4]](http://en.wikipedia.org/wiki/Jack_the_Ripper#cite_note-3) Racism, crime, social disturbance, and real deprivation fed public perceptions that Whitechapel was a notorious den of immorality.[[5]](http://en.wikipedia.org/wiki/Jack_the_Ripper#cite_note-4)” [↑](#endnote-ref-302)
303. <http://en.wikipedia.org/wiki/Crack_epidemic_%28United_States%29>

     “[San Jose Mercury News](http://en.wikipedia.org/wiki/San_Jose_Mercury_News) journalist [Gary Webb](http://en.wikipedia.org/wiki/Gary_Webb) sparked national controversy with his 1996 [Dark Alliance](http://en.wikipedia.org/wiki/Dark_Alliance) series which alleged that the influx of Nicaraguan cocaine started and significantly fueled the 1980s crack epidemic. Investigating the lives and connections of Los Angeles crack dealers [Ricky Ross](http://en.wikipedia.org/wiki/Ricky_Ross_%28drug_trafficker%29), [Oscar Danilo Blandon](http://en.wikipedia.org/wiki/Oscar_Danilo_Blandon), and [Norwin Meneses](http://en.wikipedia.org/w/index.php?title=Norwin_Meneses&action=edit&redlink=1), Webb alleged that profits from these crack sales were funneled to the CIA-supported Contras.[[8]](http://en.wikipedia.org/wiki/Crack_epidemic_%28United_States%29#cite_note-crackcia-7) Although Webb never claimed that the CIA directly aided drug dealers, it echoed the Kerry Committee conclusion that the CIA was aware of large shipments of cocaine into the U.S. by Contra personnel.[[8]](http://en.wikipedia.org/wiki/Crack_epidemic_%28United_States%29#cite_note-crackcia-7)

     …

     The crack epidemic is correlated with a sharp increase in crime, especially violent crime. Research by two prominent economists from the [University of Chicago](http://en.wikipedia.org/wiki/University_of_Chicago), [Steven Levitt](http://en.wikipedia.org/wiki/Steven_Levitt) (co-author of [*Freakonomics*](http://en.wikipedia.org/wiki/Freakonomics) and winner of the 2003 [John Bates Clark Medal](http://en.wikipedia.org/wiki/John_Bates_Clark_Medal)) and [Kevin Murphy](http://en.wikipedia.org/wiki/Kevin_M._Murphy) (winner of the 1997 [John Bates Clark Medal](http://en.wikipedia.org/wiki/John_Bates_Clark_Medal)) suggest that crack was the most prominent factor contributing to the rise and fall of social ills in the [African American](http://en.wikipedia.org/wiki/African_American) and [Latino](http://en.wikipedia.org/wiki/Latino) communities between 1980 and 2000.

     Between 1984 and 1994, the homicide rate for black males aged 14 to 17 more than doubled, and the homicide rate for black males aged 18 to 24 increased nearly as much. During this period, the black community also experienced an increase in fetal death rates, low birth-weight babies, weapons arrests, and the number of children in foster care.[[16]](http://en.wikipedia.org/wiki/Crack_epidemic_%28United_States%29#cite_note-CapitalIdeas-15)

     The reasons for these increases in crime was due mostly to the fact that distribution for the drug occurred mainly in low-income [inner city](http://en.wikipedia.org/wiki/Inner_city) neighborhoods. This gave many inner city residents the opportunity to move up the "economic ladder" in a drug market that allowed dealers to charge a low minimum price. The basic reason for the rise of crack was economic.[[17]](http://en.wikipedia.org/wiki/Crack_epidemic_%28United_States%29#cite_note-Rise-16)

     Evidently, crack cocaine use and distribution became popular in cities that were in social and economic chaos such as Los Angeles and [Atlanta](http://en.wikipedia.org/wiki/Atlanta). 'As a result of the low-skill levels and minimal initial resource outlay required to sell crack, systemic violence flourished as a growing army of young, enthusiastic inner-city crack sellers attempt to defend their economic investment.' (Inciardi, 1994) Once the drug became embedded in the particular communities, the economic environment that was best suited for its survival caused further social disintegration within that city. An environment that was based on violence and deceit as an avenue for the crack dealers to protect their economic interests.[[17]](http://en.wikipedia.org/wiki/Crack_epidemic_%28United_States%29" \l "cite_note-Rise-16)” [↑](#endnote-ref-303)
304. <http://en.wikipedia.org/wiki/Social_mobility>

     “In [sociology](http://en.wikipedia.org/wiki/Sociology) and [economics](http://en.wikipedia.org/wiki/Economics), as well as in common political discourse, **social mobility** refers to the degree to which an individual or group's status is able to change in terms of position in the [social hierarchy](http://en.wikipedia.org/wiki/Social_hierarchy). To this extent it most commonly refers to material wealth and the ability of an [agent](http://en.wikipedia.org/wiki/Structure_and_agency) to move up the class system. Such a change may be described as "vertical mobility," by contrast with a more general change in position ("horizontal mobility").[[1]](http://en.wikipedia.org/wiki/Social_mobility#cite_note-0) Mobility is enabled in part by [cultural capital](http://en.wikipedia.org/wiki/Cultural_capital) (such as higher education or an authoritative accent), [human capital](http://en.wikipedia.org/wiki/Human_capital) (such as competence and effort in labour), [social capital](http://en.wikipedia.org/wiki/Social_capital) (such as support from one's [social network](http://en.wikipedia.org/wiki/Social_network)), [physical capital](http://en.wikipedia.org/wiki/Physical_capital) (such as ownership of tools), and [symbolic capital](http://en.wikipedia.org/wiki/Symbolic_capital) (such as the worth of an official title). Many of these factors, however, ultimately remain intertwined with economic capital. [Policy](http://en.wikipedia.org/wiki/Policy) issues, such as [welfare](http://en.wikipedia.org/wiki/Welfare) or the existence of [public transport](http://en.wikipedia.org/wiki/Public_transport), may exercise significant influence. [Geographical](http://en.wikipedia.org/wiki/Geographical) factors may also be of importance. The extent to which a nation is open and [meritocratic](http://en.wikipedia.org/wiki/Meritocratic) is of fundamental significance: a society in which traditional or religious [caste](http://en.wikipedia.org/wiki/Caste) systems dominate is unlikely to present the opportunity for social mobility.” [↑](#endnote-ref-304)
305. <http://en.wikipedia.org/wiki/Gangs_in_the_United_Kingdom>

     “There is a modern history of London gangs dating from the 1970s although many of them developed from what Britain labelled as a sub-culture, which included [punks](http://en.wikipedia.org/wiki/Punk_subculture), Rastas and football hooligans. Two well known subcultures that had violent clashes during the [Notting Hill riots](http://en.wikipedia.org/wiki/Notting_Hill_riots) in the 1950s, [Teddy Boys](http://en.wikipedia.org/wiki/Teddy_Boys) and [Rudeboys](http://en.wikipedia.org/wiki/Rudeboys), could well be labelled gangs in today's media. Amongst the current London gangs whose history does go back to the 1970s, there are the [Ghetto Boys](http://en.wikipedia.org/wiki/Ghetto_Boys), [Peckham Boys](http://en.wikipedia.org/wiki/Peckham_Boys) and [Tottenham Mandem](http://en.wikipedia.org/wiki/Tottenham_Mandem) all of which are predominantly or entirely black. There are a number of historical Asian gangs in London too, many that were initially formed to protect their local communities in response to racist attacks from the indigenous white population, gangs such as the [Brick Lane Massive](http://en.wikipedia.org/w/index.php?title=Brick_Lane_Massive&action=edit&redlink=1). In the [London Borough of Tower Hamlets](http://en.wikipedia.org/wiki/London_Borough_of_Tower_Hamlets), the majority of the gangs are [Bangladeshi](http://en.wikipedia.org/wiki/British_Bangladeshi), it is estimated that there are alone there are 2,500 Bengali youths affiliated to one of the many local gangs,[[42]](http://en.wikipedia.org/wiki/Gangs_in_the_United_Kingdom#cite_note-gangtruce-41) and that 26 out of the 27 gangs in the area are Bangladeshi.[[43]](http://en.wikipedia.org/wiki/Gangs_in_the_United_Kingdom#cite_note-blood-42)London gangs are increasingly marking their territory with [gang graffiti](http://en.wikipedia.org/wiki/Graffiti), usually a gang name and the [Post Code](http://en.wikipedia.org/wiki/Post_Code) area or [Housing Estate](http://en.wikipedia.org/w/index.php?title=Housing_Estate&action=edit&redlink=1) they identify with[[9]](http://en.wikipedia.org/wiki/Gangs_in_the_United_Kingdom#cite_note-London_Gang_Graffiti-8). In some cases they may tag the street road signs in their area with an identified gang colour, as can be seen in [Edmonton](http://en.wikipedia.org/wiki/Edmonton,_London)[[44]](http://en.wikipedia.org/wiki/Gangs_in_the_United_Kingdom#cite_note-43). This is not a new phenomenon and has been practised by many London gangs in the past although today it is a more integral part of the gang culture. Many gangs have a strong sense of belonging to their local areas and often take their names from the housing estates, districts and postal code areas where they are located. In some areas the post codes act as rival gang boundaries[[45]](http://en.wikipedia.org/wiki/Gangs_in_the_United_Kingdom" \l "cite_note-44), although this is not a general rule as there can be rival gangs present within the same postal area as well as gangs that occupy multiple postal areas. Gangs in London also use [handsigns](http://en.wikipedia.org/wiki/Gang_Signals) and [gang tattoo's](http://en.wikipedia.org/wiki/Criminal_tattoo) to denote gang membership.” [↑](#endnote-ref-305)
306. <http://en.wikipedia.org/wiki/Price/wage_spiral>

     “In [macroeconomics](http://en.wikipedia.org/wiki/Macroeconomics), the **price/wage spiral** (also called the **wage/price spiral**) represents a [vicious circle](http://en.wikipedia.org/wiki/Virtuous_circle_and_vicious_circle) process in which different sides of the wage bargain try to keep up with inflation to protect real incomes. Thus, this process is one possible result of [inflation](http://en.wikipedia.org/wiki/Inflation). It can start either due to high [aggregate demand](http://en.wikipedia.org/wiki/Aggregate_demand) combined with near full employment[[1]](http://en.wikipedia.org/wiki/Price/wage_spiral" \l "cite_note-0) or due to [supply shocks](http://en.wikipedia.org/wiki/Supply_shock), such as an oil price hike. There are two separate elements of this spiral that coexist and interact: Business owners raise prices to protect profit margins from rising costs, including nominal wage costs, and to keep the [real value](http://en.wikipedia.org/wiki/Real_vs._nominal_in_economics) of profit margins from falling. Wage-earners try to push their nominal after-tax wages upward to catch up with rising prices, to prevent [real wages](http://en.wikipedia.org/wiki/Real_vs._nominal_in_economics) from falling. To maintain purchasing power equal to the rising costs reflected by a [consumer price index](http://en.wikipedia.org/wiki/Consumer_price_index) (CPI), a taxable salary must increase faster than the CPI itself to result in an after-tax wage increase comparable to the increased cost of goods and services - unless tax brackets are indexed. So "wages chase prices and prices chase wages," persisting even in the face of a (mild) recession. This price/wage spiral interacts with [inflationary expectations](http://en.wikipedia.org/wiki/Adaptive_expectations) to produce long-lived inflationary process. Some argue that [incomes policies](http://en.wikipedia.org/wiki/Incomes_policies) or a severe [recession](http://en.wikipedia.org/wiki/Recession) is needed to stop the spiral. The first element of the price/wage spiral does not apply if markets are relatively [competitive](http://en.wikipedia.org/wiki/Perfect_competition). The spiral is also weakened if [labor productivity](http://en.wikipedia.org/wiki/Productivity) rises at a quick rate. Rising labor productivity (the amount workers produce per hour) compensates employers for higher wages costs while allowing employees to receive rising real wages, while allowing the company's margin to stay the same.” [↑](#endnote-ref-306)
307. <http://en.wikipedia.org/wiki/Bronx_gangs_%281950s-1960s%29>

     “Gangs of the Bronx included

     * the Fordham Baldies
     * the Ducky Boys Gang aka the Ducky Gang
     * the Fordham Flames
     * the Golden Guineas (a predominantly [Italian-American](http://en.wikipedia.org/wiki/Italian-American) gang)
     * the Villa Avenue Gang
     * the Bailey Gang
     * the Archer Boys
     * the Guinea Dukes

     There were two other Bronx gangs in the early fifties (holdover gangs that were active in 1949) The first of these two were the Fordham Aggies which were basically an Irish gang that emanated out of Decatur Avenue from Fordham Road to 194 St and hung out in Scotti's poolroom as well as in the H&H ice cream parlor. In fact there were two major gang fights between them and the Fordham Baldies. The Aggies won the first, the second was a stand off.” [↑](#endnote-ref-307)
308. <http://en.wikipedia.org/wiki/Second_Mafia_War>

     “The **Second Mafia War** was a conflict within the [Sicilian](http://en.wikipedia.org/wiki/Sicily) [Mafia](http://en.wikipedia.org/wiki/Mafia), mostly taking place in the early 1980s. As with any criminal organization, the history of the Sicilian Mafia is replete with conflicts and power struggles, and the violence that results from them, but these are generally localised and short term. However, the Second Mafia War, which is sometimes referred to as **The Great Mafia War** or the **Mattanza** (Italian for, **The Killing**), involved the entire Mafia and radically altered the power balance within the organization.

     Even more so than the [first one](http://en.wikipedia.org/wiki/First_Mafia_War), the Second Mafia War involved a staggering amount of violence, with upwards of a thousand [homicides](http://en.wikipedia.org/wiki/Homicides). The dates of the war are sometimes given as 1981 to 1983, but while the majority of the violence did occur during these years, the first shots had been fired in 1978, and the instigators and eventual victors had been preparing their strategy some years before. Similarly, the victors dragged the killing out until the end of the 1980s as they disposed of their allies.

     In addition to the violence within the Mafia itself, there was violence against the [state](http://en.wikipedia.org/wiki/Sovereign_state), including a campaign of deliberate [assassinations](http://en.wikipedia.org/wiki/Assassination) of authority figures, such as [judges](http://en.wikipedia.org/wiki/Judge), [prosecutors](http://en.wikipedia.org/wiki/Prosecutors) and [politicians](http://en.wikipedia.org/wiki/Politicians). In turn, the war resulted in a major crackdown against the Mafia, helped by the [*pentiti*](http://en.wikipedia.org/wiki/Pentiti), Mafiosi who collaborated with the authorities after losing so many friends and relatives in the Second Mafia War. In effect, the conflict helped blow the lid of secrecy on the Mafia.” [↑](#endnote-ref-308)
309. <http://en.wikipedia.org/wiki/Standard_Oil>

     “In 1909, the [US Department of Justice](http://en.wikipedia.org/wiki/US_Department_of_Justice) sued Standard under federal anti-trust law, the [Sherman Antitrust Act](http://en.wikipedia.org/wiki/Sherman_Antitrust_Act) of 1890, for sustaining a monopoly and restraining interstate commerce by:[[13]](http://en.wikipedia.org/wiki/Standard_Oil#cite_note-12)

     "Rebates, preferences, and other discriminatory practices in favor of the combination by railroad companies; restraint and monopolization by control of pipe lines, and unfair practices against competing pipe lines; contracts with competitors in restraint of trade; unfair methods of competition, such as local price cutting at the points where necessary to suppress competition; [and] espionage of the business of competitors, the operation of bogus independent companies, and payment of rebates on oil, with the like intent."

     The lawsuit argued that Standard's monopolistic practices took place in the last four years:[[14]](http://en.wikipedia.org/wiki/Standard_Oil#cite_note-13)

     "The general result of the investigation has been to disclose the existence of numerous and flagrant discriminations by the railroads in behalf of the Standard Oil Company and its affiliated corporations. With comparatively few exceptions, mainly of other large concerns in California, the Standard has been the sole beneficiary of such discriminations. In almost every section of the country that company has been found to enjoy some unfair advantages over its competitors, and some of these discriminations affect enormous areas."

     The government identified four illegal patterns: 1) secret and semi-secret railroad rates; (2) discriminations in the open arrange ment of rates; (3) discriminations in classification and rules of shipment; (4) discriminations in the treatment of private tank cars. The government alleged:[[15]](http://en.wikipedia.org/wiki/Standard_Oil#cite_note-14)

     "Almost everywhere the rates from the shipping points used exclusively, or almost exclusively, by the Standard are relatively lower than the rates from the shipping points of its competitors. Rates have been made low to let the Standard into markets, or they have been made high to keep its competitors out of markets. Trifling differences in distances are made an excuse for large differences in rates favorable to the Standard Oil Company, while large differences in distances are ignored where they are against the Standard. Sometimes connecting roads prorate on oil—that is, make through rates which are lower than the combination of local rates; sometimes they refuse to prorate; but in either case the result of their policy is to favor the Standard Oil Company. Different methods are used in different places and under different conditions, but the net result is that from Maine to California the general arrange ment of open rates on petroleum oil is such as to give the Standard an unreasonable advantage over its competitors.” [↑](#endnote-ref-309)
310. <http://en.wikipedia.org/wiki/Skull_and_Bones>

     “Among prominent deceased alumni were President [William Howard Taft](http://en.wikipedia.org/wiki/William_Howard_Taft), Supreme Court Justice [Potter Stewart](http://en.wikipedia.org/wiki/Potter_Stewart),[[45]](http://en.wikipedia.org/wiki/Skull_and_Bones#cite_note-barron-44) "mother of the [Central Intelligence Agency](http://en.wikipedia.org/wiki/Central_Intelligence_Agency)", and [United States Secretary of Defense](http://en.wikipedia.org/wiki/United_States_Secretary_of_Defense), [Robert A. Lovett](http://en.wikipedia.org/wiki/Robert_A._Lovett), who directed the Korean War. Some prominent living members are Senator [David L. Boren](http://en.wikipedia.org/wiki/David_L._Boren),[[14]](http://en.wikipedia.org/wiki/Skull_and_Bones#cite_note-hevesi-13), [Steve Schwarzman](http://en.wikipedia.org/wiki/Stephen_A._Schwarzman), Chairman of the [Blackstone Group](http://en.wikipedia.org/wiki/Blackstone_Group), and [Austan Goolsbee](http://en.wikipedia.org/wiki/Austan_Goolsbee), the chief economist of a federal panel, the [President's Economic Recovery Advisory Board](http://en.wikipedia.org/wiki/President%27s_Economic_Recovery_Advisory_Board).[[4](http://en.wikipedia.org/wiki/Skull_and_Bones#cite_note-45)” [↑](#endnote-ref-310)
311. <http://www.jewishvirtuallibrary.org/jsource/anti-semitism/harvard.html> [↑](#endnote-ref-311)
312. <http://en.wikipedia.org/wiki/United_States_v._Microsoft>

     “On November 2, 2001, the DOJ reached an agreement with Microsoft to settle the case. The proposed settlement required Microsoft to share its [application programming interfaces](http://en.wikipedia.org/wiki/Application_Programming_Interface) with third-party companies and appoint a panel of three people who will have full access to Microsoft's systems, records, and source code for five years in order to ensure compliance. The Settlement's requirements were primarily designed to ensure there were stringent oversight procedures and explicit requirements to prevent [Microsoft](http://en.wikipedia.org/wiki/Microsoft_Corporation) from engaging in "[Predatory Behavior](http://en.wikipedia.org/wiki/Predatory_pricing)" or other practices that might form a "[Barrier to Entry](http://en.wikipedia.org/wiki/Barrier_to_entry)".[[16]](http://en.wikipedia.org/wiki/United_States_v._Microsoft#cite_note-MSCourtSettlement-15) However, the DOJ did not require Microsoft to change any of its code nor prevent Microsoft from tying other software with Windows in the future. On August 5, 2002, Microsoft announced that it would make some concessions towards the proposed final settlement ahead of the judge's verdict. On November 1, 2002, Judge Kollar-Kotelly released a judgment accepting most of the proposed DOJ settlement. Nine states (California, Connecticut, Iowa, Florida, Kansas, Minnesota, Utah, Virginia and Massachusetts) and the [District of Columbia](http://en.wikipedia.org/wiki/Washington,_D.C.) (which had been pursuing the case together with the DOJ) did not agree with the settlement, arguing that it did not go far enough to curb Microsoft's anti-competitive business practices. On June 30, 2004, the U.S. appeals court unanimously approved the settlement with the Justice Department, rejecting objections from Massachusetts that the sanctions were inadequate.” [↑](#endnote-ref-312)
313. <http://en.wikipedia.org/wiki/Savings_and_loan_crisis>

     “The deregulation of [S&Ls](http://en.wikipedia.org/wiki/Savings_and_loan_association) gave them many of the capabilities of banks, without the same regulations as banks. Savings and loan associations could choose to be under either a state or a federal [charter](http://en.wikipedia.org/wiki/Charter). Immediately after deregulation of the federally chartered thrifts, state-chartered thrifts rushed to become federally chartered, because of the advantages associated with a federal charter. In response, states such as [California](http://en.wikipedia.org/wiki/California) and [Texas](http://en.wikipedia.org/wiki/Texas) changed their regulations so to be similar to federal regulations.

     More important, however, was the "moral hazard" of insuring already troubled institutions with public dollars. In the view of a Savings and Loan president or manager, the trend line was fatal over the long haul, thus to get liquid, the institution had to take on riskier assets, particularly land. When the real estate market crashed, the S&Ls went with it. The concept of "moral hazard" involves creating the very behavior one seeks to prevent: by insuring the risk, the government guaranteed that desperate S&L owners and managers would engage in ever more risky investments, knowing that if they were successful, the institution would be saved, and if unsuccessful, their depositors would still be bailed out.” [↑](#endnote-ref-313)
314. <http://en.wikipedia.org/wiki/Derivative_%28finance%29>

     “Speculative trading in derivatives gained a great deal of notoriety in [1995](http://en.wikipedia.org/wiki/1995) when [Nick Leeson](http://en.wikipedia.org/wiki/Nick_Leeson), a trader at [Barings Bank](http://en.wikipedia.org/wiki/Barings_Bank), made poor and unauthorized investments in futures contracts. Through a combination of poor judgment, lack of oversight by the bank's management and by regulators, and unfortunate events like the [Kobe earthquake](http://en.wikipedia.org/wiki/Kobe_earthquake), Leeson incurred a $1.3 billion loss that bankrupted the centuries-old institution.[[5]](http://en.wikipedia.org/wiki/Derivative_%28finance%29#cite_note-lee-4)” [↑](#endnote-ref-314)
315. <http://en.wikipedia.org/wiki/Glass%E2%80%93Steagall_Act>

     “**The argument for preserving Glass–Steagall (as written in 1987):**

     1. Conflicts of interest characterize the granting of credit (that is to say, lending) and the use of credit (that is to say, investing) by the same entity, which led to abuses that originally produced the Act.

     2. Depository institutions possess enormous financial power, by virtue of their control of other people’s money; its extent must be limited to ensure soundness and competition in the market for funds, whether loans or investments.

     3. Securities activities can be risky, leading to enormous losses. Such losses could threaten the integrity of deposits. In turn, the Government insures deposits and could be required to pay large sums if depository institutions were to collapse as the result of securities losses.

     4. Depository institutions are supposed to be managed to limit risk. Their managers thus may not be conditioned to operate prudently in more speculative securities businesses. An example is the crash of [real estate investment trusts](http://en.wikipedia.org/wiki/Real_estate_investment_trusts) sponsored by bank holding companies (in the 1970s and 1980s).

     **The argument against preserving the Act (as written in 1987):**

     1. Depository institutions will now operate in “deregulated” financial markets in which distinctions between loans, securities, and deposits are not well drawn. They are losing market shares to securities firms that are not so strictly regulated, and to foreign financial institutions operating without much restriction from the Act.

     2. Conflicts of interest can be prevented by enforcing legislation against them, and by separating the lending and credit functions through forming distinctly separate subsidiaries of financial firms.

     3. The securities activities that depository institutions are seeking are both low-risk by their very nature, and would reduce the total risk of organizations offering them – by diversification.

     4. In much of the rest of the world, depository institutions operate simultaneously and successfully in both banking and securities markets. Lessons learned from their experience can be applied to our national financial structure and regulation.[[9]](http://en.wikipedia.org/wiki/Glass%E2%80%93Steagall_Act#cite_note-digital.library.unt.edu-8)” [↑](#endnote-ref-315)
316. <http://ec.europa.eu/social/main.jsp?catId=458&langId=en> [↑](#endnote-ref-316)
317. <http://en.wikipedia.org/wiki/Kray_twins>

     “Eventually, a [Scotland Yard](http://en.wikipedia.org/wiki/Scotland_Yard) conference decided to arrest the Krays on the evidence already collected, in the hope that other witnesses would be forthcoming once the Krays were in custody. On 8 May 1968,[[16]](http://en.wikipedia.org/wiki/Kray_twins" \l "cite_note-15) the Krays and 15 other members of their "firm" were arrested. Many witnesses came forward now that the Krays' reign of intimidation was over, and it was relatively easy to gain a conviction. The Krays and 14 others were convicted, with one member of the firm being acquitted. One of the firm members that provided a lot of the information to the police was arrested yet only for a short period. Out of the 17 official firm members, 16 were arrested and convicted. The twins' defense, under their counsel [John Platts-Mills](http://en.wikipedia.org/wiki/John_Platts-Mills), [QC](http://en.wikipedia.org/wiki/Queen%27s_Counsel), consisted of flat denials of all charges and the discrediting of witnesses by pointing out their criminal past. The judge, Mr Justice [Melford Stevenson](http://en.wikipedia.org/wiki/Aubrey_Melford_Steed_Stevenson) said: "In my view, society has earned a rest from your activities."[[17]](http://en.wikipedia.org/wiki/Kray_twins#cite_note-16) Both were sentenced to [life imprisonment](http://en.wikipedia.org/wiki/Life_imprisonment), with a non-parole period of 30 years for the murders of Cornell and McVitie, the longest sentences ever passed at the [Old Bailey](http://en.wikipedia.org/wiki/Old_Bailey) (Central Criminal Court, London) for murder.[[18]](http://en.wikipedia.org/wiki/Kray_twins#cite_note-17) Their brother Charlie was jailed for 10 years for his part in the murders.” [↑](#endnote-ref-317)
318. <http://en.wikipedia.org/wiki/Transformation_of_the_United_States_Army>

     “One of the major initiatives of the modernization plan involves migrating the Army from a [division](http://en.wikipedia.org/wiki/Division_%28military%29)-centric force designed to fight one or two potential major-[theatre](http://en.wikipedia.org/wiki/Theater_%28warfare%29) wars toward a modular, [brigade](http://en.wikipedia.org/wiki/Brigade)-centric force that is expeditionary in nature and deployed continuously in different parts of the world. To help with the force structure changes, an additional 30,000 soldiers were authorized under emergency authority. As of 2005, a permanent end-strength change is not expected because General Schoomaker fears funding will be cut in future years, forcing the Army to dip into its procurement and readiness accounts to pay for the added personnel. (Personnel represent 60% of the defense budget and every extra 10,000 soldiers cost, in total, [US$](http://en.wikipedia.org/wiki/United_States_dollar)1.4 billion annually.)

     Before Schoomaker's tenure, the Army was organized around large, mostly mechanized divisions of around 15,000 soldiers each. Under his plan, the 3,000-to-4,000 soldier combat brigade is becoming the primary building-block unit of the Army. The Army describes this realignment as, in effect, organizing its brigades closer to the way it fights.” [↑](#endnote-ref-318)
319. By the end of 2004, the U.S. government proclaimed that two-thirds of the most senior al-Qaeda figures from 2001 had been captured and interrogated by the CIA: [Abu Zubaydah](http://en.wikipedia.org/wiki/Abu_Zubaydah), [Ramzi bin al-Shibh](http://en.wikipedia.org/wiki/Ramzi_bin_al-Shibh) and [Abd al-Rahim al-Nashiri](http://en.wikipedia.org/wiki/Abd_al-Rahim_al-Nashiri) in 2002;[[134]](http://en.wikipedia.org/wiki/Al-Qaeda#cite_note-martinez_interrogations-133) [Khalid Sheikh Mohammed](http://en.wikipedia.org/wiki/Khalid_Sheikh_Mohammed) in 2003; and [Saif al Islam el Masry](http://en.wikipedia.org/wiki/Saif_al_Islam_el_Masry) in 2004.[[*citation needed*](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed)] [Mohammed Atef](http://en.wikipedia.org/wiki/Mohammed_Atef) and several others were killed.” [↑](#endnote-ref-319)
320. Listening software of CIA on phones and email [↑](#endnote-ref-320)
321. <http://www.cbsnews.com/8301-503543_162-12028-503543.html> [↑](#endnote-ref-321)
322. <http://www.fas.org/news/russia/2000/russia/part07.htm> [↑](#endnote-ref-322)
323. <http://www.heterodoxnews.com/htnf/htn63/challenge%20oilspeculation5wordpdf.pdf>

     [↑](#endnote-ref-323)
324. <http://www.google.com.au/url?q=http://www.deepcapture.com/the-story-of-deep-capture-by-mark-mitchell/&sa=X&ei=ha89TJ3vGouEvgPsuszTDg&ved=0CBgQzgQoADAA&usg=AFQjCNFHjf99f6IVb6UU3rkRLy9v_RunWw> [↑](#endnote-ref-324)
325. <http://news.smh.com.au/breaking-news-world/german-cabinet-expands-naked-short-selling-ban-20100602-wzlm.html> [↑](#endnote-ref-325)
326. <http://en.wikipedia.org/wiki/Peak_oil>

     “**Peak oil** is the point in time when the maximum rate of global [petroleum](http://en.wikipedia.org/wiki/Petroleum) [extraction](http://en.wikipedia.org/wiki/Extraction_of_petroleum) is reached, after which the rate of production enters terminal decline. This concept is based on the observed production rates of individual oil wells, and the combined production rate of a field of related oil wells. The [aggregate](http://en.wikipedia.org/wiki/Aggregate_data) production rate from an [oil field](http://en.wikipedia.org/wiki/Oil_field) over time usually grows exponentially until the rate peaks and then declines—sometimes rapidly—until the field is depleted. This concept is derived from the [Hubbert curve](http://en.wikipedia.org/wiki/Hubbert_curve), and has been shown to be applicable to the sum of a nation’s domestic production rate, and is similarly applied to the global rate of petroleum production. Peak oil is often confused with [oil depletion](http://en.wikipedia.org/wiki/Oil_depletion); peak oil is the point of maximum production while depletion refers to a period of falling reserves and supply.” [↑](#endnote-ref-326)
327. <http://www.institutional-economics.com/images/uploads/PF19.pdf> [↑](#endnote-ref-327)
328. <http://en.wikipedia.org/wiki/Enron_scandal>

     “[Kenneth Lay](http://en.wikipedia.org/wiki/Kenneth_Lay) founded Enron in 1985 through the merger of [Houston Natural Gas](http://en.wikipedia.org/wiki/Houston_Natural_Gas) and [InterNorth](http://en.wikipedia.org/wiki/InterNorth), two [natural gas pipeline](http://en.wikipedia.org/wiki/Pipeline_transport) companies.[[5]](http://en.wikipedia.org/wiki/Enron_scandal#cite_note-Healy3-4) In the early 1990s, he helped to initiate the [selling of electricity at market prices](http://en.wikipedia.org/wiki/Energy_market) and, soon after, the United States Congress passed legislation [deregulating](http://en.wikipedia.org/wiki/Deregulation) the sale of [natural gas](http://en.wikipedia.org/wiki/Natural_gas). The resulting markets made it possible for traders such as Enron to sell energy at higher prices, allowing them to thrive.[[6]](http://en.wikipedia.org/wiki/Enron_scandal#cite_note-StruggleNYT-5) After producers and local governments decried the resultant [price volatility](http://en.wikipedia.org/wiki/Volatility_%28finance%29) and pushed for increased regulation, strong [lobbying](http://en.wikipedia.org/wiki/Lobbying) on the part of Enron and others, was able to keep the [free market](http://en.wikipedia.org/wiki/Free_market) system in place.[[6]](http://en.wikipedia.org/wiki/Enron_scandal#cite_note-StruggleNYT-5)[[7]](http://en.wikipedia.org/wiki/Enron_scandal#cite_note-SurestStepsNYT-6)” [↑](#endnote-ref-328)
329. <http://www.perio.org/consumer/mbc.heart.htm> [↑](#endnote-ref-329)
330. <http://en.wikipedia.org/wiki/Spin_bowling>

     “Spin bowling is divided into four different categories, depending on the particular physical technique used. There is virtually no overlap between the two basic biomechanical techniques of [wrist spin](http://en.wikipedia.org/wiki/Wrist_spin) and [finger spin](http://en.wikipedia.org/wiki/Finger_spin).

     * [Off spin](http://en.wikipedia.org/wiki/Off_spin) - Right-handed with finger spin technique. (eg. [Jim Laker](http://en.wikipedia.org/wiki/Jim_Laker))
     * [Leg spin](http://en.wikipedia.org/wiki/Leg_spin) - Right-handed with wrist spin technique. (eg. [Shane Warne](http://en.wikipedia.org/wiki/Shane_Warne))
     * [Left-arm orthodox spin](http://en.wikipedia.org/wiki/Left-arm_orthodox_spin) - Left-handed with finger spin technique. (eg. [Daniel Vettori](http://en.wikipedia.org/wiki/Daniel_Vettori))
     * [Left-arm unorthodox spin](http://en.wikipedia.org/wiki/Left-arm_unorthodox_spin) - Left-handed with wrist spin technique. (eg. [Brad Hogg](http://en.wikipedia.org/wiki/Brad_Hogg))”

     [↑](#endnote-ref-330)
331. <http://en.wikipedia.org/wiki/Football>

     “[6 Present day codes and families](http://en.wikipedia.org/wiki/Football#Present_day_codes_and_families)

     * [6.1 Association football and descendants](http://en.wikipedia.org/wiki/Football#Association_football_and_descendants)
     * [6.2 Rugby school football and descendants](http://en.wikipedia.org/wiki/Football#Rugby_school_football_and_descendants)
     * [6.3 Irish and Australian varieties](http://en.wikipedia.org/wiki/Football#Irish_and_Australian_varieties)
     * [6.4 Surviving mediæval ball games](http://en.wikipedia.org/wiki/Football#Surviving_medi.C3.A6val_ball_games)
       + [6.4.1 Inside the UK](http://en.wikipedia.org/wiki/Football#Inside_the_UK)
       + [6.4.2 Outside the UK](http://en.wikipedia.org/wiki/Football#Outside_the_UK)
     * [6.5 Surviving UK school games](http://en.wikipedia.org/wiki/Football#Surviving_UK_school_games)
     * [6.6 Recent inventions and hybrid games](http://en.wikipedia.org/wiki/Football#Recent_inventions_and_hybrid_games)
       + [6.6.1 Based on FA rules](http://en.wikipedia.org/wiki/Football#Based_on_FA_rules)
       + [6.6.2 Based on rugby](http://en.wikipedia.org/wiki/Football#Based_on_rugby)
       + [6.6.3 Hybrid games](http://en.wikipedia.org/wiki/Football#Hybrid_games)
     * [6.7 Tabletop games and other recreations](http://en.wikipedia.org/wiki/Football#Tabletop_games_and_other_recreations)”

     [↑](#endnote-ref-331)
332. <http://en.wikipedia.org/wiki/Coal_Miner%27s_Daughter>

     “The film was adapted from Lynn's autobiography written with [George Vecsey](http://en.wikipedia.org/wiki/George_Vecsey). Loretta Lynn was one of eight children born to Ted Webb ([Levon Helm](http://en.wikipedia.org/wiki/Levon_Helm)), a coal miner raising a family despite grinding poverty in [Butcher Hollow, Kentucky](http://en.wikipedia.org/wiki/Butcher_Hollow,_Kentucky). She married Doolittle "Mooney" Lynn ([Tommy Lee Jones](http://en.wikipedia.org/wiki/Tommy_Lee_Jones)) when she was only 13 years old.” [↑](#endnote-ref-332)
333. <http://en.wikipedia.org/wiki/Kray_twins>

     “Their criminal record and dishonourable discharge ended their boxing careers. As a result, the twins turned to crime. They bought a run down local [snooker](http://en.wikipedia.org/wiki/Snooker) club in Bethnal Green, where they started several [protection rackets](http://en.wikipedia.org/wiki/Protection_racket). By the end of the 1950s, the Krays were involved in [hijacking](http://en.wiktionary.org/wiki/Hijack), [armed robbery](http://en.wikipedia.org/wiki/Armed_robbery) and [arson](http://en.wikipedia.org/wiki/Arson), through which they acquired a few clubs and other properties. In 1960 Reggie Kray was incarcerated for 18 months on charges of running a protection racket and related threats, and while he was in prison, [Peter Rachman](http://en.wikipedia.org/wiki/Peter_Rachman), the head of a violent landlord operation, gave Ronnie the Esmeralda's Barn, a nightclub in [Knightsbridge](http://en.wikipedia.org/wiki/Knightsbridge). This increased the Krays' influence in the West End of London, with celebrities and famous people rather than East End criminals.” [↑](#endnote-ref-333)
334. <http://en.wikipedia.org/wiki/Wolf%27s_Lair>

     “A self-adopted nickname of Hitler's was "Wolf", likely suggested by the derivation of his given name Adolf from the [Old High German](http://en.wikipedia.org/wiki/Old_High_German) *adal* and *wolf* ("noble wolf").[[*citation needed*](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed)] Hitler began using the nickname in the early 1920s, and was so addressed only by those in his intimate circle. The nickname is reflected in the names of his various headquarters scattered throughout [continental Europe](http://en.wikipedia.org/wiki/Continental_Europe), which also include *Wolfsschlucht* in [Belgium](http://en.wikipedia.org/wiki/Belgium) and [*Wehrwolf*](http://en.wikipedia.org/wiki/Wehrwolf) in [Ukraine](http://en.wikipedia.org/wiki/Ukraine).” [↑](#endnote-ref-334)
335. <http://en.wikipedia.org/wiki/Death_of_a_Salesman>

     “In this sense, Miller's play represents a democratization of the ancient form of tragedy; the play's protagonist is himself obsessed with the question of greatness, and his downfall arises directly from his continued misconception of himself--at age 63--as someone capable of greatness, as well as the unshakable conviction that greatness stems directly from personal charisma or popularity.” [↑](#endnote-ref-335)
336. <http://www.chally.com/quad.htm> [↑](#endnote-ref-336)
337. <http://www.tomhopkins.com/> [↑](#endnote-ref-337)
338. <http://en.wikipedia.org/wiki/Socratic_method>

     “The Socratic method is a *negative* method of hypothesis elimination, in that better hypotheses are found by steadily identifying and eliminating those that lead to contradictions. The Socratic method searches for general, commonly held truths that shape opinion, and scrutinizes them to determine their consistency with other beliefs. The basic form is a series of [questions](http://en.wikipedia.org/wiki/Question) formulated as tests of [logic](http://en.wikipedia.org/wiki/Logic) and fact intended to help a person or group discover their [beliefs](http://en.wikipedia.org/wiki/Beliefs) about some topic, exploring the definitions or [*logoi*](http://en.wikipedia.org/wiki/Logoi) (singular [*logos*](http://en.wikipedia.org/wiki/Logos)), seeking to characterize the general characteristics shared by various particular instances.” [↑](#endnote-ref-338)
339. <http://www.bbc.co.uk/programmes/b00kmt51> [↑](#endnote-ref-339)
340. <http://en.wikipedia.org/wiki/Jackson_Pollock>

     “Pollock's technique of pouring and dripping paint is thought to be one of the origins of the term [action painting](http://en.wikipedia.org/wiki/Action_painting). With this technique, Pollock was able to achieve a more immediate means of creating art, the paint now literally flowing from his chosen tool onto the canvas. By defying the convention of painting on an upright surface, he added a new dimension, literally, by being able to view and apply paint to his canvases from all directions.” [↑](#endnote-ref-340)
341. <http://www.johnpilger.com/page.asp?partid=154> [↑](#endnote-ref-341)
342. <http://en.wikipedia.org/wiki/Communist_Party_of_Turkestan>

     “In 1920 the 5th Territorial Congress of the Communist Party of Turkestan was held. The congress suggested that a unified Turkic Soviet Republic be formed, a demand that was later ignored by the RCP(b).[[4]](http://en.wikipedia.org/wiki/Communist_Party_of_Turkestan#cite_note-lib-3)In line with the line of attracting the Muslim masses to the party, the party employed different criteria on religious activities of Muslim and Orthodox members. In 1922, 1500 Russian Orthodox were purged from the Communist Party of Turkestan on the grounds of 'religious prejudice', but not a single Muslim.[[1]](http://en.wikipedia.org/wiki/Communist_Party_of_Turkestan#cite_note-marxist-0)” [↑](#endnote-ref-342)
343. <http://www.marxists.org/archive/trotsky/1924/ffyci-2/02.htm> [↑](#endnote-ref-343)
344. From the book Gang Leader for a Day [↑](#endnote-ref-344)
345. <http://en.wikipedia.org/wiki/Internal_affairs_%28law_enforcement%29>

     “Several police departments in the USA have been compelled to institute civilian review or investigation of police misconduct complaints in response to community perception that internal affairs investigations are biased in favor of police officers. For example, San Francisco, California, has its Office of Citizen Complaints, created by voter initiative in 1983, in which civilians who have never been members of the San Francisco Police Department investigate complaints of police misconduct filed against members of the San Francisco Police Department. Washington, DC, has a similar office, created in 1999, known as the Office of Police Complaints [[1]](http://en.wikipedia.org/wiki/Internal_affairs_%28law_enforcement%29#cite_note-0).” [↑](#endnote-ref-345)
346. <http://en.wikipedia.org/wiki/Star_Chamber>

     “In the 1983 movie [*The Star Chamber*](http://en.wikipedia.org/wiki/The_Star_Chamber), Michael Douglas, playing an idealistic Los Angeles Superior Court judge frustrated about having to free obviously guilty criminals merely because of legal technicalities, learns from his mentor about a secret cabal of judges—a Star Chamber—that metes out its own brand of justice against those it determines have wrongly been set free.” [↑](#endnote-ref-346)
347. From the book Gang Leader for a Day [↑](#endnote-ref-347)
348. <http://en.wikipedia.org/wiki/Viking_Age>

     “The Viking devastation of [Northumbria](http://en.wikipedia.org/wiki/Northumbria)'s Holy Island shocked and alerted the royal Courts of Europe. "Never before has such an atrocity been seen," declared the Northumbrian scholar [Alcuin of York](http://en.wikipedia.org/wiki/Alcuin_of_York). More than any other single event, the attack on Lindisfarne cast a shadow on the perception of the Vikings for the next twelve centuries. Not until the 1890s did scholars outside Scandinavia begin seriously to reassess the achievements of the Vikings, recognizing their artistry, technological skills, and seamanship.[[5]](http://en.wikipedia.org/wiki/Viking_Age#cite_note-4)Until [Victoria](http://en.wikipedia.org/wiki/Victoria_of_the_United_Kingdom)'s reign in [Britain](http://en.wikipedia.org/wiki/United_Kingdom_of_Great_Britain_and_Ireland), Vikings were portrayed as violent and bloodthirsty. The chronicles of medieval England had always portrayed them as rapacious 'wolves among sheep'.” [↑](#endnote-ref-348)
349. <http://en.wikipedia.org/wiki/William_Wallace>

     “**Sir William Wallace** ([Medieval Gaelic](http://en.wikipedia.org/wiki/Middle_Irish_language): *Uilliam Uallas*; [modern Scottish Gaelic](http://en.wikipedia.org/wiki/Scottish_Gaelic): *Uilleam Uallas*; 1272 – 23 August 1305) was a [Scottish](http://en.wikipedia.org/wiki/Scottish_people) [knight](http://en.wikipedia.org/wiki/Knight) and [landowner](http://en.wikipedia.org/wiki/Landowner) who is known for leading a resistance during the [Wars of Scottish Independence](http://en.wikipedia.org/wiki/Wars_of_Scottish_Independence) and is today remembered in Scotland as a patriot and national hero.[[1]](http://en.wikipedia.org/wiki/William_Wallace#cite_note-0)Along with [Andrew Moray](http://en.wikipedia.org/wiki/Andrew_Moray), he defeated an English army at the [Battle of Stirling Bridge](http://en.wikipedia.org/wiki/Battle_of_Stirling_Bridge), and became [Guardian of Scotland](http://en.wikipedia.org/wiki/Guardian_of_Scotland), serving until his defeat at the [Battle of Falkirk](http://en.wikipedia.org/wiki/Battle_of_Falkirk_%281298%29). A few years later Wallace was captured in [Robroyston](http://en.wikipedia.org/wiki/Robroyston) near [Glasgow](http://en.wikipedia.org/wiki/Glasgow) and handed over to King [Edward I of England](http://en.wikipedia.org/wiki/Edward_I_of_England), who had him executed for treason. [↑](#endnote-ref-349)
350. <http://en.wikipedia.org/wiki/William_Wallace>

     “Edward proceeded to reverse the rulings of the Scottish guardians and even summoned King John Balliol to stand before the English court as a common felon. Balliol was a weak king and not the strong leader Scotland needed in these troubled times. Thus he became to be known as "Toom Tabard", or "Empty Coat". Balliol supporters including Fraser, Bishop of St. Andrews and John Comyn, Earl of Buchan appealed to King Edward to keep the promise he had made in the Treaty of Birgham and elsewhere to respect the customs and laws of Scotland. Edward repudiated the treaty, saying he was no longer bound by it.[[8]](http://en.wikipedia.org/wiki/William_Wallace#cite_note-7) Balliol renounced his [homage](http://en.wikipedia.org/wiki/Homage) in March 1296 and by the end of the month Edward stormed [Berwick-upon-Tweed](http://en.wikipedia.org/wiki/Berwick-upon-Tweed), sacking the then-Scottish border town. He slaughtered almost all of his opponents who resided there, even if they fled to their homes. In April, the Scots were defeated at the [Battle of Dunbar](http://en.wikipedia.org/wiki/Battle_of_Dunbar_%281296%29) in [East Lothian](http://en.wikipedia.org/wiki/East_Lothian) and by July Edward had forced Balliol to abdicate at [Stracathro](http://en.wikipedia.org/wiki/Stracathro) near [Montrose](http://en.wikipedia.org/wiki/Montrose,_Angus). Edward then instructed his officers to receive formal homage from some 1800 Scottish nobles (many of the rest being prisoners of war at that time), having previously removed the [Stone of Destiny](http://en.wikipedia.org/wiki/Stone_of_Scone), the Scottish coronation stone, from [Scone Palace](http://en.wikipedia.org/wiki/Scone_Palace), and taken it to London.” [↑](#endnote-ref-350)
351. <http://en.wikipedia.org/wiki/Aristocracy>

     “**Nobility** is a state-privileged status which is generally hereditary. The privileges associated with nobility may constitute substantial advantages over or relative to non-nobles, or may be largely honorary (e.g. precedence), but are maintained, or at least officially acknowledged, by law or government. [Titles](http://en.wikipedia.org/wiki/Title) of nobility have often been associated with present or past monarchies, but nobility also existed in such republics as [the Dutch Provinces](http://en.wikipedia.org/wiki/Seventeen_Provinces), Genoa and Venice, and remains part of the legal social structure of, e.g. [San Marino](http://en.wikipedia.org/wiki/San_Marino) in Europe. Hereditary titles often distinguish nobles from non-nobles, although in many nations most of the nobility have been un-titled, and a hereditary title need not indicate nobility (e.g. [baronet](http://en.wikipedia.org/wiki/Baronet)).” [↑](#endnote-ref-351)
352. <http://en.wikipedia.org/wiki/Apex_predator>

     “Since 1932, zoologists have defined predation as the killing and consumption of another organism, which excludes [bacteria](http://en.wikipedia.org/wiki/Bacteria) and [parasites](http://en.wikipedia.org/wiki/Parasites) from the apex predator concept. [[4]](http://en.wikipedia.org/wiki/Apex_predator#cite_note-3) The apex predator concept is commonly applied in wildlife management and conservation, as well as eco-tourism. In these contexts it has been defined in terms of [trophic levels](http://en.wikipedia.org/wiki/Trophic_dynamics). Trophic levels are "hierarchical strata of a food web characterized by organisms which are the same number of steps removed from the [primary producers](http://en.wikipedia.org/wiki/Foundation_species)."[[5]](http://en.wikipedia.org/wiki/Apex_predator#cite_note-4) Primary, secondary, tertiary, and higher level consumers occupy successive trophic levels. One study of marine food webs defined apex predators as greater than trophic level four.[[6]](http://en.wikipedia.org/wiki/Apex_predator#cite_note-5)Food chains are often far shorter on land, with the top of the food chain limited to the third trophic level, as where such predators as the [big cats](http://en.wikipedia.org/wiki/Big_cat), [crocodilians](http://en.wikipedia.org/wiki/Crocodilian), [hyenas](http://en.wikipedia.org/wiki/Hyena), [wolves](http://en.wikipedia.org/wiki/Wolves), or giant constrictor snakes prey upon large herbivores. Apex predators need not be [hypercarnivores](http://en.wikipedia.org/wiki/Hypercarnivore). For example, [grizzly bears](http://en.wikipedia.org/wiki/Grizzly_Bear) and [humans](http://en.wikipedia.org/wiki/Human)[[7]](http://en.wikipedia.org/wiki/Apex_predator#cite_note-6) are each apex predators, and yet they are [omnivores](http://en.wikipedia.org/wiki/Omnivores) that eat considerable vegetable material as well as much meat. In this sense, an apex predator can be defined as being too difficult to kill for them to be a regular source of food for other predators. Some animals may be superpredators in some environments but not others, such as [dogs](http://en.wikipedia.org/wiki/Dog) and domestic [cats](http://en.wikipedia.org/wiki/Cat), both of which can ravage ecosystems, such as the introduction of feral cats to Australia.” [↑](#endnote-ref-352)
353. <http://en.wikipedia.org/wiki/Reversion_to_the_mean>

     “The concept of regression comes from genetics and was popularized by [Sir Francis Galton](http://en.wikipedia.org/wiki/Sir_Francis_Galton) during the late 19th century with the publication of *Regression towards mediocrity in hereditary stature*.[[4]](http://en.wikipedia.org/wiki/Reversion_to_the_mean#cite_note-galton1886-3) Galton observed that extreme characteristics (e.g., height) in parents are not passed on completely to their offspring. Rather, the characteristics in the offspring *regress* towards a *mediocre* point (a point which has since been identified as the mean). By measuring the heights of hundreds of people, he was able to quantify regression to the mean, and estimate the size of the effect. Galton wrote that, “the average regression of the offspring is a constant fraction of their respective mid-parental deviations”. This means that the difference between a child and its parents for some characteristic is proportional to its parents' deviation from typical people in the population. So if its parents are each two inches taller than the averages for men and women, on average it will be shorter than its parents by some factor (which, today, we would call one minus the [regression coefficient](http://en.wikipedia.org/wiki/Regression_analysis)) times two inches. For height, Galton estimated this coefficient to be about ⅔: the height of an individual will measure around a mid-point that is two thirds of the parents’ deviation from the population average.” [↑](#endnote-ref-353)
354. <http://en.wikipedia.org/wiki/Edward_VIII_abdication_crisis>

     “In 1936, a [constitutional crisis](http://en.wikipedia.org/wiki/Constitutional_crisis) in the [British Empire](http://en.wikipedia.org/wiki/British_Empire) was caused by [King-Emperor](http://en.wikipedia.org/wiki/King-Emperor) [Edward VIII](http://en.wikipedia.org/wiki/Edward_VIII_of_the_United_Kingdom)'s proposal to marry [Wallis Simpson](http://en.wikipedia.org/wiki/Wallis,_Duchess_of_Windsor), a twice-divorced [American](http://en.wikipedia.org/wiki/United_States) [socialite](http://en.wikipedia.org/wiki/Socialite).

     The marriage was opposed by the King's governments in the [United Kingdom](http://en.wikipedia.org/wiki/United_Kingdom) and the autonomous [Dominions](http://en.wikipedia.org/wiki/British_Dominions) of the [British Commonwealth](http://en.wikipedia.org/wiki/Commonwealth_of_Nations). Religious, legal, political, and moral objections were raised. Mrs Simpson was perceived to be an unsuitable consort because of her two failed marriages, and it was widely assumed by [the Establishment](http://en.wikipedia.org/wiki/The_Establishment) that she was driven by love of money or position rather than love for the King. Despite the opposition, Edward declared that he loved Mrs Simpson and intended to marry her whether the governments approved or not.” [↑](#endnote-ref-354)
355. <http://en.wikipedia.org/wiki/Frederick_II_of_Prussia>

     “Frederick William considered marrying Frederick to [Elisabeth of Mecklenburg-Schwerin](http://en.wikipedia.org/wiki/Anna_Leopoldovna), the niece of [Empress Anna of Russia](http://en.wikipedia.org/wiki/Anna_of_Russia), but this plan was ardently opposed by [Prince Eugene of Savoy](http://en.wikipedia.org/wiki/Prince_Eugene_of_Savoy). Frederick himself proposed marrying [Maria Theresa of Austria](http://en.wikipedia.org/wiki/Maria_Theresa_of_Austria) in return for renouncing the succession. Instead, Eugene persuaded Frederick William, through Seckendorff, that the crown prince marry [Elisabeth Christine of Brunswick-Bevern](http://en.wikipedia.org/wiki/Elisabeth_Christine_of_Brunswick-Bevern), a Protestant relative of the Austrian [Habsburgs](http://en.wikipedia.org/wiki/Habsburg).[[10]](http://en.wikipedia.org/wiki/Frederick_II_of_Prussia#cite_note-Reiners63-9) Although Frederick wrote to his sister that, "There can be neither love nor friendship between us,"[[5]](http://en.wikipedia.org/wiki/Frederick_II_of_Prussia#cite_note-Crompton-4) and he considered suicide, he went along with the wedding on 12 June 1733. He had little in common with his bride and resented the political marriage as an example of the Austrian interference which had plagued Prussia since 1701. Once Frederick secured the throne in 1740, he prevented Elisabeth from visiting his court in Potsdam, granting her instead [Schönhausen Palace](http://en.wikipedia.org/wiki/Sch%C3%B6nhausen_Palace) and apartments at the [Berliner Stadtschloss](http://en.wikipedia.org/wiki/Berliner_Stadtschloss). Frederick bestowed the title of the heir to the throne, "Prince of Prussia", on his brother Augustus William; despite this, his wife remained devoted to him.[[11]](http://en.wikipedia.org/wiki/Frederick_II_of_Prussia#cite_note-Reiners69-10)” [↑](#endnote-ref-355)
356. <http://en.wikipedia.org/wiki/Richard_I_of_England>

     “Coming to terms with [Llywelyn I, Prince of Gwynedd](http://en.wikipedia.org/wiki/Llywelyn_the_Great), following the [Welsh Uprising of 1211](http://en.wikipedia.org/wiki/Gwynedd_in_the_High_Middle_Ages#Llywelyn.2C_John.2C_and_the_Magna_Carta) and settling his dispute with the papacy, John turned his attentions back to his overseas interests. The European wars culminated in defeat at the [Battle of Bouvines](http://en.wikipedia.org/wiki/Battle_of_Bouvines) (1214), which forced the king to accept an unfavourable peace with France after having failed to get help from King [Mohammed el-Nasir](http://en.wikipedia.org/w/index.php?title=Mohammed_el-Nasir&action=edit&redlink=1) of Morocco.[[11]](http://en.wikipedia.org/wiki/John_of_England#cite_note-10) This tale of the king's willingness to convert to [Islam](http://en.wikipedia.org/wiki/Islam) in exchange for help originates from an account by [Matthew Paris](http://en.wikipedia.org/wiki/Matthew_Paris), who was trying to bring the king further into disrepute, and may well have been fabricated.[[12]](http://en.wikipedia.org/wiki/John_of_England#cite_note-11)

     This finally turned the barons against him (some had already rebelled against him after he was excommunicated), and he met their leaders along with their French and Scots allies at [Runnymede](http://en.wikipedia.org/wiki/Runnymede), near London on 15 June 1215 to seal the [Great Charter](http://en.wikipedia.org/wiki/Magna_Carta), called in [Latin](http://en.wikipedia.org/wiki/Latin_%28language%29) *Magna Carta*. Because he had sealed under duress, however, John received approval from his overlord the Pope to break his word as soon as hostilities had ceased, provoking the [First Barons' War](http://en.wikipedia.org/wiki/First_Barons%27_War) and an invited French invasion by [Prince Louis](http://en.wikipedia.org/wiki/Louis_VIII_of_France) of France (whom the majority of the English barons had invited to replace John on the throne and had him proclaimed king in London in May 1216). John travelled around the country to oppose the rebel forces, directing, among other operations, a two-month siege of the rebel-held [Rochester Castle](http://en.wikipedia.org/wiki/Rochester_Castle).” [↑](#endnote-ref-356)
357. <http://news.bbc.co.uk/2/hi/americas/657033.stm> [↑](#endnote-ref-357)
358. <http://en.wikipedia.org/wiki/Pettingill_family>

     “The **Pettingill family** is an infamous [Melbourne](http://en.wikipedia.org/wiki/Melbourne)-based criminal family,[[1]](http://en.wikipedia.org/wiki/Pettingill_family" \l "cite_note-fearsofwar-0) headed by matriarch [Kath Pettingill](http://en.wikipedia.org/wiki/Kath_Pettingill). Family members have many convictions for criminal offences including [drug trafficking](http://en.wikipedia.org/wiki/Drug_trafficking),[[2]](http://en.wikipedia.org/wiki/Pettingill_family#cite_note-comingclean-1) [arms dealing](http://en.wikipedia.org/wiki/Arms_dealing)[[3]](http://en.wikipedia.org/wiki/Pettingill_family#cite_note-finest-2) and [armed robberies](http://en.wikipedia.org/wiki/Armed_robberies).[[2]](http://en.wikipedia.org/wiki/Pettingill_family#cite_note-comingclean-1)

     Two of Kath Pettingill's sons, [Victor Peirce](http://en.wikipedia.org/wiki/Victor_Peirce) and Trevor Pettingill would face a murder trial for the 1988 [Walsh Street police shootings](http://en.wikipedia.org/wiki/Walsh_Street_police_shootings), with both acquitted along with two fellow defendants. Victor Peirce's defacto wife, Wendy, would later claim her husband planned and carried out the murders with the fellow accused.[[2]](http://en.wikipedia.org/wiki/Pettingill_family#cite_note-comingclean-1)” [↑](#endnote-ref-358)
359. <http://www.npr.org/templates/story/story.php?storyId=5231348> [↑](#endnote-ref-359)
360. <http://en.wikipedia.org/wiki/Massacre_at_Hu%E1%BA%BF>

     “The **Massacre at Huế** (*Thảm sát tại Huế Tết Mậu Thân*) is the name given to describe the [summary executions](http://en.wikipedia.org/wiki/Summary_execution) and [mass killings](http://en.wikipedia.org/wiki/Mass_killing) supposed to be conducted by the [Viet Cong](http://en.wikipedia.org/wiki/Viet_Cong) and [North Vietnam](http://en.wikipedia.org/wiki/North_Vietnam) during their capture, [occupation](http://en.wikipedia.org/wiki/Military_occupation) and later withdrawal from the city of [Huế](http://en.wikipedia.org/wiki/Hu%E1%BA%BF) during the [Tet Offensive](http://en.wikipedia.org/wiki/Tet_Offensive), considered one of the longest and bloodiest [battles](http://en.wikipedia.org/wiki/Battle) of the [Vietnam War](http://en.wikipedia.org/wiki/Vietnam_War). During the months and years that followed the battle[[*when?*](http://en.wikipedia.org/wiki/Wikipedia:Manual_of_Style_%28dates_and_numbers%29#Chronological_items)], dozens of [mass graves](http://en.wikipedia.org/wiki/Mass_grave) were discovered in and around Huế containing 2,800 to 6,000 [civilians](http://en.wikipedia.org/wiki/Civilian) and [prisoners of war](http://en.wikipedia.org/wiki/Prisoners_of_war).[[1]](http://en.wikipedia.org/wiki/Massacre_at_Hu%E1%BA%BF#cite_note-0) Victims were found bound, tortured, and sometimes apparently [buried alive](http://en.wikipedia.org/wiki/Premature_burial). A number of [U.S.](http://en.wikipedia.org/wiki/U.S.) and [South Vietnamese](http://en.wikipedia.org/wiki/South_Vietnam) authorities as well a number of journalists who investigated the events took the discoveries, along with other evidence, as proof that a large-scale [atrocity](http://en.wiktionary.org/wiki/atrocity) had been carried out in and around Huế during its four-week occupation.[[*citation needed*](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed)] The killings were perceived as part of a large-scale [purge](http://en.wikipedia.org/wiki/Purge) of a whole social stratum, including anyone friendly to American forces in the region.” [↑](#endnote-ref-360)
361. Louis Theroux documentary “Law and disorder in Johannesburg” Bad Boyz. [↑](#endnote-ref-361)
362. <http://nextbigfuture.com/2009/06/bruce-bueno-de-mesquita-predictions-on.html> [↑](#endnote-ref-362)
363. <http://www.marxists.org/subject/africa/index.htm> [↑](#endnote-ref-363)
364. <http://www.informationclearinghouse.info/article3412.htm> [↑](#endnote-ref-364)
365. <http://en.wikipedia.org/wiki/El_Salvador>

     “In October 1979, a [coup d'état](http://en.wikipedia.org/wiki/Coup_d%27%C3%A9tat) brought [Revolutionary Government Junta of El Salvador](http://en.wikipedia.org/wiki/Revolutionary_Government_Junta_of_El_Salvador) to power. It nationalized many private companies and took over much privately owned land. The purpose of this new junta was to stop the revolutionary movement already underway because of Duarte's stolen election. Nevertheless, the oligarchy opposed agrarian reform and a junta formed with young liberal elements from the Army such as Gral. Majano and Gral. Gutierrez as well as progressives such as Ungo and Alvarez.

     Due to the pressure of the staunch oligarchy and the inability to control the Army in repressing its own people because they were fighting for their right to unionize, agrarian reform, better wages, health, freedom of expression, this Junta was dissolved. In the meantime the guerrilla movement was spreading in all sectors of the Salvadoran society. Middle and High School students were organized in MERS ( Movimiento Estudiantil Revolucionario de Secundaria, Revolutionary Movement of Secondary Students); college students were involved with AGEUS (Asociacion de Estudiantes Universitarios Salvadorenos; Association of Salvadoran College Students); workers were organized in BPR (Bloque Popular Revolucionario, Popular Revolutionary Block).

     The U.S. supported and financed the creation of a second Junta to change the political environment and stop the spread of a leftist insurrection. Napoleon Duarte was recalled from his exile in Venezuela to head this new Junta. However, a revolution was already underway and his new role as head of the Junta was seen as opportunistic by the general population. He was unable to influence the outcome of the insurrectional movement and this resulted in the [Salvadoran Civil War](http://en.wikipedia.org/wiki/Salvadoran_Civil_War) (1980–1992).” [↑](#endnote-ref-365)
366. <http://en.wikipedia.org/wiki/Suharto>

     “In contrast to the communal and political conflicts, economic collapse and social breakdown of the late-1950s and mid-1960s, Suharto's "New Order" —so-termed to distinguish it from Sukarno's "old order"—was committed to achieving political order, economic development, and the removal of mass participation in the political process. In place of Sukarno's revolutionary rhetoric, Suharto showed a pragmatic use of power, and in contrast to the liberal parliamentary democracy of the 1950s, Suharto headed an authoritarian, military-dominated government.[[58]](http://en.wikipedia.org/wiki/Suharto#cite_note-Schwartz_1994.2C_page_2-57) The "New Order" featured a weak civil society, the bureaucratisation and corporatisation of political and societal organisations, and selective but effective repression of opponents.[[61]](http://en.wikipedia.org/wiki/Suharto#cite_note-60)” [↑](#endnote-ref-366)
367. <http://en.wikipedia.org/wiki/Hong_kong#Economy>

     “Hong Kong was once described by [Milton Friedman](http://en.wikipedia.org/wiki/Milton_Friedman) as the world’s greatest experiment in [laissez-faire](http://en.wikipedia.org/wiki/Laissez-faire) capitalism.[[109]](http://en.wikipedia.org/wiki/Hong_kong#cite_note-EconomistEnd-113) It maintains a highly developed capitalist economy, ranked the freest in the world by the [Index of Economic Freedom](http://en.wikipedia.org/wiki/Index_of_Economic_Freedom) for 15 consecutive years.[[110]](http://en.wikipedia.org/wiki/Hong_kong#cite_note-114)[[111]](http://en.wikipedia.org/wiki/Hong_kong#cite_note-115)[[112]](http://en.wikipedia.org/wiki/Hong_kong#cite_note-116) It is an important centre for international finance and trade, with one of the greatest concentrations of corporate headquarters in the Asia-Pacific region,[[113]](http://en.wikipedia.org/wiki/Hong_kong#cite_note-117) and is known as one of the [Four Asian Tigers](http://en.wikipedia.org/wiki/Four_Asian_Tigers) for its high growth rates and rapid development from the 1960s to the 1990s. Between 1961 and 1997 Hong Kong's [gross domestic product](http://en.wikipedia.org/wiki/Gross_domestic_product) grew 180 times while per-capita GDP increased 87 times over.[[114]](http://en.wikipedia.org/wiki/Hong_kong#cite_note-118)[[115]](http://en.wikipedia.org/wiki/Hong_kong#cite_note-119)[[116]](http://en.wikipedia.org/wiki/Hong_kong#cite_note-120)

     The [Hong Kong Stock Exchange](http://en.wikipedia.org/wiki/Hong_Kong_Stock_Exchange) is the seventh largest in the world, with a market capitalisation of US$2.3 trillion as of December 2009.[[117]](http://en.wikipedia.org/wiki/Hong_kong#cite_note-121) In that year, Hong Kong raised 22 percent of worldwide [initial public offering](http://en.wikipedia.org/wiki/Initial_public_offering) (IPO) capital, making it the largest centre of IPOs in the world.[[118]](http://en.wikipedia.org/wiki/Hong_kong#cite_note-122) Hong Kong's currency is the [Hong Kong dollar](http://en.wikipedia.org/wiki/Hong_Kong_dollar), which has been [pegged](http://en.wikipedia.org/wiki/Currency_board) to the U.S. dollar since 1983.[[119]](http://en.wikipedia.org/wiki/Hong_kong#cite_note-123)

     The Hong Kong Government has traditionally played a mostly passive role in the economy, with little by way of [industrial policy](http://en.wikipedia.org/wiki/Industrial_policy) and almost no [import or export controls](http://en.wikipedia.org/wiki/Trade_restriction). Market forces and the private sector were allowed to determine practical development. Under the official policy of "[positive non-interventionism](http://en.wikipedia.org/wiki/Positive_non-interventionism)", Hong Kong is often cited as an example of laissez-faire capitalism. Following the Second World War, Hong Kong industrialised rapidly as a manufacturing centre driven by exports, and then underwent a rapid transition to a service-based economy in the 1980s.[[120]](http://en.wikipedia.org/wiki/Hong_kong#cite_note-ceo-124)” [↑](#endnote-ref-367)
368. <http://en.wikipedia.org/wiki/Green_Revolution>

     “**Green Revolution** refers to a series of research, development, and [technology transfer](http://en.wikipedia.org/wiki/Technology_transfer) initiatives, occurring between 1943 and the late 1970s, that increased industrialized agriculture production in India. The initiatives involved the development of [high-yielding varieties](http://en.wikipedia.org/wiki/High-yielding_varieties) of [cereal](http://en.wikipedia.org/wiki/Cereal) grains, expansion of irrigation infrastructure, and distribution of hybridized seeds, synthetic fertilizers, and pesticides to farmers.” [↑](#endnote-ref-368)
369. <http://ipsnews.net/news.asp?idnews=38721> [↑](#endnote-ref-369)
370. <http://en.wikipedia.org/wiki/Trophic_level>

     “[Decomposers](http://en.wikipedia.org/wiki/Decomposer) ([detritivores](http://en.wikipedia.org/wiki/Detritivores)) break down dead plant and animal material and wastes and release it again as energy and nutrients into the ecosystem for recycling. Decomposers, such as bacteria and fungi (mushrooms), feed on waste and dead matter, converting it into inorganic chemicals that can be recycled as mineral nutrients for plants to use again.” [↑](#endnote-ref-370)
371. <http://en.wikipedia.org/wiki/Foreign_trade_of_the_Soviet_Union>

     “Commodity composition of Soviet trade differed by region. The Soviet Union imported manufactured, agricultural, and consumer goods from socialist countries in exchange for energy and manufactured goods. The Soviet Union earned hard currency by exporting fuels and other primary products to the industrialized West and then used this currency to buy sophisticated manufactures and agricultural products, primarily grain. Trade with the Third World usually involved exchanging machinery and armaments for tropical foodstuffs and raw materials.[[1]](http://en.wikipedia.org/wiki/Foreign_trade_of_the_Soviet_Union#cite_note-LOCCSussr-0)” [↑](#endnote-ref-371)
372. <http://en.wikipedia.org/wiki/Bushmen>

     “The Bushman kinship system reflects their interdependence as traditionally small mobile foraging bands. The kinship system is also comparable to the [Eskimo kinship](http://en.wikipedia.org/wiki/Eskimo_kinship) system, with the same set of terms as in Western countries, but also employing a name rule and an age rule. The age rule resolves any confusion arising from kinship terms, as the older of two people always decides what to call the younger. Relatively few names circulate (approximately only 35 names per gender), and each child is named after a grandparent or another relative.” [↑](#endnote-ref-372)
373. <http://en.wikipedia.org/wiki/Kibbutz>

     “A **kibbutz** ([Hebrew](http://en.wikipedia.org/wiki/Hebrew_language): קיבוץ, קִבּוּץ, lit. "gathering, clustering"; plural ***kibbutzim***) is a [collective community](http://en.wikipedia.org/wiki/Intentional_community) in [Israel](http://en.wikipedia.org/wiki/Israel) that was traditionally based on [agriculture](http://en.wikipedia.org/wiki/Agriculture). Today, farming has been partly supplanted by other economic branches, including [industrial plants](http://en.wikipedia.org/wiki/Factory) and [high-tech](http://en.wikipedia.org/wiki/High-tech) [enterprises](http://en.wikipedia.org/wiki/Enterprises).[[1]](http://en.wikipedia.org/wiki/Kibbutz#cite_note-Peres-0) Kibbutzim began as [utopian](http://en.wikipedia.org/wiki/Utopian) communities, a combination of [socialism](http://en.wikipedia.org/wiki/Socialism) and [Zionism](http://en.wikipedia.org/wiki/Zionism). In recent decades, many kibbutzim have been privatized and changes have been made in the communal lifestyle.” [↑](#endnote-ref-373)
374. <http://en.wikipedia.org/wiki/Business_oligarch>

     “The power of oligarchs diminished significantly after [Vladimir Putin](http://en.wikipedia.org/wiki/Vladimir_Putin) became president. During [Putin](http://en.wikipedia.org/wiki/Putin) presidency, many oligarchs came under fire for various illegal activities, particularly [tax evasion](http://en.wikipedia.org/wiki/Tax_evasion) in the businesses they acquired. However, it is widely speculated and believed that the charges were also politically motivated, as these tycoons have fallen out of favour with the Kremlin. [Vladimir Gusinsky](http://en.wikipedia.org/wiki/Vladimir_Gusinsky) (MediaMost) and [Boris Berezovsky](http://en.wikipedia.org/wiki/Boris_Berezovsky) both escaped 'justice' by running out of Russia, and the most prominent, [Mikhail Khodorkovsky](http://en.wikipedia.org/wiki/Mikhail_Khodorkovsky) ([Yukos](http://en.wikipedia.org/wiki/Yukos) [oil](http://en.wikipedia.org/wiki/Petroleum)), was arrested in October [2003](http://en.wikipedia.org/wiki/2003), and sentenced to 9 years. The most famous oligarchs from the Putin era include [Roman Abramovich](http://en.wikipedia.org/wiki/Roman_Abramovich), [Oleg Deripaska](http://en.wikipedia.org/wiki/Oleg_Deripaska), [Mikhail Prokhorov](http://en.wikipedia.org/wiki/Mikhail_Prokhorov), and still [Vladimir Potanin](http://en.wikipedia.org/wiki/Vladimir_Potanin) and [Vitaly Malkin](http://en.wikipedia.org/wiki/Vitaly_Malkin).” [↑](#endnote-ref-374)
375. <http://en.wikipedia.org/wiki/Council_house>

     “Laws restricted councils' investment in housing, preventing them subsidising it from local taxes, but more importantly, council tenants were given the "right to buy" in the 1980s Housing Act offering a discount price on their council house. The [Right to Buy Scheme](http://en.wikipedia.org/wiki/Right_to_Buy_Scheme) allowed tenants to buy their home with a discount of up to 60% of the market price for houses and 70% for flats, depending on the time they had lived there. Councils were prevented from reinvesting the proceeds of these sales in new housing, and the total available stock, particularly of more desirable homes, declined. The "right-to-buy" was popular with many former [Labour](http://en.wikipedia.org/wiki/Labour_Party_%28UK%29) voters and, although the Labour government of [Tony Blair](http://en.wikipedia.org/wiki/Tony_Blair) tightened the rules (reducing the maximum discount in areas of most housing need), it did not end the right-to-buy. Labour did relax the policy forbidding reinvestment of sales proceeds[*[citation needed](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed" \o "Wikipedia:Citation needed)*]. Some councils have now transferred their housing stock to not-for-profit housing associations, who are now also the providers of most new public sector housing. Elsewhere, [referendums](http://en.wikipedia.org/wiki/Referendum) on changing ownership, in Birmingham for example, have been won by opponents of government policy. [↑](#endnote-ref-375)
376. <http://www.itnsource.com/shotlist/RTV/2010/05/29/RTV1345510/?v=1&a=0> [↑](#endnote-ref-376)
377. <http://news.softpedia.com/news/Recycling-Gone-Bad-Where-Does-Our-High-Tech-Waste-Go-38885.shtml> [↑](#endnote-ref-377)
378. <http://en.wikipedia.org/wiki/Crop_rotation>

     “In Europe, since the times [Charlemagne](http://en.wikipedia.org/wiki/Charlemagne), there was a transition from a two-field crop rotation to a three-field crop rotation. Under a two-field rotation, half the land was planted in a year while the other half lay fallow. Then, in the next year, the two fields were reversed. Under three-field rotation, the land was divided into three parts. One section was planted in the Fall with winter wheat or rye. The next Spring, the second field was planted with other crops such as peas, lentils, or beans and the third field was left fallow. The three fields were rotated in this manner so that every three years, a field would rest and be unplanted. Under the two field system, if one has a total of 600 fertile acres of land, one would only plant 300 acres. Under the new three-field rotation system, one would plant (and thereby harvest) 400 acres. But, the additional crops had a more significant effect than mere productivity. Since the Spring crops were mostly legumes, they increased the overall nutrition of the people of Northern Europe.[[2]](http://en.wikipedia.org/wiki/Crop_rotation#cite_note-1)” [↑](#endnote-ref-378)
379. <http://en.wikipedia.org/wiki/Lockheed_bribery_scandals>

     “Between 1970 and 1975, Lockheed paid Saudi Arms dealer [Adnan Khashoggi](http://en.wikipedia.org/wiki/Adnan_Khashoggi) $106 million in commissions. Khashoggi himself is said to have made hundreds of millions from other corporations in this period, however as Khashoggi was a mediator for bribes, his payment included money destined for officials. His commissions started at 2.5% + and eventually rose to as much as 15%. Khashoggi "became for all practical purposes a marketing arm of Lockheed. Adnan would provide not only an entree but strategy, constant advice, and analysis," according to Max Helzel, then vice president of Lockheed's international marketing.[[15]](http://en.wikipedia.org/wiki/Lockheed_bribery_scandals#cite_note-R000185-14)” [↑](#endnote-ref-379)
380. <http://en.wikipedia.org/wiki/Oil-for-Food_Programme>

     “The scheme is alleged to have worked in this way: individuals and organizations sympathetic to the Iraqi regime, or those just easily bribed, were offered oil contracts through the Oil-for-Food Programme. These contracts for Iraqi oil could then be sold on the open world market and the seller was allowed to keep a transaction fee, said to be between $0.15 and $0.50/barrel (0.94 and 3.14 $/m³) of oil sold. The seller was then to refund the Iraqi government a certain percentage of the commission.

     Contracts to sell Iraq humanitarian goods through the Oil-for-Food Programme were given to companies and individuals based on their willingness to kick back a certain percentage of the contract profits to the Iraqi regime. Companies that sold commodities via the Oil-for-Food Programme were overcharging by up to 10%, with part of the overcharged amount being diverted into private bank accounts for Saddam Hussein and other regime officials and the other part being kept by the supplier.

     The involvement of the UN itself in the scandal began in February 2004 after the name of [Benon Sevan](http://en.wikipedia.org/wiki/Benon_Sevan), executive director of the Oil-for-Food Programme, appeared on the Iraqi Oil Ministry's documents. Sevan allegedly was given vouchers for at least 11,000,000 barrels (1,700,000 m³) of oil, worth some $3.5 million. Sevan has denied the charges.” [↑](#endnote-ref-380)
381. <http://en.wikipedia.org/wiki/Grizzly_bears>

     “Although grizzlies are of the order [Carnivora](http://en.wikipedia.org/wiki/Carnivora) and have the digestive system of carnivores, they are actually [omnivores](http://en.wikipedia.org/wiki/Omnivore), since their diet consists of both plants and animals. They have been known to prey on large mammals, when available, such as [moose](http://en.wikipedia.org/wiki/Moose), [deer](http://en.wikipedia.org/wiki/Deer), [sheep](http://en.wikipedia.org/wiki/Sheep), [elk](http://en.wikipedia.org/wiki/Elk), [bison](http://en.wikipedia.org/wiki/American_bison), [caribou](http://en.wikipedia.org/wiki/Caribou) and even [black bears](http://en.wikipedia.org/wiki/American_black_bear). Grizzly bears feed on fish such as salmon, trout, and bass, and those with access to a more [protein](http://en.wikipedia.org/wiki/Protein)-enriched diet in coastal areas potentially grow larger than interior individuals. Grizzly bears also readily [scavenge](http://en.wikipedia.org/wiki/Scavenge) food, on carrion left behind by other animals.[[23]](http://en.wikipedia.org/wiki/Grizzly_bears#cite_note-22)” [↑](#endnote-ref-381)
382. “The Great Crash of 1929” by John Kenneth Gailbraith

     “Some of those in positions of authority wanted the boom to continue. They were making money out of it, and they had an intimation of the personal disaster which awaited them when the boom came to an end. But there were also some who saw, however dimly, that a wild speculation was in progress and that something should be done. For these people, however, every proposal to act raised the same intractable problem. The consequences of successful action seemed almost as terrible as the consequences of inaction, and they could be more horrible for those who took action. A bubble can easily be punctured. But to incise it with a needle so that it subsides gradually is a task of no small delicacy. Among those who sensed what was happening in 1929, there was some hope but no confidence that the boom could be made to subside.”

     “That we are having a major speculative splurge as this is written is obvious to anyone not captured by vacuous optimism. There is now far more money flowing into the stock markets than there is intelligence to guide it. There are many more mutual funds than there are financially acute, historically aware men and women to manage them. I am not given to prediction; one’s foresight is forgotten, only one’s errors are well remembered. But there is here a basic recurrent process. It comes with rising prices, whether of stocks, real estate, works of art or anything else. This increase attracts attention and buyers, which produces the further effect of even higher prices. Expectations are thus justified by the very action that sends prices up. The process continues; optimism with its market effect is the order of the day. Prices go up even more. Then, for reasons that will endlessly be debated, come the end. The descent is always more sudden than the increase; a balloon that has been punctured does not deflate in an orderly way. To repeat, I make no prediction; I only observe that this phenomenon has manifested itself many times since 1637, when Dutch speculators saw tulip bulbs as their magic road to wealth, and 1720, when John Law brought presumptive wealth and then sudden poverty to Paris through the pursuit of gold, to this day undiscovered, in Louisiana. In these years aslso the great South Sea Bubble spread financial devastation in Britain.” [↑](#endnote-ref-382)
383. <http://en.wikipedia.org/wiki/Lionfish>

     “Although the lionfish is not native to all regions in the world, these fish continue to spread throughout many parts of the world.[[3]](http://en.wikipedia.org/wiki/Lionfish#cite_note-2) Due to a recent introduction, the lionfish has been spotted in the warmer coral regions of the eastern [Atlantic Ocean](http://en.wikipedia.org/wiki/Atlantic_Ocean) around the [Azores](http://en.wikipedia.org/wiki/Azores) and extending into the [Mediterranean Sea](http://en.wikipedia.org/wiki/Mediterranean_Sea), and also in the [Caribbean Sea](http://en.wikipedia.org/wiki/Caribbean_Sea) ([Cozumel](http://en.wikipedia.org/wiki/Cozumel), Jamaica, the Dominican Republic, [Belize](http://en.wikipedia.org/wiki/Belize), [Roatan](http://en.wikipedia.org/wiki/Roatan), and [Puerto Rico](http://en.wikipedia.org/wiki/Puerto_Rico) as of 2010) and in the [Red Sea](http://en.wikipedia.org/wiki/Red_Sea) .[[4]](http://en.wikipedia.org/wiki/Lionfish#cite_note-3) It has been speculated that this introduction may well have been caused when [Hurricane Andrew](http://en.wikipedia.org/wiki/Hurricane_Andrew) destroyed an [aquarium](http://en.wikipedia.org/wiki/Aquarium) in southern [Florida](http://en.wikipedia.org/wiki/Florida).[[5]](http://en.wikipedia.org/wiki/Lionfish#cite_note-4). However, a more recent report [[6]](http://en.wikipedia.org/wiki/Lionfish#cite_note-5) states that NOAA ecologist James Morris Jr. has discovered that a Lionfish was caught off Dania, FL prior to Hurricane Andrew, as long ago as 1985. Morris indicated that the "most likely vector" was release of fish and/or eggs into the wild by people in the aquarium trade. [DNA](http://en.wikipedia.org/wiki/DNA) from captured lionfish in this region shows that they all originated from the same six or seven fish.[[7]](http://en.wikipedia.org/wiki/Lionfish#cite_note-6) The lion fish has also a low breeding system.[[*clarification needed*](http://en.wikipedia.org/wiki/Wikipedia:Please_clarify)] Pterois volitans lionfish has also been found in waters near Long Island , New York, where as a 'tropical fish', it was not expected to be able to survive. Treatment of invasive Lionfish in the Caribbean varies - in Cozumel they are frequently captured alive in order to collect a bounty that has been placed upon them, while in Roatan they are frequently killed on sight by local divemasters, with as many as five or six killed during a single 1-hour dive.” [↑](#endnote-ref-383)
384. <http://en.wikipedia.org/wiki/Disruptive_technology>

     “**Disruptive innovation** is a term used in business and technology literature to describe [innovations](http://en.wikipedia.org/wiki/Innovation) that improve a product or service in ways that the market does not expect, typically by lowering price or designing for a different set of consumers. In contrast to "disruptive innovation", a "sustaining" innovation does not have an effect on existing markets. Sustaining innovations may be either "discontinuous"[[1]](http://en.wikipedia.org/wiki/Disruptive_technology#cite_note-Christensen2003-0) (i.e. transformational") or "continuous" (i.e. "evolutionary"). Transformational innovations are not always disruptive. Although the automobile was a transformational innovation, it was not a disruptive innovation, because early automobiles were expensive luxury items that did not disrupt the market for [horse-drawn vehicles](http://en.wikipedia.org/wiki/Horse-drawn_vehicle). However, they did transform the transportation industry along an important technological vector. The market for transportation essentially remained intact until the debut of the lower priced [Ford Model T](http://en.wikipedia.org/wiki/Ford_Model_T) in 1908 by making higher speed, motorized transportation available to the masses.” [↑](#endnote-ref-384)
385. <http://en.wikipedia.org/wiki/Greenmail>

     “[Corporate raids](http://en.wikipedia.org/wiki/Corporate_raid) aim to generate large amounts of money by [hostile takeovers](http://en.wikipedia.org/wiki/Takeover) of large, often undervalued or inefficient (i.e. non-profit-maximizing) companies, by either [asset stripping](http://en.wikipedia.org/wiki/Asset_stripping) and/or replacing management and employees. However, once having secured a large share of a target company, instead of completing the hostile takeover, the **greenmailer** offers to end the threat to the victim company by selling his share back to it, but at a substantial premium to the fair market stock price. From the viewpoint of the target, the [ransom](http://en.wikipedia.org/wiki/Ransom) payment may be referred to as a **goodbye kiss**. The origin of the term as a business [metaphor](http://en.wikipedia.org/wiki/Metaphor) is unclear, although it will certainly be understood in context as kissing the greenmailer and, certainly, millions of dollars goodbye. A company which agrees to buy back the bidder's stockholding in the target avoids being taken over. In return, the bidder agrees to abandon the takeover attempt and may sign a confidential agreement with the greenmailer who will agree not to resume the maneuver for a period of time. While benefiting the predator, the company and its shareholders lose money. Greenmail also perpetuates the company's existing management and employees, which would have most certainly seen their ranks reduced or eliminated had the hostile takeover successfully gone through.” [↑](#endnote-ref-385)
386. <http://en.wikipedia.org/wiki/Trophic_level>

     “Food webs largely define ecosystems, and the trophic levels define the position of organisms within the webs. But these trophic levels are not always simple integers, because organisms often feed at more than one trophic level.[[6]](http://en.wikipedia.org/wiki/Trophic_level#cite_note-5)[[7]](http://en.wikipedia.org/wiki/Trophic_level#cite_note-6) For example, some carnivores also eat plants, and some plants are carnivores. A large carnivore may eat both smaller carnivores and herbivores; the bobcat eats rabbits, but the mountain lion eats both bobcats and rabbits. Animals can also eat each other; the [bullfrog](http://en.wikipedia.org/wiki/Bullfrog) eats [crayfish](http://en.wikipedia.org/wiki/Crayfish) and crayfish eat young bullfrogs. The feeding habits of a juvenile animal, and consequently its trophic level, can change as it grows up.” [↑](#endnote-ref-386)
387. From the book “The Big Short” by Michael Lewis [↑](#endnote-ref-387)
388. <http://www.borders.com.au/book/quants-how-a-small-band-of-maths-wizards-took-over-wall-street-and-nearly-destroyed-it/7689778/> [↑](#endnote-ref-388)
389. <http://en.wikipedia.org/wiki/Mark-to-market_accounting>

     “Problems can arise when the market-based measurement does not accurately reflect the underlying asset's true value. This can occur when a company is forced to calculate the selling price of these assets or liabilities during unfavorable or volatile times, such as a financial crisis. For example, if the liquidity is low or investors are fearful, the current selling price of a bank's assets could be much lower than the value under normal liquidity conditions. The result would be a lowered shareholders' equity. This issue was seen during the financial crisis of 2008/09 where many securities held on banks' balance sheets could not be valued efficiently as the markets had disappeared from them. In April 2009, however, the Financial Accounting Standards Board (FASB) voted on and approved new guidelines that would allow for the valuation to be based on a price that would be received in an orderly market rather than a forced liquidation, starting in the first quarter of 2009.” [↑](#endnote-ref-389)
390. <http://www.investopedia.com/terms/d/deathspiral.asp> [↑](#endnote-ref-390)
391. <http://www.nydailynews.com/news/ny_crime/2009/05/31/2009-05-31_mafia_wanted_killer_deal_on_wall_st_plot_to_whack_a_suspected_rat_is_caught_on_t.html> [↑](#endnote-ref-391)
392. <http://en.wikipedia.org/wiki/Current_account>

     “Absent changes in official reserves, the current account is the mirror image of the sum of the capital and financial accounts. One might then ask: Is the current account driven by the capital and financial accounts or is it vice versa? The traditional response is that the current account is the main causal factor, with capital and financial accounts simply reflecting financing of a deficit or investment of funds arising as a result of a surplus. However, more recently some observers have suggested that the opposite causal relationship may be important in some cases. In particular, it has controversially been suggested that the [United States](http://en.wikipedia.org/wiki/United_States) current account deficit is driven by the desire of international investors to acquire U.S. assets (See [Ben Bernanke](http://en.wikipedia.org/wiki/Ben_Bernanke), [William Poole](http://en.wikipedia.org/wiki/William_Poole) links below). However, the main viewpoint undoubtedly remains that the causative factor is the current account and that the positive financial account reflects the need to finance the country's current account deficit. Since 1989, the current account deficits of the United States have been increasingly larger, reaching close to 7% of the GDP in 2006. This raises a lot of concerns in the academic and policy circles.[*[citation needed](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed" \o "Wikipedia:Citation needed)*] New evidences, however, suggest that the U.S. current account deficits are being mitigated by positive [valuation effects](http://en.wikipedia.org/wiki/Valuation_effects).[[4]](http://en.wikipedia.org/wiki/Current_account#cite_note-fed-3) That is, the U.S. assets overseas are gaining in value relative to the domestic assets held by foreign investors. The U.S. [net foreign assets](http://en.wikipedia.org/wiki/Net_foreign_assets) therefore is not deteriorating one to one with the current account deficits. The most recent experience has reversed this positive valuation effect, however, with the US net foreign asset position deteriorating by more than two trillion dollars in 2008.[[5]](http://en.wikipedia.org/wiki/Current_account#cite_note-4) This was due primarily to the relative under-performance of domestic ownership of foreign assets (largely foreign equities) to foreign ownership of domestic assets (largely US treasuries and bonds).” [↑](#endnote-ref-392)
393. <http://en.wikipedia.org/wiki/Mercantilism>

     “The Austrian lawyer and scholar [Philipp Wilhelm von Hornick](http://en.wikipedia.org/wiki/Philipp_Wilhelm_von_Hornick), in his *Austria Over All, If She Only Will* of 1684, detailed a nine-point program of what he deemed effective national economy, which sums up the tenets of mercantilism comprehensively:[[7]](http://en.wikipedia.org/wiki/Mercantilism#cite_note-6)

     * That every inch of a country's soil be utilized for agriculture, mining or manufacturing.
     * That all raw materials found in a country be used in domestic manufacture, since finished goods have a higher value than raw materials.
     * That a large, working population be encouraged.
     * That all export of gold and silver be prohibited and all domestic money be kept in circulation.
     * That all imports of foreign goods be discouraged as much as possible.
     * That where certain imports are indispensable they be obtained at first hand, in exchange for other domestic goods instead of gold and silver.
     * That as much as possible, imports be confined to raw materials that can be finished [in the home country].
     * That opportunities be constantly sought for selling a country's surplus manufactures to foreigners, so far as necessary, for gold and silver.
     * That no importation be allowed if such goods are sufficiently and suitably supplied at home.”

     [↑](#endnote-ref-393)
394. <http://en.wikipedia.org/wiki/Lost_Decade_%28Japan%29>

     “The **Lost Decade** (失われた10年, *Ushinawareta Jūnen*[**?**](http://en.wikipedia.org/wiki/Help:Installing_Japanese_character_sets)) is the time after the [Japanese asset price bubble's](http://en.wikipedia.org/wiki/Japanese_asset_price_bubble) collapse (崩壊, hōkai) within the [Japanese economy](http://en.wikipedia.org/wiki/Japanese_economy), which occurred gradually rather than catastrophically. It consists of the years [1991](http://en.wikipedia.org/wiki/1991) to [2000](http://en.wikipedia.org/wiki/2000).[[1]](http://en.wikipedia.org/wiki/Lost_Decade_%28Japan%29#cite_note-0)The strong economic growth of the 1980s ended abruptly at the start of the 1990s. In the late 1980s, abnormalities within the Japanese economic system had fueled a massive wave of speculation by Japanese companies, banks and securities companies. A combination of exceptionally high land values and exceptionally low interest rates briefly led to a position in which credit was both easily available and extremely cheap. This led to massive borrowing, the proceeds of which were invested mostly in domestic and foreign stocks and securities. Recognizing that this bubble was unsustainable, the [Finance Ministry](http://en.wikipedia.org/wiki/Ministry_of_Finance_%28Japan%29) sharply raised interest rates in late 1989. This abruptly terminated the bubble, leading to a massive crash in the stock market. It also led to a debt crisis; a large proportion of the debts that had been run up turned bad, which in turn led to a crisis in the banking sector, with many banks being bailed out by the government. [Michael Schuman](http://en.wikipedia.org/wiki/Michael_Schuman) of [Time Magazine](http://en.wikipedia.org/wiki/Time_Magazine) noted that banks kept injecting new funds into unprofitable "[zombie firms](http://en.wikipedia.org/wiki/Zombie_company)" to keep them afloat, arguing that they were [too big to fail](http://en.wikipedia.org/wiki/Too_big_to_fail). However, most of these companies were too debt-ridden to do much more than survive on further bailouts, which led to an economist describing Japan as a "loser's paradise." Schuman states that Japan's economy did not begin to recover until this practice had ended.[[2]](http://en.wikipedia.org/wiki/Lost_Decade_%28Japan%29#cite_note-schumantimes-1)” [↑](#endnote-ref-394)
395. <http://independentreport.blogspot.com/2010/06/income-wealth-inequality-growing-prior.html> [↑](#endnote-ref-395)
396. <http://www.hoboes.com/FireBlade/Fiction/Butler/Erewhon/erewhon24/> [↑](#endnote-ref-396)
397. <http://en.wikipedia.org/wiki/Butlerian_Jihad>

     “In *Terminology of the Imperium*, the glossary of 1965's *Dune*, Frank Herbert provides the following definition:

     JIHAD, BUTLERIAN: (see also Great Revolt) — the crusade against [computers](http://en.wikipedia.org/wiki/Computer), [thinking machines](http://en.wikipedia.org/wiki/Thinking_machines_(Dune)), and [conscious robots](http://en.wikipedia.org/wiki/Cognitive_robotics) begun in 201 B.G. and concluded in 108 B.G. Its chief commandment remains in the [O.C. Bible](http://en.wikipedia.org/wiki/Orange_Catholic_Bible) as "Thou shalt not make a machine in the likeness of a human mind."

     Herbert refers to the Jihad many times in the entire *Dune* series, but did not give much detail on how he imagined the actual conflict.[[3]](http://en.wikipedia.org/wiki/Butlerian_Jihad#cite_note-SFC_2009-01-2) In [*God Emperor of Dune*](http://en.wikipedia.org/wiki/God_Emperor_of_Dune) (1981), [Leto Atreides II](http://en.wikipedia.org/wiki/Leto_Atreides_II) indicates that the Jihad had been a semi-religious social upheaval initiated by humans who felt repulsed by how guided and controlled they had become by machines:

     "The target of the Jihad was a machine-attitude as much as the machines," Leto said. "Humans had set those machines to usurp our sense of beauty, our necessary selfdom out of which we make living judgments. Naturally, the machines were destroyed."[[4]](http://en.wikipedia.org/wiki/Butlerian_Jihad#cite_note-God_Emperor-3)

     In the series, Herbert illustrates how the Jihad leads to many profound and long-lasting effects on the socio-political and technological development of humanity. The known universe is purged of all forms of thinking machines, resulting in not only a ban on the re-creation of similar devices (which remains in effect throughout the periods described in the original six [*Dune*](http://en.wikipedia.org/wiki/Dune_(franchise)#Original_series) novels), but also a great technological reversal for humanity. The chief commandment from the [Orange Catholic Bible](http://en.wikipedia.org/wiki/Orange_Catholic_Bible), "Thou shalt not make a machine in the likeness of a human mind", holds sway, as do the anti-artificial intelligence laws in which the penalty for owning an AI device or developing technology resembling the human mind is immediate death.” [↑](#endnote-ref-397)
398. <http://en.wikipedia.org/wiki/Mad_max>

     “The film opens "A Few Years From Now..." in [Australia](http://en.wikipedia.org/wiki/Australia), in a [dystopian](http://en.wikipedia.org/wiki/Dystopia) future where [law and order](http://en.wikipedia.org/wiki/Law_and_order_(politics)) has begun to break down at the end of the '[Oil Age](http://en.wikipedia.org/wiki/Oil_Age)'. [Berserk](http://en.wikipedia.org/wiki/Berserker#Modern_context) motorcycle gang member, Crawford "Nightrider" Montizano, has broken police custody and – with a [punk](http://en.wikipedia.org/wiki/Punk_rock) woman by his side – is attempting to flee from the Main Force Patrol (MFP), the Federal highway police unit, in a stolen MFP [Pursuit Special](http://en.wikipedia.org/wiki/Pursuit_Special). Though he manages to elude his initial pursuers, the Nightrider then encounters the MFP's "top pursuit man," [leather](http://en.wikipedia.org/wiki/Leather)-clad [Max Rockatansky](http://en.wikipedia.org/wiki/Max_Rockatansky) ([Mel Gibson](http://en.wikipedia.org/wiki/Mel_Gibson)). Max, the more skilled driver, pursues the Nightrider in a violent high-speed chase which results in the death of the Nightrider and the woman in a fiery car crash.

     Nightrider's Armalite [motorcycle gang](http://en.wikipedia.org/wiki/Motorcycle_gang) – led by the barbaric "Toecutter" ([Hugh Keays-Byrne](http://en.wikipedia.org/wiki/Hugh_Keays-Byrne)) and his [sociopath](http://en.wikipedia.org/wiki/Sociopath) lieutenant Bubba Zanetti (Geoff Parry) – is running roughshod over a country town, vandalizing property, stealing fuel and terrorising the local population.” [↑](#endnote-ref-398)
399. <http://en.wikipedia.org/wiki/World_Trade_Organization>

     “In 1994, the WTO members agreed on the Understanding on Rules and Procedures Governing the Settlement of Disputes (DSU) annexed to the "Final Act" signed in Marrakesh in 1994.[[44]](http://en.wikipedia.org/wiki/World_Trade_Organization#cite_note-43) Dispute settlement is regarded by the WTO as the central pillar of the multilateral trading system, and as a "unique contribution to the stability of the global economy".[[45]](http://en.wikipedia.org/wiki/World_Trade_Organization#cite_note-44) WTO members have agreed that, if they believe fellow-members are violating trade rules, they will use the multilateral system of settling disputes instead of taking action unilaterally.[[46]](http://en.wikipedia.org/wiki/World_Trade_Organization#cite_note-UnSD-45)” [↑](#endnote-ref-399)
400. <http://en.wikipedia.org/wiki/Empire_of_Japan>

     “The process of modernization was closely monitored and heavily subsidized by the Meiji government, enhancing the power of the great [zaibatsu](http://en.wikipedia.org/wiki/Zaibatsu) firms such as [Mitsui](http://en.wikipedia.org/wiki/Mitsui) and [Mitsubishi](http://en.wikipedia.org/wiki/Mitsubishi). Hand in hand, the zaibatsu and government guided the nation, borrowing technology from the West. Japan gradually took control of much of Asia's market for manufactured goods, beginning with textiles. The economic structure became very mercantilistic, importing raw materials and exporting finished products — a reflection of Japan's relative scarcity of raw materials.” [↑](#endnote-ref-400)
401. <http://en.wikipedia.org/wiki/Hyperinflation>

     “By late 1923, the [Weimar Republic](http://en.wikipedia.org/wiki/Weimar_Republic) of Germany was issuing two-trillion Mark banknotes and postage stamps with a face value of fifty billion Mark. The highest value banknote issued by the Weimar government's Reichsbank had a face value of 100 trillion Mark (100,000,000,000,000; 100 billion on the long scale).[[9]](http://en.wikipedia.org/wiki/Hyperinflation#cite_note-8)[[10]](http://en.wikipedia.org/wiki/Hyperinflation#cite_note-9). At the height of the inflation one U.S. dollar was worth 4 trillion German marks. One of the firms printing these notes submitted an invoice for the work to the Reichsbank for 32,776,899,763,734,490,417.05 (3.28×1019, or 33 [quintillion](http://en.wikipedia.org/wiki/Quintillion)) Marks.[[11]](http://en.wikipedia.org/wiki/Hyperinflation#cite_note-10)” [↑](#endnote-ref-401)
402. <http://militaryhistory.about.com/od/worldwarii/a/wwiipaccauses_2.htm> [↑](#endnote-ref-402)
403. <http://en.wikipedia.org/wiki/First_Opium_War>

     “The **First Anglo-Chinese War** (1839–42), known popularly as the **First Opium War**,[[nb 2]](http://en.wikipedia.org/wiki/First_Opium_War#endnote_name) was fought between the [United Kingdom of Great Britain and Ireland](http://en.wikipedia.org/wiki/United_Kingdom_of_Great_Britain_and_Ireland) and the [Qing Dynasty](http://en.wikipedia.org/wiki/Qing_Dynasty) of China, with the aim of securing economic benefits from trade in China.[[3]](http://en.wikipedia.org/wiki/First_Opium_War#cite_note-2) In 1842, the [Treaty of Nanking](http://en.wikipedia.org/wiki/Treaty_of_Nanking)—the first of what the Chinese called the [unequal treaties](http://en.wikipedia.org/wiki/Unequal_Treaties)—granted an [indemnity](http://en.wikipedia.org/wiki/Indemnity) to Britain, the opening of five [treaty ports](http://en.wikipedia.org/wiki/Treaty_ports), and the cession of [Hong Kong Island](http://en.wikipedia.org/wiki/Hong_Kong_Island), ending the monopoly of trading in the [Canton System](http://en.wikipedia.org/wiki/Canton_System). The war marked the end of China's isolation and the beginning of modern Chinese history.[[4]](http://en.wikipedia.org/wiki/First_Opium_War#cite_note-3)[[5]](http://en.wikipedia.org/wiki/First_Opium_War#cite_note-4)” [↑](#endnote-ref-403)
404. <http://www.icenews.is/index.php/2010/03/16/icelandic-banks-deliberately-weakened-krona-before-collapse/> [↑](#endnote-ref-404)
405. <http://en.wikipedia.org/wiki/Human_height>

     “In the late nineteenth century, the Netherlands was a land renowned for its short population, but today it has the tallest average in the world, with young men averaging 183 cm (6'0 [ft](http://en.wikipedia.org/wiki/Foot%28unit_of_length%29)) tall and in Europe are only shorter than the peoples of the [Dinaric Alps](http://en.wikipedia.org/wiki/Dinaric_Alps) (a section largely within the former [Yugoslavia](http://en.wikipedia.org/wiki/Yugoslavia)), where males average 185.6 cm (6 ft 1.1 in) tall. The Dinarians and the Dutch are now well known in Europe for extreme tallness. In [Africa](http://en.wikipedia.org/wiki/Africa), the [Maasai](http://en.wikipedia.org/wiki/Maasai), [Dinka](http://en.wikipedia.org/wiki/Dinka) and [Tutsi](http://en.wikipedia.org/wiki/Tutsi) populations have been noted for their height. However, the popular belief that Dinka "often" reach more than seven feet finds no support in scientific literature. An anthropometric survey of Dinka men published in 1995 found a mean height of 176.4cm, or roughly 5 ft 9.45 in the Ethiopian Medical Journal. [1] Colonial populations present an interesting case in the evolution of human height. Though the European population in South Africa is principally descended from Dutch and British settlers of the 17th, 18th and 19th centuries (at a period when both England and Holland reported average male heights of under 5 foot 6), the present European descended population has shown a similar increase in height as have the nations from which they are descended. A 1998 survey recorded an average height of 177 cm for European descended South African males, and 164 cm for European descended South African females [[50]](http://en.wikipedia.org/wiki/Human_height#cite_note-SADHS1998-49). Australians likewise are taller than their ancestors, averaging over 178 cm, and women 163.9 cm in a survey conducted in 1995 [[2]](http://en.wikipedia.org/wiki/Human_height#cite_note-australia-1). By comparison, a British survey from a similar period averages the male population height at 174.4 cm, and the female population at 161 cm [[59]](http://en.wikipedia.org/wiki/Human_height#cite_note-uk-58). This means that despite many Australians and European descended South Africans having descended from British people, their current average height is over an inch greater than the present UK average (approximately 0.4 Standard Deviations).” [↑](#endnote-ref-405)
406. <http://en.wikipedia.org/wiki/Epigenetics>

     “In [biology](http://en.wikipedia.org/wiki/Biology), and specifically [genetics](http://en.wikipedia.org/wiki/Genetics), **epigenetics** is the study of [inherited](http://en.wikipedia.org/wiki/Heredity) changes in [phenotype](http://en.wikipedia.org/wiki/Phenotype) (appearance) or [gene expression](http://en.wikipedia.org/wiki/Gene_expression) caused by mechanisms other than changes in the underlying [DNA](http://en.wikipedia.org/wiki/DNA) sequence, hence the name *epi-* (Greek: *επί*- over, above) *-*[*genetics*](http://en.wikipedia.org/wiki/Genetics). These changes may remain through [cell](http://en.wikipedia.org/wiki/Cell_%28biology%29) [divisions](http://en.wikipedia.org/wiki/Mitosis) for the remainder of the cell's life and may also last for multiple generations. However, there is no change in the underlying [DNA](http://en.wikipedia.org/wiki/DNA) sequence of the organism;[[1]](http://en.wikipedia.org/wiki/Epigenetics" \l "cite_note-0) instead, non-genetic factors cause the organism's genes to behave (or "express themselves") differently.[[2]](http://en.wikipedia.org/wiki/Epigenetics#cite_note-1)” [↑](#endnote-ref-406)
407. <http://breakingnews.gaeatimes.com/2010/07/06/now-iran-issues-islamic-hairstyle-list-to-get-rid-of-decadent-western-cuts-37866/> [↑](#endnote-ref-407)
408. <http://www.religioustolerance.org/hom_repar.htm> [↑](#endnote-ref-408)
409. <http://en.wikipedia.org/wiki/Bushmen> [↑](#endnote-ref-409)
410. <http://aperiomics.blogspot.com/2010/07/battle-at-kruger.html> [↑](#endnote-ref-410)
411. BBC Documentary Law and Disorder in Johannesburg. [↑](#endnote-ref-411)
412. <http://en.wikipedia.org/wiki/Ferdinand_Marcos>

     “However, his administration was marred by massive [authoritarian](http://en.wikipedia.org/wiki/Authoritarian) [corruption](http://en.wikipedia.org/wiki/Political_corruption), [despotism](http://en.wikipedia.org/wiki/Despotism), [nepotism](http://en.wikipedia.org/wiki/Nepotism), political repression, and human rights violations. He benefited from a large [personality cult](http://en.wikipedia.org/wiki/Personality_cult) in the Philippines during his regime.[[2]](http://en.wikipedia.org/wiki/Ferdinand_Marcos#cite_note-1) In 1983, his government was implicated in the assassination of his primary political opponent, [Benigno Aquino, Jr.](http://en.wikipedia.org/wiki/Benigno_Aquino,_Jr.). The implication caused a chain of events, including a tainted presidential election that served as the catalyst for the [People Power Revolution](http://en.wikipedia.org/wiki/People_Power_Revolution) in February 1986 that led to his removal from power and eventual exile in Hawaii.” [↑](#endnote-ref-412)
413. <http://blogs.wsj.com/law/2010/07/21/secs-schapiro-after-madoff-agency-looking-both-back-and-forward/> [↑](#endnote-ref-413)
414. <http://en.wikipedia.org/wiki/Harry_Markopolos>

     “"Government has coddled, accepted, and ignored [White-collar crime](http://en.wikipedia.org/wiki/White-collar_crime) for too long," he testified. "It is time the nation woke up and realized that it's not the armed robbers or drug dealers who cause the most economic harm, it's the white collar criminals living in the most expensive homes who have the most impressive resumes who harm us the most. They steal our pensions, bankrupt our companies, and destroy thousands of jobs, ruining countless lives."[[28]](http://en.wikipedia.org/wiki/Harry_Markopolos#cite_note-Examiner-27) He testified to Rep. [Gary Ackerman](http://en.wikipedia.org/wiki/Gary_Ackerman)-D-NY that he has never been compensated for his efforts. "I did it for our ([American](http://en.wikipedia.org/wiki/United_States)) flag, for patriotism."[[29]](http://en.wikipedia.org/wiki/Harry_Markopolos#cite_note-CSpan-28) Markopolos presented recommendations to improve the SEC's operations, which included mandatory department standards: Good ethics, full transparency, [full disclosure](http://en.wikipedia.org/wiki/Full_disclosure), and [fair dealing](http://en.wikipedia.org/wiki/Fair_dealing) for all. [[30]](http://en.wikipedia.org/wiki/Harry_Markopolos#cite_note-29) The SEC must establish a unit to accept whistleblower tips, and move its activity closer to financial centers away from [Washington, D.C.](http://en.wikipedia.org/wiki/Washington,_D.C.)[[12]](http://en.wikipedia.org/wiki/Harry_Markopolos#cite_note-WSJ1-11)His testimony included a reference to another $1 billion Ponzi fraud, which he shared the following day with SEC [Inspector General](http://en.wikipedia.org/wiki/Inspector_General) [H. David Kotz](http://en.wikipedia.org/wiki/H._David_Kotz), who gave the tips to SEC Chairman [Mary Schapiro](http://en.wikipedia.org/wiki/Mary_Schapiro). [[31]](http://en.wikipedia.org/wiki/Harry_Markopolos#cite_note-30)[[32]](http://en.wikipedia.org/wiki/Harry_Markopolos#cite_note-NYTimes3-31) He also disclosed information regarding a dozen as-yet-unknown foreign Madoff [feeder funds](http://en.wikipedia.org/wiki/Feeder_fund), “hiding in the weeds” in Europe, whose silent victims likely included [Russian mobsters](http://en.wikipedia.org/wiki/Russian_Mafia) and [Latin American](http://en.wikipedia.org/wiki/Latin_American) [drug cartels](http://en.wikipedia.org/wiki/Drug_cartels), “dirty money” investors.[[32]](http://en.wikipedia.org/wiki/Harry_Markopolos#cite_note-NYTimes3-31) Markopolos remarked that European royal families had also lost assets.[[24]](http://en.wikipedia.org/wiki/Harry_Markopolos#cite_note-Bloomberg1-23)” [↑](#endnote-ref-414)
415. <http://en.wikipedia.org/wiki/Kray_twins>

     “As West End [nightclub](http://en.wikipedia.org/wiki/Nightclub) owners they mixed with prominent entertainers including [Diana Dors](http://en.wikipedia.org/wiki/Diana_Dors), [Frank Sinatra](http://en.wikipedia.org/wiki/Frank_Sinatra), [Judy Garland](http://en.wikipedia.org/wiki/Judy_Garland) and [politicians](http://en.wikipedia.org/wiki/Politician). The Krays were highly respected within their social environment, and in the 1960s they became celebrities in their own right being photographed by [David Bailey](http://en.wikipedia.org/wiki/David_Bailey_%28photographer%29) and interviewed on television.” [↑](#endnote-ref-415)
416. <http://www.businessweek.com/magazine/content/03_20/b3833128.htm> [↑](#endnote-ref-416)
417. <http://en.wikipedia.org/wiki/Blogosphere>

     “Sites such as [Technorati](http://en.wikipedia.org/wiki/Technorati), [BlogPulse](http://en.wikipedia.org/wiki/BlogPulse), [Tailrank](http://en.wikipedia.org/wiki/Tailrank.com), and [BlogScope](http://en.wikipedia.org/wiki/BlogScope) track the interconnections between bloggers. Taking advantage of [hypertext](http://en.wikipedia.org/wiki/Hypertext) links which act as markers for the subjects the bloggers are discussing, these sites can follow a piece of conversation as it moves from blog to blog. These also can help information researchers study how fast a [meme](http://en.wikipedia.org/wiki/Meme) spreads through the blogosphere, to determine which sites are the most important for gaining early recognition.[[7]](http://en.wikipedia.org/wiki/Blogosphere#cite_note-6) Sites also exist to track specific blogospheres, such as those related by a certain genre, culture, subject matter or geopolitical location.” [↑](#endnote-ref-417)
418. <http://en.wikipedia.org/wiki/Demographics>

     “**Demographics** or **demographic data** are the characteristics of a [human](http://en.wikipedia.org/wiki/Human) [population](http://en.wikipedia.org/wiki/Population). These types of data are used widely in [sociology](http://en.wikipedia.org/wiki/Sociology), [public policy](http://en.wikipedia.org/wiki/Public_policy), and [marketing](http://en.wikipedia.org/wiki/Marketing). Commonly used demographics include gender, [race](http://en.wikipedia.org/wiki/Race_(classification_of_human_beings)), age, income, disabilities, mobility (in terms of travel time to work or number of vehicles available), educational attainment, home ownership, employment status, and even location. *Demographic trends* describe the changes in demographics in a population over time (for example, the average age of a population may increase or decrease over time). Both distributions and trends of values within a demographic variable are of interest.” [↑](#endnote-ref-418)
419. <http://en.wikipedia.org/wiki/Louis_Theroux>

     “The sixth in the series aired on 30 November 2008, entitled *Law and Disorder in Philadelphia*. In this episode Louis spent some time with the [Philadelphia Police Department](http://en.wikipedia.org/wiki/Philadelphia_Police_Department) as they patrolled one of the most dangerous areas of the city.” [↑](#endnote-ref-419)
420. |  |  |
     | --- | --- |
     | <http://en.wikipedia.org/wiki/Fiasco_%28book%29>  “…strategy. That is a grand-sounding word, and it is frequently misused by laymen as a synonym for tactics. In fact, strategy has a very different and quite simple meaning that flows from just one short set of questions. Who are we, and what are we ultimately trying to do here? How will we do it, and what resources and means will we employ in doing it? The four answers give rise to one’s strategy. Ideally, one’s tactics will then follow from them – that is, this is who we are, this is the outcome we wish to achieve, this is how we aim to do it, and this is what we will use to do it. But addressing the questions well can be surprisingly difficult, and if the answers are incorrect or incomplete, or the goals listed not reachable, then the consequences can be disastrous.” – Thomas Ricks, Fiasco | **”** |

     [↑](#endnote-ref-420)
421. <http://en.wikipedia.org/wiki/Mahdi_Army>

     “The Mahdi Army forces began an offensive in [Najaf](http://en.wikipedia.org/wiki/Najaf), [Kufa](http://en.wikipedia.org/wiki/Kufa), [Kut](http://en.wikipedia.org/wiki/Kut), and Sadr City, seizing control of public buildings and police stations while clashing with coalition forces. The militants gained partial control of [Karbala](http://en.wikipedia.org/wiki/Karbala) after fighting there. Other coalition forces came under attack in [Nasiriyah](http://en.wikipedia.org/wiki/Nasiriyah), [Amarah](http://en.wikipedia.org/wiki/Amarah) and [Basra](http://en.wikipedia.org/wiki/Basra). Najaf and Kufa were quickly seized after a few firefights with Spanish troops, and Kut was seized after clashes with Ukrainian troops soon afterwards. After sporadic clashes, coalition forces temporarily suppressed most militia activity in Nasiriyah, Amarah, and Basra. Mahdi rebels expelled Iraqi police from three police stations and ambushed U.S forces in Sadr City, killing seven U.S troops and wounding several more. U.S forces subsequently regained control of the police stations after running firefights with the fighters, killing dozens of Mahdi militiamen. Mahdi Army members still maintained some influence over many of the slum areas of Sadr City, however. On April 16, Kut was retaken by US forces, and several dozen Mahdi Army members were killed in the battle. However, the area around Najaf and Kufa along with Karbala remained under the control of Sadr's forces. Sadr himself was believed to be in Najaf. Coalition troops cordoned off Najaf with 2500 troops, but reduced the number of forces to pursue negotiations with the Mahdi Army. At the beginning of May, coalition forces estimated that there were 200-500 militants still present in Karbala, 300-400 in Diwaniyah, an unknown number still left in Amarah and Basra, and 1,000-2,000 still in the Najaf-Kufa region. On May 4, coalition forces began a counter-offensive to eliminate Mahdi Army in southern Iraq following a breakdown in negotiations. The first wave began with simultaneous raids in Karbala and [Diwaniyah](http://en.wikipedia.org/wiki/Diwaniyah) on militia forces, followed by a second wave on May 5 in Karbala and more attacks that seized the governor's office in Najaf on May 6. 86 militiamen were estimated killed in the fighting along with 4 U.S soldiers. Several high ranking militia commanders were also killed in a separate raid by US [Special Operations](http://en.wikipedia.org/wiki/Special_Operations) units. On May 8, U.S forces launched a follow-up offensive into Karbala, launching a two-pronged attack into the city. U.S tanks also launched an incursion into Sadr City. At the same time, perhaps as a diversionary tactic, hundreds of Mahdi Army members swept through Basra, firing on British patrols and seizing parts of the city. 2 militants were killed and several British troops were wounded.” [↑](#endnote-ref-421)
422. <http://mydd.com/users/ralphlopez/posts/why-do-men-join-the-taliban> [↑](#endnote-ref-422)
423. <http://en.wikipedia.org/wiki/Cold_war>

     “Nationalist movements in some countries and regions, notably [Guatemala](http://en.wikipedia.org/wiki/Guatemala), [Indonesia](http://en.wikipedia.org/wiki/Indonesia) and [Indochina](http://en.wikipedia.org/wiki/Indochina) were often allied with communist groups, or perceived in the West to be allied with communists.[[71]](http://en.wikipedia.org/wiki/Cold_war#cite_note-Karabell-70) In this context, the United States and the Soviet Union increasingly competed for influence by proxy in the Third World as [decolonization](http://en.wikipedia.org/wiki/Decolonization) gained momentum in the 1950s and early 1960s;[[128]](http://en.wikipedia.org/wiki/Cold_war#cite_note-127) additionally, the Soviets saw continuing losses by imperial powers as presaging the eventual victory of their ideology.[[129]](http://en.wikipedia.org/wiki/Cold_war#cite_note-128)

     The United States made use of the [Central Intelligence Agency](http://en.wikipedia.org/wiki/Central_Intelligence_Agency) (CIA) to do away with a string of unfriendly Third World governments and to support allied ones.[[71]](http://en.wikipedia.org/wiki/Cold_war#cite_note-Karabell-70) In 1953, President Eisenhower's Central Intelligence Agency implemented [Operation Ajax](http://en.wikipedia.org/wiki/Operation_Ajax), a covert operation aimed at the overthrow of the Iranian prime minister, [Mohammad Mosaddegh](http://en.wikipedia.org/wiki/Mohammad_Mosaddegh). The popularly-elected and non-aligned Mosaddegh had been a Middle Eastern nemesis of Britain since nationalizing the British-owned [Anglo-Iranian Oil Company](http://en.wikipedia.org/wiki/Anglo-Iranian_Oil_Company) in 1951. Churchill told the United States that Mosaddegh was "increasingly turning towards communism" and was moving Iran towards the Soviet sphere.[[130]](http://en.wikipedia.org/wiki/Cold_war#cite_note-129)[[131]](http://en.wikipedia.org/wiki/Cold_war#cite_note-130)[[132]](http://en.wikipedia.org/wiki/Cold_war#cite_note-131)[[133]](http://en.wikipedia.org/wiki/Cold_war#cite_note-132) The pro-Western [shah](http://en.wikipedia.org/wiki/Shah), [Mohammad Reza Pahlavi](http://en.wikipedia.org/wiki/Mohammad_Reza_Pahlavi), assumed control as an [autocratic](http://en.wikipedia.org/wiki/Autocratic) [monarch](http://en.wikipedia.org/wiki/Monarch).[[134]](http://en.wikipedia.org/wiki/Cold_war#cite_note-133) The shah's policies included the banning of the communist [Tudeh Party](http://en.wikipedia.org/wiki/Tudeh_Party) and general suppression of political dissent by [SAVAK](http://en.wikipedia.org/wiki/SAVAK), the shah's domestic security and intelligence agency.” [↑](#endnote-ref-423)
424. <http://en.wikipedia.org/wiki/Prisoner%27s_dilemma>

     “If we assume that each player cares only about minimizing his or her own time in jail, then the prisoner's dilemma forms a non-[zero-sum](http://en.wikipedia.org/wiki/Zero-sum) game in which two players may each either cooperate with or defect from (betray) the other player. In this game, as in most game theory, the only concern of each individual player (prisoner) is maximizing his or her own payoff, without any concern for the other player's payoff. The unique equilibrium for this game is a [Pareto-suboptimal](http://en.wikipedia.org/wiki/Pareto_efficiency) solution, that is, rational choice leads the two players to both play *defect*, even though each player's individual reward would be greater if they both played cooperatively. In the classic form of this game, cooperating is [strictly dominated](http://en.wikipedia.org/wiki/Dominance_%28game_theory%29) by defecting, so that the only possible [equilibrium](http://en.wikipedia.org/wiki/Nash_equilibrium) for the game is for all players to defect. No matter what the other player does, one player will always gain a greater payoff by playing defect. Since in any situation playing defect is more beneficial than cooperating, all [rational](http://en.wikipedia.org/wiki/Perfect_rationality) players will play defect, all things being equal. In the **iterated prisoner's dilemma**, the game is [played repeatedly](http://en.wikipedia.org/wiki/Repeated_game). Thus each player has an opportunity to punish the other player for previous non-cooperative play. If the number of steps is known by both players in advance, economic theory says that the two players should defect again and again, no matter how many times the game is played. However, this analysis fails to predict the behavior of human players in a real iterated prisoners dilemma situation, and it also fails to predict the optimum algorithm when computer programs play in a tournament. Only when the players play an indefinite or random number of times can cooperation be an equilibrium, technically a [subgame perfect equilibrium](http://en.wikipedia.org/wiki/Subgame_perfect_equilibrium) meaning that both players defecting always remains an equilibrium and there are many other equilibrium outcomes. In this case, the incentive to defect can be overcome by the threat of punishment. In casual usage, the label "prisoner's dilemma" may be applied to situations not strictly matching the formal criteria of the classic or iterative games, for instance, those in which two entities could gain important benefits from cooperating or suffer from the failure to do so, but find it merely difficult or expensive, not necessarily impossible, to coordinate their activities to achieve cooperation.” [↑](#endnote-ref-424)
425. <http://en.wikipedia.org/wiki/Pogrom>

     “The trigger for these pogroms was the [assassination of Tsar Alexander II](http://en.wikipedia.org/wiki/Alexander_II_of_Russia#Assassination), after which rumours were spread blaming "the Jews."[[19]](http://en.wikipedia.org/wiki/Pogrom#cite_note-18) The extent to which the Russian press was responsible for encouraging perceptions of the assassination as a Jewish act has been disputed[[20]](http://en.wikipedia.org/wiki/Pogrom" \l "cite_note-19). Local economic conditions are thought to have contributed significantly to the rioting, especially with regard to the participation of the business competitors of local Jews and the participation of railroad workers, and it has been argued that this was actually more important than rumours of Jewish responsibility for the death of the Tsar[[21]](http://en.wikipedia.org/wiki/Pogrom" \l "cite_note-Aronson1980-20). These rumours, however, were clearly of some importance, if only as a trigger. Contrary to rumour, fourteen of the fifteen assassins were born into Christian homes, and one of their close associates, [Gesya Gelfman](http://en.wikipedia.org/wiki/Gesya_Gelfman), was born into a Jewish home. Nonetheless, the assassination inspired "retaliatory" attacks by Christians on Jewish communities. A much bloodier wave of pogroms broke out from 1903–1906, leaving thousands of Jews dead and many more wounded, as the Jews took to arms to defend their families and property from the attackers. The 1905 pogrom of Jews in [Odessa](http://en.wikipedia.org/wiki/Odessa) was the most serious pogrom of the period, with reports of up to 2,500 Jews killed[[22]](http://en.wikipedia.org/wiki/Pogrom" \l "cite_note-21).” [↑](#endnote-ref-425)
426. <http://en.wikipedia.org/wiki/Six-Day_War>

     “The **Six-Day War** of June 5–10, 1967 (also known as the June War) was a war between [Israel](http://en.wikipedia.org/wiki/Israel) and the neighboring states of [Egypt](http://en.wikipedia.org/wiki/Egypt), [Jordan](http://en.wikipedia.org/wiki/Jordan), and [Syria](http://en.wikipedia.org/wiki/Syria). The Arab states of [Iraq](http://en.wikipedia.org/wiki/Iraq), [Saudi Arabia](http://en.wikipedia.org/wiki/Saudi_Arabia), [Sudan](http://en.wikipedia.org/wiki/Sudan), [Tunisia](http://en.wikipedia.org/wiki/Tunisia), [Morocco](http://en.wikipedia.org/wiki/Morocco) and [Algeria](http://en.wikipedia.org/wiki/Algeria) also contributed troops and arms.[[1]](http://en.wikipedia.org/wiki/Six-Day_War#cite_note-krauthammer-0) At the war's end, Israel had gained control of the [Gaza Strip](http://en.wikipedia.org/wiki/Gaza_Strip), the [West Bank](http://en.wikipedia.org/wiki/West_Bank), [East Jerusalem](http://en.wikipedia.org/wiki/East_Jerusalem), the [Golan Heights](http://en.wikipedia.org/wiki/Golan_Heights) and the [Sinai Peninsula](http://en.wikipedia.org/wiki/Sinai_Peninsula). The results of the war affect the [geopolitics](http://en.wikipedia.org/wiki/Geopolitics) of the region to this day.” [↑](#endnote-ref-426)
427. <http://en.wikipedia.org/wiki/Cannabis_%28drug%29>

     “Cannabis used medically does have several well-documented beneficial effects. Among these are: the amelioration of [nausea](http://en.wikipedia.org/wiki/Nausea) and [vomiting](http://en.wikipedia.org/wiki/Vomiting), stimulation of [hunger](http://en.wikipedia.org/wiki/Hunger) in [chemotherapy](http://en.wikipedia.org/wiki/Chemotherapy) and [AIDS](http://en.wikipedia.org/wiki/AIDS) patients, lowered intraocular eye pressure (shown to be effective for treating [glaucoma](http://en.wikipedia.org/wiki/Glaucoma)), as well as general [analgesic](http://en.wikipedia.org/wiki/Analgesic) effects (pain reliever).[b[›]](http://en.wikipedia.org/wiki/Cannabis_%28drug%29#cnote_b)Less confirmed individual studies also have been conducted indicating cannabis to be beneficial to a gamut of conditions running from [multiple sclerosis](http://en.wikipedia.org/wiki/Multiple_sclerosis) to [depression](http://en.wikipedia.org/wiki/Major_depressive_disorder). Synthesized [cannabinoids](http://en.wikipedia.org/wiki/Cannabinoids) are also sold as prescription drugs, including Marinol ([dronabinol](http://en.wikipedia.org/wiki/Dronabinol) in the United States and Germany) and Cesamet ([nabilone](http://en.wikipedia.org/wiki/Nabilone) in Canada, Mexico, The United States and The United Kingdom).[b[›]](http://en.wikipedia.org/wiki/Cannabis_%28drug%29#cnote_b)Currently, the [U.S. Food and Drug Administration](http://en.wikipedia.org/wiki/Food_and_Drug_Administration_%28United_States%29) (FDA) has not approved smoked marijuana for any condition or disease in the United States, largely because good quality scientific evidence for its use from U.S. studies is lacking; however, a major barrier to acquiring the necessary evidence is the lack of federal funding for this kind of research.[[57]](http://en.wikipedia.org/wiki/Cannabis_%28drug%29#cite_note-56) Regardless, thirteen states have legalized cannabis for medical use.[[58]](http://en.wikipedia.org/wiki/Cannabis_%28drug%29#cite_note-57)[[59]](http://en.wikipedia.org/wiki/Cannabis_%28drug%29#cite_note-58) [Canada](http://en.wikipedia.org/wiki/Canada), [Spain](http://en.wikipedia.org/wiki/Spain), [The Netherlands](http://en.wikipedia.org/wiki/Drug_policy_of_the_Netherlands) and [Austria](http://en.wikipedia.org/wiki/Austria) have also legalized cannabis for medicinal use.[[60]](http://en.wikipedia.org/wiki/Cannabis_%28drug%29#cite_note-59)[[61]](http://en.wikipedia.org/wiki/Cannabis_%28drug%29#cite_note-60)” [↑](#endnote-ref-427)
428. <http://en.wikipedia.org/wiki/Take_Back_the_Night>

     “While the march began as a way to protest the [violence](http://en.wikipedia.org/wiki/Violence) that women experienced while walking in public at night, the purpose of these marches was to speak out against this violence and raise community awareness as a preventive measure against future violence. The movement has since grown to encompass all forms of violence against all persons, though violence against women is still the movement's main focus. The word *night* was originally meant to be taken literally to express the fear that many women feel during the night but has since changed to symbolize a fear of violence in general. This helps the movement incorporate other feminist concerns such as [domestic violence](http://en.wikipedia.org/wiki/Domestic_violence) and [sexual abuse](http://en.wikipedia.org/wiki/Sexual_abuse) within the home. The march has grown from a widely publicized event taking place in major cities to an event happening internationally from large metropolitan areas to small college campuses, all advocating for the right of everyone to feel safe from violence. Women are often told to be extra careful and take precautions when going out at night. In some parts of the world, even today, women are not allowed out at night. So when women struggle for freedom, we must start at the beginning by fighting for freedom of movement, which we have not had and do not now have. We must recognize that freedom of movement is a precondition for anything else. It comes before freedom of speech in importance because without it freedom of speech cannot in fact exist. – [*Source*](http://www.nostatusquo.com/ACLU/dworkin/WarZoneChaptIb.html)

     *, The Night and Danger by Andrea Dworkin”* [↑](#endnote-ref-428)
429. <http://en.wikipedia.org/wiki/Five-Year_Plans_for_the_National_Economy_of_the_Soviet_Union>

     “Each five-year plan dealt with all aspects of development: capital goods (those used to produce other goods, like coal, iron, and machinery), consumer goods (e.g. chairs, carpets, and irons), agriculture, transportation, communications, health, education, and welfare. However, the emphasis varied from plan to plan, although generally the emphasis was on power (electricity), capital goods, and agriculture. There were base and optimum targets. Efforts were made, especially in the Third Plan, to move industry eastward to make it safer from attack during [World War II](http://en.wikipedia.org/wiki/World_War_II). Because meeting the goals of the five-year plans had top priority as a measure of progress toward a communist utopia, official lying about productivity became part of the economic system. The attempt to turn an illiterate peasant society into an advanced industrial economy in a single decade brought intense suffering, but hardship was tolerated because, as one worker put it, Soviet workers believed in the need for "constant struggle, struggle, and struggle" to achieve a Communist society (Hunt 845-46). These five-year plans outlined programs for huge increases in the output of industrial goods. Stalin warned that without an end to economic backwardness "the advanced countries...will crush us." [↑](#endnote-ref-429)
430. <http://en.wikipedia.org/wiki/Triumph_of_the_Will>

     |  |  |  |  |
     | --- | --- | --- | --- |
     | “ | | [Triumph of the Will is] the supreme visualisation in cinematic form of the Nazi political religion. Its artistry, reinforced by the grandeur and power of the Nuremberg decor, is designed to sweep us into [empathetic](http://en.wikipedia.org/wiki/Empathy) identification with Hitler as a kind of human [deity](http://en.wikipedia.org/wiki/Deity). The massive spectacle of regimentation, unity and loyalty to the Führer powerfully conveys the message that the Nazi movement was the living symbol of the reborn German nation. |  |
     |  | | — Professor Robert Wistrich[[4]](http://en.wikipedia.org/wiki/Triumph_of_the_Will#endnote_FilmEducationb) |  |
     |  | This morning's opening meeting... was more than a gorgeous show, it also had something of the [mysticism](http://en.wikipedia.org/wiki/Mysticism) and religious fervor of an [Easter](http://en.wikipedia.org/wiki/Easter) or [Christmas](http://en.wikipedia.org/wiki/Christmas) [Mass](http://en.wikipedia.org/wiki/Mass_%28liturgy%29) in a great [Gothic](http://en.wikipedia.org/wiki/Gothic_architecture) cathedral. | |  |
     |  | — Reporter [William Shirer](http://en.wikipedia.org/wiki/William_Shirer)[[16]](http://en.wikipedia.org/wiki/Triumph_of_the_Will#endnote_Gavina) | |  |

     The primary religion in Germany before the Second World War was [Christianity](http://en.wikipedia.org/wiki/Christianity). With the primary sects being [Roman Catholic](http://en.wikipedia.org/wiki/Roman_Catholic) and [Protestant](http://en.wikipedia.org/wiki/Protestant), the Christian views in this movie are clearly meant to allow the movie to better connect with the intended audience.[[5]](http://en.wikipedia.org/wiki/Triumph_of_the_Will#cite_note-4) It would seem very counterproductive to make a movie with [Muslim](http://en.wikipedia.org/wiki/Muslim) views and connotations and show it to a predominantly Christian society in order to gain their love and support.[[6]](http://en.wikipedia.org/wiki/Triumph_of_the_Will#cite_note-5) Religion is a major theme in *Triumph*. The film opens with a Point Of View coming godlike out of the skies to alight on twin cathedral spires. It contains many scenes of church bells ringing, and individuals in a state of near-religious fervor, as well as a prominent shot of Reich Bishop [Ludwig Müller](http://en.wikipedia.org/wiki/Ludwig_M%C3%BCller_%28theologian%29) standing in his [vestments](http://en.wikipedia.org/wiki/Vestment) among high-ranking Nazis. It is probably not a coincidence that the final parade of the film was held in front of the Nuremberg Frauenkirche. In his final speech in the film, Hitler also directly compares the Nazi party to a [holy order](http://en.wikipedia.org/wiki/Holy_Orders), and the [consecration](http://en.wikipedia.org/wiki/Consecration) of new party flags by having Hitler touch them to the "blood banner" has obvious religious overtones. Hitler himself is portrayed in a [messianic](http://en.wikipedia.org/wiki/God_complex) manner, from the opening where he descends from the clouds in a plane, to his drive through Nuremberg where even a cat stops what it is doing to watch him, to the many scenes where the camera films from below and looks up at him,[[7]](http://en.wikipedia.org/wiki/Triumph_of_the_Will#cite_note-nysun-6) as Hitler-standing on his podium-will issue a command to hundreds of thousands of followers. The audience happily complies in unison.[[7]](http://en.wikipedia.org/wiki/Triumph_of_the_Will#cite_note-nysun-6) [Frank P. Tomasulo](http://en.wikipedia.org/wiki/Frank_P._Tomasulo) comments that in *Triumph*, "Hitler is cast as a veritable German Messiah who will save the nation, if only the citizenry will put its [destiny](http://en.wikipedia.org/wiki/Destiny) in his hands."[[9]](http://en.wikipedia.org/wiki/Triumph_of_the_Will#endnote_Butcherb) [↑](#endnote-ref-430)
431. <http://en.wikipedia.org/wiki/Deep_Throat>

     “A pair of young *Washington Post* reporters, Bob Woodward and Carl Bernstein, wrote the coverage of the story over a period of two years. The scandal eventually was shown to involve a variety of legal violations, and it implicated many members of the Nixon White House. With increasing pressure from the courts and the Senate, President Nixon eventually became the first and only U.S. President to resign, narrowly avoiding [impeachment](http://en.wikipedia.org/wiki/Impeachment) by the [House of Representatives](http://en.wikipedia.org/wiki/United_States_House_of_Representatives). Woodward and Bernstein's stories contained information that was remarkably similar to the information uncovered by FBI investigators. This was a journalistic advantage not enjoyed by any other journalists at the time. In their later book, *All the President's Men*, Woodward and Bernstein claimed this information came from a single anonymous informant dubbed "Deep Throat". It was later revealed, and confirmed by Woodward and Bernstein, that Deep Throat was FBI Deputy Director W. Mark Felt.

     Woodward had befriended Felt years earlier, and had consulted with him on stories before the Watergate scandal. Woodward, Bernstein, and others credit the information provided by Deep Throat with being instrumental in ensuring the success of the investigation into the Watergate Scandal.” [↑](#endnote-ref-431)
432. <http://en.wikipedia.org/wiki/Yellow_journalism>

     “Pulitzer and Hearst are often credited (or blamed) for drawing the nation into the [Spanish-American War](http://en.wikipedia.org/wiki/Spanish-American_War) with sensationalist stories or outright lying.[[*citation needed*](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed)] However, the vast majority of Americans did not live in New York City, and the decision makers who did live there probably relied more on staid newspapers like the *Times,* *The Sun* or the *Post.* The most famous example of the exaggeration is the apocryphal story that artist [Frederic Remington](http://en.wikipedia.org/wiki/Frederic_Remington) telegrammed Hearst to tell him all was quiet in Cuba and "There will be no war." Hearst responded "Please remain. You furnish the pictures and I'll furnish the war." The story (a version of which appears in the Hearst-inspired [Orson Welles](http://en.wikipedia.org/wiki/Orson_Welles) [film](http://en.wikipedia.org/wiki/Film) [*Citizen Kane*](http://en.wikipedia.org/wiki/Citizen_Kane)) first appeared in the memoirs of reporter [James Creelman](http://en.wikipedia.org/wiki/James_Creelman) in 1901, and there is no other source for it.

     But Hearst became a [war hawk](http://en.wikipedia.org/wiki/War_hawk) after a rebellion broke out in Cuba in 1895. Stories of Cuban virtue and Spanish brutality soon dominated his front page. While the accounts were of dubious accuracy, the newspaper readers of the 19th century did not expect, or necessarily want, his stories to be pure nonfiction. Historian Michael Robertson has said that "Newspaper reporters and readers of the 1890s were much less concerned with distinguishing among fact-based reporting, opinion and literature."[[16]](http://en.wikipedia.org/wiki/Yellow_journalism#cite_note-Nasaw_p79quote-15) [↑](#endnote-ref-432)
433. <http://en.wikipedia.org/wiki/Leibniz_and_Newton_calculus_controversy>

     “The [**calculus**](http://en.wikipedia.org/wiki/Calculus) **controversy** was an argument between seventeenth-century [mathematicians](http://en.wikipedia.org/wiki/Mathematician) [Isaac Newton](http://en.wikipedia.org/wiki/Isaac_Newton) and [Gottfried Leibniz](http://en.wikipedia.org/wiki/Gottfried_Leibniz) (begun or fomented in part by their disciples and associates – see [Development of the quarrel](http://en.wikipedia.org/wiki/Leibniz_and_Newton_calculus_controversy#Development_of_the_quarrel) below) over who had first invented calculus. Newton claimed to have begun working on a form of the calculus (which he called "[the method of fluxions and fluents](http://en.wikipedia.org/wiki/Method_of_Fluxions)") in 1666, but did not publish it except as a minor annotation in the back of one of his publications decades later. (A relevant Newton manuscript of October 1666 is now published among his mathematical papers.[[1]](http://en.wikipedia.org/wiki/Leibniz_and_Newton_calculus_controversy#cite_note-0).) [Gottfried Leibniz](http://en.wikipedia.org/wiki/Gottfried_Leibniz) began working on his variant of the calculus in 1674, and in 1684 published his first paper employing it. [L'Hopital](http://en.wikipedia.org/wiki/Guillaume_de_l%27H%C3%B4pital) published a text on Leibniz's calculus in 1696 (in which he expressed recognition about Newton's 'Principia' of 1687, that Newton's work was 'nearly all about this calculus'.[[2]](http://en.wikipedia.org/wiki/Leibniz_and_Newton_calculus_controversy#cite_note-1696posn-1)) Meanwhile, Newton, though he explained his (geometrical) form of calculus in Section I of Book I of the 'Principia' of 1687,[[3]](http://en.wikipedia.org/wiki/Leibniz_and_Newton_calculus_controversy#cite_note-2) did not explain his eventual fluxional notation for the calculus in print until 1693 (in part) and 1704 (in full). While visiting [London](http://en.wikipedia.org/wiki/London) in 1676, Leibniz was shown at least one unpublished manuscript by Newton, raising the question as to whether or not Leibniz's work was actually based upon Newton's idea. It is a question that had been the cause of a major intellectual controversy over who first discovered calculus, one that began simmering in 1699 and broke out in full force in 1711.” [↑](#endnote-ref-433)
434. <http://en.wikipedia.org/wiki/Saint_Valentine%27s_Day_massacre>

     “On the morning of Thursday, February 14, 1929, [St. Valentine's Day](http://en.wikipedia.org/wiki/St._Valentine%27s_Day), five members of the [North Side Gang](http://en.wikipedia.org/wiki/North_Side_Gang), plus non-members Reinhardt H. Schwimmer and John May, were lined up against the rear inside wall of the garage of the SMC Cartage Company (2122 North Clark Street) in the [Lincoln Park](http://en.wikipedia.org/wiki/Lincoln_Park,_Chicago) neighborhood of Chicago's [North Side](http://en.wikipedia.org/wiki/Neighborhoods_of_Chicago). They were shot to death, possibly by members of Al Capone's gang, possibly by "outside talent" (gangsters from outside the city who would not be known to their victims), or a combination of both.

     Two of the shooters were dressed as Chicago police officers, and the others were dressed in long trenchcoats, according to witnesses who saw the "police" leading the other men at gunpoint out of the garage. When one of the dying men, [Frank Gusenberg](http://en.wikipedia.org/wiki/Frank_Gusenberg), was asked who shot him, he replied, "Nobody shot me" despite having 14 bullet wounds. Capone himself had arranged to be on vacation in [Florida](http://en.wikipedia.org/wiki/Florida). The St. Valentine's Massacre resulted from a plan devised by a member or members of the Capone gang to eliminate the [Polish](http://en.wikipedia.org/wiki/Poles)-[Irish](http://en.wikipedia.org/wiki/Irish_people) [Bugs Moran](http://en.wikipedia.org/wiki/Bugs_Moran).” [↑](#endnote-ref-434)
435. <http://en.wikipedia.org/wiki/Prohibition_in_the_United_States#Society>

     “Many [social problems](http://en.wikipedia.org/wiki/Social_issues_of_the_1920s) have been attributed to the Prohibition era. [Mafia](http://en.wikipedia.org/wiki/American_Mafia) groups limited their activities to gambling and theft until 1920, when organized [bootlegging](http://en.wikipedia.org/wiki/Rum-running) manifested in response to the effect of Prohibition.[[24]](http://en.wikipedia.org/wiki/Prohibition_in_the_United_States#cite_note-23) A profitable, often violent, black market for alcohol flourished. Powerful gangs corrupted law enforcement agencies, leading to [racketeering](http://en.wikipedia.org/wiki/Racket_(crime)). Stronger liquor surged in popularity because its potency made it more profitable to smuggle.

     To prevent bootleggers from using industrial ethyl alcohol to produce illegal beverages, the government ordered the [poisoning of industrial alcohols](http://en.wikipedia.org/wiki/Denatured_alcohol). In response, bootleggers hired chemists who successfully renatured the alcohol to make it drinkable. As a response, the Treasury Department required manufacturers to add more deadly poisons, including the particularly deadly [methyl alcohol](http://en.wikipedia.org/wiki/Methyl_alcohol). New York City medical examiners prominently opposed these policies because of the danger to human life. As many as 10,000 people died from drinking denatured alcohol before Prohibition ended.[[25]](http://en.wikipedia.org/wiki/Prohibition_in_the_United_States#cite_note-24)

     Making alcohol at home was very common during Prohibition. Stores sold grape concentrate with warning labels that listed the steps that should be avoided to prevent the juice from fermenting into wine. Home-distilled hard liquor was referred to as “bathtub gin” in northern cities, and [moonshine](http://en.wikipedia.org/wiki/Moonshine) in the rural areas of [North Carolina](http://en.wikipedia.org/wiki/North_Carolina), [South Carolina](http://en.wikipedia.org/wiki/South_Carolina), [Georgia](http://en.wikipedia.org/wiki/Georgia_(U.S._state)) and [Tennessee](http://en.wikipedia.org/wiki/Tennessee). Since selling privately distilled alcohol was illegal and bypassed taxation by the government, the law relentlessly pursued manufacturers.[[26]](http://en.wikipedia.org/wiki/Prohibition_in_the_United_States#cite_note-Communications.2C_Aug_1998-25) In response, the bootleggers in southern states started creating their own [souped-up](http://en.wikipedia.org/wiki/Hot_rod), stock-looking cars by enhancing their cars’ engines and suspensions to create a faster vehicle. Having a faster vehicle during Prohibition, they presumed, would improve their chances of outrunning and escaping agents of the [Bureau of Alcohol, Tobacco and Firearms](http://en.wikipedia.org/wiki/Bureau_of_Alcohol,_Tobacco,_Firearms_and_Explosives) (BATF), commonly called "revenue agents' or "revenooers". These cars became known as “moonshine runners” or "'shine runners".[[27]](http://en.wikipedia.org/wiki/Prohibition_in_the_United_States" \l "cite_note-26) [↑](#endnote-ref-435)
436. <http://cannabis.wikia.com/wiki/Amsterdam,_Netherlands>

     “Coffeeshops generally have two menu's: A drinks menu and a cannabis menu. A lot of coffeeshops will have quite an elaborate drinks menu that features various fruit juices (sometimes freshly squeezed), various kinds of tea and coffee, soft drinks and chocolate milk. As from late 2007, there are no more coffeeshops with a licence to sell [alcohol](http://en.wikipedia.org/wiki/alcohol).

     The quantity and quality of different kinds of weed and [hash](http://en.wikipedia.org/wiki/hashish) on sale differs between coffeeshops. Some shops feature only organic weeds, others feature a lot of imports, still others focus on many kinds of hashish. Some are expensive while others are cheap. There are certain kinds of weed (White Widow, Some kinds of haze) and hashish (Moroccan, (super) polm) that will be on sale practically everywhere and their prices give you a good idea of how 'expensive' the shop is on the whole. (for instance: White Widow (which is a great variety left from the nineties) should generally not be sold for more than €8 (8 [Euros](http://en.wikipedia.org/wiki/Euro)),- a gram and is normally priced around €7,- a gram).” [↑](#endnote-ref-436)
437. <http://www.newsweekly.com.au/articles/2000jun3_heroin.html> [↑](#endnote-ref-437)
438. <http://en.wikipedia.org/wiki/Pinkerton_National_Detective_Agency>

     “During the labor unrest of the late 19th century, businessmen hired Pinkerton agents to [infiltrate unions](http://en.wikipedia.org/wiki/Labor_spies), and as guards to keep [strikers](http://en.wikipedia.org/wiki/Strike_action) and suspected [unionists](http://en.wikipedia.org/wiki/Trade_union) out of factories. The best known such confrontation was the [Homestead Strike](http://en.wikipedia.org/wiki/Homestead_Strike) of 1892, in which Pinkerton agents were called in to enforce the [strikebreaking](http://en.wikipedia.org/wiki/Strikebreaker) measures of [Henry Clay Frick](http://en.wikipedia.org/wiki/Henry_Clay_Frick), acting on behalf of [Andrew Carnegie](http://en.wikipedia.org/wiki/Andrew_Carnegie), who was abroad; the ensuing conflicts between Pinkerton agents and striking workers led to several deaths on both sides. The Pinkertons were also used as guards in coal, iron, and lumber disputes in [Illinois](http://en.wikipedia.org/wiki/Illinois), [Michigan](http://en.wikipedia.org/wiki/Michigan), [New York](http://en.wikipedia.org/wiki/New_York), and [Pennsylvania](http://en.wikipedia.org/wiki/Pennsylvania), as well as the [Great Railroad Strike of 1877](http://en.wikipedia.org/wiki/Great_Railroad_Strike_of_1877).” [↑](#endnote-ref-438)
439. <http://en.wikipedia.org/wiki/Strikebreaker>

     “In most European countries, strikebreakers are rarely used. Consequently, they are rarely if ever mentioned in most European national labor laws.[[2]](http://en.wikipedia.org/wiki/Strikebreaker#cite_note-HRW-1) As mentioned above, it is left to the [European Union](http://en.wikipedia.org/wiki/European_Union) member states to determine their own policies.[[7]](http://en.wikipedia.org/wiki/Strikebreaker#cite_note-MTEUPASP-6)

     * [Germany](http://en.wikipedia.org/wiki/Germany) has employment law that strongly protects worker rights, but trade unions and the right to strike are not regulated by statute. The Bundesarbeitsgericht (the [Federal Labor Court of Germany](http://en.wikipedia.org/wiki/Federal_Labor_Court_of_Germany)) and the Bundesverfassungsgericht (the [Federal Constitutional Court of Germany](http://en.wikipedia.org/wiki/Federal_Constitutional_Court_of_Germany)) have, however, issued a large number of rulings which essentially regulate trade union activities such as strikes. Work councils, for example, may not strike at all, while trade unions retain an almost unlimited ability to strike. The widespread use of work councils, however, channels most labor disputes and reduces the likelihood of strikes. Recent efforts to enact a comprehensive federal labor relations law which regulates strikes, lockouts and the use of strikebreakers failed.[[8]](http://en.wikipedia.org/wiki/Strikebreaker#cite_note-7)
     * [United Kingdom](http://en.wikipedia.org/wiki/United_Kingdom) laws permit strikebreaking, and courts have significantly restricted the right of unions to punish members who act as strikebreakers.[[9]](http://en.wikipedia.org/wiki/Strikebreaker#cite_note-8)”

     [↑](#endnote-ref-439)
440. <http://en.wikipedia.org/wiki/CIA_and_Contras_cocaine_trafficking_in_the_US>

     “On December 20, 1985, these and other charges were laid out in an [Associated Press](http://en.wikipedia.org/wiki/Associated_Press) article after an extensive investigation which included interviews with "officials from the [Drug Enforcement Administration](http://en.wikipedia.org/wiki/Drug_Enforcement_Administration) (DEA), [Customs Service](http://en.wikipedia.org/wiki/United_States_Customs_Service), [Federal Bureau of Investigation](http://en.wikipedia.org/wiki/Federal_Bureau_of_Investigation) (FBI) and Costa Rica's Public Security Ministry, as well as rebels and Americans who work with them." Five American Contra supporters who worked with the rebels confirmed the charges, noting that "two Cuban-Americans used armed rebel troops to guard cocaine at clandestine airfields in northern Costa Rica. They identified the Cuban-Americans as members of the 2506 Brigade, an anti-Castro group that participated in the [1961 Bay of Pigs attack on Cuba](http://en.wikipedia.org/wiki/Bay_of_Pigs_Invasion). Several also said they supplied information about the smuggling to U.S. investigators." One of the Americans "said that in one ongoing operation, the cocaine is unloaded from planes at rebel airstrips and taken to an Atlantic coast port where it is concealed on shrimp boats that are later unloaded in the Miami area."[[1]](http://en.wikipedia.org/wiki/CIA_and_Contras_cocaine_trafficking_in_the_US#cite_note-Robert_Parry_1985-0)On March 16, 1986, the [*San Francisco Examiner*](http://en.wikipedia.org/wiki/San_Francisco_Examiner) published a report on the "1983 seizure of 430 pounds of cocaine from a Colombian freighter" in San Francisco which indicated that a "cocaine ring in the San Francisco Bay area helped finance Nicaragua's Contra rebels." [Carlos Cabezas](http://en.wikipedia.org/w/index.php?title=Carlos_Cabezas_%28drug_trafficker%29&action=edit&redlink=1), convicted of conspiracy to traffic cocaine, said that the profits from his crimes "belonged to... the Contra revolution." He told the Examiner, "I just wanted to get the Communists out of my country." [Julio Zavala](http://en.wikipedia.org/w/index.php?title=Julio_Zavala&action=edit&redlink=1), also convicted on trafficking charges, said "that he supplied $500,000 to two Costa Rican-based Contra groups and that the majority of it came from cocaine trafficking in the San Francisco Bay area, Miami and New Orleans."[[3]](http://en.wikipedia.org/wiki/CIA_and_Contras_cocaine_trafficking_in_the_US#cite_note-2)Former CIA agent [David MacMichael](http://en.wikipedia.org/wiki/David_MacMichael) explained the inherent relationship between CIA activity in Latin America and drug trafficking: "Once you set up a covert operation to supply arms and money, it's very difficult to separate it from the kind of people who are involved in other forms of trade, and especially drugs. There is a limited number of planes, pilots and landing strips. By developing a system for supply of the Contras, the US built a road for drug supply into the US."[[4]](http://en.wikipedia.org/wiki/CIA_and_Contras_cocaine_trafficking_in_the_US#cite_note-3) [↑](#endnote-ref-440)
441. <http://en.wikipedia.org/wiki/The_Cove_%28film%29>

     “***The Cove*** is a 2009 American [documentary film](http://en.wikipedia.org/wiki/Documentary_film) that describes the annual killing of [dolphins](http://en.wikipedia.org/wiki/Dolphin) in a National Park at [Taiji, Wakayama](http://en.wikipedia.org/wiki/Taiji,_Wakayama), in Japan from an anti–dolphin-hunting campaigner's point of view.[[3]](http://en.wikipedia.org/wiki/The_Cove_%28film%29#cite_note-jt20090127-2)[[4]](http://en.wikipedia.org/wiki/The_Cove_%28film%29#cite_note-3) The film highlights the fact that the number of dolphins killed in the Taiji [dolphin hunting drive](http://en.wikipedia.org/wiki/Dolphin_drive_hunting) is several times greater than the number of whales killed in the Antarctic, and reports that 23,000 dolphins and [porpoises](http://en.wikipedia.org/wiki/Porpoise) are killed in Japan every year in the [country's whaling industry](http://en.wikipedia.org/wiki/Whaling_in_Japan). The migrating dolphins are herded into a hidden cove where they are netted and killed by means of spears and knives over the side of small fishing boats. According to the [Ministry of Agriculture, Forestry and Fisheries of Japan's](http://en.wikipedia.org/wiki/Ministry_of_Agriculture,_Forestry_and_Fisheries_%28Japan%29) most recent progress report 1,569 [cetaceans](http://en.wikipedia.org/wiki/Cetacea) in Taiji were killed during the 2007 season, including methods other than drive hunting. The Ministry claims that only 1,239 cetaceans were killed by [drive hunting](http://en.wikipedia.org/wiki/Dolphin_drive_hunting), and that a total of 13,080 cetaceans were killed throughout Japan in 2007.[[5]](http://en.wikipedia.org/wiki/The_Cove_%28film%29#cite_note-4)The film was directed by former [National Geographic](http://en.wikipedia.org/wiki/National_Geographic) photographer [Louie Psihoyos](http://en.wikipedia.org/wiki/Louie_Psihoyos).[[6]](http://en.wikipedia.org/wiki/The_Cove_%28film%29#cite_note-5) Portions were filmed secretly during 2007 using underwater microphones and high-definition cameras disguised as rocks.[[3]](http://en.wikipedia.org/wiki/The_Cove_%28film%29#cite_note-jt20090127-2)[[7]](http://en.wikipedia.org/wiki/The_Cove_%28film%29#cite_note-6) [↑](#endnote-ref-441)
442. BBC Documentary “This World 2007 Child Slavery with Rageh Omaar” [↑](#endnote-ref-442)
443. <http://en.wikipedia.org/wiki/Turkish_Abductions>

     “The **Turkish Abductions** ([Icelandic](http://en.wikipedia.org/wiki/Icelandic_language): ***Tyrkjaránið***) were a series of raids that took place in [Iceland](http://en.wikipedia.org/wiki/Iceland) between July 4 – July 19, 1627. Both [Austurland](http://en.wikipedia.org/wiki/Austurland) (the eastern edge of the country) and [Vestmannaeyjar](http://en.wikipedia.org/wiki/Vestmannaeyjar) (islands off the south coast) were raided by [Barbary pirates](http://en.wikipedia.org/wiki/Barbary_pirate) from the regency of [Algiers](http://en.wikipedia.org/wiki/Algiers). In 1627, [Jan Janszoon](http://en.wikipedia.org/wiki/Jan_Janszoon) hired a [Danish](http://en.wikipedia.org/wiki/Denmark) “slave” (most likely a crew member captured on a [Danish](http://en.wikipedia.org/wiki/Denmark) ship taken as a pirate prize) to pilot him and his men to [Iceland](http://en.wikipedia.org/wiki/Iceland), where they raided the Icelandic city [Reykjavík](http://en.wikipedia.org/wiki/Reykjav%C3%ADk). Initially they managed to steal only some salted fish and a few hides, so they decided to make the raid profitable by kidnapping potential slaves. The number of slaves kidnapped from Iceland is disputed, with figures as high as 400, and as low as 8.[[1]](http://en.wikipedia.org/wiki/Turkish_Abductions#cite_note-0)All those offering resistance were killed. The pirates took only young people and those in good physical condition. When the pirates invaded Vestmannaeyjar, some of the inhabitants and a minister left for the mountains of the island to hide in a cave. Later that day, the minister left the cave to look; some pirates saw him, killed him, and found the cave with all the people in it. Those captured were sold into [slavery](http://en.wikipedia.org/wiki/Slavery) on the [Barbary Coast](http://en.wikipedia.org/wiki/Barbary_Coast).” [↑](#endnote-ref-443)
444. <http://en.wikipedia.org/wiki/Kakapo>

     “The Kakapo is critically endangered; as of February 2010, only 122[[5]](http://en.wikipedia.org/wiki/Kakapo#cite_note-Kakapo_count-4) [living individuals are known](http://en.wikipedia.org/wiki/List_of_Kakapo),[[6]](http://en.wikipedia.org/wiki/Kakapo#cite_note-5) most of which have been given [names](http://en.wikipedia.org/wiki/List_of_Kakapo).[[7]](http://en.wikipedia.org/wiki/Kakapo#cite_note-6) The common ancestor of the Kakapo and the genus [*Nestor*](http://en.wikipedia.org/wiki/Nestor_%28genus%29) became isolated from the remaining parrot species when New Zealand broke off from [Gondwana](http://en.wikipedia.org/wiki/Gondwana), around 82 million years ago. Around 70 million years ago, the kakapo diverged from the genus *Nestor*.[[8]](http://en.wikipedia.org/wiki/Kakapo#cite_note-Wright-7)[[9]](http://en.wikipedia.org/wiki/Kakapo#cite_note-Grant-Mackie-8)[[10]](http://en.wikipedia.org/wiki/Kakapo#cite_note-deKloet-9) In the absence of [mammalian](http://en.wikipedia.org/wiki/Mammal) predators, it lost the ability to fly. Because of Polynesian and European colonisation and the introduction of [predators](http://en.wikipedia.org/wiki/Predator) such as [cats](http://en.wikipedia.org/wiki/Cat), [rats](http://en.wikipedia.org/wiki/Rat), and [stoats](http://en.wikipedia.org/wiki/Stoat),the Kakapo was almost wiped out. Conservation efforts began in the 1890s, but they were not very successful until the implementation of the Kakapo Recovery Plan in the 1980s. As of January 2009, surviving Kakapo are kept on two predator-free islands, [Codfish (Whenua Hou)](http://en.wikipedia.org/wiki/Codfish_Island) and [Anchor](http://en.wikipedia.org/wiki/Anchor_Island) islands, where they are closely monitored.[[11]](http://en.wikipedia.org/wiki/Kakapo#cite_note-10) Two large Fiordland islands, [Resolution](http://en.wikipedia.org/wiki/Resolution_Island,_New_Zealand) and [Secretary](http://en.wikipedia.org/wiki/Secretary_Island), have been the subject of large-scale [ecological restoration](http://en.wikipedia.org/wiki/Island_restoration) activities to prepare self-sustaining [ecosystems](http://en.wikipedia.org/wiki/Ecosystem) with suitable habitat for the Kakapo.” [↑](#endnote-ref-444)
445. Documentary “The Cove” [↑](#endnote-ref-445)
446. <http://en.wikipedia.org/wiki/Alpha_%28ethology%29>

     “In [social animals](http://en.wikipedia.org/wiki/Social_animal), the **alpha** is the individual in the community with the highest rank. Where one male and one female fulfill this role, they are referred to as the alpha pair (the term varies when several females fulfill this role – it is extremely rare among mammals for several males to fulfill this role with one female). Other animals in the same social group may exhibit deference or other symbolic signs of respect particular to their species towards the alpha.

     The alpha animals are given preference to be the first to eat and the first to mate; among some species they are the only animals in the pack allowed to mate. Other animals in the community are usually killed or ousted if they violate this rule.

     The term "alpha male" is sometimes applied to humans to refer to a man who is powerful or in a high social position. Alpha female is used to indicate a highest-status female.” [↑](#endnote-ref-446)
447. <http://money.cnn.com/2010/07/27/autos/saab_revival.fortune/> [↑](#endnote-ref-447)
448. The book “Gang Leader for a Day” [↑](#endnote-ref-448)
449. <http://en.wikipedia.org/wiki/Plato%27s_five_regimes>

     “The [Classical Greek](http://en.wikipedia.org/wiki/Classical_Greece) [philosopher](http://en.wikipedia.org/wiki/Philosophy) [Plato](http://en.wikipedia.org/wiki/Plato) discusses **five types of regimes**. They are [Aristocracy](http://en.wikipedia.org/wiki/Aristocracy), [Timocracy](http://en.wikipedia.org/wiki/Timocracy), [Oligarchy](http://en.wikipedia.org/wiki/Oligarchy), [Democracy](http://en.wikipedia.org/wiki/Democracy) and [Tyranny](http://en.wikipedia.org/wiki/Tyrant). Plato also assigns a man to each of these regimes to illustrate what they stand for. The tyrannical man would represent Tyranny for example. These five regimes progressively degenerate starting with Aristocracy at the top and Tyranny at the bottom. Each regime below aristocracy is worse than the one before. Aristocracy is considered the best.” [↑](#endnote-ref-449)
450. BBC Documentary “The trap, what happened to our dreams of freedom” [↑](#endnote-ref-450)
451. <http://en.wikipedia.org/wiki/Standard_Oil>

     “The U.S. Supreme Court ruled in 1911 that antitrust law required Standard Oil to be broken into smaller, independent companies. Among the "baby Standards" that still exist are [ExxonMobil](http://en.wikipedia.org/wiki/ExxonMobil) and [Chevron](http://en.wikipedia.org/wiki/Chevron_Corporation). If not for that court ruling, Standard Oil would be worth more than $1 trillion today.[[19]](http://en.wikipedia.org/wiki/Standard_Oil#cite_note-18) Whether the breakup of Standard Oil was beneficial is a matter of some controversy.[[20]](http://en.wikipedia.org/wiki/Standard_Oil#cite_note-19) Some economists believe that Standard Oil was not a monopoly, and also argue that the intense free market competition resulted in cheaper oil prices and more diverse petroleum products; in 1890, Rep. William Mason, arguing in favor of the Sherman Antitrust Act, said: "trusts have made products cheaper, have reduced prices; but if the price of oil, for instance, were reduced to one cent a barrel, it would not right the wrong done to people of this country by the *trusts* which have destroyed legitimate competition and driven honest men from legitimate business enterprise".[[21]](http://en.wikipedia.org/wiki/Standard_Oil#cite_note-20)The [Sherman Act](http://en.wikipedia.org/wiki/Sherman_Act) prohibits the restraint of trade. Defenders of Standard Oil insist that the company did not restrain trade; they were simply superior competitors. The federal courts ruled otherwise.” [↑](#endnote-ref-451)
452. <http://en.wikipedia.org/wiki/Caliphate>

     “The following excerpt from the [Qur'an](http://en.wikipedia.org/wiki/Qur%27an), known as the 'Istikhlaf Verse', is used by some to argue for a Quranic basis for Caliphate:

     " God has promised those of you who have attained to faith and do righteous deeds that, of a certainty, He will make them *Khulifa* on earth, even as He caused [some of] those who lived before them to become *Khulifa*; and that, of a certainty, He will firmly establish for them the religion which He has been pleased to bestow on them; and that, of a certainty, He will cause their erstwhile state of fear to be replaced by a sense of security [seeing that] they worship Me [alone], not ascribing divine powers to aught beside Me. But all who, after [having understood] this, choose to deny the truth - it is they, they who are truly iniquitous!"[24:55] (Surah Al-Nur, Verse 55)

     In the above verse the word *Khulifa* (the plural of *Khalifa*) has been variously translated as "successors" and "ones who accede to power". [↑](#endnote-ref-452)
453. <http://en.wikipedia.org/wiki/History_of_wolves_in_Yellowstone>

     “Once the wolves were gone the elk began to take over. Over the next few years conditions of Yellowstone National Park declined drastically. A team of scientists visiting Yellowstone in 1929 and 1933 reported, “The range was in deplorable conditions when we first saw it, and its deterioration has been progressing steadily since then.” By this time many biologists were worried about eroding land and plants dying off. The elk were multiplying inside the park and the trees just couldn't take it. The park service started trapping and moving the elk and when that was not effective, killing them. On and off for over 30 years, the killing of Yellowstone's elk continued. This method helped the land from worsening, but didn't improve the conditions. At times people would mention bringing wolves back to Yellowstone to help control the elk population. The people who managed Yellowstone were not eager to bring back wolves, especially after having been so successful at ridding the park of them. They continued to kill elk. In the late 60s local hunters began to complain to their congressmen that there were too few elk and the congressmen threatened to stop funding Yellowstone. In response to this, the of killing the elk was given up and the population of the elk increased exponentially. With the rapid increase in the number of elk, the condition of the land went quickly downhill. The woodlands were literally munched into oblivion. The destruction of the landscape affected many other animals. With the wolves gone the population of coyotes increased dramatically, which led to an extreme decrease in the number of pronghorn antelope. However, the increase in the elk population caused the most profound change in the ecosystem of Yellowstone after the wolves were gone.[[9]](http://en.wikipedia.org/wiki/History_of_wolves_in_Yellowstone#cite_note-8)” [↑](#endnote-ref-453)
454. Louis Theroux documentary “A place for pedophiles” [↑](#endnote-ref-454)
455. In the book “Gang Leader for a Day” [↑](#endnote-ref-455)
456. <http://en.wikipedia.org/wiki/Converso>

     “*Conversos* were subject to suspicion and harassment from both the community they were leaving and that which they were joining. Both Christians and Jews called them *tornadizo* (renegade). [Jaime I](http://en.wikipedia.org/wiki/James_I_of_Aragon), [Alfonso X](http://en.wikipedia.org/wiki/Alfonso_X_of_Castile) and [Juan I](http://en.wikipedia.org/wiki/John_I_of_Castile) passed laws forbidding the use of this epithet. This was part of a larger pattern of royal protection, as laws were promulgated to protect their property, forbid attempts to reconvert them, and regulate the behavior of the *conversos* themselves, preventing their cohabitation or even dining with Jews, lest they convert back. The conversos did not enjoy legal equality. [Alfonso VII](http://en.wikipedia.org/wiki/Alfonso_VII_of_Le%C3%B3n) prohibited the "recently converted" from holding office in [Toledo](http://en.wikipedia.org/wiki/Toledo,_Spain). They had both supporters and bitter opponents within the Christian secular and religious leadership. *Conversos* could be found in various roles within the [Iberian](http://en.wikipedia.org/wiki/Iberian_Peninsula) kingdoms, from [bishop](http://en.wikipedia.org/wiki/Bishop) to royal mistress, showing a degree of general acceptance, yet they became targets of occasional [pogroms](http://en.wikipedia.org/wiki/Pogrom) during times of extreme social tension (as during an epidemic and after an earthquake.) They were subject to the [Spanish](http://en.wikipedia.org/wiki/Spanish_Inquisition) and [Portuguese inquisitions](http://en.wikipedia.org/wiki/Portuguese_Inquisition).” [↑](#endnote-ref-456)
457. <http://en.wikipedia.org/wiki/Manichaeism>

     “When Christians first encountered Manichaeism, they deemed it a heresy, since it had originated in a heavily [Gnostic](http://en.wikipedia.org/wiki/Gnosticism) area of the [Persian Empire](http://en.wikipedia.org/wiki/Persian_empire). [Augustine of Hippo](http://en.wikipedia.org/wiki/Augustine_of_Hippo) (AD 354-430) converted to [Christianity](http://en.wikipedia.org/wiki/Christianity) from Manichaeism, in the year 387. This was shortly after the Roman Emperor [Theodosius I](http://en.wikipedia.org/wiki/Theodosius_I) had issued a decree of death for Manichaeans in AD 382 and shortly before he declared Christianity to be the only legitimate religion for the Roman Empire in 391. According to his [*Confessions*](http://en.wikipedia.org/wiki/Confessions_%28St._Augustine%29)*,* after nine or ten years of adhering to the Manichaean faith as a member of the group of "hearers", Augustine became a [Christian](http://en.wikipedia.org/wiki/Christian) and a potent adversary of Manichaeism (which he expressed in writing against his Manichaean opponent [Faustus of Mileve](http://en.wikipedia.org/wiki/Faustus_of_Mileve)), seeing their beliefs that knowledge was the key to salvation as too passive and not able to effect any change in one's life.[[12]](http://en.wikipedia.org/wiki/Manichaeism#cite_note-11)” [↑](#endnote-ref-457)
458. The book “Gang Leader for a Day” [↑](#endnote-ref-458)
459. <http://en.wikipedia.org/wiki/Three_strikes_law>

     “The practice of imposing longer prison sentences on repeat offenders versus first-time offenders, who commit the same crime is nothing new.[[2]](http://en.wikipedia.org/wiki/Three_strikes_law#cite_note-1) For example, [New York State](http://en.wikipedia.org/wiki/New_York_State) has a *Persistent Felony Offender* law that dates back to the late 19th Century. But such sentences were not compulsory in each case, and judges had much more discretion as to what term of incarceration should be imposed. The first true "three strikes" law, with virtually no exceptions provided was passed in 1993, when [Washington state](http://en.wikipedia.org/wiki/Washington_%28U.S._state%29) voters approved [Initiative 593](http://en.wikipedia.org/wiki/List_of_Washington_initiatives_to_the_people#1993). [California](http://en.wikipedia.org/wiki/California) passed its own in 1994, when that state voters passed **Proposition 184** by an overwhelming majority. 72% in favor and 28% against. The initiative proposed to the voters had the title of *Three Strikes and You're Out*, referring to [*de facto*](http://en.wikipedia.org/wiki/De_facto) life imprisonment after being convicted of three felonies.[[3]](http://en.wikipedia.org/wiki/Three_strikes_law#cite_note-2)” [↑](#endnote-ref-459)
460. <http://en.wikipedia.org/wiki/Law_of_excluded_middle>

     “In [logic](http://en.wikipedia.org/wiki/Logic), The **law of excluded middle**, also known as the **Principle of excluded middle** or **excluded middle** is the principle that for any [proposition](http://en.wikipedia.org/wiki/Proposition), either that proposition is true, or its [negation](http://en.wikipedia.org/wiki/Negation) is. The principle can be expressed in either a logical or a semantical form. The semantical form uses the non-logical word "true", as above. The [logical form](http://en.wikipedia.org/wiki/Logical_form) uses only logical expressions "either", "or"[[1]](http://en.wikipedia.org/wiki/Law_of_excluded_middle#cite_note-0) and can be expressed by the formula "*P* ∨ ¬*P*": "either P or not P", where "P" is [schematic](http://en.wikipedia.org/w/index.php?title=Schematic_variable&action=edit&redlink=1) [[2]](http://books.google.co.uk/books?id=-AokWhbILUIC&pg=PA217&lpg=PA217&dq=%22schematic+variable%22&source=bl&ots=_s9yxnxD9E&sig=U9RaxVMYnGE6Lc4sDbETm_QhrVc&hl=en&ei=3St0SpSVDqmNjAf3yKyoBg&sa=X&oi=book_result&ct=result&resnum=10#v=onepage&q=%22schematic%20variable%22&f=false) for any proposition such as 'snow is white', 'Socrates is running' and so on. The earliest known formulation of the principle is in the book [*On Interpretation*](http://en.wikipedia.org/wiki/On_Interpretation) by [Aristotle](http://en.wikipedia.org/wiki/Aristotle),[[2]](http://en.wikipedia.org/wiki/Law_of_excluded_middle#cite_note-1) where he says that of two [contradictory](http://en.wikipedia.org/wiki/Contradictory) propositions (i.e. where one proposition is the negation of the other) one must be true, and the other false.[[3]](http://en.wikipedia.org/wiki/Law_of_excluded_middle#cite_note-2) He also states it as a principle in the [*Metaphysics*](http://en.wikipedia.org/wiki/Metaphysics_%28Aristotle%29) book 3, saying that it is necessary in every case to affirm or deny,[[4]](http://en.wikipedia.org/wiki/Law_of_excluded_middle#cite_note-3) and that it is impossible that there should be anything between the two parts of a contradiction.[[5]](http://en.wikipedia.org/wiki/Law_of_excluded_middle#cite_note-4) [↑](#endnote-ref-460)
461. <http://en.wikipedia.org/wiki/Law_of_excluded_middle>

     “[Bertrand Russell](http://en.wikipedia.org/wiki/Bertrand_Russell) asserts a distinction between the "law of excluded middle" and the "law of noncontradiction". In [*The Problems of Philosophy*](http://en.wikipedia.org/wiki/The_Problems_of_Philosophy), he cites three "Laws of Thought" as more or less "self evident" or "a priori" in the sense of Aristotle:

     1. [Law of identity](http://en.wikipedia.org/wiki/Law_of_identity): 'Whatever is, is.'
     2. [Law of noncontradiction](http://en.wikipedia.org/wiki/Law_of_noncontradiction): 'Nothing can both be and not be.'
     3. **Law of excluded middle**: 'Everything must either be or not be.'

     [↑](#endnote-ref-461)
462. <http://en.wikipedia.org/wiki/Syllogism>

     |  |  |
     | --- | --- |
     | “**Form** | **Shorthand** |
     | All A is B | AaB |
     | No A is B | AeB |
     | Some A is B | AiB |
     | Some A is not B | AoB |

     This particular syllogistic form is dubbed BARBARA (see below) and can be written neatly as BaC,AaB -> AaC.

     The letter S is the subject of the conclusion, P is the predicate of the conclusion, and M is the middle term. The major premise links M with P and the minor premise links M with S. However, the middle term can be either the subject or the predicate of each premise where it appears. The differing positions of the major, minor, and middle terms gives rise to another classification of syllogisms known as the *figure*. Given that in each case the conclusion is S-P, the four figures are:

     |  |  |  |  |  |  |  |  |  |
     | --- | --- | --- | --- | --- | --- | --- | --- | --- |
     |  |  | *Figure 1* |  | *Figure 2* |  | *Figure 3* |  | *Figure 4* |
     | Major premise: |  | M–P |  | P–M |  | M–P |  | P–M |
     | Minor premise: |  | S–M |  | S–M |  | M–S |  | M–S |

     Putting it all together, there are 256 possible types of syllogisms (or 512 if the order of the major and minor premises is changed, although this makes no difference logically). Each premise and the conclusion can be of type A, E, I or O, and the syllogism can be any of the four figures. A syllogism can be described briefly by giving the letters for the premises and conclusion followed by the number for the figure. For example, the syllogism BARBARA above is AAA-1, or "A-A-A in the first figure".

     The vast majority of the 256 possible forms of syllogism are invalid (the conclusion does not follow logically from the premises). [↑](#endnote-ref-462)
463. <http://en.wikipedia.org/wiki/0_%28number%29>

     “The rules governing the use of zero appeared for the first time in [Brahmagupta](http://en.wikipedia.org/wiki/Brahmagupta)'s book [*Brahmasputha Siddhanta*](http://en.wikipedia.org/wiki/Brahmasphutasiddhanta) *(The Opening of the Universe)*,[[22]](http://en.wikipedia.org/wiki/0_%28number%29" \l "cite_note-brahmagupta-21) written in 628 AD. Here Brahmagupta considers not only zero, but negative numbers, and the algebraic rules for the elementary operations of arithmetic with such numbers. In some instances, his rules differ from the modern standard. Here are the rules of Brahmagupta:[[22]](http://en.wikipedia.org/wiki/0_%28number%29#cite_note-brahmagupta-21)

     * The sum of zero and a negative number is negative.
     * The sum of zero and a positive number is positive.
     * The sum of zero and zero is zero.
     * The sum of a positive and a negative is their difference; or, if their absolute values are equal, zero.
     * A positive or negative number [when divided by zero](http://en.wikipedia.org/wiki/Division_by_zero) is a fraction with the zero as denominator.
     * Zero divided by a negative or positive number is either zero or is expressed as a fraction with zero as numerator and the finite quantity as denominator.
     * Zero divided by zero is zero.”

     [↑](#endnote-ref-463)
464. <http://en.wikipedia.org/wiki/Middle_way>

     “In the Pali canon, the Middle Way (*majjhimā paṭipadā*) was said to have been articulated by the Buddha in his first discourse, the [Dhammacakkappavattana Sutta](http://en.wikipedia.org/wiki/Dhammacakkappavattana_Sutta) ([SN](http://en.wikipedia.org/wiki/Samyutta_Nikaya) 56.11):

     "Monks, these two extremes ought not to be practiced by one who has gone forth from the household life. (What are the two?) There is addiction to indulgence of sense-pleasures, which is low, coarse, the way of ordinary people, unworthy, and unprofitable; and there is addiction to self-mortification, which is painful, unworthy, and unprofitable. "Avoiding both these extremes, the [Tathagata](http://en.wikipedia.org/wiki/Tathagata) (the Perfect One) has realized the Middle Path; it gives vision, gives knowledge, and leads to calm, to insight, to enlightenment and to [Nibbana](http://en.wikipedia.org/wiki/Nirvana). And what is that Middle Path realized by the Tathagata...? It is the [Noble Eightfold path](http://en.wikipedia.org/wiki/Noble_Eightfold_Path), and nothing else, namely: right understanding, right thought, right speech, right action, right livelihood, right effort, right mindfulness and right concentration."[[4]](http://en.wikipedia.org/wiki/Middle_way#cite_note-3) [↑](#endnote-ref-464)
465. <http://en.wikipedia.org/wiki/Schr%C3%B6dinger%27s_cat>

     “To further illustrate the putative incompleteness of quantum mechanics, Schrödinger applied quantum mechanics to a living entity that may or may not be conscious. In Schrödinger’s original thought experiment, he describes how one could, in principle, transpose the superposition of an atom to large-scale systems of a live and dead cat by coupling cat and atom with the help of a "diabolical mechanism". He proposed a scenario with a cat in a sealed box, wherein the cat's life or death was dependent on the state of a subatomic particle. According to Schrödinger, the Copenhagen interpretation implies that *the cat remains both alive and dead* (to the universe outside the box) until the box is opened.” [↑](#endnote-ref-465)
466. <http://wikileaks.org/wiki/Afghan_War_Diary,_2004-2010>

     “The material shows that cover-ups start on the ground. When reporting their own activities US Units are inclined to classify civilian kills as insurgent kills, downplay the number of people killed or otherwise make excuses for themselves. The reports, when made about other US Military units are more likely to be truthful, but still down play criticism. Conversely, when reporting on the actions of non-US ISAF forces the reports tend to be frank or critical and when reporting on the Taliban or other rebel groups, bad behavior is described in comprehensive detail. The behavior of the Afghan Army and Afghan authorities are also frequently described.” [↑](#endnote-ref-466)
467. <http://en.wikipedia.org/wiki/Reichstag_fire>

     “After being appointed chancellor of Germany on January 31, 1933, Hitler asked President von Hindenburg to dissolve the Reichstag. A [general election](http://en.wikipedia.org/wiki/German_election,_1933) was scheduled for March 5, 1933. The [burning of the Reichstag](http://en.wikipedia.org/wiki/Reichstag_fire) six days before the election, depicted by the Nazis as the beginning of a communist revolution, resulted in the [Reichstag Fire Decree](http://en.wikipedia.org/wiki/Reichstag_Fire_Decree), which (among other things) suspended [civil liberties](http://en.wikipedia.org/wiki/Civil_liberties) and [habeas corpus](http://en.wikipedia.org/wiki/Habeas_corpus) rights. Hitler used the decree to have the [Communist Party](http://en.wikipedia.org/wiki/Communist_Party_of_Germany)'s offices raided and its representatives arrested, effectively eliminating them as a political force. Although receiving five million more votes than in the previous election, the NSDAP had failed to gain an absolute majority in parliament, depending on the 52 seats won by its coalition partner, the [German National People's Party](http://en.wikipedia.org/wiki/German_National_People%27s_Party), for a slim majority. To free himself from this dependency, Hitler had the cabinet, in its first post-election meeting on March 15, draw up plans for an Enabling Act which would give the cabinet legislative power for four years. The Nazis devised the Enabling Act to gain complete political power without the need of the support of a majority in the [Reichstag](http://en.wikipedia.org/wiki/Reichstag_%28institution%29) and without the need to bargain with their coalition partners.” [↑](#endnote-ref-467)
468. <http://en.wikipedia.org/wiki/Statistical_syllogism>

     “The widespread use of [confidence intervals](http://en.wikipedia.org/wiki/Confidence_intervals) in [statistics](http://en.wikipedia.org/wiki/Statistics) is often justified using a statistical syllogism, in such words as "*Were this procedure to be repeated on multiple samples, the calculated confidence interval (which would differ for each sample) would encompass the true population parameter 90% of the time."* [[1]](http://en.wikipedia.org/wiki/Statistical_syllogism#cite_note-0) The inference from what would mostly happen in multiple samples to the confidence we should have in the particular sample involves a statistical syllogism.[[2]](http://en.wikipedia.org/wiki/Statistical_syllogism#cite_note-1)The statistical syllogism was used by [Donald Cary Williams](http://en.wikipedia.org/w/index.php?title=Donald_Cary_Williams&action=edit&redlink=1) and [David Stove](http://en.wikipedia.org/wiki/David_Stove) in their attempt to give a logical solution to the [problem of induction](http://en.wikipedia.org/wiki/Problem_of_induction). They put forward the argument, which has the form of a statistical syllogism:

     1. The great majority of large samples of a population approximately match the population (in proportion)
     2. This is a large sample from a population
     3. Therefore, this sample approximately matches the population”

     [↑](#endnote-ref-468)
469. <http://en.wikipedia.org/wiki/Stromatolite>

     “A variety of stromatolite morphologies exist including conical, stratiform, branching, domal,[[2]](http://en.wikipedia.org/wiki/Stromatolite" \l "cite_note-1) and columnar types. Stromatolites occur widely in the fossil record of the [Precambrian](http://en.wikipedia.org/wiki/Precambrian), but are rare today. Very few ancient stromatolites contain [fossilized](http://en.wikipedia.org/wiki/Fossil) [microbes](http://en.wikipedia.org/wiki/Microbe). While features of some stromatolites are suggestive of [biological activity](http://en.wikipedia.org/wiki/Biota_%28ecology%29), others possess features that are more consistent with [abiotic](http://en.wikipedia.org/wiki/Abiotic) (non-organic) precipitation. Finding reliable ways to distinguish between biologically-formed and abiotic (non-biological) stromatolites is an active area of research in [geology](http://en.wikipedia.org/wiki/Geology).” [↑](#endnote-ref-469)
470. <http://en.wikipedia.org/wiki/Tardigrade>

     “Tardigrades are one of the few groups of species that are capable of reversibly suspending their [metabolism](http://en.wikipedia.org/wiki/Metabolism) and going into a state of [cryptobiosis](http://en.wikipedia.org/wiki/Cryptobiosis). Several species regularly survive in a dehydrated state for nearly ten years. Depending on the environment they may enter this state via [anhydrobiosis](http://en.wikipedia.org/wiki/Anhydrobiosis), cryobiosis, osmobiosis or anoxybiosis. While in this state their metabolism lowers to less than 0.01% of normal and their water content can drop to 1% of normal. Their ability to remain desiccated for such a long period is largely dependent on the high levels of the non-reducing [sugar](http://en.wikipedia.org/wiki/Sugar) [trehalose](http://en.wikipedia.org/wiki/Trehalose), which protects their [membranes](http://en.wikipedia.org/wiki/Cell_membrane). In this cryptobiotic state the tardigrade is known as a *tun*.[[15]](http://en.wikipedia.org/wiki/Tardigrade#cite_note-14)” [↑](#endnote-ref-470)
471. <http://en.wikipedia.org/wiki/Contract_with_America>

     “The Contract's actual text included a list of eight reforms the Republicans promised to enact, and ten bills they promised to bring to floor debate and votes, if they were made the majority following the election.[[2]](http://www.house.gov/house/Contract/CONTRACT.htm) During the construction of the Contract, proposals were limited to "60% issues"[[3]](http://www.heritage.org/Research/Lecture/The-Contract-with-America-Implementing-New-Ideas-in-the-US) , i.e. legislation that polling showed garnered 60% support of the American people, intending for the Contract to avoid promises on controversial and divisive matters like [abortion](http://en.wikipedia.org/wiki/Abortion) and [school prayer](http://en.wikipedia.org/wiki/School_prayer). [Reagan](http://en.wikipedia.org/wiki/Ronald_Reagan) biographer [Lou Cannon](http://en.wikipedia.org/wiki/Lou_Cannon) would characterize the Contract as having taken more than half of its text from Ronald Reagan's 1985 [State of the Union Address](http://en.wikipedia.org/wiki/State_of_the_Union_Address).” [↑](#endnote-ref-471)
472. <http://en.wikipedia.org/wiki/Gunboat_diplomacy>

     “The term comes from the period of [colonial](http://en.wikipedia.org/wiki/Colonialism) [imperialism](http://en.wikipedia.org/wiki/Imperialism), where the European powers would intimidate other states into granting [trade](http://en.wikipedia.org/wiki/Trade) or other concessions ([unequal treaties](http://en.wikipedia.org/wiki/Unequal_treaties)) through a demonstration of their superior military power. A country negotiating with a European power would notice that a warship or fleet of ships had appeared off its coast. The mere sight of such power almost always had a considerable effect, and it was rarely necessary for such boats to use other measures, such as demonstrations of [cannon](http://en.wikipedia.org/wiki/Cannon) fire. A notable and controversial example of gunboat diplomacy was the [Don Pacifico Incident](http://en.wikipedia.org/wiki/Pacifico_incident) in 1850, in which the [British](http://en.wikipedia.org/wiki/United_Kingdom) [Foreign Secretary](http://en.wikipedia.org/wiki/Foreign_Secretary) [Lord Palmerston](http://en.wikipedia.org/wiki/Henry_Temple,_3rd_Viscount_Palmerston) dispatched a squadron of the [Royal Navy](http://en.wikipedia.org/wiki/Royal_Navy) to [blockade](http://en.wikipedia.org/wiki/Blockade) the [Greek](http://en.wikipedia.org/wiki/Greece) port of [Piraeus](http://en.wikipedia.org/wiki/Piraeus) in retaliation for the harming of a British subject, David Pacifico, in [Athens](http://en.wikipedia.org/wiki/Athens), and the subsequent failure of the government of [King Otto](http://en.wikipedia.org/wiki/Otto_of_Greece) to compensate the [Gibraltar](http://en.wikipedia.org/wiki/Gibraltar)-born (and therefore British) Pacifico. The effectiveness of such simple demonstrations of a nation's [projection of force](http://en.wikipedia.org/wiki/Projection_of_force) capabilities meant that those nations with naval power, especially Britain, could establish military bases (for example, [Diego Garcia](http://en.wikipedia.org/wiki/Diego_Garcia)) and arrange economically advantageous relationships around the world. Aside from military conquest, gunboat diplomacy was the dominant way to establish new trade partners, [colonial outposts](http://en.wikipedia.org/wiki/Colony) and expansion of [Empire](http://en.wikipedia.org/wiki/Empire). Those lacking the resources and technological advancements of European Empires found that their own peaceable relationships were readily dismantled in the face of such pressures, and they therefore came to depend on the imperialist nations for access to [raw materials](http://en.wikipedia.org/wiki/Raw_material) and overseas [markets](http://en.wikipedia.org/wiki/Market).” [↑](#endnote-ref-472)
473. <http://en.wikipedia.org/wiki/Repo_105>

     “Repo 105 was used by investment bank [Lehman Brothers](http://en.wikipedia.org/wiki/Lehman_Brothers) three times according to a March 2010 report by the bankruptcy court examiner. The report stated that Lehman's auditors, [Ernst & Young](http://en.wikipedia.org/wiki/Ernst_%26_Young), were aware of this questionable classification.[[1]](http://en.wikipedia.org/wiki/Repo_105#cite_note-0) Law firm [Linklaters](http://en.wikipedia.org/wiki/Linklaters) has received unfavourable press treatment in relation to their issuance of an English law opinion which characterised the arrangements as a *true sale* as opposed to a transfer by Lehman with a charge back in favour of the transferor.[2] The report published on March 11, 2010, was titled "Lehman Brothers Holdings Inc. Chapter 11 Proceedings". The Examiner in this matter was [Anton R. Valukas](http://en.wikipedia.org/wiki/Anton_R._Valukas), Chairman of [Jenner & Block](http://en.wikipedia.org/wiki/Jenner_%26_Block). The report details the use of both "repo 105" and "repo 108" which are basically identical procedures, the first costing 5% and the second 8% of the assets exchanged. In other words, assets valued at 100 will produce 95 in cash, assets valued at 100 will produce 92 in cash respectively. After the Examiner’s report was published, the [Securities and Exchange Commission](http://en.wikipedia.org/wiki/Securities_and_Exchange_Commission)(SEC) sent letters to [chief financial officers](http://en.wikipedia.org/wiki/Chief_financial_officer) of nearly two dozen large financial and insurance companies asking about their firms' use of [repurchase agreements](http://en.wikipedia.org/wiki/Repurchase_agreement), including the number and amount of such agreements that qualify for sales accounting, and detailed analysis of why such transactions can be treated as sales. SEC chairman, [Mary Schapiro](http://en.wikipedia.org/wiki/Mary_Schapiro), indicated that the agency is trying to determine whether other companies used similar techniques as the "repo 105" used by [Lehman Brothers](http://en.wikipedia.org/wiki/Lehman_Brothers).[[3]](http://en.wikipedia.org/wiki/Repo_105#cite_note-2)” [↑](#endnote-ref-473)
474. <http://en.wikipedia.org/wiki/Put_option>

     “A **put option** (usually just called a "put") is a [financial](http://en.wikipedia.org/wiki/Finance) [contract](http://en.wikipedia.org/wiki/Contract) between two parties, the writer (seller) and the buyer of the [option](http://en.wikipedia.org/wiki/Option_%28finance%29). The buyer acquires a [short position](http://en.wikipedia.org/wiki/Short_position) by purchasing the right to sell the [underlying instrument](http://en.wikipedia.org/wiki/Underlying_instrument) to the seller of the option for a specified price (the [strike price](http://en.wikipedia.org/wiki/Strike_price)) during a specified period of time. If the option buyer exercises their right, the seller is obligated to buy the underlying instrument from them at the agreed upon strike price, regardless of the current market price. In exchange for having this option, the buyer pays the seller or option writer a fee (the option premium).

     By providing a guaranteed buyer and price for an underlying instrument (for a specified span of time), put options offer insurance against excessive loss. Similarly, the seller of put options profits by selling options that are not exercised. Such is the case when the ongoing market value of the underlying instrument makes the option unnecessary; i.e. the market value of the instrument remains above the strike price during the option contract period.

     Purchasers of put options may also profit from the ability to sell the underlying instrument at an inflated price (relative to the current market value) and repurchase their position at the much reduced current market price.” [↑](#endnote-ref-474)
475. <http://en.wikipedia.org/wiki/Smoot%E2%80%93Hawley_Tariff_Act>

     “The **Smoot–Hawley Tariff** or **Hawley–Smoot Tariff** (P.L. 71-361, officially named, the **Tariff Act of 1930**)[[1]](http://en.wikipedia.org/wiki/Smoot%E2%80%93Hawley_Tariff_Act#cite_note-0) was an act signed into law on June 17, 1930, that raised [U.S.](http://en.wikipedia.org/wiki/United_States) [tariffs](http://en.wikipedia.org/wiki/Tariff) on over 20,000 imported goods to record levels.[[2]](http://en.wikipedia.org/wiki/Smoot%E2%80%93Hawley_Tariff_Act#cite_note-1)The overall level tariffs under the Tariff were the second-highest in US history, exceeded only (by a small margin) by the [Tariff of 1828](http://en.wikipedia.org/wiki/Tariff_of_1828)[[3]](http://en.wikipedia.org/wiki/Smoot%E2%80%93Hawley_Tariff_Act#cite_note-2) and the ensuing retaliatory tariffs by U.S. trading partners reduced American exports and imports by more than half. Some economists have opined that the tariffs contributed to the severity of the [Great Depression](http://en.wikipedia.org/wiki/Great_Depression).[[4]](http://en.wikipedia.org/wiki/Smoot%E2%80%93Hawley_Tariff_Act#cite_note-3)[[5]](http://en.wikipedia.org/wiki/Smoot%E2%80%93Hawley_Tariff_Act#cite_note-4)[[6]](http://en.wikipedia.org/wiki/Smoot%E2%80%93Hawley_Tariff_Act#cite_note-5)”  [↑](#endnote-ref-475)
476. <http://en.wikipedia.org/wiki/Boer_Wars>

     “The [First Anglo-Boer War](http://en.wikipedia.org/wiki/First_Boer_War) (1880–1881), also known as the "Transvaal War," was a relatively brief conflict in which Boer (Dutch settlers) successfully rebelled against British rule in the [Transvaal](http://en.wikipedia.org/wiki/Transvaal_Colony), and re-established their independence, lost in 1877, when the Boers fought the British in order to regain the independence they had given up to obtain British help against the Zulus. The Second War (1899–1902), by contrast, was a lengthy war—involving large numbers of troops from many British possessions—which ended with the conversion of the Boer republics into British colonies (with a promise of limited [self-government](http://en.wikipedia.org/wiki/Self-governance)). These colonies later formed part of the [Union of South Africa](http://en.wikipedia.org/wiki/Union_of_South_Africa). The British fought directly against the Transvaal and the Orange Free State. The bloodshed that was seen during the war was alarming. There were two main factors that contributed to this. First, many of the British soldiers were physically unprepared for the environment and poorly trained for the tactical conditions they faced. As a result, British losses were high due to both disease and combat. Second, the policies of "[scorched earth](http://en.wikipedia.org/wiki/Scorched_earth)" and civilian internment (adopted by the British in response to the Boer guerrilla campaign) ravaged the civilian populations in the Transvaal and the Orange Free State.” [↑](#endnote-ref-476)
477. <http://en.wikipedia.org/wiki/Che_Guevara>

     “Only a small band of revolutionaries survived to re-group as a bedraggled fighting force deep in the [Sierra Maestra](http://en.wikipedia.org/wiki/Sierra_Maestra) mountains, where they received support from the [urban guerrilla](http://en.wikipedia.org/wiki/Urban_guerrilla_warfare) network of [Frank País](http://en.wikipedia.org/wiki/Frank_Pa%C3%ADs), the 26th of July Movement, and local campesinos. With the group withdrawn to the Sierra, the world wondered whether Castro was alive or dead until early 1957 when the interview by [Herbert Matthews](http://en.wikipedia.org/wiki/Herbert_Matthews) appeared in [*The New York Times*](http://en.wikipedia.org/wiki/The_New_York_Times). The article presented a lasting, almost mythical image for Castro and the guerrillas. Guevara was not present for the interview, but in the coming months he began to realize the importance of the media in their struggle. Meanwhile, as supplies and morale diminished, and with an allergy to mosquito bites which resulted in agonizing walnut-sized cysts on his body,[[60]](http://en.wikipedia.org/wiki/Che_Guevara" \l "cite_note-59) Guevara considered these "the most painful days of the war."[[61]](http://en.wikipedia.org/wiki/Che_Guevara#cite_note-60)As the war continued, Guevara became an integral part of the rebel army and "convinced Castro with competence, diplomacy and patience."[[9]](http://en.wikipedia.org/wiki/Che_Guevara#cite_note-Castrosbrain1960-8) Guevara set up factories to make grenades, built ovens to bake bread, taught new recruits about tactics, and organized schools to teach illiterate campesinos to read and write.[[9]](http://en.wikipedia.org/wiki/Che_Guevara#cite_note-Castrosbrain1960-8) Moreover, Guevara established health clinics, workshops to teach military tactics, and a newspaper to disseminate information.[[62]](http://en.wikipedia.org/wiki/Che_Guevara#cite_note-61) The man who three years later would be dubbed by [*Time Magazine*](http://en.wikipedia.org/wiki/Time_Magazine): "Castro's brain", at this point was promoted by [Fidel Castro](http://en.wikipedia.org/wiki/Fidel_Castro) to *Comandante* (commander) of a second army column.[[9]](http://en.wikipedia.org/wiki/Che_Guevara#cite_note-Castrosbrain1960-8) ‘ [↑](#endnote-ref-477)
478. <http://en.wikipedia.org/wiki/Anglo-Zulu_War>

     “Cetshwayo's army numbered fully 40,000 men. The entry of all three columns was unopposed. On 22 January the centre column (1,600 British, 2,500 Africans), which had advanced from Rorke's Drift, was encamped near [Isandlwana](http://en.wikipedia.org/wiki/Battle_of_Isandlwana); on the morning of that day Lord Chelmsford split his forces and moved out to support a reconnoitring party. After he had left the camp in charge of [Lt. Colonel](http://en.wikipedia.org/wiki/Lt._Colonel) [Henry Pulleine](http://en.wikipedia.org/wiki/Henry_Pulleine) (it is generally thought that a Colonel [Anthony Durnford](http://en.wikipedia.org/wiki/Anthony_Durnford) was in command, but new information has surfaced showing that it was not so), was surprised by a Zulu army nearly 20,000 strong. Chelmsford's refusal to set up the British camp defensively and ignoring information that the Zulus were close at hand were decisions that all were later to regret. The ensuing [Battle of Isandlwana](http://en.wikipedia.org/wiki/Battle_of_Isandlwana) was the greatest victory that the Zulu kingdom would enjoy during the war. In its aftermath, a party of some 4,000 Zulu reserves mounted a raid on the nearby British border post of [Rorke's Drift](http://en.wikipedia.org/wiki/Rorke%27s_Drift), and were only driven off after 10 hours of ferocious fighting when British reinforcements were seen coming toward the outpost. While the British central column under Chelmsford's command was thus engaged, the right flank column on the coast, under Colonel Charles Pearson, crossed the Tugela River, skirmished with a Zulu impi that was attempting to set up an ambush at the [Inyezane River](http://en.wikipedia.org/wiki/Siege_of_Eshowe#Prelude:_Inyezane), and advanced as far as the deserted missionary station of Eshowe, which he set about fortifiying. On learning of the disaster at Isandlwana, Pearson made plans to withdraw back beyond the Tugeala River. However, before he had decided whether of not to put these plans into effect, the Zulu army managed to cut off his supply lines, and the [Siege of Eshowe](http://en.wikipedia.org/wiki/Siege_of_Eshowe) had begun.” [↑](#endnote-ref-478)
479. <http://en.wikipedia.org/wiki/2000_Cochabamba_protests>

     “As a condition of the contract *Aguas del Tunari* had agreed to pay down the $30 million in debt accumulated by SEMAPA. They also agreed to finance an expansion of the water system, and begin a much needed maintenance program on the existing deteriorating water system.[[1]](http://en.wikipedia.org/wiki/2000_Cochabamba_protests#cite_note-New_Yorker-0) Dider Quint, a managing director for the consortium, said "We were confident that we could implement this program in a shorter period of time than the one required by the contract. [To accomplish this] We had to reflect in the tariff increase all the increases that had never been implemented before."[[1]](http://en.wikipedia.org/wiki/2000_Cochabamba_protests#cite_note-New_Yorker-0)On top of this, in order to secure the contract *Aguas del Tunari* had to promise the Bolivian government to fund the completion of the stalled Misicuni dam project.[[1]](http://en.wikipedia.org/wiki/2000_Cochabamba_protests#cite_note-New_Yorker-0) The dam was purportedly designed to pipe water through the mountains, but the World Bank had deemed it uneconomic. While the consortium had no interest in building the dam, as it was backed by an influential member of Banzer’s megacoalition, the mayor of Cochabamba, [Manfred Reyes Villa](http://en.wikipedia.org/wiki/Manfred_Reyes_Villa), it was a condition of their contract.[[1]](http://en.wikipedia.org/wiki/2000_Cochabamba_protests#cite_note-New_Yorker-0) An attempt to privatize the water system had been made without the condition of building the dam in 1997, but Reyes Villa had used his influence to squash the deal.[[1]](http://en.wikipedia.org/wiki/2000_Cochabamba_protests#cite_note-New_Yorker-0) Critics of Reyes Villa held that the dam was a “vanity project” which would profit “some of his main financial backers”.[[1]](http://en.wikipedia.org/wiki/2000_Cochabamba_protests#cite_note-New_Yorker-0)The officials in Bolivia for *Aguas del Tunari* were mostly engineers lacking marketing training.[[1]](http://en.wikipedia.org/wiki/2000_Cochabamba_protests#cite_note-New_Yorker-0) They were also foreigners unaware of the intricacies of Bolivian society and economics.[[1]](http://en.wikipedia.org/wiki/2000_Cochabamba_protests#cite_note-New_Yorker-0) Upon taking control the company raised water rates an average of 35% to about $20 a month. While this seemed minuscule in the developed nations that the *Aguas del Tunari* staff had come from, many of their new clients only earned about $100 a month and $20 was more than they spent on food.[[2]](http://en.wikipedia.org/wiki/2000_Cochabamba_protests#cite_note-Blackwell_water-1) In complete ignorance of the reality of his situation, a manager for the consortium, Geoffrey Thorpe simply said "if people didn't pay their water bills their water would be turned off."[[1]](http://en.wikipedia.org/wiki/2000_Cochabamba_protests#cite_note-New_Yorker-0) The poor were joined in their protest by January 2000, when middle-class homeowners and large business owners stripped of their subsidies saw their own water bills increase.[[1]](http://en.wikipedia.org/wiki/2000_Cochabamba_protests#cite_note-New_Yorker-0) As anger over the rates mounted, Reyes Villa was quick to distance himself from *Aguas del Tunari*.[[1]](http://en.wikipedia.org/wiki/2000_Cochabamba_protests#cite_note-New_Yorker-0)” [↑](#endnote-ref-479)
480. <http://en.wikipedia.org/wiki/Incorporated_town>

     “An incorporated town in the [United States](http://en.wikipedia.org/wiki/United_States) is an incorporated [municipality](http://en.wikipedia.org/wiki/Municipality), that is, one with a charter received from the [state](http://en.wikipedia.org/wiki/U.S._state), similar to a [city](http://en.wikipedia.org/wiki/City). An incorporated town will have elected officials, as differentiated from an [unincorporated community](http://en.wikipedia.org/wiki/Unincorporated_community), which exists only by tradition and does not have elected officials at the town level. In some states, especially in midwestern and western states, [civil townships](http://en.wikipedia.org/wiki/Civil_township) may sometimes be called towns, but are generally not incorporated municipalities, but are administrative subdivisions and derive their authority from statute rather than from a charter. In [New York](http://en.wikipedia.org/wiki/New_York) and [Wisconsin](http://en.wikipedia.org/wiki/Wisconsin), the term "town" refers to municipalities more similar to [townships](http://en.wikipedia.org/wiki/Townships) in other states than to incorporated towns in most states (see [Administrative divisions of New York](http://en.wikipedia.org/wiki/Administrative_divisions_of_New_York), [Political subdivisions of Wisconsin](http://en.wikipedia.org/wiki/Political_subdivisions_of_Wisconsin)). In some other states, the term "town" is not used for municipalities.” [↑](#endnote-ref-480)
481. <http://en.wikipedia.org/wiki/Private_railway>

     “In [Japan](http://en.wikipedia.org/wiki/Rail_transport_in_Japan), private railway (私鉄 or 民鉄, *Shitetsu or Mintetsu*[**?**](http://en.wikipedia.org/wiki/Help:Installing_Japanese_character_sets)) refers to a railway line owned and operated by private sector. Although [Japan Railways Group](http://en.wikipedia.org/wiki/Japan_Railways_Group) companies are private entities, they are not considered private railways because of their unique status as the successors of the [Japanese National Railways](http://en.wikipedia.org/wiki/Japanese_National_Railways) (JNR). In a traditional sense, even [voluntary sector](http://en.wikipedia.org/wiki/Voluntary_sector) railways are not included by their origins as the rural, non-profitable JNR line transferred to local possession as a form of joint stock corporation/company ([Kabushiki kaisha](http://en.wikipedia.org/wiki/Kabushiki_kaisha)). Among private railways in Japan, 15 companies are categorized as "major", such as [Odakyu](http://en.wikipedia.org/wiki/Odakyu_Electric_Railway), [Keikyu](http://en.wikipedia.org/wiki/Keihin_Electric_Express_Railway), [Meitetsu](http://en.wikipedia.org/wiki/Nagoya_Railroad), [Tokyu](http://en.wikipedia.org/wiki/Tokyu_Corporation). They are often profitable and less expensive (to ride) than publicly run railways[*[citation needed](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed" \o "Wikipedia:Citation needed)*]. Private railways also run a variety of other businesses, such as hotels, department stores and real estate.” [↑](#endnote-ref-481)
482. <http://en.wikipedia.org/wiki/NIMBY>

     “**NIMBY** or **Nimby** is an [acronym](http://en.wikipedia.org/wiki/Acronym) for **not in my back yard**. The term (or the derivative **Nimbyism**) is used [pejoratively](http://en.wikipedia.org/wiki/Pejorative) to describe opposition by residents to a proposal for a new development close to them. Opposing residents themselves are sometimes called **Nimbies**. The term was coined in the 1980s by British politician [Nicholas Ridley](http://en.wikipedia.org/wiki/Nicholas_Ridley,_Baron_Ridley_of_Liddesdale), who was [Conservative](http://en.wikipedia.org/wiki/Conservative_Party_%28UK%29) [Secretary of State for the Environment](http://en.wikipedia.org/wiki/Secretary_of_State_for_the_Environment).

     Projects likely to be opposed include but are not limited to tall buildings, [chemical plants](http://en.wikipedia.org/w/index.php?title=Chemical_plants&action=edit&redlink=1), [industrial parks](http://en.wikipedia.org/w/index.php?title=Industrial_parks&action=edit&redlink=1), [wind turbines](http://en.wikipedia.org/wiki/Wind_turbines), [desalination plants](http://en.wikipedia.org/wiki/Desalination_plants), [landfills](http://en.wikipedia.org/wiki/Landfills), [incinerators](http://en.wikipedia.org/wiki/Incinerators), [mosques](http://en.wikipedia.org/wiki/Mosques), [power plants](http://en.wikipedia.org/wiki/Power_plants), [prisons](http://en.wikipedia.org/wiki/Prisons)[[1]](http://en.wikipedia.org/wiki/NIMBY#cite_note-mw-0), [mobile telephone](http://en.wikipedia.org/wiki/Mobile_telephone) network masts, [schools](http://en.wikipedia.org/wiki/Schools), [golf courses](http://en.wikipedia.org/wiki/Golf_courses), [housing developments](http://en.wikipedia.org/wiki/Housing_developments) and especially [transportation](http://en.wikipedia.org/wiki/Transport) improvements (e.g. new [roads](http://en.wikipedia.org/wiki/Roads), passenger [railways](http://en.wikipedia.org/wiki/Railways), [highways](http://en.wikipedia.org/wiki/Highways), [airports](http://en.wikipedia.org/wiki/Airports), [seaports](http://en.wikipedia.org/wiki/Seaports)).” [↑](#endnote-ref-482)
483. <http://en.wikipedia.org/wiki/Rotary_International>

     “**Rotary International** is an organization of [service clubs](http://en.wikipedia.org/wiki/Service_club) known as **Rotary Clubs** located all over the world. It is a secular organization open to all persons regardless of race, color, creed, gender, or political preference. There are 33,976 clubs and over 1.22 million members worldwide.[[1]](http://en.wikipedia.org/wiki/Rotary_International#cite_note-RIweb-0) The members of Rotary Clubs are known as **Rotarians**. The stated purpose of the organization is to bring together business and professional leaders to provide humanitarian service, encourage high ethical standards in all vocations, and help build goodwill and peace in the world. Members usually meet weekly for breakfast, lunch or dinner, which is a social event as well as an opportunity to organize work on their service goals. Rotary's best-known motto is "Service above Self", and its secondary motto is "They profit most who serve best".[[2]](http://en.wikipedia.org/wiki/Rotary_International#cite_note-1)” [↑](#endnote-ref-483)
484. <http://en.wikipedia.org/wiki/Stock_exchange>

     “By having a wide and varied scope of owners, companies generally tend to improve on their [management](http://en.wikipedia.org/wiki/Management) standards and [efficiency](http://en.wikipedia.org/wiki/Efficiency_%28economics%29) in order to satisfy the demands of these shareholders and the more stringent rules for public corporations imposed by public stock exchanges and the government. Consequently, it is alleged that [public companies](http://en.wikipedia.org/wiki/Public_companies) (companies that are owned by shareholders who are members of the general public and trade shares on public exchanges) tend to have better management records than [privately held companies](http://en.wikipedia.org/wiki/Privately_held_company) (those companies where shares are not publicly traded, often owned by the company founders and/or their families and heirs, or otherwise by a small group of investors). Despite this claim, some well-documented cases are known where it is alleged that there has been considerable slippage in [corporate governance](http://en.wikipedia.org/wiki/Corporate_governance) on the part of some public companies. The [dot-com bubble](http://en.wikipedia.org/wiki/Dot-com_bubble) in the late 1990's, and the [subprime mortgage crisis](http://en.wikipedia.org/wiki/Subprime_mortgage_crisis) in 2007-08, are classical examples of corporate mismanagement. Companies like [Pets.com](http://en.wikipedia.org/wiki/Pets.com) (2000), [Enron Corporation](http://en.wikipedia.org/wiki/Enron_Corporation) (2001), [One.Tel](http://en.wikipedia.org/wiki/One.Tel) (2001), [Sunbeam](http://en.wikipedia.org/wiki/Sunbeam_Products) (2001), [Webvan](http://en.wikipedia.org/wiki/Webvan) (2001), [Adelphia](http://en.wikipedia.org/wiki/Adelphia_Communications_Corporation) (2002), [MCI WorldCom](http://en.wikipedia.org/wiki/MCI_WorldCom) (2002), [Parmalat](http://en.wikipedia.org/wiki/Parmalat) (2003), [American International Group](http://en.wikipedia.org/wiki/American_International_Group) (2008), [Bear Stearns](http://en.wikipedia.org/wiki/Bear_Stearns) (2008), [Lehman Brothers](http://en.wikipedia.org/wiki/Lehman_Brothers) (2008), [General Motors](http://en.wikipedia.org/wiki/General_Motors_Chapter_11_reorganization) (2009) and [Satyam Computer Services](http://en.wikipedia.org/wiki/Satyam_Computer_Services) (2009) were among the most widely scrutinized by the media. However, when poor financial, ethical or managerial records are known by the [stock investors](http://en.wikipedia.org/wiki/Stock_investors), the stock and the company tend to lose value.” [↑](#endnote-ref-484)
485. <http://en.wikipedia.org/wiki/Punctuated_equilibrium>

     “**Punctuated equilibrium** is a [theory](http://en.wikipedia.org/wiki/Theory) in [evolutionary biology](http://en.wikipedia.org/wiki/Evolution) which proposes that most [sexually reproducing](http://en.wikipedia.org/wiki/Sexual_reproduction) [species](http://en.wikipedia.org/wiki/Species) will experience little evolutionary change for most of their geological history, remaining in an extended state called *stasis*. When evolution occurs, it is localized in rare, rapid events of branching speciation, called [cladogenesis](http://en.wikipedia.org/wiki/Cladogenesis). Cladogenesis is the process by which species split into two distinct species, rather than one species gradually transforming into another. Thus, "punctuated equilibria is a model for discontinuous tempos of change (in) the process of speciation and the deployment of species in geological time."[[1]](http://en.wikipedia.org/wiki/Punctuated_equilibrium#cite_note-Gould.26Eldredge1977-0)Punctuated equilibrium is commonly contrasted against the theory of [phyletic gradualism](http://en.wikipedia.org/wiki/Phyletic_gradualism), which states that evolution generally occurs uniformly and by the steady and gradual transformation of whole lineages ([anagenesis](http://en.wikipedia.org/wiki/Anagenesis)). In this view, evolution is seen as generally smooth and continuous.” [↑](#endnote-ref-485)
486. <http://knowledge.asb.unsw.edu.au/article.cfm?articleid=1044> [↑](#endnote-ref-486)
487. <http://en.wikipedia.org/wiki/Gasland>

     “Fox then set out to see how communities are being affected in the west where a natural gas drilling boom has been underway for the last decade. He spent time with citizens in their homes and on their land as they relayed their stories of natural gas drilling in [Colorado](http://en.wikipedia.org/wiki/Colorado), [Wyoming](http://en.wikipedia.org/wiki/Wyoming), [Utah](http://en.wikipedia.org/wiki/Utah) and [Texas](http://en.wikipedia.org/wiki/Texas), among others. He spoke with residents who have experienced a variety of chronic health problems as well as contamination of their air, water wells or [surface water](http://en.wikipedia.org/wiki/Surface_water). In some instances, [gas companies](http://en.wikipedia.org/wiki/List_of_United_States_natural_gas_companies) are replacing the affected water supplies with [bottled water](http://en.wikipedia.org/wiki/Bottled_water). Throughout the documentary, Fox reached out to scientists, politicians and gas industry executives and ultimately found himself in the halls of Congress as a subcommittee was discussing the [Fracturing Responsibility and Awareness of Chemicals Act](http://en.wikipedia.org/wiki/Fracturing_Responsibility_and_Awareness_of_Chemicals_Act), “a bill to amend the [Safe Drinking Water Act](http://en.wikipedia.org/wiki/Safe_Drinking_Water_Act) to repeal a certain exemption for hydraulic fracturing.” [[1]](http://en.wikipedia.org/wiki/Gasland#cite_note-0) Hydraulic fracturing was exempted from the Safe Drinking Water Act in the [Energy Policy Act of 2005](http://en.wikipedia.org/wiki/Energy_Policy_Act_of_2005).” [↑](#endnote-ref-487)
488. <http://en.wikipedia.org/wiki/Alexander_the_Great>

     “East of Porus' kingdom, near the [Ganges River](http://en.wikipedia.org/wiki/Ganges_River), was the powerful [Nanda Empire](http://en.wikipedia.org/wiki/Nanda_dynasty) of [Magadha](http://en.wikipedia.org/wiki/Magadha) and [Gangaridai Empire](http://en.wikipedia.org/wiki/Gangaridai) of [Bengal](http://en.wikipedia.org/wiki/Bengal). Fearing the prospects of facing other powerful Indian armies and exhausted by years of campaigning, his army mutinied at the [Hyphasis River](http://en.wikipedia.org/wiki/Beas_River), refusing to march further east. This river thus marks the easternmost extent of Alexander's conquests.[[114]](http://en.wikipedia.org/wiki/Alexander_the_Great#cite_note-PA62-113)[[115]](http://en.wikipedia.org/wiki/Alexander_the_Great#cite_note-Ind129-114)As for the Macedonians, however, their struggle with Porus blunted their courage and stayed their further advance into India. For having had all they could do to repulse an enemy who mustered only twenty thousand infantry and two thousand horse, they violently opposed Alexander when he insisted on crossing the river Ganges also, the width of which, as they learned, was thirty-two furlongs, its depth a hundred fathoms, while its banks on the further side were covered with multitudes of [men-at-arms](http://en.wikipedia.org/wiki/Man-at-arms) and horsemen and elephants. For they were told that the kings of the Ganderites and Praesii were awaiting them with eighty thousand horsemen, two hundred thousand footmen, eight thousand chariots, and six thousand [war elephants](http://en.wikipedia.org/wiki/War_elephant).[[114]](http://en.wikipedia.org/wiki/Alexander_the_Great#cite_note-PA62-113)Alexander spoke to his army and tried to persuade them to march further into India but [Coenus](http://en.wikipedia.org/wiki/Coenus_%28general%29) pleaded with him to change his opinion and return, the men, he said, "longed to again see their parents, their wives and children, their homeland". Alexander, seeing the unwillingness of his men, eventually agreed and turned south. [↑](#endnote-ref-488)
489. <http://en.wikipedia.org/wiki/Police_state>

     “Genuine police states are fundamentally authoritarian, and are often dictatorships. However the degree of government repression varies widely among societies. Most regimes fall into some middle ground between the extremes of civil [libertarianism](http://en.wikipedia.org/wiki/Libertarianism) and [totalitarianism](http://en.wikipedia.org/wiki/Totalitarianism). In times of [national emergency](http://en.wikipedia.org/wiki/State_of_emergency) or [war](http://en.wikipedia.org/wiki/War), the balance which may usually exist between [freedom](http://en.wikipedia.org/wiki/Freedom_%28political%29) and [national security](http://en.wikipedia.org/wiki/National_security) often tips in favour of security. This shift may lead to allegations that the nation in question has become, or is becoming, a police state. Because there are different political perspectives as to what an appropriate balance is between individual freedom and national security, there are no definitive objective standards to determine whether the term "police state" applies to a particular nation at any given point in time. Thus, it is difficult to evaluate objectively the truth of allegations that a nation is, or is not becoming, a police state. One way to view the concept of the police state and the free state is through the medium of a balance or scale, where any law focused on removing liberty is seen as moving towards a police state, and any law which limits government oversight is seen as moving towards a [free state](http://en.wikipedia.org/wiki/Free_state_%28government%29).[[6]](http://en.wikipedia.org/wiki/Police_state#cite_note-5)” [↑](#endnote-ref-489)
490. <http://en.wikipedia.org/wiki/Kristallnacht>

     “The *Kristallnacht* was triggered by the [assassination](http://en.wikipedia.org/wiki/Assassination) in [Paris](http://en.wikipedia.org/wiki/Paris) of German diplomat [Ernst vom Rath](http://en.wikipedia.org/wiki/Ernst_vom_Rath) by [Herschel Grynszpan](http://en.wikipedia.org/wiki/Herschel_Grynszpan), a German-born Polish Jew. In a coordinated attack on [Jewish people](http://en.wikipedia.org/wiki/Jew) and their property, 91 Jews were murdered and 25,000 to 30,000 were arrested and placed in [concentration camps](http://en.wikipedia.org/wiki/Internment#Concentration_camps). 267 [synagogues](http://en.wikipedia.org/wiki/Synagogue) were destroyed, and thousands of homes and businesses were ransacked. This was done by the [Hitler Youth](http://en.wikipedia.org/wiki/Hitler_Youth), the [Gestapo](http://en.wikipedia.org/wiki/Gestapo) and the [SS](http://en.wikipedia.org/wiki/Schutzstaffel).[[2]](http://en.wikipedia.org/wiki/Kristallnacht#cite_note-1) The Kristallnacht also served as a pretext and a means for the wholesale confiscation of firearms from German Jews.[[3]](http://en.wikipedia.org/wiki/Kristallnacht#cite_note-2)While the assassination of Rath served as a pretext for the attacks, the *Kristallnacht* was part of a broader [racial policy of Nazi Germany](http://en.wikipedia.org/wiki/Racial_policy_of_Nazi_Germany) including [antisemitism](http://en.wikipedia.org/wiki/Antisemitism) and persecution of the Jews.[[4]](http://en.wikipedia.org/wiki/Kristallnacht#cite_note-3) *Kristallnacht* was followed by further economic and political persecutions. It is viewed by many historians as the beginning of the [Final Solution](http://en.wikipedia.org/wiki/Final_Solution), leading towards the [genocide](http://en.wikipedia.org/wiki/Genocide) of [the Holocaust](http://en.wikipedia.org/wiki/The_Holocaust).[[5]](http://en.wikipedia.org/wiki/Kristallnacht#cite_note-Hutchinson_1998-4)[[6]](http://en.wikipedia.org/wiki/Kristallnacht#cite_note-Martin_Gilbert-5)” [↑](#endnote-ref-490)
491. <http://en.wikipedia.org/wiki/Kurdish_people>

     “Several large scale Kurdish revolts in 1925, 1930 and 1938 were suppressed by the Turkish government and more than one million Kurds were forcibly relocated between 1925 and 1938. The use of Kurdish language, dress, [folklore](http://en.wikipedia.org/wiki/Folklore), and names were banned and the Kurdish-inhabited areas remained under [martial law](http://en.wikipedia.org/wiki/Martial_law) until 1946.[[86]](http://en.wikipedia.org/wiki/Kurdish_people#cite_note-85) The [Ararat revolt](http://en.wikipedia.org/wiki/Ararat_revolt), which reached its apex in 1930, was only suppressed after a massive military campaign including destruction of many villages and their populations. In quelling the revolt, Turkey was assisted by the close cooperation of its neighboring states such as [Soviet Union](http://en.wikipedia.org/wiki/Soviet_Union), [Iran](http://en.wikipedia.org/wiki/Iran) and [Iraq](http://en.wikipedia.org/wiki/Iraq)[[87]](http://en.wikipedia.org/wiki/Kurdish_people#cite_note-Re.C5.9Fat_Kasaba_2008-86). The revolt was organized by a Kurdish party called *Khoybun* which signed a treaty with the [Dashnaksutyun](http://en.wikipedia.org/wiki/Dashnak) (Armenian Revolutionary Federation) in 1927.[[87]](http://en.wikipedia.org/wiki/Kurdish_people#cite_note-Re.C5.9Fat_Kasaba_2008-86) By 1970s, Kurdish leftist organizations such as *Kurdistan Socialist Party-Turkey* (KSP-T) emerged in Turkey which were against violence and supported civil activities and participation in elections. In 1977, *Mehdi Zana* a supporter of KSP-T won the mayoralty of [Diyarbakir](http://en.wikipedia.org/wiki/Diyarbakir) in the local elections. At about the same time, generational fissures gave birth to two new organizations: the *National Liberation of Kurdistan* and the *Kurdistan Workers Party*.[[88]](http://en.wikipedia.org/wiki/Kurdish_people#cite_note-87)The Partiya Karkerên Kurdistan ([PKK](http://en.wikipedia.org/wiki/PKK)), also known as *KADEK* and *Kongra-Gel*, is considered by the US, the EU, and [NATO](http://en.wikipedia.org/wiki/NATO) to be a terrorist organization.[[89]](http://en.wikipedia.org/wiki/Kurdish_people#cite_note-88) It is an [ethnic](http://en.wikipedia.org/wiki/Ethnic_nationalism) [secessionist](http://en.wikipedia.org/wiki/Secession) organization using violence for the purpose of achieving its goal of creating an independent Kurdish state in parts of southeastern [Turkey](http://en.wikipedia.org/wiki/Turkey), northeastern [Iraq](http://en.wikipedia.org/wiki/Iraq), northeastern [Syria](http://en.wikipedia.org/wiki/Syria) and northwestern [Iran](http://en.wikipedia.org/wiki/Iran). [↑](#endnote-ref-491)
492. <http://en.wikipedia.org/wiki/No-fly_zone>

     “In 1992, the [United States](http://en.wikipedia.org/wiki/United_States), [United Kingdom](http://en.wikipedia.org/wiki/United_Kingdom), [France](http://en.wikipedia.org/wiki/France), [Turkey](http://en.wikipedia.org/wiki/Turkey) and other states intervened in Kurdish-Iraqi dispute in northern [Iraq](http://en.wikipedia.org/wiki/Iraq) by establishing a no-fly zone in which Iraqi aircraft were prevented from flying. The intent of the no-fly zone was to prevent possible bombing and chemical attacks against the [Kurdish people](http://en.wikipedia.org/wiki/Kurdish_people) by the Iraqi regime. While the enforcing powers had cited [United Nations Security Council Resolution 688](http://en.wikipedia.org/wiki/United_Nations_Security_Council_Resolution_688) as authorising the operations, the resolution contains no explicit authorization. The Secretary-General of the UN at the time the resolution was passed, Boutros Boutros-Ghali called the no-fly zones "illegal" in a later interview with John Pilger[[1]](http://en.wikipedia.org/wiki/No-fly_zone#cite_note-0)[[2]](http://en.wikipedia.org/wiki/No-fly_zone#cite_note-1).” [↑](#endnote-ref-492)
493. <http://en.wikipedia.org/wiki/Butterfly_effect>

     “The **butterfly effect** is a metaphor that encapsulates the concept of *sensitive dependence on initial conditions* in [chaos theory](http://en.wikipedia.org/wiki/Chaos_theory); namely that small differences in the [initial condition](http://en.wikipedia.org/wiki/Initial_condition) of a [dynamical system](http://en.wikipedia.org/wiki/Dynamical_system) may produce large variations in the long term behavior of the system. Although this may appear to be an esoteric and unusual behavior, it is exhibited by very simple systems: for example, a [ball](http://en.wikipedia.org/wiki/Ball) placed at the crest of a hill might roll into any of several valleys depending on slight differences in initial position.” [↑](#endnote-ref-493)
494. <http://en.wikipedia.org/wiki/Liar%27s_Poker>

     ## “Catch phrases

     * **Big Swinging Dick** — A big-time trader or salesman. ("If he could make millions of dollars come out of those phones, he became that most revered of all species: a Big Swinging Dick." p.52) The opposite of this term is **Geek**, used to describe a just-hired trainee.
     * **Equities in** [**Dallas**](http://en.wikipedia.org/wiki/Dallas) — A particularly undesirable job within a finance firm ("He belonged to the dreaded equity department, the sleepy backwater in which lurked such career stoppers as Equities in Dallas." p.49).
     * **Blowing up a customer** — Successfully convincing a customer to purchase an investment product which ends up declining rapidly in value, forcing the client to withdraw from the market.
     * **Feeding Frenzy** — Term used to describe the Friday-morning meal shared by a certain clique of bond traders. At this meal, traders would order astounding quantities of take-out food. The traders would then compete with each other to see who could display the most [gluttony](http://en.wikipedia.org/wiki/Gluttony), and always bought far more food than they could eat (e.g., insisting on five-gallon tubs of [guacamole](http://en.wikipedia.org/wiki/Guacamole) with an order of $400 dollar's worth of [Mexican food](http://en.wikipedia.org/wiki/Mexican_food)).
     * **The Human** [**Piranha**](http://en.wikipedia.org/wiki/Piranha) — Nickname for an employee [[2]](http://en.wikipedia.org/wiki/Liar%27s_Poker#cite_note-1) at Salomon Brothers who constantly used the word "[fuck](http://en.wikipedia.org/wiki/Fuck)" and its variants in his speech. A reference to Tom Wolfe's character in *Bonfire of the Vanities*.
     * **Shorting Salomon** — Steps taken by a Salomon Brothers' employee to ensure a future job if something bad happened at the home firm. Term taken from the process of [short selling](http://en.wikipedia.org/wiki/Short_selling), or investing on the premise that the equity in question will soon decline in value.”

     [↑](#endnote-ref-494)
495. <http://en.wikipedia.org/wiki/Tulip_bubble>

     “**Tulip mania** or **tulipomania** ([Dutch](http://en.wikipedia.org/wiki/Dutch_language) names include: *tulpenmanie, tulpomanie, tulpenwoede, tulpengekte* and *bollengekte*) was a period in the [Dutch Golden Age](http://en.wikipedia.org/wiki/Dutch_Golden_Age) during which contract prices for [bulbs](http://en.wikipedia.org/wiki/Bulbs) of the recently introduced [tulip](http://en.wikipedia.org/wiki/Tulip) reached extraordinarily high levels and then suddenly collapsed.[[2]](http://en.wikipedia.org/wiki/Tulip_bubble#cite_note-MD2001-1) At the peak of tulip mania, in February 1637, some single tulip bulbs sold for more than 10 times the annual income of a skilled craftsman. It is generally considered the first recorded speculative bubble (or [economic bubble](http://en.wikipedia.org/wiki/Economic_bubble)),[[3]](http://en.wikipedia.org/wiki/Tulip_bubble#cite_note-2) although some researchers have noted that the [*Kipper- und Wipperzeit*](http://en.wikipedia.org/wiki/Kipper_und_wipperzeit) episode in 1619–22, a Europe-wide chain of debasement of the metal content of coins to fund warfare, featured mania-like similarities to a bubble.[[4]](http://en.wikipedia.org/wiki/Tulip_bubble#cite_note-3) The term "tulip mania" is now often used [metaphorically](http://en.wikipedia.org/wiki/Metaphor) to refer to any large economic bubble (when asset prices deviate from [intrinsic values](http://en.wikipedia.org/wiki/Intrinsic_value)).[[5]](http://en.wikipedia.org/wiki/Tulip_bubble#cite_note-French_2006_3-4)” [↑](#endnote-ref-495)
496. <http://en.wikipedia.org/wiki/Worldcom>

     “CEO [Bernard Ebbers](http://en.wikipedia.org/wiki/Bernard_Ebbers) became very wealthy from the rising price of his holdings in WorldCom common stock.[[4]](http://en.wikipedia.org/wiki/Worldcom#cite_note-sec-3) However, in the year 2000, the telecommunications industry entered a downturn and WorldCom’s aggressive growth strategy suffered a serious setback when it was forced by the US Justice Department to abandon its proposed merger with Sprint in mid 2000.[[4]](http://en.wikipedia.org/wiki/Worldcom#cite_note-sec-3) By that time, WorldCom’s stock was declining and Ebbers came under increasing pressure from banks to cover [margin calls](http://en.wikipedia.org/wiki/Margin_(finance)#Margin_call) on his WorldCom stock that was used to finance his other businesses (timber and yachting, among others).[[4]](http://en.wikipedia.org/wiki/Worldcom#cite_note-sec-3) During 2001, Ebbers persuaded WorldCom’s board of directors to provide him corporate loans and guarantees in excess of $400 million to cover his margin calls.[[4]](http://en.wikipedia.org/wiki/Worldcom#cite_note-sec-3) The board hoped that the loans would avert the need for Ebbers to sell substantial amounts of his WorldCom stock, as his doing so would put further downward pressure in the stock's price. However, this strategy ultimately failed and Ebbers was ousted as CEO in April 2002 and replaced by [John Sidgmore](http://en.wikipedia.org/wiki/John_W._Sidgmore), former [CEO](http://en.wikipedia.org/wiki/CEO) of [UUNet Technologies, Inc.](http://en.wikipedia.org/wiki/UUNET)

     Beginning modestly in mid-year 1999 and continuing at an accelerated pace through May 2002, the company (under the direction of Ebbers, [Scott Sullivan](http://en.wikipedia.org/wiki/Scott_Sullivan_(executive)) (CFO), David Myers ([Comptroller](http://en.wikipedia.org/wiki/Comptroller)) and Buford "Buddy" Yates (Director of General Accounting)) used fraudulent accounting methods to mask its declining earnings by painting a false picture of financial growth and profitability to prop up the price of WorldCom’s stock.[[4]](http://en.wikipedia.org/wiki/Worldcom#cite_note-sec-3)

     The fraud was accomplished primarily in two ways:

     Underreporting ‘line costs’ (interconnection expenses with other telecommunication companies) by [capitalizing](http://en.wikipedia.org/wiki/Capital_expenditure) these costs on the balance sheet rather than properly [expensing](http://en.wikipedia.org/wiki/Expense) them.

     Inflating revenues with bogus accounting entries from "corporate unallocated revenue accounts". [↑](#endnote-ref-496)
497. <http://en.wikipedia.org/wiki/Bernie_Cornfeld>

     “There were several reasons for the eventual rapid downfall of IOS, and there is no widely-accepted agreement as to the cause. But it may be true to say that, had the parent company not made a public share offering in 1969, it might have survived for much longer. The pressure to make the public offering came from the salesmen-stockholders, who were eager to cash in their paper fortunes, but the money raised by the company was used by the management to diversify in a number of ways that created a cash shortage. The domicile (but not the offices) of IOS was switched to Canada, and the public offering took place there in the summer of 1969.

     Bernie decided that mutual funds should take their fees from the profits they made for their investors, not just a percentage of the money invested. That is the way the IOS Investment Program was structured. Unfortunately no other provision was made for operating funds and international stock markets suffered a bear market in late 1969. The value of the IOS mutual funds took a serious fall, eliminating income for IOS. By March 1969, IOS was running out of operating money.

     At this point, a little-known American financier named [Robert Vesco](http://en.wikipedia.org/wiki/Robert_Vesco), head of [International Controls Corporation](http://en.wikipedia.org/wiki/International_Controls_Corporation), offered his help with $5MM. Vesco managed to take control of IOS and eventually evicted Cornfeld from the management. Having placed his men in key positions in IOS, Vesco succeeded in transferring over $ 200 million of cash belonging to the IOS funds into his own ventures, mostly in Costa Rica and other parts of Latin America. When the SEC issued a public complaint, Vesco fled to exile in a number of Caribbean hideaways, and was finally reported as having died in Cuba in 2008.” [↑](#endnote-ref-497)
498. <http://en.wikipedia.org/wiki/Monroe_Doctrine>

     “The **Monroe Doctrine** is a [United States](http://en.wikipedia.org/wiki/United_States) policy that was introduced on December 2, 1823, which stated that further efforts by [European](http://en.wikipedia.org/wiki/Europe) countries to colonize land or interfere with states in the [Americas](http://en.wikipedia.org/wiki/Americas) would be viewed by the United States of America as acts of aggression requiring US intervention.[[1]](http://en.wikipedia.org/wiki/Monroe_Doctrine#cite_note-res-0) The Monroe Doctrine asserted that the [Western Hemisphere](http://en.wikipedia.org/wiki/Western_Hemisphere) was not to be further colonized by European countries, and that the United States would not interfere with existing European colonies nor in the internal concerns of European countries. The Doctrine was issued at the time when many [Latin American](http://en.wikipedia.org/wiki/Latin_America) countries were on the [verge of becoming independent](http://en.wikipedia.org/wiki/Spanish_American_wars_of_independence) from the [Spanish Empire](http://en.wikipedia.org/wiki/Spanish_Empire), and the United States, reflecting concerns echoed by Great Britain, hoped to avoid having any European power take Spain's colonies.[[2]](http://en.wikipedia.org/wiki/Monroe_Doctrine#cite_note-Herring.2C_George_C._1776.2C_pp._153-155-1)” [↑](#endnote-ref-498)
499. <http://en.wikipedia.org/wiki/Death_squad>

     “A **death squad** is an armed military, police, insurgent, or terrorist [squad](http://en.wikipedia.org/wiki/Squad) that conducts [extra-judicial killings](http://en.wikipedia.org/wiki/Extra-judicial_killings), [assassinations](http://en.wikipedia.org/wiki/Assassinations), and [forced disappearances](http://en.wikipedia.org/wiki/Forced_disappearance) of persons as part of a war, insurgency or terror campaign. These killings are often conducted in ways meant to ensure the [secrecy](http://en.wikipedia.org/wiki/Secrecy) of the killers' identities, so as to avoid accountability.[[1]](http://en.wikipedia.org/wiki/Death_squad#cite_note-0)[[2]](http://en.wikipedia.org/wiki/Death_squad#cite_note-1)

     Death squads are often, but not exclusively, associated with the violent [political repression](http://en.wikipedia.org/wiki/Political_repression) under [dictatorships](http://en.wikipedia.org/wiki/Dictatorship), [totalitarian](http://en.wikipedia.org/wiki/Totalitarianism) states and similar regimes. They typically have the tacit or express support of the state, as a whole or in part (see [state terrorism](http://en.wikipedia.org/wiki/State_terrorism)). Death squads may comprise a [secret police](http://en.wikipedia.org/wiki/Secret_police) force, [paramilitary](http://en.wikipedia.org/wiki/Paramilitary) group or official government units with members drawn from the military or the police. They may also be organized as [vigilante](http://en.wikipedia.org/wiki/Vigilantism) groups.

     **Extrajudicial killings** are the illegal killing of leading political, trades union, dissidents, and social figures by either the state government, state authorities like the armed forces and police (as in [Liberia](http://en.wikipedia.org/wiki/Liberia) under [Charles G. Taylor](http://en.wikipedia.org/wiki/Charles_G._Taylor)), or [criminal outfits](http://en.wikipedia.org/wiki/Criminal_outfits) such as the [Italian](http://en.wikipedia.org/wiki/Italy) [Mafia](http://en.wikipedia.org/wiki/Mafia).” [↑](#endnote-ref-499)
500. <http://en.wikipedia.org/wiki/Greater_East_Asia_Co-Prosperity_Sphere>

     “The **Greater East Asia Co-Prosperity Sphere** (大東亜共栄圏 *Dai-tō-a Kyōeiken*) was a concept created and promulgated during the [Shōwa era](http://en.wikipedia.org/wiki/Sh%C5%8Dwa_era) by the government and military of the [Empire of Japan](http://en.wikipedia.org/wiki/Empire_of_Japan). It represented the desire to create a self-sufficient "block of Asian nations led by the Japanese and free of Western powers".[[1]](http://en.wikipedia.org/wiki/Greater_East_Asia_Co-Prosperity_Sphere#cite_note-0)The Japanese Prime Minister [Fumimaro Konoe](http://en.wikipedia.org/wiki/Fumimaro_Konoe) planned the Sphere in 1940 in an attempt to create a Great East Asia, comprising [Japan](http://en.wikipedia.org/wiki/Japan), [Manchukuo](http://en.wikipedia.org/wiki/Manchukuo), [China](http://en.wikipedia.org/wiki/China), and parts of Southeast Asia, that would, according to imperial propaganda, establish a new international order seeking "co prosperity" for Asian countries which would share prosperity and peace, free from Western colonialism and domination.[[2]](http://en.wikipedia.org/wiki/Greater_East_Asia_Co-Prosperity_Sphere#cite_note-i6-1) Military goals of this expansion included naval operations in the [Indian Ocean](http://en.wikipedia.org/wiki/Indian_Ocean) and the isolation of [Australia](http://en.wikipedia.org/wiki/Australia).[[3]](http://en.wikipedia.org/wiki/Greater_East_Asia_Co-Prosperity_Sphere#cite_note-2)This was one of a number of slogans and concepts used in the justification of Japanese aggression in East Asia in the 1930s through the end of [World War II](http://en.wikipedia.org/wiki/World_War_II). The term "Greater East Asia Co-Prosperity Sphere" is remembered largely as a front for the [Japanese](http://en.wikipedia.org/wiki/Empire_of_Japan) control of occupied countries during World War II, in which [puppet governments](http://en.wikipedia.org/wiki/Puppet_government) manipulated local populations and economies for the benefit of [Imperial Japan](http://en.wikipedia.org/wiki/Imperial_Japan).” [↑](#endnote-ref-500)
501. <http://en.wikipedia.org/wiki/Plame_affair>

     “The phrase **Plame Affair** (also known as the **CIA leak scandal**, the **CIA leak case**, the [**CIA**](http://en.wikipedia.org/wiki/CIA) **leak grand jury investigation**, and **Plamegate**) refers to the identification of [Valerie Plame Wilson](http://en.wikipedia.org/wiki/Valerie_Plame) as a covert[[1]](http://en.wikipedia.org/wiki/Plame_affair#cite_note-HaydenInterview-0)[[2]](http://en.wikipedia.org/wiki/Plame_affair#cite_note-Seidman-1) Central Intelligence Agency officer.[[3]](http://en.wikipedia.org/wiki/Plame_affair#cite_note-TheClassifiedInformation-2) Mrs. Wilson's relationship with the CIA was formerly [classified information](http://en.wikipedia.org/wiki/Classified_information).[[1]](http://en.wikipedia.org/wiki/Plame_affair#cite_note-HaydenInterview-0) The disclosure was made in a newspaper column entitled "[Mission to Niger](http://www.washingtonpost.com/wp-dyn/content/article/2005/10/20/AR2005102000874.html)" written by [Robert Novak](http://en.wikipedia.org/wiki/Robert_Novak), and published on July 14, 2003.[[4]](http://en.wikipedia.org/wiki/Plame_affair#cite_note-TheDisclosure-3)Mrs. Wilson's husband, former Ambassador [Joseph C. Wilson](http://en.wikipedia.org/wiki/Joseph_C._Wilson), has stated his opinion in various interviews and subsequent writings (as listed in his 2004 memoir *The Politics of Truth*) that members of former President George W. Bush's administration revealed Mrs. Wilson's covert status as retribution for his op-ed entitled "[What I Didn't Find in Africa](http://query.nytimes.com/gst/fullpage.html?res=9C07E3D61E3AF935A35754C0A9659C8B63).” [↑](#endnote-ref-501)
502. <http://en.wikipedia.org/wiki/Software_patent_debate>

     “The **software patent debate** is the argument dealing with the extent to which it should be possible to [patent software](http://en.wikipedia.org/wiki/Software_patent) and computer-implemented inventions as a matter of [public policy](http://en.wikipedia.org/wiki/Public_policy). Policy debate on software patents has been active for years.[[1]](http://en.wikipedia.org/wiki/Software_patent_debate#cite_note-0) The opponents to software patents have gained higher visibility with lower resources through the years than their pro-patent opponents.[[2]](http://en.wikipedia.org/wiki/Software_patent_debate#cite_note-1) Arguments and critiques have been focused mostly on the economic consequences of software patents. One aspect of the debate has focused on the proposed [European Union](http://en.wikipedia.org/wiki/European_Union) [directive on the patentability of computer-implemented inventions](http://en.wikipedia.org/wiki/Proposed_directive_on_the_patentability_of_computer-implemented_inventions), also known as the "CII Directive" or the "Software Patent Directive," which was ultimately rejected by the [EU Parliament](http://en.wikipedia.org/wiki/European_Parliament) in July 2005.” [↑](#endnote-ref-502)
503. <http://en.wikipedia.org/wiki/Submarine_patent>

     “A **submarine patent** is a [patent](http://en.wikipedia.org/wiki/Patent) whose issuance and publication are intentionally delayed by the applicant for a long time, such as several years.[[1]](http://en.wikipedia.org/wiki/Submarine_patent#cite_note-congress-112-0)[[2]](http://en.wikipedia.org/wiki/Submarine_patent#cite_note-1)[[3]](http://en.wikipedia.org/wiki/Submarine_patent#cite_note-2) This strategy requires a patent system where patent applications are not published. In the United States, [patent applications](http://en.wikipedia.org/wiki/Patent_application) filed before November 2000 were not published and remained secret until they were granted. Analogous to a [submarine](http://en.wikipedia.org/wiki/Submarine), therefore, submarine patents could stay "under water" for long periods until they "emerged" and surprised the relevant market. Persons or companies making use of submarine patents are sometimes referred to as **patent pirates**.[[4]](http://en.wikipedia.org/wiki/Submarine_patent#cite_note-3) [[5]](http://en.wikipedia.org/wiki/Submarine_patent#cite_note-4)The term is occasionally used more generally for any patent used in [patent ambush](http://en.wikipedia.org/wiki/Patent_ambush).[[6]](http://en.wikipedia.org/wiki/Submarine_patent#cite_note-5)[[7]](http://en.wikipedia.org/wiki/Submarine_patent#cite_note-6)[[8]](http://en.wikipedia.org/wiki/Submarine_patent#cite_note-7)[[9]](http://en.wikipedia.org/wiki/Submarine_patent#cite_note-8)” [↑](#endnote-ref-503)
504. <http://en.wikipedia.org/wiki/Copyright>

     “**Copyright** is the set of [exclusive rights](http://en.wikipedia.org/wiki/Exclusive_rights) granted to the author or creator of an original work, including the right to copy, distribute and adapt the work. These rights can be licensed, transferred and/or assigned. Copyright lasts for a certain time period after which the work is said to enter the [public domain](http://en.wikipedia.org/wiki/Public_domain). Copyright applies to a wide range of works that are substantive and fixed in a medium. Some jurisdictions also recognize "[moral rights](http://en.wikipedia.org/wiki/Moral_rights_%28copyright_law%29)" of the creator of a work, such as the right to be credited for the work. The [Statute of Anne](http://en.wikipedia.org/wiki/Statute_of_Anne) 1709, full title "An Act for the Encouragement of Learning, by vesting the Copies of Printed Books in the Authors or purchasers of such Copies, during the Times therein mentioned", is now seen as the origin of copyright law.[[1]](http://en.wikipedia.org/wiki/Copyright#cite_note-Brad_1999_207-0) Since the 19th Century copyright is described under the umbrella term [intellectual property](http://en.wikipedia.org/wiki/Intellectual_property) along with [patents](http://en.wikipedia.org/wiki/Patents) and [trademarks](http://en.wikipedia.org/wiki/Trademarks).” [↑](#endnote-ref-504)
505. <http://en.wikipedia.org/wiki/2007%E2%80%932008_Writers_Guild_of_America_strike>

     “The **2007–2008 Writers Guild of America strike**, more commonly known as the **Writers' Strike**, was a [strike](http://en.wikipedia.org/wiki/Strike_action) by the [Writers Guild of America, East](http://en.wikipedia.org/wiki/Writers_Guild_of_America,_East) (WGAE) and the [Writers Guild of America, West](http://en.wikipedia.org/wiki/Writers_Guild_of_America,_West) (WGAW).[[1]](http://en.wikipedia.org/wiki/2007%E2%80%932008_Writers_Guild_of_America_strike#cite_note-nytimes_07-11-02-0) The WGAE and WGAW [labor unions](http://en.wikipedia.org/wiki/Labor_union) represent film, television, and radio writers working in the United States. More than 12,000 writers joined the strike[[2]](http://en.wikipedia.org/wiki/2007%E2%80%932008_Writers_Guild_of_America_strike" \l "cite_note-slt-110407-1) which started on November 5, 2007 and concluded on February 12, 2008.[[3]](http://en.wikipedia.org/wiki/2007%E2%80%932008_Writers_Guild_of_America_strike#cite_note-2)The strike's goal was to rectify what was perceived as a historical injustice: the greatly diminished monetary compensation the writers got in comparison with the profits of the larger studios. It was targeted at the [Alliance of Motion Picture and Television Producers](http://en.wikipedia.org/wiki/Alliance_of_Motion_Picture_and_Television_Producers) (AMPTP), a [trade organization](http://en.wikipedia.org/wiki/Trade_organization) representing the interests of 397 American film and television producers.[[4]](http://en.wikipedia.org/wiki/2007%E2%80%932008_Writers_Guild_of_America_strike#cite_note-3) The most influential of these are ten corporations: [CBS](http://en.wikipedia.org/wiki/CBS_Corporation) (headed by [Les Moonves](http://en.wikipedia.org/wiki/Les_Moonves)), [MGM](http://en.wikipedia.org/wiki/Metro-Goldwyn-Mayer) (headed by Harry E. Sloan), [NBC Universal](http://en.wikipedia.org/wiki/NBC_Universal) (headed by [Jeffrey Zucker](http://en.wikipedia.org/wiki/Jeffrey_Zucker)), [The Weinstein Company](http://en.wikipedia.org/wiki/The_Weinstein_Company) (headed by [Harvey Weinstein](http://en.wikipedia.org/wiki/Harvey_Weinstein) and [Bob Weinstein](http://en.wikipedia.org/wiki/Bob_Weinstein)), [Lionsgate](http://en.wikipedia.org/wiki/Lionsgate) (headed by [Jon Feltheimer](http://en.wikipedia.org/wiki/Jon_Feltheimer)), [News Corp](http://en.wikipedia.org/wiki/News_Corp)/[Fox](http://en.wikipedia.org/wiki/Fox_Entertainment_Group) (headed by [Peter Chernin](http://en.wikipedia.org/wiki/Peter_Chernin)), [Paramount Pictures](http://en.wikipedia.org/wiki/Paramount_Pictures) (headed by [Brad Grey](http://en.wikipedia.org/wiki/Brad_Grey)), [Anchor Bay](http://en.wikipedia.org/wiki/Anchor_Bay_Entertainment)/[Liberty Media](http://en.wikipedia.org/wiki/Liberty_Media)/[Starz](http://en.wikipedia.org/wiki/Starz_%28TV_channel%29) (headed by Chris McGurk), [Sony Pictures](http://en.wikipedia.org/wiki/Sony_Pictures_Entertainment) (headed by [Michael Lynton](http://en.wikipedia.org/wiki/Michael_Lynton)), the [Walt Disney Company](http://en.wikipedia.org/wiki/Walt_Disney_Company) (headed by [Robert Iger](http://en.wikipedia.org/wiki/Robert_Iger)), and [Warner Bros.](http://en.wikipedia.org/wiki/Warner_Bros.) (headed by [Barry Meyer](http://en.wikipedia.org/wiki/Barry_Meyer)).[[5]](http://en.wikipedia.org/wiki/2007%E2%80%932008_Writers_Guild_of_America_strike#cite_note-4)” [↑](#endnote-ref-505)
506. <http://en.wikipedia.org/wiki/Creative_Commons>

     “**Creative Commons** (**CC**) is a [non-profit organization](http://en.wikipedia.org/wiki/Non-profit_organization) headquartered in [San Francisco, California](http://en.wikipedia.org/wiki/San_Francisco,_California), United States devoted to expanding the range of [creative](http://en.wikipedia.org/wiki/Creativity) works available for others to build upon legally and to share.[[1]](http://en.wikipedia.org/wiki/Creative_Commons#cite_note-0) The organization has released several [copyright](http://en.wikipedia.org/wiki/Copyright)-[licenses](http://en.wikipedia.org/wiki/License) known as [Creative Commons licenses](http://en.wikipedia.org/wiki/Creative_Commons_licenses) free of charge to the public. These licenses allow creators to communicate which rights they reserve, and which rights they [waive](http://en.wikipedia.org/wiki/Waive) for the benefit of recipients or other creators. An easy to understand one-page explanation of rights, with associated visual symbols, explains the specifics of each Creative Commons license. This simplicity distinguishes Creative Commons from an all rights reserved copyright. Creative Commons was invented to create a more flexible copyright model, replacing "all rights reserved" with “some rights reserved”. [Wikipedia](http://en.wikipedia.org/wiki/Wikipedia) is one of the notable web-based projects using one of its licenses.” [↑](#endnote-ref-506)
507. <http://en.wikipedia.org/wiki/Jamendo>

     “**Jamendo** is a music platform and community. All music on Jamendo is free to download and licensed through one of several [Creative Commons](http://en.wikipedia.org/wiki/Creative_Commons) licenses or the [Free Art License](http://en.wikipedia.org/wiki/Free_Art_License), making it legal to copy and share, as well as to modify and make commercial use of for some, depending on the license. Jamendo allows streaming of all of its thousands of albums in either [Ogg Vorbis](http://en.wikipedia.org/wiki/Ogg_Vorbis) or [MP3](http://en.wikipedia.org/wiki/MP3) format, and downloads through the [BitTorrent](http://en.wikipedia.org/wiki/BitTorrent_%28protocol%29) and [eDonkey](http://en.wikipedia.org/wiki/EDonkey) networks.” [↑](#endnote-ref-507)
508. <http://en.wikipedia.org/wiki/Comparison_of_BitTorrent_clients>

     “A **BitTorrent client** is a [computer program](http://en.wikipedia.org/wiki/Computer_program) that manages [downloads and uploads](http://en.wikipedia.org/wiki/Uploading_and_downloading) using the [BitTorrent protocol](http://en.wikipedia.org/wiki/BitTorrent_%28protocol%29). The first [client](http://en.wikipedia.org/wiki/Client_%28computing%29), known as [BitTorrent](http://en.wikipedia.org/wiki/BitTorrent_%28software%29), was created by [Bram Cohen](http://en.wikipedia.org/wiki/Bram_Cohen), in October 2002. Many subsequent clients have been at least partially based on it. Not all clients were originally built for BitTorrent, having added support for the protocol later on. There have been attempts to package [malware](http://en.wikipedia.org/wiki/Malware) as BitTorrent clients, probably due to the availability of many legitimate clients and users' willingness to try new ones.” [↑](#endnote-ref-508)
509. <http://en.wikipedia.org/wiki/Botnet>

     “The main drivers for botnets are for recognition and financial gain. The larger the botnet, the more ‘kudos’ the herder can claim to have among the underground community. The bot herder will also ‘rent’ the services of the botnet out to third parties, usually for sending out spam messages, or for performing a denial of service attack against a remote target. Due to the large numbers of compromised machines within the botnet huge volumes of traffic (either email or denial of service) can be generated. However, in recent times the volumes of spam originating from a single compromised host have dropped in order to thwart anti-spam detection algorithms – a larger number of compromised hosts send a smaller amount of messages in order to evade detection by [anti-spam techniques](http://en.wikipedia.org/wiki/Anti-spam_techniques). Botnets have become a significant part of the [Internet](http://en.wikipedia.org/wiki/Internet), albeit increasingly hidden. Due to most conventional IRC networks taking measures and blocking access to previously-hosted botnets, controllers must now find their own servers. Often, a botnet will include a variety of connections and network types. Sometimes a controller will hide an IRC server installation on an educational or corporate site where high-speed connections can support a large number of other bots. Exploitation of this method of using a bot to host other bots has proliferated only recently as most [script kiddies](http://en.wikipedia.org/wiki/Script_kiddie) do not have the knowledge to take advantage of it. Several botnets have been found and removed from the Internet. The [Dutch police](http://en.wikipedia.org/wiki/Dutch_police) found a 1.5 million node botnet[[1]](http://en.wikipedia.org/wiki/Botnet" \l "cite_note-0) and the Norwegian ISP [Telenor](http://en.wikipedia.org/wiki/Telenor) disbanded a 10,000-node botnet.[[2]](http://en.wikipedia.org/wiki/Botnet#cite_note-1) In July 2010, the FBI arrested a 23-year old Slovenian held responsible for the malicious software that integrated an estimated 12 million computers into a botnet.[[3]](http://en.wikipedia.org/wiki/Botnet#cite_note-2) Large coordinated international efforts to shut down botnets have also been initiated.[[4]](http://en.wikipedia.org/wiki/Botnet#cite_note-3) It has been estimated that up to one quarter of all personal computers connected to the internet may be part of a botnet.[[5]](http://en.wikipedia.org/wiki/Botnet#cite_note-4)” [↑](#endnote-ref-509)
510. <http://en.wikipedia.org/wiki/Insurgency>

     “An **insurgency** is an armed [rebellion](http://en.wikipedia.org/wiki/Rebellion) against a constituted authority (for example, an authority recognised as such by the [United Nations](http://en.wikipedia.org/wiki/United_Nations)) when those taking part in the rebellion are not recognised as [belligerents](http://en.wikipedia.org/wiki/Belligerent).[[1]](http://en.wikipedia.org/wiki/Insurgency#cite_note-0) An insurgency can be fought via [counter-insurgency](http://en.wikipedia.org/wiki/Counter-insurgency) warfare. Not all rebellions are insurgencies, because a state of belligerency may exist between one or more sovereign states and rebel forces. For example, during the [American Civil War](http://en.wikipedia.org/wiki/American_Civil_War), the [Confederate States of America](http://en.wikipedia.org/wiki/Confederate_States_of_America) was [not recognized](http://en.wikipedia.org/wiki/Non-recognized_nations) as a sovereign state[[*citation needed*](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed)], but it was recognized as a belligerent power, and thus Confederate warships were given the same rights as United States warships in foreign ports. [[2]](http://en.wikipedia.org/wiki/Insurgency#cite_note-hall-246-1)[[3]](http://en.wikipedia.org/wiki/Insurgency#cite_note-US-S-D-2)[[4]](http://en.wikipedia.org/wiki/Insurgency#cite_note-Goldstein-63-3)When insurgency is used to describe a movement's unlawfulness by virtue of not being authorized by or in accordance with the [law](http://en.wikipedia.org/wiki/Law) of the land, its use is neutral. However when it is used by a state or another authority under threat, "insurgency" often also carries an implication that the rebels' cause is illegitimate, whereas those rising up will see the authority itself as being illegitimate.” [↑](#endnote-ref-510)
511. <http://en.wikipedia.org/wiki/Linux>

     “Today Linux distributions are used in numerous domains, from [embedded systems](http://en.wikipedia.org/wiki/Embedded_system) to [supercomputers](http://en.wikipedia.org/wiki/Supercomputer),[[22]](http://en.wikipedia.org/wiki/Linux#cite_note-21)[[23]](http://en.wikipedia.org/wiki/Linux#cite_note-22) and have secured a place in [server](http://en.wikipedia.org/wiki/Server_%28computing%29) installations with the popular [LAMP](http://en.wikipedia.org/wiki/LAMP_%28software_bundle%29) application stack.[[24]](http://en.wikipedia.org/wiki/Linux#cite_note-23) Use of Linux distributions in home and enterprise desktops has been expanding.[[25]](http://en.wikipedia.org/wiki/Linux#cite_note-galli2007-24)[[26]](http://en.wikipedia.org/wiki/Linux#cite_note-paul2007-25)[[27]](http://en.wikipedia.org/wiki/Linux#cite_note-beer2007-26)[[28]](http://en.wikipedia.org/wiki/Linux#cite_note-applications2007-27)[[29]](http://en.wikipedia.org/wiki/Linux#cite_note-xitimonitor2007-28)[[30]](http://en.wikipedia.org/wiki/Linux#cite_note-globalstats2007-29)[[31]](http://en.wikipedia.org/wiki/Linux#cite_note-zeitgeist2004-30) They have also gained popularity with various local and national governments. The federal government of Brazil is well known for its support for Linux.[[32]](http://en.wikipedia.org/wiki/Linux#cite_note-31)[[33]](http://en.wikipedia.org/wiki/Linux#cite_note-32) News of the Russian military creating their own Linux distribution has also surfaced, and has come to fruition as the G.H.ost Project.[[34]](http://en.wikipedia.org/wiki/Linux#cite_note-33) The Indian state of [Kerala](http://en.wikipedia.org/wiki/Kerala) has gone to the extent of mandating for all state high schools to run Linux on their computers.[[35]](http://en.wikipedia.org/wiki/Linux#cite_note-34)[[36]](http://en.wikipedia.org/wiki/Linux#cite_note-35) [China](http://en.wikipedia.org/wiki/People%27s_Republic_of_China) uses Linux exclusively as the operating system for its [Loongson](http://en.wikipedia.org/wiki/Loongson) processor family to achieve technology independence.[[37]](http://en.wikipedia.org/wiki/Linux#cite_note-36) In [Spain](http://en.wikipedia.org/wiki/Spain) some regions have developed their own Linux distributions, which are widely used in education and official institutions, like [gnuLinEx](http://en.wikipedia.org/wiki/GnuLinEx) in [Extremadura](http://en.wikipedia.org/wiki/Extremadura) and [Guadalinex](http://en.wikipedia.org/wiki/Guadalinex) in [Andalusia](http://en.wikipedia.org/wiki/Andalusia). [Portugal](http://en.wikipedia.org/wiki/Portugal) is also using its own Linux distribution [Caixa Mágica](http://en.wikipedia.org/wiki/Caixa_M%C3%A1gica), used in the Magalhães netbook[[38]](http://en.wikipedia.org/wiki/Linux" \l "cite_note-37) and the e-escola government program.[[39]](http://en.wikipedia.org/wiki/Linux#cite_note-38) [France](http://en.wikipedia.org/wiki/France) and [Germany](http://en.wikipedia.org/wiki/Germany) have also taken steps towards the adoption of Linux.[[40]](http://en.wikipedia.org/wiki/Linux#cite_note-39)Linux distributions have also become popular with the newly founded [netbook](http://en.wikipedia.org/wiki/Netbook) market, with many devices such as the [ASUS Eee PC](http://en.wikipedia.org/wiki/Eee_pc) and [Acer Aspire One](http://en.wikipedia.org/wiki/Aspire_One) shipping with customized Linux distributions installed.[[41]](http://en.wikipedia.org/wiki/Linux#cite_note-40)Torvalds continues to direct the development of the kernel. Stallman heads the Free Software Foundation, which in turn supports the GNU components. Finally, individuals and corporations develop third-party non-GNU components. These third-party components comprise a vast body of work and may include both kernel modules and user applications and libraries. Linux vendors and communities combine and distribute the kernel, GNU components, and non-GNU components, with additional package management software in the form of [Linux distributions](http://en.wikipedia.org/wiki/Linux_distribution).” [↑](#endnote-ref-511)
512. <http://en.wikipedia.org/wiki/GNU_GPL>

     “The **GNU General Public License** (**GNU GPL** or simply **GPL**) is the most widely used [free software license](http://en.wikipedia.org/wiki/Free_software_license), originally written by [Richard Stallman](http://en.wikipedia.org/wiki/Richard_Stallman) for the [GNU project](http://en.wikipedia.org/wiki/GNU_project). The GPL is the first and foremost [copyleft](http://en.wikipedia.org/wiki/Copyleft) license, which means that derived works can only be distributed under the same license terms. Under this philosophy, the GPL grants the recipients of a [computer program](http://en.wikipedia.org/wiki/Computer_program) the rights of the [free software definition](http://en.wikipedia.org/wiki/The_Free_Software_Definition) and uses copyleft to ensure the freedoms are preserved, even when the work is changed or added to. This is in distinction to [permissive free software licenses](http://en.wikipedia.org/wiki/Permissive_free_software_licenses), of which the [BSD licenses](http://en.wikipedia.org/wiki/BSD_licenses) are the standard examples. The text of the GPL is not itself under the GPL. The license's copyright disallows modification of the license. Copying and distributing the license is allowed since the GPL requires recipients get "a copy of this License along with the Program".[[5]](http://en.wikipedia.org/wiki/GNU_GPL#cite_note-4) According to the GPL FAQ, anyone can modify the license as long as they use a different name for the license, don't mention "GNU" and remove the preamble. The preamble can be used in a modified license with permission of the [Free Software Foundation](http://en.wikipedia.org/wiki/Free_Software_Foundation) (FSF).” [↑](#endnote-ref-512)
513. <http://en.wikipedia.org/wiki/Jerry_Springer>

     “In early 1994, Springer and his new producer, Richard Dominick, revamped the show's format in order to garner higher ratings. The show became more and more successful as it became more and more lowbrow, with an emphasis on infidelity. Its guests were typically lower class, minimally-educated, Blue collar people confronted on a television stage by a spouse or family member's adultery, homosexuality, prostitution, transvestism, hate group membership, or other controversial situations. These confrontations often led to shouting, profanities, chair-throwing, fist-fights, pulling of hair by fighting women, and removal of clothing. Female guests also receive 'Jerry Beads' for exposing their breasts to the studio audience, in the style of [Mardi Gras](http://en.wikipedia.org/wiki/Mardi_Gras) revelers. The show garnered huge ratings, and lots of attention. By 1998, it was beating [*Oprah Winfrey*](http://en.wikipedia.org/wiki/The_Oprah_Winfrey_Show) in many cities, and was reaching more than 6.7 million viewers. (Waxman, 1998)” [↑](#endnote-ref-513)
514. <http://en.wikipedia.org/wiki/Judge_Judy>

     “Once all the cases are through, all of the audience members receive payment.[[10]](http://en.wikipedia.org/wiki/Judge_Judy#cite_note-tvtix.com-9) The extras must not dress casually, and no logos or brand names may be visible on their clothing. Extras are also instructed to appear as if they are having discussions with each other before and after each case, so the bailiff may make such announcements as "Order! All rise" and "Parties are excused; you may step out."[[11]](http://en.wikipedia.org/wiki/Judge_Judy#cite_note-10) As far as the court cases are concerned, however, what is seen on *Judge Judy* is neither staged nor scripted. The plaintiffs have actually [sued](http://en.wikipedia.org/wiki/Filing_%28legal%29) the defendants, and those very cases are heard and decided upon by Judith Sheindlin. The court show acquires cases by people submitting claims into them via their [website](http://en.wikipedia.org/wiki/Website) or [phone number](http://en.wikipedia.org/wiki/Phone_number).[[12]](http://en.wikipedia.org/wiki/Judge_Judy#cite_note-11)

     The producers' employees call both parties and ask them questions about their case to make sure it is suitable for *Judge Judy*. If the parties agree to be on the show and sign a [waiver](http://en.wikipedia.org/wiki/Waiver), agreeing that [arbitration](http://en.wikipedia.org/wiki/Arbitration) in Sheindlin's court is final and cannot be pursued elsewhere (unless she dismisses the lawsuit [without prejudice](http://en.wikipedia.org/wiki/Prejudice_%28legal_procedure%29)), their case will air on *Judge Judy*.[[13]](http://en.wikipedia.org/wiki/Judge_Judy#cite_note-abanet.org-12) The award limit on *Judge Judy*, as on most "syndi-court" shows (and most small claims courts in the U.S.), is $5,000. The award for each judgment is paid by the producers of the show, from a fund reserved for each case. About forty percent of the cases are money judgments, while the remaining sixty percent are either [dismissed](http://en.wikipedia.org/wiki/Dismissed) or involve an order for an exchange of property.[[14]](http://en.wikipedia.org/wiki/Judge_Judy#cite_note-transcripts.cnn.com-13)” [↑](#endnote-ref-514)
515. <http://en.wikipedia.org/wiki/Air_America_%28radio_network%29>

     “**Air America** (formerly **Air America Radio** and **Air America Media**) was an [American](http://en.wikipedia.org/wiki/Radio_in_the_United_States) [radio network](http://en.wikipedia.org/wiki/Radio_network) specializing in progressive or liberal [talk programming](http://en.wikipedia.org/wiki/Talk_radio). It was on the air for a little less than six years, from March 2004 to January 2010.

     The network featured discussion and information programs with hosts reflecting liberal or progressive points of view and specialized in presentations and monologues by on-air personalities, guest interviews, calls by listeners, and news reports. At the end of the network's existence, Air America's most popular host, [Lionel](http://en.wikipedia.org/wiki/Lionel_%28radio_personality%29), was estimated to have somewhat more than 1.75 million unique listeners a week.[[1]](http://en.wikipedia.org/wiki/Air_America_%28radio_network%29#cite_note-0)” [↑](#endnote-ref-515)
516. <http://en.wikipedia.org/wiki/Peter_Schiff>

     “In his 2007 book, *Crash Proof*, Schiff writes that the current United States economic policies are fundamentally unsound, and predicts that in the future the United States dollar will lose much of its value.[[3]](http://en.wikipedia.org/wiki/Peter_Schiff#cite_note-crashproof-2)Schiff feels that the imbalance between the amount of goods the U.S. consumes and what it produces will eventually lead to problems for the U.S. economy.[[28]](http://en.wikipedia.org/wiki/Peter_Schiff#cite_note-27)[[29]](http://en.wikipedia.org/wiki/Peter_Schiff#cite_note-28) As a remedy Schiff favors increased personal savings and production which he says will stimulate economic growth.[[30]](http://en.wikipedia.org/wiki/Peter_Schiff#cite_note-29) Schiff cites the U.S.'s low personal savings rate as one of the causes of the its transformation from the world's largest creditor nation in the 1970s to the largest debtor nation in the year 2000.[[31]](http://en.wikipedia.org/wiki/Peter_Schiff#cite_note-30) Schiff attributes the low savings rate to higher inflation and the artificially low interest rates set by the [Federal Reserve](http://en.wikipedia.org/wiki/Federal_Reserve).[[32]](http://en.wikipedia.org/wiki/Peter_Schiff#cite_note-31)In a 2002 interview with *Southland Today*, Schiff predicted that the economic downtown triggered by the bursting of the stock market bubble would lead to a bear market likely to last "another 5 to 10 years."[[33]](http://en.wikipedia.org/wiki/Peter_Schiff#cite_note-critics-32)[[34]](http://en.wikipedia.org/wiki/Peter_Schiff#cite_note-emperor-33) In November 2002, US stocks began a bull market uptrend which held steady for at least five years,[[35]](http://en.wikipedia.org/wiki/Peter_Schiff#cite_note-34) until reversing course in 2008, when the Dow, NASDAQ, and S&P 500 began a decline to less than half of their peak 2008 values,[[36]](http://en.wikipedia.org/wiki/Peter_Schiff#cite_note-35) followed in 2009 by the Dow climbing 61% from its low point over the following year.[[37]](http://en.wikipedia.org/wiki/Peter_Schiff#cite_note-36) After interviewing Schiff in 2009, journalist and finance author Eric Tyson, referenced various Schiff predictions during the 2000s and stated that "On all of these counts, Schiff wasn't just wrong but ended up being hugely wrong."[[38]](http://en.wikipedia.org/wiki/Peter_Schiff#cite_note-tyson-37) Schiff later released a video stating that, "When I gave that interview in 2002, I had no way of knowing how irresponsible the Fed was going to be ... But I recognized that early: back in 2003 and 2004 I changed my forecast ... if you look at what happened to the Dow in terms of gold [and not U.S. dollars], my forecast was extremely accurate."[[33]](http://en.wikipedia.org/wiki/Peter_Schiff#cite_note-critics-32)In an August 2006 interview he said: "The [United States economy](http://en.wikipedia.org/wiki/United_States_economy) is like the [Titanic](http://en.wikipedia.org/wiki/RMS_Titanic) and I am here with the lifeboat trying to get people to leave the ship... I see a real financial crisis coming for the United States."[[39]](http://en.wikipedia.org/wiki/Peter_Schiff#cite_note-Kitco-38) On December 31, 2006 in debate on Fox News, Schiff forecast that "what's going to happen in 2007" is that "real estate prices are going to come crashing back down to Earth".[[39]](http://en.wikipedia.org/wiki/Peter_Schiff#cite_note-Kitco-38) [↑](#endnote-ref-516)
517. <http://en.wikipedia.org/wiki/Nouriel_Roubini>

     “In 2008, *Fortune* magazine wrote that: "In 2005 Roubini said home prices were riding a speculative wave that would soon sink the economy. Back then the professor was called a [Cassandra](http://en.wikipedia.org/wiki/Cassandra). Now he's a sage".[[1]](http://en.wikipedia.org/wiki/Nouriel_Roubini#cite_note-0) In September 2006, he warned to a skeptical IMF that: "The United States was likely to face a once-in-a-lifetime housing bust, an oil shock, sharply declining consumer confidence, and, ultimately, a deep recession".[[2]](http://en.wikipedia.org/wiki/Nouriel_Roubini#cite_note-NYT-1) He also foresaw "homeowners defaulting on mortgages, trillions of dollars of mortgage-backed securities unraveling worldwide and the global financial system shuddering to a halt".[[*citation needed*](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed)] The *New York Times* labeled him "Doctor Doom", whereas, in hindsight, IMF economist [Prakash Loungani](http://en.wikipedia.org/w/index.php?title=Prakash_Loungani&action=edit&redlink=1) has called him "a prophet".[[2]](http://en.wikipedia.org/wiki/Nouriel_Roubini#cite_note-NYT-1)As Roubini's descriptions of the current economic crisis have proven to be accurate, he is today a major figure in the U.S. and international debate about the economy, and spends much of his time shuttling between meetings with [central bank](http://en.wikipedia.org/wiki/Central_bank) governors and [finance ministers](http://en.wikipedia.org/wiki/Finance_minister) in Europe and Asia.[[2]](http://en.wikipedia.org/wiki/Nouriel_Roubini#cite_note-NYT-1). Although he is ranked only 410th in terms of lifetime academic citations,[[3]](http://en.wikipedia.org/wiki/Nouriel_Roubini" \l "cite_note-2) [*Prospect Magazine*](http://en.wikipedia.org/wiki/Prospect_Magazine), in January 2009, voted him #2 on its "list of the world’s 100 greatest living public intellectuals".[[4]](http://en.wikipedia.org/wiki/Nouriel_Roubini#cite_note-Prospect-3) In 2009, Roubini was ranked #4 on [*Foreign Policy*](http://en.wikipedia.org/wiki/Foreign_Policy) magazine's list of the "top 100 global thinkers", and named one of the [100 most influential people](http://en.wikipedia.org/wiki/Time_100) in the world by [*Time*](http://en.wikipedia.org/wiki/Time_%28magazine%29) magazine.[[5]](http://en.wikipedia.org/wiki/Nouriel_Roubini#cite_note-time100-4)[[6]](http://en.wikipedia.org/wiki/Nouriel_Roubini#cite_note-fptop100-5) He has appeared before Congress, the [Council on Foreign Relations](http://en.wikipedia.org/wiki/Council_on_Foreign_Relations), and the [World Economic Forum](http://en.wikipedia.org/wiki/World_Economic_Forum) at [Davos](http://en.wikipedia.org/wiki/Davos).” [↑](#endnote-ref-517)
518. <http://en.wikipedia.org/wiki/Racketeer_Influenced_and_Corrupt_Organizations_Act>

     “Under RICO, a person who is a member of an enterprise that has committed any two of 35 crimes—27 [federal crimes](http://en.wikipedia.org/wiki/Federal_crime) and 8 [state crimes](http://en.wikipedia.org/wiki/State_crime)—within a 10-year period can be charged with [racketeering](http://en.wikipedia.org/wiki/Racketeering). Those found guilty of [racketeering](http://en.wikipedia.org/wiki/Racketeering) can be fined up to $25,000 and sentenced to 20 years in prison per [racketeering](http://en.wikipedia.org/wiki/Racketeering) count. In addition, the racketeer must forfeit all ill-gotten gains and interest in any business gained through a pattern of "racketeering activity." RICO also permits a private individual harmed by the actions of such an enterprise to file a [civil suit](http://en.wikipedia.org/wiki/Civil_suit); if successful, the individual can collect [treble damages](http://en.wikipedia.org/wiki/Treble_damages). When the [U.S. Attorney](http://en.wikipedia.org/wiki/U.S._Attorney) decides to indict someone under RICO, he or she has the option of seeking a pre-trial [restraining order](http://en.wikipedia.org/wiki/Restraining_order) or injunction to temporarily seize a defendant's assets and prevent the transfer of potentially forfeitable property, as well as require the defendant to put up a [performance bond](http://en.wikipedia.org/wiki/Performance_bond). This provision was placed in the law because the owners of [Mafia](http://en.wikipedia.org/wiki/Mafia)-related [shell corporations](http://en.wikipedia.org/wiki/Shell_corporation) often absconded with the assets. An injunction and/or performance bond ensures that there is something to seize in the event of a guilty verdict. In many cases, the threat of a RICO indictment can force defendants to plead guilty to lesser charges, in part because the seizure of assets would make it difficult to pay a defense [attorney](http://en.wikipedia.org/wiki/Lawyer). Despite its harsh provisions, a RICO-related charge is considered easy to prove in court, as it focuses on patterns of behavior as opposed to criminal acts.[[4]](http://en.wikipedia.org/wiki/Racketeer_Influenced_and_Corrupt_Organizations_Act#cite_note-Time-3)” [↑](#endnote-ref-518)
519. <http://en.wikipedia.org/wiki/Witness_protection>

     “**Witness protection** is [protection](http://en.wikipedia.org/wiki/Protection) of a threatened [witness](http://en.wikipedia.org/wiki/Witness), before, during and after a [trial](http://en.wikipedia.org/wiki/Trial_%28law%29), usually by [police](http://en.wikipedia.org/wiki/Police). While a witness may only require protection until the conclusion of a trial, some witnesses are provided with new [identity](http://en.wikipedia.org/wiki/Identity_creation) and may live out the rest of their lives under government protection. Witness protection is usually required in trials against [organized crime](http://en.wikipedia.org/wiki/Organized_crime), where law enforcement sees a risk for witnesses to be [intimidated](http://en.wikipedia.org/wiki/Intimidate) by colleagues of [defendants](http://en.wikipedia.org/wiki/Defendant). It is also used at [war crime](http://en.wikipedia.org/wiki/War_crime) trials.” [↑](#endnote-ref-519)
520. <http://en.wikipedia.org/wiki/%C3%89minence_grise>

     “An **éminence grise** ([French](http://en.wikipedia.org/wiki/French_language) for "**grey eminence**") is a powerful advisor or decision-maker who operates secretly or unofficially. This phrase originally referred to [François Leclerc du Tremblay](http://en.wikipedia.org/wiki/Fran%C3%A7ois_Leclerc_du_Tremblay), the right-hand man of [Cardinal Richelieu](http://en.wikipedia.org/wiki/Cardinal_Richelieu). Leclerc was a [Capuchin friar](http://en.wikipedia.org/wiki/Capuchin_friar) who wore grey, or rather brown, robes. Brown or light brown (now called "beige") was called grey in that era.[[*citation needed*](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed)] The phrase "[His Eminence](http://en.wikipedia.org/wiki/His_Eminence)" is [used to address or reference](http://en.wikipedia.org/wiki/Ecclesiastical_Addresses) a [Cardinal](http://en.wikipedia.org/wiki/Cardinal_%28Catholicism%29) in the [Roman Catholic Church](http://en.wikipedia.org/wiki/Roman_Catholic_Church). Although Leclerc du Tremblay never achieved that rank, it is probable that those around him may have addressed him thus in reference to the considerable influence this "grey friar" held over "his Eminence the Cardinal". [Aldous Huxley](http://en.wikipedia.org/wiki/Aldous_Huxley) wrote an [English](http://en.wikipedia.org/wiki/English_language) biography of Leclerc entitled [*Grey Eminence*](http://en.wikipedia.org/wiki/Grey_Eminence), and there is also an 1873 painting by [Jean-Léon Gérôme](http://en.wikipedia.org/wiki/Jean-L%C3%A9on_G%C3%A9r%C3%B4me), "L'Éminence Grise," which depicts him descending the grand staircase of the [Palais Cardinal](http://en.wikipedia.org/wiki/Palais-Royal). A *grey eminence* may alternatively mean an elderly (grey-haired) individual who is eminent for accomplishments in the past, but today acts as an advisor rather than a principal actor, and may be politically influential as a consequence of his honored status. For example a distinguished retired physics professor; a politician who retired with a good reputation; etc.” [↑](#endnote-ref-520)
521. <http://en.wikipedia.org/wiki/Enron_scandal>

     “Enron's shareholders lost $74 billion in the four years before the company's bankruptcy ($40 to $45 billion was attributed to fraud).[[145]](http://en.wikipedia.org/wiki/Enron_scandal#cite_note-74BEnron-144) As Enron had nearly $67 billion that it owed creditors, employees and shareholders received limited, if any, assistance aside from severance from Enron.[[146]](http://en.wikipedia.org/wiki/Enron_scandal#cite_note-67BillionNYT-145) To pay its creditors, Enron held auctions to sell its assets including art, photographs, logo signs, and its pipelines.[[147]](http://en.wikipedia.org/wiki/Enron_scandal#cite_note-ArtNYT-146)[[148]](http://en.wikipedia.org/wiki/Enron_scandal#cite_note-TiltedE-147)[[149]](http://en.wikipedia.org/wiki/Enron_scandal#cite_note-SellPipes-148)More than 20,000 of Enron's former employees in May 2004 won a suit of $85 million for compensation of $2 billion that was lost from their pensions. From the settlement, the employees each received about $3,100 each.[[150]](http://en.wikipedia.org/wiki/Enron_scandal#cite_note-May04Settlement-149) The following year, investors received another settlement from several banks of $4.2 billion.[[145]](http://en.wikipedia.org/wiki/Enron_scandal#cite_note-74BEnron-144) In September 2008, a $7.2-billion settlement from a $40-billion lawsuit, was reached on behalf of the shareholders. The settlement was distributed among the lead plaintiff, [University of California](http://en.wikipedia.org/wiki/University_of_California) (UC), and 1.5 million individuals and groups. UC's law firm [Coughlin Stoia Geller Rudman and Robbins](http://en.wikipedia.org/wiki/Coughlin_Stoia_Geller_Rudman_and_Robbins), received $688 million in fees, the highest in a U.S. securities fraud case.[[151]](http://en.wikipedia.org/wiki/Enron_scandal#cite_note-72BillionSet-150) At the distribution, UC announced "We are extremely pleased to be returning these funds to the members of the class. Getting here has required a long, challenging effort, but the results for Enron investors are unprecedented."[[152]](http://en.wikipedia.org/wiki/Enron_scandal#cite_note-Distribution-151) [↑](#endnote-ref-521)
522. <http://en.wikipedia.org/wiki/1992_Los_Angeles_riots>

     “Another explanation which was offered for the riots was the extremely high unemployment among the residents of [South Central Los Angeles](http://en.wikipedia.org/wiki/South_Central_Los_Angeles), which had been hit very hard by the [nation-wide recession](http://en.wikipedia.org/wiki/Late_1980s_recession),[[41]](http://en.wikipedia.org/wiki/1992_Los_Angeles_riots#cite_note-40) and the high levels of poverty there.[[42]](http://en.wikipedia.org/wiki/1992_Los_Angeles_riots#cite_note-41) Articles in the [*Los Angeles Times*](http://en.wikipedia.org/wiki/Los_Angeles_Times) and [*New York Times*](http://en.wikipedia.org/wiki/New_York_Times) linked the economic deterioration of South Central to the declining living conditions of the residents, and suggested that local resentments about these conditions helped to fuel the riots.[[43]](http://en.wikipedia.org/wiki/1992_Los_Angeles_riots#cite_note-42)[[44]](http://en.wikipedia.org/wiki/1992_Los_Angeles_riots#cite_note-43)[[45]](http://en.wikipedia.org/wiki/1992_Los_Angeles_riots#cite_note-44)[[46]](http://en.wikipedia.org/wiki/1992_Los_Angeles_riots#cite_note-45)[[47]](http://en.wikipedia.org/wiki/1992_Los_Angeles_riots#cite_note-46) Social commentator [Mike Davis](http://en.wikipedia.org/wiki/Mike_Davis_%28scholar%29) pointed to the growing economic disparity in Los Angeles in the years leading up to the riots caused by corporate restructuring and government deregulation, with inner-city residents bearing the brunt of these changes. Such conditions engendered a widespread feeling of frustration and powerlessness in the urban populace, with the King verdicts eventually setting off their resentments in a violent expression of collective public protest.[[48]](http://en.wikipedia.org/wiki/1992_Los_Angeles_riots#cite_note-47)[[49]](http://en.wikipedia.org/wiki/1992_Los_Angeles_riots#cite_note-48) To Davis and other writers, the tensions witnessed between African-Americans and Korean-Americans during the unrest was as much to do with the economic competition forced on the two groups by wider market forces, as with either cultural misunderstandings or black anger about the killing of Harlins.[[25]](http://en.wikipedia.org/wiki/1992_Los_Angeles_riots#cite_note-Kwong-24)One of the more detailed analyses of the unrest was a study produced shortly after the riots by a Special Committee of the California Legislature, entitled *To Rebuild is Not Enough*.[[50]](http://en.wikipedia.org/wiki/1992_Los_Angeles_riots#cite_note-49) After extensive research, the Committee concluded that the inner-city conditions of poverty, segregation, lack of educational and employment opportunities, widespread perceptions of [police abuse](http://en.wikipedia.org/wiki/Police_abuse) and unequal consumer services created the underlying causes of the riots. It also pointed to changes in the American economy and the growing ethnic diversity of Los Angeles as important sources of urban discontent, which eventually exploded on the streets following the King verdicts. Another official report, *The City in Crisis*, was initiated by the Los Angeles Board of Police Commissioners and made many of the same observations as the Assembly Special Committee about the growth of popular urban dissatisfaction leading up to the unrest.[[51]](http://en.wikipedia.org/wiki/1992_Los_Angeles_riots#cite_note-50)” [↑](#endnote-ref-522)
523. <http://en.wikipedia.org/wiki/Baidu>

     “Baidu competes with [Google Hong Kong](http://en.wikipedia.org/wiki/Google_Hong_Kong), [Yahoo! China](http://en.wikipedia.org/wiki/Yahoo%21_China), [Microsoft](http://en.wikipedia.org/wiki/Microsoft)'s [Bing](http://en.wikipedia.org/wiki/Bing_%28search_engine%29) and [MSN Messenger](http://en.wikipedia.org/wiki/MSN_Messenger), [Sina](http://en.wikipedia.org/wiki/Sina), [Sohu](http://en.wikipedia.org/wiki/Sohu)'s [Sogou](http://en.wikipedia.org/wiki/Sogou), [Wikipedia](http://en.wikipedia.org/wiki/Wikipedia), [NetEase](http://en.wikipedia.org/wiki/NetEase)'s [Youdao](http://en.wikipedia.org/wiki/Youdao), [Tencent](http://en.wikipedia.org/wiki/Tencent)'s [Soso.com](http://en.wikipedia.org/wiki/Soso.com) and [PaiPai](http://en.wikipedia.org/w/index.php?title=PaiPai&action=edit&redlink=1), [Alibaba](http://en.wikipedia.org/wiki/Alibaba)’s [Taobao](http://en.wikipedia.org/wiki/Taobao), [TOM Online](http://en.wikipedia.org/wiki/TOM_Online), [Xunlei](http://en.wikipedia.org/wiki/Xunlei)'s [Gougou](http://en.wikipedia.org/w/index.php?title=Gougou&action=edit&redlink=1) and [EachNet](http://en.wikipedia.org/wiki/EachNet). Baidu is the No. 1 search engine in China, controlling 63 percent of China's market share as of January 2010, according to iResearch.[[17]](http://en.wikipedia.org/wiki/Baidu#cite_note-16) The [number of Internet users](http://en.wikipedia.org/wiki/List_of_countries_by_number_of_Internet_users) in China rose to 338 million by the end of June 2009, according to a report by the [China Internet Network Information Center](http://en.wikipedia.org/wiki/China_Internet_Network_Information_Center).[[18]](http://en.wikipedia.org/wiki/Baidu#cite_note-17)” [↑](#endnote-ref-523)
524. <http://en.wikipedia.org/wiki/Cod_Wars>

     “The **Cod Wars**, also called the **Icelandic Cod Wars** ([Icelandic](http://en.wikipedia.org/wiki/Icelandic_language): *Þorskastríðin*, "the cod war", or *Landhelgisstríðin*, "the war for the territorial waters"[[1]](http://en.wikipedia.org/wiki/Cod_Wars#cite_note-0)), were a series of confrontations in the 1950s and 1970s between the [United Kingdom](http://en.wikipedia.org/wiki/United_Kingdom) and [Iceland](http://en.wikipedia.org/wiki/Iceland) regarding [fishing rights](http://en.wikipedia.org/wiki/Fishing_rights) in the [North Atlantic](http://en.wikipedia.org/wiki/North_Atlantic). In 1972, Iceland unilaterally declared an [Exclusive Economic Zone](http://en.wikipedia.org/wiki/Exclusive_Economic_Zone) extending beyond its [territorial waters](http://en.wikipedia.org/wiki/Territorial_waters), before announcing plans to reduce [overfishing](http://en.wikipedia.org/wiki/Overfishing). It policed its [quota system](http://en.wikipedia.org/wiki/Individual_fishing_quota) with the [coast guard](http://en.wikipedia.org/wiki/Military_of_Iceland), leading to a series of [net-cutting](http://en.wikipedia.org/wiki/Net_cutter_%28fisheries_patrol%29) incidents with British [trawlers](http://en.wikipedia.org/wiki/Commercial_trawler) that fished the areas. As a result, a fleet of [Royal Naval](http://en.wikipedia.org/wiki/Royal_Navy) warships and [tug-boats](http://en.wikipedia.org/wiki/Tug-boat) were employed to act as a deterrent against any future harassment of British fishing crews by the Icelandic craft. The conflict involved several cases of vessels ramming each other. The dispute ended in 1976 after Iceland threatened to close a major [NATO](http://en.wikipedia.org/wiki/NATO) base in retaliation for Britain's deployment of naval vessels within the disputed 200 [nautical mile](http://en.wikipedia.org/wiki/Nautical_mile) (370 km) limit. The [British government](http://en.wikipedia.org/wiki/British_government) conceded, and agreed that after 1 December 1976 British vessels would not fish within the previously disputed area.[[2]](http://en.wikipedia.org/wiki/Cod_Wars#cite_note-1)” [↑](#endnote-ref-524)
525. <http://en.wikipedia.org/wiki/Whale_Wars>

     “The 2008-2009 Antarctic campaign was named Operation Musashi after the 17th-century Japanese strategist [Miyamoto Musashi](http://en.wikipedia.org/wiki/Miyamoto_Musashi).[[26]](http://en.wikipedia.org/wiki/Whale_Wars#cite_note-25) On December 4, 2008, actress [Daryl Hannah](http://en.wikipedia.org/wiki/Daryl_Hannah) joined Sea Shepherd's crew aboard the *Steve Irwin* to take part in this season's operation.[[27]](http://en.wikipedia.org/wiki/Whale_Wars#cite_note-26)On February 6, 2009, Watson reported that the *Steve Irwin* had collided with the *Yushin Maru 2* as the *Steve Irwin* tried to block its attempt to prevent the transfer of a dead whale up the slipway of the factory ship *Nisshin Maru*. As Watson explained the incident, "We were in the process of blocking the transfer from the *Yushin Maru 2* when the *Yushin Maru 1* moved directly in front of the bow to block us. I could not turn to starboard without hitting the *Yushin Maru 1*. I tried to back down but the movement of the *Yushin Maru 2* made the collision unavoidable."[[28]](http://en.wikipedia.org/wiki/Whale_Wars#cite_note-27) The Japanese whalers blamed Sea Shepherd for the crash, characterizing the incident as a "deliberate ramming."[[29]](http://en.wikipedia.org/wiki/Whale_Wars#cite_note-28)[[30]](http://en.wikipedia.org/wiki/Whale_Wars#cite_note-29) The collision was filmed by cameramen for the *Whale Wars* reality series,[[31]](http://en.wikipedia.org/wiki/Whale_Wars#cite_note-30) and formed part of a multi-day conflict during which Sea Shepherd attempted to prevent the Japanese fleet from harpooning whales, respectively tried to block whales from being transferred to the factory ship for processing by blockading the Japanese' vessel's [slipway](http://en.wikipedia.org/wiki/Slipway). The Japanese made extensive use of [LRADs](http://en.wikipedia.org/wiki/Long_Range_Acoustic_Device) to deter Sea Shepherd. They were also accused of aiming the device at the *Steve Irwin's* helicopter while in flight, something the group especially condemned, seeing that the helicopter was only engaged in filming, and could have crashed if the pilot had lost control.[[32]](http://en.wikipedia.org/wiki/Whale_Wars#cite_note-31)” [↑](#endnote-ref-525)
526. <http://en.wikipedia.org/wiki/Peak_oil>

     “**Peak oil** is the point in time when the maximum rate of global [petroleum](http://en.wikipedia.org/wiki/Petroleum) [extraction](http://en.wikipedia.org/wiki/Extraction_of_petroleum) is reached, after which the rate of production enters terminal decline. This concept is based on the observed production rates of individual oil wells, and the combined production rate of a field of related oil wells. The [aggregate](http://en.wikipedia.org/wiki/Aggregate_data) production rate from an [oil field](http://en.wikipedia.org/wiki/Oil_field) over time usually grows exponentially until the rate peaks and then declines—sometimes rapidly—until the field is depleted. This concept is derived from the [Hubbert curve](http://en.wikipedia.org/wiki/Hubbert_curve), and has been shown to be applicable to the sum of a nation’s domestic production rate, and is similarly applied to the global rate of petroleum production. Peak oil is often confused with [oil depletion](http://en.wikipedia.org/wiki/Oil_depletion); peak oil is the point of maximum production while depletion refers to a period of falling reserves and supply.” [↑](#endnote-ref-526)
527. <http://en.wikipedia.org/wiki/The_Great_Game>

     “Recently there has been some use of the expression "the Great Game" to describe conflict between the [United States](http://en.wikipedia.org/wiki/United_States), the [United Kingdom](http://en.wikipedia.org/wiki/United_Kingdom) and other [NATO](http://en.wikipedia.org/wiki/NATO) countries on one hand, and [Russia](http://en.wikipedia.org/wiki/Russia), the [People's Republic of China](http://en.wikipedia.org/wiki/People%27s_Republic_of_China) and other [Shanghai Cooperation Organisation](http://en.wikipedia.org/wiki/Shanghai_Cooperation_Organisation) countries on the other, over [Central Asian](http://en.wikipedia.org/wiki/Central_Asian) oil pipelines.[[14]](http://en.wikipedia.org/wiki/The_Great_Game#cite_note-13)[[15]](http://en.wikipedia.org/wiki/The_Great_Game#cite_note-14)[[16]](http://en.wikipedia.org/wiki/The_Great_Game#cite_note-15)” [↑](#endnote-ref-527)
528. <http://en.wikipedia.org/wiki/SWAT>

     “A **SWAT** (*special weapons and tactics*)[[1]](http://en.wikipedia.org/wiki/SWAT" \l "cite_note-0)[[2]](http://en.wikipedia.org/wiki/SWAT#cite_note-1) team is an [elite](http://en.wikipedia.org/wiki/Elite) [paramilitary](http://en.wikipedia.org/wiki/Paramilitary) tactical unit in American law enforcement departments. They are trained to perform high-risk operations that fall outside of the abilities of regular officers. Their duties include performing [hostage rescues](http://en.wikipedia.org/wiki/Hostage_rescue) and [counter-terrorism](http://en.wikipedia.org/wiki/Counter-terrorism) operations, serving high risk arrest and search warrants, subduing barricaded suspects, and engaging heavily-armed criminals. A SWAT team is often equipped with specialized firearms including [submachine guns](http://en.wikipedia.org/wiki/Submachine_guns), [assault rifles](http://en.wikipedia.org/wiki/Assault_rifles), [breaching shotguns](http://en.wikipedia.org/wiki/Shotgun), [riot control agents](http://en.wikipedia.org/wiki/Riot_control_agent), stun grenades and [sniper rifles](http://en.wikipedia.org/wiki/Sniper_rifles). They have specialized equipment including heavy body armor, ballistic shields, entry tools, armored vehicles, advanced night vision optics, and motion detectors for covertly determining the positions of hostages or hostage takers inside of an enclosed structure.” [↑](#endnote-ref-528)
529. <http://en.wikipedia.org/wiki/Broken_windows_theory>

     “The broken windows theory was first introduced by social scientists [James Q. Wilson](http://en.wikipedia.org/wiki/James_Q._Wilson) and [George L. Kelling](http://en.wikipedia.org/wiki/George_L._Kelling), in an article titled "Broken Windows" and which appeared in the March 1982 edition of [*The Atlantic Monthly*](http://en.wikipedia.org/wiki/The_Atlantic_Monthly).[[1]](http://en.wikipedia.org/wiki/Broken_windows_theory#cite_note-0) The title comes from the following example:

     Consider a building with a few broken [windows](http://en.wikipedia.org/wiki/Window). If the windows are not repaired, the tendency is for [vandals](http://en.wikipedia.org/wiki/Vandalism) to break a few more windows. Eventually, they may even break into the building, and if it's unoccupied, perhaps become [squatters](http://en.wikipedia.org/wiki/Squatter) or light fires inside. Or consider a [sidewalk](http://en.wikipedia.org/wiki/Sidewalk). Some [litter](http://en.wikipedia.org/wiki/Litter) accumulates. Soon, more litter accumulates. Eventually, people even start leaving bags of trash from take-out restaurants there or breaking into cars. The article received a great deal of attention and was very widely cited. The later book by [George L. Kelling](http://en.wikipedia.org/wiki/George_L._Kelling) and a co-author Catharine Cole is based on the article but develops the argument in greater detail. The book is called ***Fixing Broken Windows: Restoring Order and Reducing Crime in Our Communities***. It is a [criminology](http://en.wikipedia.org/wiki/Criminology) and [urban sociology](http://en.wikipedia.org/wiki/Urban_sociology) book and was published in 1996. It discusses the theory in relation to [crime](http://en.wikipedia.org/wiki/Crime) and strategies to contain or eliminate crime from urban neighborhoods.[[2]](http://en.wikipedia.org/wiki/Broken_windows_theory#cite_note-1)A successful strategy for preventing [vandalism](http://en.wikipedia.org/wiki/Vandalism), say the book's authors, is to fix the problems when they are small. Repair the broken windows within a short time, say, a day or a week, and the tendency is that vandals are much less likely to break more windows or do further damage. Clean up the sidewalk every day, and the tendency is for litter not to accumulate (or for the rate of littering to be much less). Problems do not escalate and thus respectable residents do not flee a neighborhood. The theory thus makes two major claims: that further petty crime and low-level anti-social behavior will be deterred, and that major crime will, as a result, be prevented. Criticism of the theory has tended to focus only on the latter claim.” [↑](#endnote-ref-529)
530. <http://en.wikipedia.org/wiki/The_Wild_Parrots_of_Telegraph_Hill>

     “***he Wild Parrots of Telegraph Hill*** is a [2005](http://en.wikipedia.org/wiki/2005_in_film) [documentary film](http://en.wikipedia.org/wiki/Documentary_film) directed, produced, and edited by [Judy Irving](http://en.wikipedia.org/wiki/Judy_Irving). It is about a population of [feral parrots](http://en.wikipedia.org/wiki/Feral_parrots)—[cherry-headed](http://en.wikipedia.org/wiki/Red-masked_Parakeet) and [Blue-crowned conures](http://en.wikipedia.org/wiki/Blue-crowned_Parakeet)—in [San Francisco](http://en.wikipedia.org/wiki/San_Francisco), and about [Mark Bittner](http://en.wikipedia.org/wiki/Mark_Bittner), the man who takes care of them. The film is based on Bittner's book [*The Wild Parrots of Telegraph Hill*](http://en.wikipedia.org/w/index.php?title=The_Wild_Parrots_of_Telegraph_Hill_%28book%29&action=edit&redlink=1) (2004).[[1]](http://en.wikipedia.org/wiki/The_Wild_Parrots_of_Telegraph_Hill#cite_note-WPTH1-0) In May 2007, the documentary aired on the PBS series [*Independent Lens*](http://en.wikipedia.org/wiki/Independent_Lens). Much of the documentary focuses on the individual parrots, and it was filmed almost entirely without using other parrots as stand-ins.[[2]](http://en.wikipedia.org/wiki/The_Wild_Parrots_of_Telegraph_Hill#cite_note-Fraser-1)” [↑](#endnote-ref-530)
531. <http://en.wikipedia.org/wiki/Vietnamese_American>

     “South Vietnamese refugees initially faced resentment by Americans following the turmoil and upheaval of the Vietnam War. A poll taken in 1975 showed only 36 percent of Americans were in favor of Vietnamese immigration. President [Gerald Ford](http://en.wikipedia.org/wiki/Gerald_Ford) and other officials strongly supported Vietnamese immigration to the U.S. and passed the [Indochina Migration and Refugee Assistance Act](http://en.wikipedia.org/wiki/Indochina_Migration_and_Refugee_Assistance_Act) in 1975, which allowed Vietnamese refugees to enter the United States under a special status. In order to prevent the refugees from forming ethnic enclaves and to minimize their impact on local communities, they were scattered all over the country. Within a few years, however, many resettled in [California](http://en.wikipedia.org/wiki/California) and [Texas](http://en.wikipedia.org/wiki/Texas). The year 1978 began a second wave of Vietnamese refugees that lasted until the mid-1980s. As South Vietnamese people—especially former military officers and government employees—were sent to Communist "[reeducation camps](http://en.wikipedia.org/wiki/Reeducation_camp)," about two million people fled Vietnam in small, unsafe, and crowded boats. These "[boat people](http://en.wikipedia.org/wiki/Boat_people)" were generally lower on the socioeconomic ladder than the people in the first wave. Vietnamese escaping by boat usually ended up in asylum camps in [Thailand](http://en.wikipedia.org/wiki/Thailand), [Malaysia](http://en.wikipedia.org/wiki/Malaysia), [Singapore](http://en.wikipedia.org/wiki/Singapore), [Indonesia](http://en.wikipedia.org/wiki/Indonesia), [Hong Kong](http://en.wikipedia.org/wiki/Hong_Kong), or the [Philippines](http://en.wikipedia.org/wiki/Philippines)—where they might be allowed to enter countries that agreed to accept them. Congress passed the [Refugee Act of 1980](http://en.wikipedia.org/wiki/Refugee_Act_of_1980), reducing restrictions on entry, while the Vietnamese government established the [Orderly Departure Program](http://en.wikipedia.org/wiki/Orderly_Departure_Program) (ODP) under the [United Nations High Commissioner for Refugees](http://en.wikipedia.org/wiki/United_Nations_High_Commissioner_for_Refugees) in response to world outcry—allowing people to leave Vietnam legally for family reunions and for humanitarian reasons. Additional American laws were passed allowing children of American servicemen and former political prisoners and their families to enter the United States. Another peak of Vietnamese immigrants to the US was in 1992, when many individuals in Vietnam's [reeducation camps](http://en.wikipedia.org/wiki/Reeducation_camp) were released or sponsored by their families to come to the United States. Between 1981 and 2000, the [United States](http://en.wikipedia.org/wiki/United_States) accepted 531,310 Vietnamese political refugees and asylees.” [↑](#endnote-ref-531)
532. <http://en.wikipedia.org/wiki/Allegory_of_the_Cave>

     “Plato imagines a group of people who have lived chained in a cave all of their lives, facing a blank wall. The people watch shadows projected on the wall by things passing in front of a fire behind them, and begin to ascribe forms to these shadows. According to Plato, the shadows are as close as the prisoners get to seeing reality. He then explains how the philosopher is like a prisoner who is freed from the cave and comes to understand that the shadows on the wall are not constitutive of reality at all, as he can perceive the true form of reality rather than the mere shadows seen by the prisoners. The Allegory is related to Plato's [Theory of Forms](http://en.wikipedia.org/wiki/Theory_of_Forms),[[1]](http://en.wikipedia.org/wiki/Allegory_of_the_Cave" \l "cite_note-0) wherein Plato asserts that "Forms" (or "[Ideas](http://en.wikipedia.org/wiki/Idea)"), and not the material world of change known to us through sensation, possess the highest and most fundamental kind of reality. Only knowledge of the Forms constitutes real knowledge.[[2]](http://en.wikipedia.org/wiki/Allegory_of_the_Cave#cite_note-1) In addition, the allegory of the cave is an attempt to explain the philosopher's place in society.” [↑](#endnote-ref-532)
533. <http://en.wikipedia.org/wiki/Latin_translations_of_the_12th_century>

     “At the close of the twelfth and the beginning of the thirteenth centuries, [Mark of Toledo](http://en.wikipedia.org/wiki/Mark_of_Toledo) translated the [Qur'an](http://en.wikipedia.org/wiki/Qur%27an) (once again) and various [medical works](http://en.wikipedia.org/wiki/Islamic_medicine).[[30]](http://en.wikipedia.org/wiki/Latin_translations_of_the_12th_century#cite_note-29) He also translated [Hunayn ibn Ishaq](http://en.wikipedia.org/wiki/Hunayn_ibn_Ishaq)'s medical work *Liber isagogarum*.[15] [Michael Scot](http://en.wikipedia.org/wiki/Michael_Scot) (c. 1175–1232)[[31]](http://en.wikipedia.org/wiki/Latin_translations_of_the_12th_century#cite_note-30) translated the works of [al-Betrugi](http://en.wikipedia.org/wiki/Nur_Ed-Din_Al_Betrugi) (Alpetragius) in 1217,[[5]](http://en.wikipedia.org/wiki/Latin_translations_of_the_12th_century#cite_note-Bieber-4) [al-Bitruji](http://en.wikipedia.org/wiki/Al-Bitruji)'s *On the Motions of the Heavens*, and [Averroes](http://en.wikipedia.org/wiki/Averroes)' influential commentaries on the scientific works of [Aristotle](http://en.wikipedia.org/wiki/Aristotle).[[32]](http://en.wikipedia.org/wiki/Latin_translations_of_the_12th_century#cite_note-31)” [↑](#endnote-ref-533)
534. <http://en.wikipedia.org/wiki/Probability>

     “The word *probability* does not have a consistent direct [definition](http://en.wikipedia.org/wiki/Definition). In fact, there are two broad categories of **probability interpretations**, whose adherents possess different (and sometimes conflicting) views about the fundamental nature of probability:

     1. [Frequentists](http://en.wikipedia.org/wiki/Frequentists) talk about probabilities only when dealing with [experiments](http://en.wikipedia.org/wiki/Experiments) that are [random](http://en.wikipedia.org/wiki/Random) and [well-defined](http://en.wikipedia.org/wiki/Well-defined). The probability of a random event denotes the *relative frequency of occurrence* of an experiment's outcome, when repeating the experiment. Frequentists consider probability to be the relative frequency "in the long run" of outcomes.[[1]](http://en.wikipedia.org/wiki/Probability#cite_note-0)
     2. [Bayesians](http://en.wikipedia.org/wiki/Bayesian_probability), however, assign probabilities to any [statement](http://en.wikipedia.org/wiki/Statement_%28logic%29) whatsoever, even when no random process is involved. Probability, for a Bayesian, is a way to represent an [individual's](http://en.wikipedia.org/wiki/Individual) *degree of belief* in a statement, or an objective degree of rational belief, given the [evidence](http://en.wikipedia.org/wiki/Evidence).”

     [↑](#endnote-ref-534)
535. <http://en.wikipedia.org/wiki/Sophism>

     “In modern usage, *sophism*, *sophist*, and *sophistry* are derogatory terms, due to the influence of many past philosophers. A *sophism* is taken as a specious argument used for deceiving someone. It might be crafted to seem logical while actually being wrong, or it might use difficult words and complicated sentences to intimidate the audience into agreeing, or it might appeal to the audience's prejudices and emotions rather than logic; e.g., raising doubts towards the one asserting, rather than his assertion. The goal of a sophism is often to make the audience believe the writer or speaker to be smarter than he or she actually is; e.g., accusing another of sophistry for using persuasion techniques. A *sophist* is a user of sophisms, i.e., an insincere person trying to confuse or deceive people. Sophists will try to persuade the audience while paying little attention to whether their argument is logical and factual. *Sophistry* means making heavy use of sophisms. The word can be applied to a particular text or speech riddled with sophisms.” [↑](#endnote-ref-535)
536. <http://en.wikipedia.org/wiki/Thomas_Aquinas>

     “In 1268 the Dominican Order assigned Aquinas to be regent master at the University of Paris for a second time, a position he held until the spring of 1272. Part of the reason for this sudden reassignment appears to have arisen from the rise of "[Averroism](http://en.wikipedia.org/wiki/Averroism)" or "radical [Aristotelianism](http://en.wikipedia.org/wiki/Aristotelianism)" in the universities. In response to these perceived evils, Aquinas wrote two works, one of them being *De unitate intellectus, contra Averroistas* (*On the Unity of Intellect, against the Averroists*) in which he blasts Averroism as incompatible with Christian doctrine.[[27]](http://en.wikipedia.org/wiki/Thomas_Aquinas#cite_note-26) During his second regency, he finished the second part of the *Summa* and wrote *De virtutibus* and *De aeternitate mundi*,[[26]](http://en.wikipedia.org/wiki/Thomas_Aquinas" \l "cite_note-davies5-25) the latter of which dealt with controversial Averroist and Aristotelian *beginninglessness* of the world.[[28]](http://en.wikipedia.org/wiki/Thomas_Aquinas#cite_note-stump11-27)

     Disputes with some important Franciscans such as [Bonaventure](http://en.wikipedia.org/wiki/Bonaventure) and [John Peckham](http://en.wikipedia.org/wiki/John_Peckham) conspired to make his second regency much more difficult and troubled than the first. A year before Aquinas re-assumed the regency at the 1266-67 Paris disputations, Franciscan master [William of Baglione](http://en.wikipedia.org/w/index.php?title=William_of_Baglione&action=edit&redlink=1) accused Aquinas of encouraging Averroists, calling him the "blind leader of the blind". Aquinas called these individuals the *murmurantes* (*Grumblers*).[[28]](http://en.wikipedia.org/wiki/Thomas_Aquinas#cite_note-stump11-27) In reality, Aquinas was deeply disturbed by the spread of Averroism and was angered when he discovered [Siger of Brabant](http://en.wikipedia.org/wiki/Siger_of_Brabant) teaching Averroistic interpretations of Aristotle to Parisian students.[[29]](http://en.wikipedia.org/wiki/Thomas_Aquinas#cite_note-28)

     On 10 December 1270, the bishop of Paris, [Etienne Tempier](http://en.wikipedia.org/wiki/Etienne_Tempier), issued an edict condemning thirteen Aristotlelian and Averroistic propositions as heretical and excommunicating anyone who continued to support them.[[30]](http://en.wikipedia.org/wiki/Thomas_Aquinas#cite_note-29) Many in the ecclesiastical community, the so-called Augustinians, were fearful that this introduction of Aristotelianism and the more extreme Averroism might somehow contaminate the purity of the Christian faith. In what appears to be an attempt to counteract the growing fear of Aristotelian thought, Aquinas conducted a series of disputations between 1270 and 1272: *De virtutibus in communi* (*On Virtues in General*), *De virtutibus cardinalibus* (*On Cardinal Virtues*), *De spe* (*On Hope*).[[31]](http://en.wikipedia.org/wiki/Thomas_Aquinas#cite_note-30)” [↑](#endnote-ref-536)
537. <http://en.wikipedia.org/wiki/Quantum_mechanics>

     “[Albert Einstein](http://en.wikipedia.org/wiki/Albert_Einstein), himself one of the founders of quantum theory, [disliked this loss of determinism in measurement](http://en.wikipedia.org/wiki/Bohr-Einstein_debates). (This dislike is the source of his famous quote, "God does not play dice with the universe.") Einstein held that there should be a [local hidden variable theory](http://en.wikipedia.org/wiki/Local_hidden_variable_theory) underlying quantum mechanics and that, consequently, the present theory was incomplete. He produced a series of objections to the theory, the most famous of which has become known as the [Einstein-Podolsky-Rosen paradox](http://en.wikipedia.org/wiki/Einstein-Podolsky-Rosen_paradox). [John Bell](http://en.wikipedia.org/wiki/John_Stewart_Bell) showed that the EPR paradox led to [experimentally testable differences](http://en.wikipedia.org/wiki/Bell%27s_theorem) between quantum mechanics and local realistic theories. [Experiments](http://en.wikipedia.org/wiki/Bell_test_experiments) have been performed confirming the accuracy of quantum mechanics, thus demonstrating that the physical world cannot be described by local realistic theories.[[37]](http://en.wikipedia.org/wiki/Quantum_mechanics#cite_note-36) The [*Bohr-Einstein debates*](http://en.wikipedia.org/wiki/Bohr-Einstein_debates) provide a vibrant critique of the Copenhagen Interpretation from an [epistemological](http://en.wikipedia.org/wiki/Epistemological) point of view.” [↑](#endnote-ref-537)
538. <http://en.wikipedia.org/wiki/Spring_Offensive>

     “In their turn, the Allies had developed defences in depth, reducing the proportion of troops in their front line and pulling reserves and supply dumps back beyond German artillery range. This change had been made after experience of the successful German use of defence in depth during 1917.

     In theory, the front line was an "outpost zone" (later renamed the "forward zone"), lightly held by snipers, patrols and machine-gun posts only. Behind was the "battle zone", where the offensive was to be firmly resisted, and behind that again was a "rear zone", where reserves were held ready to counter-attack or seal off penetrations. In theory a British infantry division (with 9 infantry battalions) deployed 3 battalions in the outpost zone, 4 battalions in the battle zone and 2 battalions in the rear zone.[[6]](http://en.wikipedia.org/wiki/Spring_Offensive#cite_note-5)

     …

     The German breakthrough had occurred just to the north of the boundary between the French and British armies. The French commander-in-chief, General [Pétain](http://en.wikipedia.org/wiki/Philippe_P%C3%A9tain), sent reinforcements to the sector too slowly in the opinion of the British commander-in-chief, Field Marshal [Haig](http://en.wikipedia.org/wiki/Douglas_Haig,_1st_Earl_Haig), and the British government. The Allies reacted by appointing the French General [Ferdinand Foch](http://en.wikipedia.org/wiki/Ferdinand_Foch) to coordinate all Allied activity in France, and subsequently as commander-in-chief of all Allied forces everywhere.

     After a few days, the German advance began to falter, as the infantry became exhausted and it became increasingly difficult to move artillery and supplies forward to support them. Fresh British and [Australian](http://en.wikipedia.org/wiki/Australia) units were moved to the vital rail centre of [Amiens](http://en.wikipedia.org/wiki/Amiens) and the defence began to stiffen. After fruitless attempts to capture Amiens, Ludendorff called off Operation *Michael* on 5 April. By the standards of the time, there had been a substantial advance. It was, however, of little value; a [Pyrrhic victory](http://en.wikipedia.org/wiki/Pyrrhic_victory) in terms of the casualties suffered by the crack troops, as the vital positions of Amiens and Arras remained in Allied hands. The newly-won territory was difficult to traverse, as much of it consisted of the shell-torn wilderness left by the 1916 [Battle of the Somme](http://en.wikipedia.org/wiki/Battle_of_the_Somme), and would later be difficult to defend against Allied counterattacks.

     The Allies lost nearly 255,000 men (British, British Empire, French and American). They also lost 1,300 artillery pieces and 200 tanks.[[8]](http://en.wikipedia.org/wiki/Spring_Offensive#cite_note-marix63-7) All of this could be replaced, either from British factories or from American manpower. German troop losses were 239,000 men, many of them specialist shocktroops (*Stoßtruppen*) who were irreplaceable.[[8]](http://en.wikipedia.org/wiki/Spring_Offensive#cite_note-marix63-7) In terms of morale, the initial German jubilation at the successful opening of the offensive soon turned to disappointment as it became clear that the attack had not achieved decisive results.” [↑](#endnote-ref-538)
539. <http://en.wikipedia.org/wiki/Napoleon_I>

     “While in Egypt, Bonaparte stayed informed of European affairs through irregular delivery of newspapers and dispatches. He learned France had suffered a [series of defeats](http://en.wikipedia.org/wiki/French_Revolutionary_Wars:_Campaigns_of_1799) in the [War of the Second Coalition](http://en.wikipedia.org/wiki/War_of_the_Second_Coalition).[[55]](http://en.wikipedia.org/wiki/Napoleon_I#cite_note-egyptreturn-59) On 24 August 1799, he took advantage of the temporary departure of British ships from French coastal ports and set sail for France, despite the fact he had received no explicit orders from Paris.[[49]](http://en.wikipedia.org/wiki/Napoleon_I#cite_note-rxx-53) The army was left in the charge of [Jean Baptiste Kléber](http://en.wikipedia.org/wiki/Jean_Baptiste_Kl%C3%A9ber).[[56]](http://en.wikipedia.org/wiki/Napoleon_I#cite_note-60) Unknown to Bonaparte, the Directory had sent him orders to return to ward off possible invasions of French soil, but poor lines of communication meant the messages had failed to reach him.[[55]](http://en.wikipedia.org/wiki/Napoleon_I#cite_note-egyptreturn-59) By the time he reached Paris in October France's situation had been improved by a series of victories. The Republic was bankrupt, however, and the ineffective Directory was unpopular with the French population.[[57]](http://en.wikipedia.org/wiki/Napoleon_I#cite_note-61) The Directory discussed Bonaparte's "desertion" but was too weak to punish him.[[55]](http://en.wikipedia.org/wiki/Napoleon_I#cite_note-egyptreturn-59)

     Bonaparte was approached by one of the Directors, [Emmanuel Joseph Sieyès](http://en.wikipedia.org/wiki/Emmanuel_Joseph_Siey%C3%A8s), for his support in a coup to overthrow the [constitutional government](http://en.wikipedia.org/wiki/French_Constitution_of_1795). The leaders of the plot included his brother [Lucien Bonaparte](http://en.wikipedia.org/wiki/Lucien_Bonaparte); the speaker of the [Council of Five Hundred](http://en.wikipedia.org/wiki/Council_of_Five_Hundred), [Roger Ducos](http://en.wikipedia.org/wiki/Roger_Ducos); another Director, [Joseph Fouché](http://en.wikipedia.org/wiki/Joseph_Fouch%C3%A9); and Talleyrand. On 9 November—18 Brumaire by the [French Republican Calendar](http://en.wikipedia.org/wiki/French_Republican_Calendar)—Bonaparte was charged with the safety of the legislative councils, who were persuaded to remove to the [Château de Saint-Cloud](http://en.wikipedia.org/wiki/Ch%C3%A2teau_de_Saint-Cloud), to the west of Paris, after a rumour of a Jacobin rebellion was spread by the plotters.[[58]](http://en.wikipedia.org/wiki/Napoleon_I#cite_note-62) By the following day, the deputies had realised they faced an attempted coup. Faced with their remonstrations, Bonaparte led troops to seize control and disperse them, which left a [rump legislature](http://en.wikipedia.org/wiki/Rump_legislature) to name Bonaparte, Sieyès, and Ducos as provisional Consuls to administer the government.[[49]](http://en.wikipedia.org/wiki/Napoleon_I#cite_note-rxx-53)” [↑](#endnote-ref-539)
540. <http://en.wikipedia.org/wiki/Encryption>

     “Encryption has long been used by militaries and governments to facilitate secret communication. Encryption is now commonly used in protecting information within many kinds of civilian systems. For example, the Computer Security Institute reported that in 2007, 71% of companies surveyed utilized encryption for some of their data in transit, and 53% utilized encryption for some of their data in storage.[[1]](http://en.wikipedia.org/wiki/Encryption#cite_note-0) Encryption can be used to protect data "at rest", such as files on [computers](http://en.wikipedia.org/wiki/Computers) and storage devices (e.g. [USB flash drives](http://en.wikipedia.org/wiki/USB_flash_drives)). In recent years there have been numerous reports of confidential data such as customers' personal records being exposed through loss or theft of laptops or backup drives. Encrypting such files at rest helps protect them should physical security measures fail. [Digital rights management](http://en.wikipedia.org/wiki/Digital_rights_management) systems which prevent unauthorized use or reproduction of copyrighted material and protect software against [reverse engineering](http://en.wikipedia.org/wiki/Reverse_engineering) (see also [copy protection](http://en.wikipedia.org/wiki/Copy_protection)) are another somewhat different example of using encryption on data at rest.

     Encryption is also used to protect data in transit, for example data being transferred via [networks](http://en.wikipedia.org/wiki/Computer_network) (e.g. the [Internet](http://en.wikipedia.org/wiki/Internet), [e-commerce](http://en.wikipedia.org/wiki/E-commerce)), [mobile telephones](http://en.wikipedia.org/wiki/Mobile_telephone), [wireless microphones](http://en.wikipedia.org/wiki/Wireless_microphone), [wireless intercom](http://en.wikipedia.org/wiki/Wireless_intercom) systems, [Bluetooth](http://en.wikipedia.org/wiki/Bluetooth) devices and bank [automatic teller machines](http://en.wikipedia.org/wiki/Automatic_teller_machine). There have been numerous reports of data in transit being intercepted in recent years.[[2]](http://en.wikipedia.org/wiki/Encryption#cite_note-1) Encrypting data in transit also helps to secure it as it is often difficult to physically secure all access to networks.” [↑](#endnote-ref-540)
541. <http://en.wikipedia.org/wiki/Bruce_Bueno_de_Mesquita>

     “**Bruce Bueno de Mesquita** is a [political scientist](http://en.wikipedia.org/wiki/Political_scientist), professor at [New York University](http://en.wikipedia.org/wiki/New_York_University), and senior fellow at the [Hoover Institution](http://en.wikipedia.org/wiki/Hoover_Institution). A graduate of the [University of Michigan](http://en.wikipedia.org/wiki/University_of_Michigan), he specializes in international relations, foreign policy, and nation building. He is also one of the authors of the [selectorate theory](http://en.wikipedia.org/wiki/Selectorate_theory), and is also the director of [New York University](http://en.wikipedia.org/wiki/New_York_University)'s Alexander Hamilton Center for [Political Economy](http://en.wikipedia.org/wiki/Political_Economy).

     He has founded a company, Mesquita & Roundell[[1]](http://en.wikipedia.org/wiki/Bruce_Bueno_de_Mesquita" \l "cite_note-0), that specializes in making political and foreign-policy forecasts using an unpublished and proprietary computer model based on [game theory](http://en.wikipedia.org/wiki/Game_theory) and [rational choice theory](http://en.wikipedia.org/wiki/Rational_choice_theory).” [↑](#endnote-ref-541)
542. <http://en.wikipedia.org/wiki/Common_law>

     “**Common law** is [law](http://en.wikipedia.org/wiki/Law) developed by [judges](http://en.wikipedia.org/wiki/Judge) through [decisions](http://en.wikipedia.org/wiki/Legal_opinion) of [courts](http://en.wikipedia.org/wiki/Courts) and similar tribunals (also called [case law](http://en.wikipedia.org/wiki/Case_law)), rather than through [legislative statutes](http://en.wikipedia.org/wiki/Statute_law) or [executive branch action](http://en.wikipedia.org/wiki/Executive_%28government%29). A "common law system" is a [legal system](http://en.wikipedia.org/wiki/Legal_systems_of_the_world) that gives great precedential weight to common law,[[1]](http://en.wikipedia.org/wiki/Common_law" \l "cite_note-0) on the principle that it is unfair to treat similar facts differently on different occasions.[[2]](http://en.wikipedia.org/wiki/Common_law#cite_note-1) The body of [precedent](http://en.wikipedia.org/wiki/Precedent) is called "common law" and it binds future decisions. In cases where the parties disagree on what the law is, an idealized common law court looks to past [precedential](http://en.wikipedia.org/wiki/Precedent) decisions of relevant courts. If a similar dispute has been resolved in the past, the court is [bound](http://en.wikipedia.org/wiki/Binding_precedent) to follow the reasoning used in the prior decision (this principle is known as [*stare decisis*](http://en.wikipedia.org/wiki/Stare_decisis)). If, however, the court finds that the current dispute is fundamentally distinct from all previous cases (called a "[matter of first impression](http://en.wikipedia.org/wiki/Case_of_first_impression)"), judges have the authority and duty to make law by creating [precedent](http://en.wikipedia.org/wiki/Precedent).[[3]](http://en.wikipedia.org/wiki/Common_law#cite_note-2) Thereafter, the new decision becomes precedent, and will bind future courts.

     In practice, common law systems are considerably more complicated than the idealized system described above. The decisions of a court are binding only in a particular [jurisdiction](http://en.wikipedia.org/wiki/Jurisdiction), and even within a given jurisdiction, some courts have more power than others. For example, in most jurisdictions, decisions by [appellate courts](http://en.wikipedia.org/wiki/Appellate_courts) are binding on lower courts in the same jurisdiction and on future decisions of the same appellate court, but decisions of lower courts are only non-binding persuasive authority. Interactions between common law, [constitutional law](http://en.wikipedia.org/wiki/Constitutional_law), [statutory law](http://en.wikipedia.org/wiki/Statutory_law) and [regulatory law](http://en.wikipedia.org/wiki/Regulatory_law) also give rise to considerable complexity. However [*stare decisis*](http://en.wikipedia.org/wiki/Stare_decisis), the principle that similar cases should be decided according to consistent principled rules so that they will reach similar results, lies at the heart of all common law systems.

     Common law legal systems are in widespread use, particularly in [England](http://en.wikipedia.org/wiki/England) where it originated in the Middle Ages,[[4]](http://en.wikipedia.org/wiki/Common_law#cite_note-3) and in nations that trace their legal heritage to England as former colonies of the [British Empire](http://en.wikipedia.org/wiki/British_Empire), including the [United States](http://en.wikipedia.org/wiki/United_States), [Malaysia](http://en.wikipedia.org/wiki/Malaysia), [Singapore](http://en.wikipedia.org/wiki/Singapore), [Pakistan](http://en.wikipedia.org/wiki/Pakistan), [Sri Lanka](http://en.wikipedia.org/wiki/Sri_Lanka), [India](http://en.wikipedia.org/wiki/India),[[5]](http://en.wikipedia.org/wiki/Common_law#cite_note-4) [Ghana](http://en.wikipedia.org/wiki/Ghana), [Cameroon](http://en.wikipedia.org/wiki/Cameroon), [Canada](http://en.wikipedia.org/wiki/Canada), [Ireland](http://en.wikipedia.org/wiki/Law_of_the_Republic_of_Ireland), [New Zealand](http://en.wikipedia.org/wiki/New_Zealand), [South Africa](http://en.wikipedia.org/wiki/South_Africa), [Hong Kong](http://en.wikipedia.org/wiki/Hong_Kong) and [Australia](http://en.wikipedia.org/wiki/Australia).[[6]](http://en.wikipedia.org/wiki/Common_law#cite_note-5)” [↑](#endnote-ref-542)
543. <http://en.wikipedia.org/wiki/Holy_Roman_Empire>

     “A prospective Emperor had first to be elected [King of the Romans](http://en.wikipedia.org/wiki/King_of_the_Romans) (Latin: *Rex romanorum*; German: *römischer König*). German kings had been elected since the 9th century; at that point they were chosen by the leaders of the five most important tribes (the [Salian Franks](http://en.wikipedia.org/wiki/Salian_Franks) of [Lorraine](http://en.wikipedia.org/wiki/Lorraine_%28province%29), [Ripuarian Franks](http://en.wikipedia.org/wiki/Ripuarian_Franks) of [Franconia](http://en.wikipedia.org/wiki/Franconia), [Saxons](http://en.wikipedia.org/wiki/Saxons), [Bavarians](http://en.wikipedia.org/wiki/Bavaria) and [Swabians](http://en.wikipedia.org/wiki/Swabia)). In the Holy Roman Empire, the main dukes and bishops of the kingdom elected the King of the Romans. In 1356, Emperor [Charles IV](http://en.wikipedia.org/wiki/Charles_IV,_Holy_Roman_Emperor) issued the [Golden Bull](http://en.wikipedia.org/wiki/Golden_Bull_of_1356), which limited the [electors](http://en.wikipedia.org/wiki/Prince-elector) to seven: the [Count Palatine of the Rhine](http://en.wikipedia.org/wiki/Count_Palatine_of_the_Rhine), the [King of Bohemia](http://en.wikipedia.org/wiki/King_of_Bohemia), the [Duke of Saxony](http://en.wikipedia.org/wiki/Duke_of_Saxony), the [Margrave of Brandenburg](http://en.wikipedia.org/wiki/Margrave_of_Brandenburg) and the archbishops of [Cologne](http://en.wikipedia.org/wiki/Electorate_of_Cologne), [Mainz](http://en.wikipedia.org/wiki/Mainz), and [Trier](http://en.wikipedia.org/wiki/Trier). During the [Thirty Years' War](http://en.wikipedia.org/wiki/Thirty_Years%27_War), the [Duke of Bavaria](http://en.wikipedia.org/wiki/Duke_of_Bavaria) was given the right to vote as the eighth elector. A candidate for election would be expected to offer concessions of land or money to the electors in order to secure their vote.

     After being elected, the King of the Romans could theoretically claim the title of "Emperor" only after being crowned by the [Pope](http://en.wikipedia.org/wiki/Pope). In many cases, this took several years while the King was held up by other tasks: frequently he first had to resolve conflicts in rebellious northern Italy, or was in quarrel with the Pope himself. Later Emperors dispensed with the papal coronation altogether, being content with the styling *Emperor-Elect*: the last Emperor to be crowned by the Pope was [Charles V](http://en.wikipedia.org/wiki/Charles_V,_Holy_Roman_Emperor) in 1530.” [↑](#endnote-ref-543)
544. <http://en.wikipedia.org/wiki/Mohammad_Reza_Pahlavi>

     “The Shah was the target of two unsuccessful assassination attempts. On 4 February 1949, the Shah attended an annual ceremony to commemorate the founding of [Tehran University](http://en.wikipedia.org/wiki/Tehran_University).[[15]](http://en.wikipedia.org/wiki/Mohammad_Reza_Pahlavi#cite_note-14) At the ceremony, Fakhr-Arai fired five shots at the Shah at a range of ten feet. Only one of the shots hit the Shah and his cheek was grazed. Fakhr-Arai was instantly shot by nearby officers. After an investigation, it was determined that Fakhr-Arai was a member of the [Tudeh Party](http://en.wikipedia.org/wiki/Tudeh_Party),[[16]](http://en.wikipedia.org/wiki/Mohammad_Reza_Pahlavi" \l "cite_note-15) which was subsequently banned.[[17]](http://en.wikipedia.org/wiki/Mohammad_Reza_Pahlavi#cite_note-16) However, there is evidence that the would-be assassin was not a Tudeh member but a religious fundamentalist member of [Fada'iyan-e Islam](http://en.wikipedia.org/wiki/Fada%27iyan-e_Islam).[[18]](http://en.wikipedia.org/wiki/Mohammad_Reza_Pahlavi#cite_note-17)[[19]](http://en.wikipedia.org/wiki/Mohammad_Reza_Pahlavi#cite_note-18) The Tudeh was nonetheless blamed and persecuted.

     The second attempt on the Shah's life occurred on 10 April 1965.[[20]](http://en.wikipedia.org/wiki/Mohammad_Reza_Pahlavi#cite_note-19) A soldier shot his way through the Marble Palace. The assassin was killed before he reached the Shah's quarters. Two civilian guards died protecting the Shah.

     …

     In 1978 the deepening opposition to the Shah erupted in widespread demonstrations and rioting. Recognizing that even this level of violence had failed to crush the rebellion, the Shah abdicated the Peacock Throne and departed Iran on 16 January 1979. Despite decades of pervasive surveillance by SAVAK, working closely with CIA, the extent of public opposition to the Shah, and his sudden departure, came as a considerable surprise to the US intelligence community and national leadership. As late as 28 September 1978 the US Defense Intelligence Agency reported that the shah "is expected to remain actively in power over the next ten years."[[32]](http://en.wikipedia.org/wiki/Mohammad_Reza_Pahlavi#cite_note-31)

     Explanations for why the Shah was overthrown include that he was beholden to — if not a puppet of — a non-[Muslim](http://en.wikipedia.org/wiki/Muslim) [Western](http://en.wikipedia.org/wiki/Western_world) power, (the [United States](http://en.wikipedia.org/wiki/United_States)),[[33]](http://en.wikipedia.org/wiki/Mohammad_Reza_Pahlavi#cite_note-32)[[34]](http://en.wikipedia.org/wiki/Mohammad_Reza_Pahlavi#cite_note-Shirley_1997_207-33) whose alien culture was seen as contaminating that of Iran. Additional contributing factors included perceptions of oppression, brutality,[[35]](http://en.wikipedia.org/wiki/Mohammad_Reza_Pahlavi" \l "cite_note-Harney_1998-34)[[36]](http://en.wikipedia.org/wiki/Mohammad_Reza_Pahlavi#cite_note-Iran-35) corruption, and extravagance.[[35]](http://en.wikipedia.org/wiki/Mohammad_Reza_Pahlavi#cite_note-Harney_1998-34)[[37]](http://en.wikipedia.org/wiki/Mohammad_Reza_Pahlavi#cite_note-36) Basic functional failures of the regime have also been blamed — economic bottlenecks, shortages and inflation; the regime's overly-ambitious economic program;[[38]](http://en.wikipedia.org/wiki/Mohammad_Reza_Pahlavi#cite_note-37) the failure of its security forces to deal with protest and demonstration;[[39]](http://en.wikipedia.org/wiki/Mohammad_Reza_Pahlavi#cite_note-38) the overly centralized royal power structure.[[40]](http://en.wikipedia.org/wiki/Mohammad_Reza_Pahlavi#cite_note-39)” [↑](#endnote-ref-544)
545. <http://en.wikipedia.org/wiki/Red_Army_Faction>

     “The origins of the group can be traced back to the [student protest movement in West Germany](http://en.wikipedia.org/wiki/German_student_movement). Industrialised nations in late 1960s experienced [social upheavals](http://en.wikipedia.org/wiki/Counterculture_of_the_1960s) related to the maturing of the [baby boomers](http://en.wikipedia.org/wiki/Baby_boomers) born after World War II, the [Cold War](http://en.wikipedia.org/wiki/Cold_War), and the end of [colonialism](http://en.wikipedia.org/wiki/Colonialism). Newly-found [youth identity](http://en.wikipedia.org/wiki/Youth_culture) and issues such as [racism](http://en.wikipedia.org/wiki/Racism), [women's liberation](http://en.wikipedia.org/wiki/Women%27s_liberation) and [anti-imperialism](http://en.wikipedia.org/wiki/Anti-imperialism) were at the forefront of left-wing politics.

     In [West Germany](http://en.wikipedia.org/wiki/West_Germany), 1966 saw the emergence of the first [Grand Coalition](http://en.wikipedia.org/wiki/Grand_Coalition_%28Germany%29) between the two main parties, the [SPD](http://en.wikipedia.org/wiki/Social_Democratic_Party_of_Germany) and [CDU](http://en.wikipedia.org/wiki/Christian_Democratic_Union_%28Germany%29), under chancellor [Kurt Georg Kiesinger](http://en.wikipedia.org/wiki/Kurt_Georg_Kiesinger). With 95% of the [Bundestag](http://en.wikipedia.org/wiki/Bundestag) controlled by the coalition, an [Extra-Parliamentary Opposition](http://en.wikipedia.org/wiki/Ausserparlamentarische_Opposition) (APO) was formed with the intent of generating protest and political activity outside of government.[[4]](http://en.wikipedia.org/wiki/Red_Army_Faction#cite_note-3)

     Many young people were alienated from both their parents and the institutions of state. The historical legacy of [Nazism](http://en.wikipedia.org/wiki/Nazism) drove a wedge between the generations and increased suspicion of [authoritarian](http://en.wikipedia.org/wiki/Authoritarian) structures in society (some analysts see the same occurring in Italy, giving rise to "Brigate Rosse" or [Red Brigades](http://en.wikipedia.org/wiki/Red_Brigades)).[[5]](http://en.wikipedia.org/wiki/Red_Army_Faction#cite_note-Townsend-4)

     In West Germany there was anger among leftist youth at perceived failures in the post-war [denazification](http://en.wikipedia.org/wiki/Denazification) in West and [East Germany](http://en.wikipedia.org/wiki/East_Germany), which was seen as ineffective.[[6]](http://en.wikipedia.org/wiki/Red_Army_Faction#cite_note-5) The [Communist Party of Germany](http://en.wikipedia.org/wiki/Communist_Party_of_Germany) had been outlawed since 1956. Elected and unelected government positions down to the local level were often occupied by [ex-Nazis](http://en.wikipedia.org/wiki/Ex-Nazi_Party_members).[[7]](http://en.wikipedia.org/wiki/Red_Army_Faction#cite_note-6) [Konrad Adenauer](http://en.wikipedia.org/wiki/Konrad_Adenauer), the first Federal Republic chancellor had even kept on the Nazi chancellery secretary, [Hans Globke](http://en.wikipedia.org/wiki/Hans_Globke).” [↑](#endnote-ref-545)
546. <http://en.wikipedia.org/wiki/Black_Panther_Party>

     “The Ten Point Program was as follows:

     1. WE WANT FREEDOM. WE WANT POWER TO DETERMINE THE DESTINY OF OUR BLACK AND OPPRESSED COMMUNITIES. We believe that Black and oppressed people will not be free until we are able to determine our destinies in our own communities ourselves, by fully controlling all the institutions which exist in our communities.
     2. WE WANT FULL EMPLOYMENT FOR OUR PEOPLE. We believe that the federal government is responsible and obligated to give every person employment or a guaranteed income. We believe that if the American businessmen will not give full employment, then the technology and means of production should be taken from the businessmen and placed in the community so that the people of the community can organize and employ all of its people and give a high standard of living.
     3. WE WANT AN END TO THE ROBBERY BY THE CAPITALISTS OF OUR BLACK AND OPPRESSED COMMUNITIES. We believe that this racist government has robbed us and now we are demanding the overdue debt of forty acres and two mules. Forty acres and two mules were promised 100 years ago as restitution for slave labor and mass murder of Black people. We will accept the payment in currency which will be distributed to our many communities. The American racist has taken part in the slaughter of our fifty million Black people. Therefore, we feel this is a modest demand that we make.”

     [↑](#endnote-ref-546)
547. <http://en.wikipedia.org/wiki/Extraordinary_rendition_by_the_United_States>

     “**Extraordinary rendition** and **irregular rendition** are terms used to describe the apprehension and [extrajudicial](http://en.wikipedia.org/wiki/Extrajudicial) transfer of a person from one state to another.[[1]](http://en.wikipedia.org/wiki/Extraordinary_rendition_by_the_United_States#cite_note-MJC-2006-04-05-0) "**Torture by proxy**" is used by some critics to describe situations in which the United States has transferred suspected terrorists to countries known to practice [torture](http://en.wikipedia.org/wiki/Torture).[[2]](http://en.wikipedia.org/wiki/Extraordinary_rendition_by_the_United_States#cite_note-WashingtonIndependent2009-01-26-1)[[3]](http://en.wikipedia.org/wiki/Extraordinary_rendition_by_the_United_States#cite_note-WashingtonIndependent2009-06-12-2)[[4]](http://en.wikipedia.org/wiki/Extraordinary_rendition_by_the_United_States#cite_note-Chrgj2005-12-3)

     It is alleged that the CIA runs a secret global abduction and internment operation of suspected terrorists, known as “extraordinary rendition”, which since 2001 has captured about 3,000 people and transported them around the world. It has been alleged that torture has been employed with the knowledge or acquiescence of the Governments of the United States and the United Kingdom. [Condoleezza Rice](http://en.wikipedia.org/wiki/Condoleezza_Rice), then [United States Secretary of State](http://en.wikipedia.org/wiki/United_States_Secretary_of_State), said in an April 2006 radio interview that the United States does not transfer people to places where it is known they will be tortured.[[1]](http://en.wikipedia.org/wiki/Extraordinary_rendition_by_the_United_States#cite_note-MJC-2006-04-05-0)[[5]](http://en.wikipedia.org/wiki/Extraordinary_rendition_by_the_United_States#cite_note-BBC_GC_2005-04-05-4)[[6]](http://en.wikipedia.org/wiki/Extraordinary_rendition_by_the_United_States#cite_note-BBC_JN_2005-04-01-5)

     The US program prompted several official investigations in [Europe](http://en.wikipedia.org/wiki/Europe) into alleged secret detentions and unlawful inter-state transfers involving [Council of Europe](http://en.wikipedia.org/wiki/Council_of_Europe) member states. [June 2006 report](http://en.wikipedia.org/wiki/Extraordinary_rendition_by_the_United_States#June_27.2C_2006_Council_of_Europe_resolution) from the Council of Europe estimated 100 people had been kidnapped by the United States' [Central Intelligence Agency](http://en.wikipedia.org/wiki/Central_Intelligence_Agency) (CIA) on [EU](http://en.wikipedia.org/wiki/EU) territory (with the cooperation of Council of Europe members), and rendered to other countries, often after having transited through secret detention centers ("[black sites](http://en.wikipedia.org/wiki/Black_sites)") used by the CIA, some sited in Europe. According to the separate [European Parliament report of February 2007](http://en.wikipedia.org/wiki/Extraordinary_rendition_by_the_United_States#The_European_Parliament.27s_February_14.2C_2007_report), the CIA has conducted 1,245 flights, many of them to destinations where suspects could face torture, in violation of article 3 of the [United Nations Convention Against Torture](http://en.wikipedia.org/wiki/United_Nations_Convention_Against_Torture).[[7]](http://en.wikipedia.org/wiki/Extraordinary_rendition_by_the_United_States#cite_note-6) A large majority of the [European Union Parliament](http://en.wikipedia.org/wiki/European_Union_Parliament) endorsed the report's conclusion that many member states tolerated illegal actions of the CIA and criticized several European governments and intelligence agencies for their unwillingness to cooperate with the investigation.” [↑](#endnote-ref-547)
548. <http://en.wikipedia.org/wiki/TED_spread>

     “The long term average of the TED has been 30 basis points with a maximum of 50 bps.

     During 2007, the [subprime mortgage crisis](http://en.wikipedia.org/wiki/Subprime_mortgage_crisis) ballooned the TED spread to a region of 150-200 bps. On September 17, 2008, the TED spread exceeded 300 bps, breaking the previous record set after the [Black Monday](http://en.wikipedia.org/wiki/Black_Monday_%281987%29) crash of 1987.[[3]](http://en.wikipedia.org/wiki/TED_spread#cite_note-2) Some higher readings for the spread were due to inability to obtain accurate LIBOR rates in the absence of a liquid unsecured lending market.[[4]](http://en.wikipedia.org/wiki/TED_spread#cite_note-3) On October 10, 2008, the TED spread reached another new high of 465 basis points.” [↑](#endnote-ref-548)
549. <http://en.wikipedia.org/wiki/Lemming>

     “Lemmings became notoriously famous because of unsubstantiated myths that they commit [mass suicide](http://en.wikipedia.org/wiki/Mass_suicide) when they migrate. The myth may exist in more variations. In most forms it does not appear to claim a conscious suicide but rather accidental mass death due to various factors. However in popular culture the alleged behavior is usually referred to as "mass suicide".

     Driven by strong biological urges, some species of lemmings may migrate in large groups when population density becomes too great. Lemmings can swim and may choose to cross a body of water in search of a new habitat.[[7]](http://en.wikipedia.org/wiki/Lemming#cite_note-6) This fact combined with the unexplained fluctuations in the population of Norwegian lemmings may have contributed to the development of the myth.” [↑](#endnote-ref-549)
550. <http://en.wikipedia.org/wiki/Erewhon>

     “Butler developed the three chapters of *Erewhon* that make up "The Book of the Machines" from a number of articles that he had contributed to [*The Press*](http://en.wikipedia.org/wiki/The_Press), which had just begun publication in [Christchurch](http://en.wikipedia.org/wiki/Christchurch), [New Zealand](http://en.wikipedia.org/wiki/New_Zealand), beginning with "[Darwin among the Machines](http://en.wikipedia.org/wiki/Darwin_among_the_Machines)" (1863). Butler was the first to write about the possibility that machines might develop [consciousness](http://en.wikipedia.org/wiki/Consciousness) by [Darwinian Selection](http://en.wikipedia.org/wiki/Charles_Darwin).[[1]](http://en.wikipedia.org/wiki/Erewhon#cite_note-0) Many dismissed this as a joke; but, in his preface to the second edition, Butler wrote:

     I regret that reviewers have in some cases been inclined to treat the chapters on Machines as an attempt to reduce Mr. Darwin's theory to an absurdity. Nothing could be further from my intention, and few things would be more distasteful to me than any attempt to laugh at Mr. Darwin....” [↑](#endnote-ref-550)
551. <http://en.wikipedia.org/wiki/Fractional-reserve_banking>

     “**Fractional-reserve banking** is the banking practice in which [banks](http://en.wikipedia.org/wiki/Bank) keep only a *fraction* of their [deposits](http://en.wikipedia.org/wiki/Demand_deposit) in [reserve](http://en.wikipedia.org/wiki/Bank_reserves) (as cash and other highly [liquid assets](http://en.wikipedia.org/wiki/Liquid_assets)) and lend out the remainder, while maintaining the simultaneous obligation to redeem all these deposits upon demand.[[1]](http://en.wikipedia.org/wiki/Fractional-reserve_banking#cite_note-0)[[2]](http://en.wikipedia.org/wiki/Fractional-reserve_banking#cite_note-1) Fractional reserve banking necessarily occurs when banks lend out any fraction of the funds received from [deposit accounts](http://en.wikipedia.org/wiki/Deposit_accounts), and is practiced by all modern commercial banks.

     The practice of fractional reserve banking expands the [money supply](http://en.wikipedia.org/wiki/Money_supply) (cash and demand deposits) beyond what it would otherwise be. Due to the prevalence of fractional reserve banking, the [broad money supply](http://en.wikipedia.org/wiki/M2_%28economics%29) of most countries is a multiple larger than the amount of [base money](http://en.wikipedia.org/wiki/Monetary_base) created by the country's [central bank](http://en.wikipedia.org/wiki/Central_bank). That multiple (called the [money multiplier](http://en.wikipedia.org/wiki/Money_multiplier)) is determined by the [reserve requirement](http://en.wikipedia.org/wiki/Reserve_requirement) or other [financial ratio](http://en.wikipedia.org/wiki/Financial_ratio) requirements imposed by financial regulators, and by the [excess reserves](http://en.wikipedia.org/wiki/Excess_reserves) kept by commercial banks.” [↑](#endnote-ref-551)
552. <http://en.wikipedia.org/wiki/Bernoulli%27s_principle>

     “In [fluid dynamics](http://en.wikipedia.org/wiki/Fluid_dynamics), **Bernoulli's principle** states that for an [inviscid flow](http://en.wikipedia.org/wiki/Inviscid_flow), an increase in the speed of the fluid occurs simultaneously with a decrease in [pressure](http://en.wikipedia.org/wiki/Pressure) or a decrease in the [fluid](http://en.wikipedia.org/wiki/Fluid)'s [potential energy](http://en.wikipedia.org/wiki/Potential_energy).[[1]](http://en.wikipedia.org/wiki/Bernoulli%27s_principle#cite_note-0)[[2]](http://en.wikipedia.org/wiki/Bernoulli%27s_principle#cite_note-1) Bernoulli's principle is named after the [Dutch](http://en.wikipedia.org/wiki/Netherlands)-[Swiss](http://en.wikipedia.org/wiki/Switzerland) [mathematician](http://en.wikipedia.org/wiki/Mathematician) [Daniel Bernoulli](http://en.wikipedia.org/wiki/Daniel_Bernoulli) who published his principle in his book *Hydrodynamica* in 1738.[[3]](http://en.wikipedia.org/wiki/Bernoulli%27s_principle#cite_note-2)

     Bernoulli's principle can be applied to various types of fluid flow, resulting in what is loosely denoted as **Bernoulli's equation**. In fact, there are different forms of the Bernoulli equation for different types of flow. The simple form of Bernoulli's principle is valid for [incompressible flows](http://en.wikipedia.org/wiki/Incompressible_flow) (e.g. most [liquid](http://en.wikipedia.org/wiki/Liquid) flows) and also for [compressible flows](http://en.wikipedia.org/wiki/Compressible_flow) (e.g. [gases](http://en.wikipedia.org/wiki/Gas)) moving at low [Mach numbers](http://en.wikipedia.org/wiki/Mach_number). More advanced forms may in some cases be applied to compressible flows at higher [Mach numbers](http://en.wikipedia.org/wiki/Mach_number) (see [the derivations of the Bernoulli equation](http://en.wikipedia.org/wiki/Bernoulli%27s_principle#Derivations_of_Bernoulli_equation)).” [↑](#endnote-ref-552)
553. <http://en.wikipedia.org/wiki/Younger_Dryas>

     “The Younger Dryas saw a rapid return to glacial conditions in the higher latitudes of the Northern Hemisphere between 12,900–11,500 years before present (BP)[[5]](http://en.wikipedia.org/wiki/Younger_Dryas#cite_note-Alley-4) in sharp contrast to the warming of the preceding interstadial [deglaciation](http://en.wikipedia.org/wiki/Glaciation). It has been believed that the transitions each occurred over a period of a decade or so,[[6]](http://en.wikipedia.org/wiki/Younger_Dryas" \l "cite_note-Alleyetal-5) but the onset may have been faster.[[7]](http://en.wikipedia.org/wiki/Younger_Dryas#cite_note-6) Thermally fractionated [nitrogen](http://en.wikipedia.org/wiki/Nitrogen) and [argon](http://en.wikipedia.org/wiki/Argon) [isotope](http://en.wikipedia.org/wiki/Isotope) data from [Greenland](http://en.wikipedia.org/wiki/Greenland) [ice core](http://en.wikipedia.org/wiki/Ice_core) GISP2 indicate that the summit of [Greenland](http://en.wikipedia.org/wiki/Greenland) was ~15°C colder during the Younger Dryas[[6]](http://en.wikipedia.org/wiki/Younger_Dryas#cite_note-Alleyetal-5) than today. In the UK, [coleopteran](http://en.wikipedia.org/wiki/Beetle) fossil evidence (from beetles) suggests that mean annual temperature dropped to approximately 5°C,[[8]](http://en.wikipedia.org/wiki/Younger_Dryas#cite_note-Severinghaus-7) and [periglacial](http://en.wikipedia.org/wiki/Periglacial) conditions prevailed in lowland areas, while icefields and [glaciers](http://en.wikipedia.org/wiki/Glaciers) formed in upland areas.[[9]](http://en.wikipedia.org/wiki/Younger_Dryas#cite_note-Atkinson-8) Nothing of the size, extent, or rapidity of this period of [abrupt climate change](http://en.wikipedia.org/wiki/Abrupt_climate_change) has been experienced since.[[5]](http://en.wikipedia.org/wiki/Younger_Dryas#cite_note-Alley-4)” [↑](#endnote-ref-553)
554. <http://en.wikipedia.org/wiki/Shibboleth>

     “In numerous cases of conflict between groups speaking different languages or dialects, one side used shibboleths in a way similar to the above-mentioned Biblical use, i.e., to discover hiding members of the opposing group. Modern researchers use the term "Shibboleth" for all such usages, whether or not the people involved were using it themselves. Today, in the English language, a shibboleth also has a wider meaning, referring to any "in-crowd" word or phrase that can be used to distinguish members of a group from outsiders - even when not used by a hostile other group. The word is also sometimes used in a broader sense to mean [jargon](http://en.wikipedia.org/wiki/Jargon), the proper use of which identifies speakers as members of a particular group or subculture. Shibboleths can also be customs or practices, such as [male circumcision](http://en.wikipedia.org/wiki/Male_circumcision), or a signifier, such as a [semiotic](http://en.wikipedia.org/wiki/Semiotic). Cultural [touchstones](http://en.wikipedia.org/wiki/Touchstone) and shared experience can also be shibboleths of a sort. For example, people about the same age who are from the same nation tend to have [the same memories](http://en.wikipedia.org/wiki/Collective_memory) of popular songs, television shows, and events from their formative years. [One-hit wonders](http://en.wikipedia.org/wiki/One-hit_wonder) prove particularly effective. Much the same is true of alumni of a particular school, veterans of military service, and other groups. Discussing such memories is a common way of [bonding](http://en.wikipedia.org/wiki/Human_bonding). [In-jokes](http://en.wikipedia.org/wiki/In-jokes) can be a similar type of shared-experience shibboleth. Yet another more pejorative usage involves underlining the fact that the original meaning of a symbol has in effect been lost and that the symbol now serves merely to identify allegiance. For example, if a group repressed the denigration of one of their cultural symbols when the symbol originally was meant to represent freedom of speech, then the symbol could be described as being nothing more than a 'shibboleth'.” [↑](#endnote-ref-554)
555. <http://en.wikipedia.org/wiki/Grace_Kelly>

     “***Grace Patricia Kelly*** (November 12, 1929 – September 14, 1982) was an [American](http://en.wikipedia.org/wiki/United_States) [Academy Award](http://en.wikipedia.org/wiki/Academy_Award)-winning actress and [Princess consort of Monaco](http://en.wikipedia.org/wiki/List_of_Monegasque_princely_consorts). In April 1956 Kelly married [Rainier III, Prince of Monaco](http://en.wikipedia.org/wiki/Rainier_III,_Prince_of_Monaco), and became [styled](http://en.wikipedia.org/wiki/Style_%28manner_of_address%29) as [Her Serene Highness](http://en.wikipedia.org/wiki/Her_Serene_Highness) **The** [**Princess of Monaco**](http://en.wikipedia.org/wiki/Princess_of_Monaco), and was commonly referred to as Princess Grace.” [↑](#endnote-ref-555)
556. <http://en.wikipedia.org/wiki/John_of_England>

     “The heavy scutage levy for the failed campaign was the last straw and when John attempted to raise more in September 1214, many barons refused to pay. The barons no longer believed that John was capable of regaining his lost lands.

     In May 1215, [Robert fitz Walter](http://en.wikipedia.org/wiki/Robert_fitz_Walter) led forty barons in their renunciation of homage to the king at [Northampton](http://en.wikipedia.org/wiki/Northampton). **"The Army of God"** marched on [London](http://en.wikipedia.org/wiki/London), taking the capital as well as taking [Lincoln](http://en.wikipedia.org/wiki/Lincoln) and [Exeter](http://en.wikipedia.org/wiki/Exeter).

     John met their leaders along with their French and Scots allies at [Runnymede](http://en.wikipedia.org/wiki/Runnymede), near London on 15 June 1215 to seal the [Great Charter](http://en.wikipedia.org/wiki/Magna_Carta), called in [Latin](http://en.wikipedia.org/wiki/Latin_%28language%29) *Magna Carta*. It established a council of 25 barons to monitor John's adherence to the clause that included protection from illegal imprisonment, access to swift justice, parliamentary assent for taxation and scutage limitations.

     Because he had sealed the charter under duress John sought approval from his overlord the Pope to break it. Denouncing it as *"not only shameful and demeaning but also illegal and unjust"*, the pope agreed. This provoked the [First Barons' War](http://en.wikipedia.org/wiki/First_Barons%27_War) and the barons invited a French invasion by [Prince Louis](http://en.wikipedia.org/wiki/Louis_VIII_of_France) of France. The husband of [Blanche of Castile](http://en.wikipedia.org/wiki/Blanche_of_Castile), the grand-daughter of [Henry II](http://en.wikipedia.org/wiki/Henry_II), Louis accepted the offer of the crown of England as a reward for his support.” [↑](#endnote-ref-556)
557. <http://en.wikipedia.org/wiki/Social_Darwinism>

     “**Social Darwinism** is a pejorative term used for various late nineteenth century ideologies which, while often contradictory, exploited ideas of [survival of the fittest](http://en.wikipedia.org/wiki/Survival_of_the_fittest). It commonly refers to notions of struggle for existence being used to justify social policies which show no sympathy for those unable to support themselves. While the most prominent form of such views stressed competition between individuals in [free market](http://en.wikipedia.org/wiki/Free_market) [capitalism](http://en.wikipedia.org/wiki/Capitalism), it is also associated with ideas of struggle between national or racial groups.[[1]](http://en.wikipedia.org/wiki/Social_Darwinism#cite_note-0) In [sociology](http://en.wikipedia.org/wiki/Sociology) it has been defined as a theory of [social evolution](http://en.wikipedia.org/wiki/Social_evolution) which asserts that "There are underlying, and largely irresistible, forces acting in societies which are like the natural forces that operate in animal and plant communities. One can therefore formulate social laws similar to natural ones. These social forces are of such a kind as to produce evolutionary progress through the natural conflicts between social groups. The best-adapted and most successful social groups survive these conflicts, raising the evolutionary level of society generally (the 'survival of the fittest')."[[2]](http://en.wikipedia.org/wiki/Social_Darwinism#cite_note-1) The term has very rarely been used as a self description.[[3]](http://en.wikipedia.org/wiki/Social_Darwinism#cite_note-h428-2)

     The term first appeared in Europe in 1877,[[4]](http://en.wikipedia.org/wiki/Social_Darwinism" \l "cite_note-oed-3) and around this time it was used by sociologists opposed to the concept.[[5]](http://en.wikipedia.org/wiki/Social_Darwinism#cite_note-4) The term was popularized in the United States in 1944 by the American historian [Richard Hofstadter](http://en.wikipedia.org/wiki/Richard_Hofstadter) who used it in the ideological war effort against [fascism](http://en.wikipedia.org/wiki/Fascism) to denote a reactionary creed which promoted competitive strife, racism and nationalism. Before Hofstadter's work the use of the term in English academic journals was quite rare.[[6]](http://en.wikipedia.org/wiki/Social_Darwinism#cite_note-5) The term "social darwinism" has rarely been used by advocates of the supposed ideologies or ideas; instead it has almost always been used (pejoratively) by its opponents.[[7]](http://en.wikipedia.org/wiki/Social_Darwinism#cite_note-6)[[8]](http://en.wikipedia.org/wiki/Social_Darwinism#cite_note-7)

     The term draws upon the common use of the term [*Darwinism*](http://en.wikipedia.org/wiki/Darwinism), which has been used to describe a range of [evolutionary views](http://en.wikipedia.org/wiki/Evolutionism), but in the late 19th century was applied more specifically to [natural selection](http://en.wikipedia.org/wiki/Natural_selection) as first advanced by [Charles Darwin](http://en.wikipedia.org/wiki/Charles_Darwin) to explain [speciation](http://en.wikipedia.org/wiki/Speciation) in populations of [organisms](http://en.wikipedia.org/wiki/Organism). The process includes competition between individuals for limited resources, popularly but innaccurately described by the phrase "[survival of the fittest](http://en.wikipedia.org/wiki/Survival_of_the_fittest)", a term coined by [sociologist](http://en.wikipedia.org/wiki/Sociologist) [Herbert Spencer](http://en.wikipedia.org/wiki/Herbert_Spencer).” [↑](#endnote-ref-557)
558. <http://en.wikipedia.org/wiki/Balfour_Declaration_of_1917>

     “The **Balfour Declaration of 1917** (dated 2 November 1917) was a formal statement of [policy](http://en.wikipedia.org/wiki/Policy) by the [British](http://en.wikipedia.org/wiki/United_Kingdom_of_Great_Britain_and_Ireland) government stating that

     *"His Majesty's government view with favour the establishment in Palestine of a* [*national home for the Jewish people*](http://en.wikipedia.org/wiki/National_home_for_the_Jewish_people)*, and will use their best endeavours to facilitate the achievement of this object, it being clearly understood that nothing shall be done which may prejudice the civil and religious rights of existing non-Jewish communities in Palestine, or the rights and political status enjoyed by Jews in any other country."*[[1]](http://en.wikipedia.org/wiki/Balfour_Declaration_of_1917#cite_note-0)

     The declaration was made in a letter from [Foreign Secretary](http://en.wikipedia.org/wiki/Secretary_of_State_for_Foreign_Affairs) [Arthur James Balfour](http://en.wikipedia.org/wiki/Arthur_James_Balfour) to [Baron Rothschild](http://en.wikipedia.org/wiki/Walter_Rothschild,_2nd_Baron_Rothschild) (Walter Rothschild, 2nd Baron Rothschild), a leader of the British Jewish community, for transmission to the [Zionist Federation of Great Britain and Ireland](http://en.wikipedia.org/wiki/Zionist_Federation_of_Great_Britain_and_Ireland), a [Zionist](http://en.wikipedia.org/wiki/Zionist) organization. The letter reflected the position of the [British Cabinet](http://en.wikipedia.org/wiki/British_Cabinet), as agreed upon in a meeting on 31 October 1917. It further stated that the declaration is a sign of *"sympathy with Jewish Zionist aspirations."*

     The statement was issued through the efforts of [Chaim Weizmann](http://en.wikipedia.org/wiki/Chaim_Weizmann) and [Nahum Sokolow](http://en.wikipedia.org/wiki/Nahum_Sokolow), the principal Zionist leaders based in [London](http://en.wikipedia.org/wiki/London); as they had asked for the reconstitution of Palestine as “the” [Jewish](http://en.wikipedia.org/wiki/Jewish) national home, the declaration fell short of Zionist expectations.[[2]](http://en.wikipedia.org/wiki/Balfour_Declaration_of_1917#cite_note-1)” [↑](#endnote-ref-558)
559. <http://en.wikipedia.org/wiki/Fritz_Thyssen>

     “Thyssen was a [political conservative](http://en.wikipedia.org/wiki/Political_conservative) and a [German nationalist](http://en.wikipedia.org/wiki/German_nationalist). In 1923, when [France](http://en.wikipedia.org/wiki/France) and [Belgium](http://en.wikipedia.org/wiki/Belgium) occupied the Ruhr to punish Germany for not meeting its [reparations](http://en.wikipedia.org/wiki/World_War_I_reparations) payments in full, he took part in the nationalist resistance against the occupiers, leading the Ruhr steelmakers in refusing to co-operate in producing coal and steel for them. He was arrested, imprisoned and received a large fine for his activities, which made him a national hero. Through the 1920s the Thyssen companies continued to expand. Thyssen took over the Thyssen companies on his father's death in 1926, and in 1928 he formed United Steelworks ([Vereinigte Stahlwerke AG](http://en.wikipedia.org/wiki/Vereinigte_Stahlwerke_AG)), controlling more than 75 percent of Germany's iron ore reserves and employing 200,000 people. He played a prominent role in German commercial life, as head of the German Iron and Steel Industry Association and the Reich Association of German Industry, and as a board member of the Reichsbank.

     In 1923, Thyssen met former [General](http://en.wikipedia.org/wiki/General) [Erich Ludendorff](http://en.wikipedia.org/wiki/Erich_Ludendorff), who advised him to attend a speech given by [Adolf Hitler](http://en.wikipedia.org/wiki/Adolf_Hitler), leader of the [Nazi Party](http://en.wikipedia.org/wiki/Nazi_Party). Thyssen was impressed by Hitler and his bitter opposition to the [Treaty of Versailles](http://en.wikipedia.org/wiki/Treaty_of_Versailles), and began to make large donations to the party, including 100,000 gold marks ($25,000) in 1923 to Ludendorff.[[1]](http://en.wikipedia.org/wiki/Fritz_Thyssen#cite_note-0). In this he was unusual among German business leaders, as most were traditional conservatives who regarded the Nazis with suspicion. Postwar investigators found that he had donated 650,000 [Reichsmarks](http://en.wikipedia.org/wiki/Reichsmark) to right-wing parties, mostly to the Nazis, although Thyssen himself claimed to have donated 1 million marks to the Nazi Party.[[2]](http://en.wikipedia.org/wiki/Fritz_Thyssen#cite_note-1). Thyssen remained a member of the [German National People's Party](http://en.wikipedia.org/wiki/German_National_People%27s_Party) until 1932, and did not join the Nazi Party until 1933.

     In November, 1932, Thyssen and [Hjalmar Schacht](http://en.wikipedia.org/wiki/Hjalmar_Schacht) were the main organisers of a letter to President [Paul von Hindenburg](http://en.wikipedia.org/wiki/Paul_von_Hindenburg) urging him to appoint Hitler as Chancellor. Thyssen also persuaded the Association of German Industrialists to donate 3 million Reichsmarks to the Nazi Party for the March, 1933 [Reichstag](http://en.wikipedia.org/wiki/Reichstag_%28institution%29) election. As a reward, he was elected a Nazi member of the Reichstag and appointed to the Council of State of [Prussia](http://en.wikipedia.org/wiki/Free_State_of_Prussia), the largest German state (both purely honorary positions).” [↑](#endnote-ref-559)
560. <http://www.youtube.com/watch?v=LU8DDYz68kM> [↑](#endnote-ref-560)
561. <http://en.wikipedia.org/wiki/Eurocommunism>

     “The main theoretical foundation of Eurocommunism was [Antonio Gramsci](http://en.wikipedia.org/wiki/Antonio_Gramsci)'s writing about Marxist theory which questioned the sectarianism of the Left and encouraged communist parties to develop social alliances to win [*hegemonic*](http://en.wikipedia.org/wiki/Cultural_hegemony) support for social reforms. Eurocommunist parties expressed their fidelity to [democratic](http://en.wikipedia.org/wiki/Democracy) institutions more clearly than before and attempted to widen their appeal by embracing [public sector](http://en.wikipedia.org/wiki/Public_sector) [middle-class](http://en.wikipedia.org/wiki/Middle-class) workers, [new social movements](http://en.wikipedia.org/wiki/New_social_movements) such as [feminism](http://en.wikipedia.org/wiki/Feminism) and [gay liberation](http://en.wikipedia.org/wiki/Gay_liberation) and more publicly questioning the Soviet Union. Early inspirations can also be found in the [Austromarxism](http://en.wikipedia.org/wiki/Austromarxism) and its seeking of a "third" democratic "way" to socialism. Some [Communist parties](http://en.wikipedia.org/wiki/Communist_Party) with strong popular support, notably the [Italian Communist Party](http://en.wikipedia.org/wiki/Partito_Comunista_Italiano) (PCI) and the [Spanish Communist Party](http://en.wikipedia.org/wiki/Communist_Party_of_Spain_%28main%29) (PCE) adopted Eurocommunism most enthusiastically. On the contrary, at least one mass party, the [French Communist Party](http://en.wikipedia.org/wiki/French_Communist_Party) (PCF) and many smaller parties strongly opposed to it and stayed aligned to the positions of the [Communist Party of the Soviet Union](http://en.wikipedia.org/wiki/Communist_Party_of_the_Soviet_Union) until the end of the USSR (although the PCF did make a brief turn toward Eurocommunism in the mid-to-late 1970s).” [↑](#endnote-ref-561)
562. <http://en.wikipedia.org/wiki/Murray_Rothbard>

     “**Murray Newton Rothbard** (March 2, 1926 – January 7, 1995) was an American [intellectual](http://en.wikipedia.org/wiki/Intellectual), [individualist anarchist](http://en.wikipedia.org/wiki/Individualist_anarchist),[[1]](http://en.wikipedia.org/wiki/Murray_Rothbard#cite_note-0) [author](http://en.wikipedia.org/wiki/Author), and [economist](http://en.wikipedia.org/wiki/Economics) of the [Austrian School](http://en.wikipedia.org/wiki/Austrian_School) who helped define modern [libertarianism](http://en.wikipedia.org/wiki/Libertarianism) and popularized a form of [free-market anarchism](http://en.wikipedia.org/wiki/Free-market_anarchism) he termed "[anarcho-capitalism](http://en.wikipedia.org/wiki/Anarcho-capitalism)".[[2]](http://en.wikipedia.org/wiki/Murray_Rothbard#cite_note-1)[[3]](http://en.wikipedia.org/wiki/Murray_Rothbard#cite_note-2) Rothbard wrote over twenty books and is considered by some to be "dean of the [Austrian School](http://en.wikipedia.org/wiki/Austrian_School) of economics, the founder of [libertarianism](http://en.wikipedia.org/wiki/Libertarianism), and an exemplar of the [Old Right](http://en.wikipedia.org/wiki/Old_Right_%28United_States%29)".[[4]](http://en.wikipedia.org/wiki/Murray_Rothbard#cite_note-3)

     Building on the Austrian School's concept of [spontaneous order](http://en.wikipedia.org/wiki/Spontaneous_order), support for a [free market](http://en.wikipedia.org/wiki/Free_market) in [money production](http://en.wikipedia.org/wiki/Money_creation) and condemnation of [central planning](http://en.wikipedia.org/wiki/Central_planning),[[5]](http://en.wikipedia.org/wiki/Murray_Rothbard#cite_note-4) Rothbard advocated abolition of [coercive](http://en.wikipedia.org/wiki/Coercion) government control of the economy. He considered the [monopoly](http://en.wikipedia.org/wiki/Monopoly) force of government the greatest danger to liberty and the long-term well-being of the populace, labeling [the State](http://en.wikipedia.org/wiki/State_%28polity%29) as nothing but a "gang of thieves writ large"—the locus of the most immoral, grasping and unscrupulous individuals in any society.[[6]](http://en.wikipedia.org/wiki/Murray_Rothbard#cite_note-5)[[7]](http://en.wikipedia.org/wiki/Murray_Rothbard#cite_note-Hans-Hermann_Hoppe-6)[[8]](http://en.wikipedia.org/wiki/Murray_Rothbard#cite_note-7)[[9]](http://en.wikipedia.org/wiki/Murray_Rothbard#cite_note-8)

     Rothbard concluded that all services provided by [monopoly](http://en.wikipedia.org/wiki/Monopoly) [governments](http://en.wikipedia.org/wiki/Government) could be provided more efficiently by the private sector. He viewed many regulations and laws ostensibly promulgated for the "public interest" as self-interested power grabs by scheming government bureaucrats engaging in dangerously unfettered self-aggrandizement, as they were not subject to [market disciplines](http://en.wikipedia.org/wiki/Price_mechanism) which would quickly eliminate such parasitic inefficiencies if they were to occur in the competitive private sector.[[10]](http://en.wikipedia.org/wiki/Murray_Rothbard#cite_note-9)[[11]](http://en.wikipedia.org/wiki/Murray_Rothbard#cite_note-10)[[12]](http://en.wikipedia.org/wiki/Murray_Rothbard#cite_note-11)

     Rothbard was equally condemning of state corporatism. He criticized many instances where business elites co-opted government's monopoly power so as to influence laws and regulatory policy in a manner benefiting them at the expense of their competitive rivals.[[13]](http://en.wikipedia.org/wiki/Murray_Rothbard#cite_note-12)” [↑](#endnote-ref-562)
563. <http://en.wikipedia.org/wiki/Niccol%C3%B2_Machiavelli>

     “*The Prince'*s contribution to the history of political thought is the fundamental break between political [Realism](http://en.wikipedia.org/wiki/Realism_%28international_relations%29) and political [Idealism](http://en.wikipedia.org/wiki/Idealism). Niccolò Machiavelli’s best-known book exposits and describes the arts with which a ruling prince can maintain control of his realm. It concentrates on the "new prince", under the presumption that a hereditary prince has an easier task in ruling, since the people are accustomed to him. To retain power, the hereditary prince must carefully maintain the socio-political institutions to which the people are accustomed; whereas a new prince has the more difficult task in ruling, since he must first stabilize his new-found power in order to build an enduring political structure. That requires the prince being a *public figure* above reproach, whilst privately acting amorally to achieve State goals. The examples are those princes who most successfully obtain and maintain power, drawn from his observations as a Florentine diplomat, and his [ancient history](http://en.wikipedia.org/wiki/Ancient_history) readings; thus, the Latin phrases and Classic examples.

     *The Prince* does not dismiss morality, instead, it politically *defines* “Morality”—as in the criteria for *acceptable cruel action*—it must be *decisive*: swift, effective, and short-lived. Machiavelli is aware of the irony of good results coming from evil actions; notwithstanding some mitigating themes, the [Catholic Church](http://en.wikipedia.org/wiki/Catholic_Church) proscribed *The Prince*, registering it to the [Index Librorum Prohibitorum](http://en.wikipedia.org/wiki/Index_Librorum_Prohibitorum), moreover, the Humanists also viewed the book negatively, among them, [Erasmus](http://en.wikipedia.org/wiki/Erasmus) of Rotterdam. As a treatise, its primary intellectual contribution to the history of political thought is the *fundamental break* between political [Realism](http://en.wikipedia.org/wiki/Realism_%28international_relations%29) and political [Idealism](http://en.wikipedia.org/wiki/Idealism)—thus, *The Prince* is a manual to acquiring and keeping political power. In contrast with [Plato](http://en.wikipedia.org/wiki/Plato) and [Aristotle](http://en.wikipedia.org/wiki/Aristotle), a Classical ideal society is not the aim of the prince’s will to power. As a political scientist, Machiavelli emphasises *necessary*, methodical exercise of brute force punishment-and-reward (patronage, [clientelism](http://en.wikipedia.org/w/index.php?title=Clientelism&action=edit&redlink=1), et cetera) to preserve the [status quo](http://en.wikipedia.org/wiki/Status_quo).” [↑](#endnote-ref-563)
564. <http://en.wikipedia.org/wiki/Ku_Klux_Klan>

     “Klan members adopted masks and robes that hid their identities and added to the drama of their night rides, their chosen time for attacks. Many of them operated in small towns and rural areas where people otherwise knew each other's faces, and sometimes still recognized the attackers. "The kind of thing that men are afraid or ashamed to do openly, and by day, they accomplish secretly, masked, and at night." With this method both the high and the low could be attacked.[[29]](http://en.wikipedia.org/wiki/Ku_Klux_Klan#cite_note-28) The Ku Klux Klan night riders "sometimes claimed to be ghosts of Confederate soldiers so, as they claimed, to frighten superstitious blacks. Few freedmen took such nonsense seriously."[[30]](http://en.wikipedia.org/wiki/Ku_Klux_Klan#cite_note-29)

     The Klan attacked black members of the [Loyal Leagues](http://en.wikipedia.org/wiki/Loyal_Leagues) and intimidated southern Republicans and [Freedmen's Bureau](http://en.wikipedia.org/wiki/Freedmen%27s_Bureau) workers. When they killed black political leaders, they also took heads of families, along with the leaders of churches and community groups, because people had many roles. Agents of the Freedmen's Bureau reported weekly assaults and murders of blacks.

     "Armed guerilla warfare killed thousands of Negroes; political riots were staged; their causes or occasions were always obscure, their results always certain: ten to one hundred times as many Negroes were killed as whites."

     Masked men shot into houses and burned them, sometimes with the occupants still inside. They drove successful black farmers off their land. "Generally, it can be reported that in North and South Carolina, in 18 months ending in June 1867, there were 197 murders and 548 cases of aggravated assault."[[31]](http://en.wikipedia.org/wiki/Ku_Klux_Klan#cite_note-30)

     Klan violence worked to suppress black voting. More than 2,000 persons were killed, wounded and otherwise injured in [Louisiana](http://en.wikipedia.org/wiki/Louisiana) within a few weeks prior to the Presidential election of November 1868. Although [St. Landry Parish](http://en.wikipedia.org/wiki/St._Landry_Parish) had a registered Republican majority of 1,071, after the murders, no Republicans voted in the fall elections. White Democrats cast the full vote of the parish for Grant's opponent. The KKK killed and wounded more than 200 black Republicans, hunting and chasing them through the woods. Thirteen captives were taken from jail and shot; a half-buried pile of 25 bodies was found in the woods. The KKK made people vote Democratic and gave them certificates of the fact.[[32]](http://en.wikipedia.org/wiki/Ku_Klux_Klan#cite_note-31)” [↑](#endnote-ref-564)
565. <http://en.wikipedia.org/wiki/Cartel>

     “A **cartel** is a formal (explicit) agreement among *competing* firms. It is a formal organization of producers and manufacturers that agree to fix prices, marketing, and production.[[1]](http://en.wikipedia.org/wiki/Cartel#cite_note-0) Cartels usually occur in an [oligopolistic industry](http://en.wikipedia.org/wiki/Oligopoly), where there is a small number of sellers and usually involve [homogeneous products](http://en.wikipedia.org/wiki/Homogeneous_products). Cartel members may agree on such matters as [price fixing](http://en.wikipedia.org/wiki/Price_fixing), total industry output, [market shares](http://en.wikipedia.org/wiki/Market_share), allocation of customers, allocation of territories, [bid rigging](http://en.wikipedia.org/wiki/Bid_rigging), establishment of common sales agencies, and the division of profits or combination of these. The aim of such [collusion](http://en.wikipedia.org/wiki/Collusion) (also called the **cartel agreement**) is to increase individual members' [profits](http://en.wikipedia.org/wiki/Profit_%28economics%29) by reducing competition.

     One can distinguish **private cartels** from **public cartels**. In the public cartel a government is involved to enforce the cartel agreement, and the government's sovereignty shields such cartels from legal actions. Contrariwise, private cartels are subject to legal liability under the [antitrust](http://en.wikipedia.org/wiki/Antitrust) laws now found in nearly every nation of the world.

     [Competition laws](http://en.wikipedia.org/wiki/Competition_law) often forbid private cartels. Identifying and breaking up cartels is an important part of the [competition policy](http://en.wikipedia.org/wiki/Competition_policy) in most countries, although proving the existence of a cartel is rarely easy, as firms are usually not so careless as to put agreements to collude on paper.[[2]](http://en.wikipedia.org/wiki/Cartel#cite_note-oecd.org-1)[[3]](http://en.wikipedia.org/wiki/Cartel#cite_note-2)

     Several economic studies and legal decisions of antitrust authorities have found that the median price increase achieved by cartels in the last 200 years is around 25%. Private international cartels (those with participants from two or more nations) had an average price increase of 28%, whereas domestic cartels averaged 18%. Fewer than 10% of all cartels in the sample failed to raise market prices.” [↑](#endnote-ref-565)
566. <http://en.wikipedia.org/wiki/Caesar%27s_Civil_War>

     “Pompey fled to [Egypt](http://en.wikipedia.org/wiki/Egypt), where he was murdered by an officer of [King Ptolemy XIII](http://en.wikipedia.org/wiki/Ptolemy_XIII_of_Egypt). In Rome in the meantime, Caesar was appointed [dictator](http://en.wikipedia.org/wiki/Roman_dictator), with Mark Antony as his [Master of the Horse](http://en.wikipedia.org/wiki/Magister_Equitum); Caesar resigned this dictatorate after eleven days and was elected to a second term as consul with [Publius Servilius Vatia Isauricus](http://en.wikipedia.org/wiki/Publius_Servilius_Vatia_Isauricus) as his colleague. He pursued the Pompeian army to [Alexandria](http://en.wikipedia.org/wiki/Alexandria), where they camped and became involved with the Alexandrine civil war between Ptolemy and his sister, wife, and co-regnant queen, the [Pharaoh](http://en.wikipedia.org/wiki/Pharaoh) [Cleopatra VII](http://en.wikipedia.org/wiki/Cleopatra_VII_of_Egypt). Perhaps as a result of Ptolemy's role in Pompey's murder, Caesar sided with Cleopatra; he is reported to have wept at the sight of Pompey's head, which was offered to him by Ptolemy's chamberlain [Pothinus](http://en.wikipedia.org/wiki/Pothinus) as a gift. In any event, Caesar [defeated the Ptolemaic forces](http://en.wikipedia.org/wiki/Battle_of_the_Nile_%2847_BC%29) and installed Cleopatra as ruler, with whom he fathered his only known biological son, [Ptolemy XV Caesar](http://en.wikipedia.org/wiki/Caesarion), better known as "Caesarion". Caesar and Cleopatra never married, due to Roman law that prohibited a marriage with a non-Roman citizen.” [↑](#endnote-ref-566)
567. <http://en.wikipedia.org/wiki/Black%E2%80%93Scholes>

     “The **Black–Scholes** model is a mathematical description of financial markets and [derivative](http://en.wikipedia.org/wiki/Derivative_%28finance%29) investment instruments. The model develops [partial differential equations](http://en.wikipedia.org/wiki/Partial_differential_equation) whose solution, the **Black–Scholes formula**, is widely used in the pricing of [European-style](http://en.wikipedia.org/wiki/Option_style) [options](http://en.wikipedia.org/wiki/Option_%28finance%29).

     The model was first articulated by [Fischer Black](http://en.wikipedia.org/wiki/Fischer_Black) and [Myron Scholes](http://en.wikipedia.org/wiki/Myron_Scholes) in their 1973 paper, "*The Pricing of Options and Corporate Liabilities*." The foundation for their research relied on work developed by scholars such as [Jack L. Treynor](http://en.wikipedia.org/wiki/Jack_L._Treynor), [Paul Samuelson](http://en.wikipedia.org/wiki/Paul_Samuelson), [A. James Boness](http://en.wikipedia.org/w/index.php?title=A._James_Boness&action=edit&redlink=1), [Sheen T. Kassouf](http://en.wikipedia.org/wiki/Sheen_T._Kassouf), and [Edward O. Thorp](http://en.wikipedia.org/wiki/Edward_O._Thorp).[[1]](http://en.wikipedia.org/wiki/Black%E2%80%93Scholes#cite_note-0)[[*citation needed*](http://en.wikipedia.org/wiki/Wikipedia:Citation_needed)] The fundamental insight of Black–Scholes is that the option is implicitly priced if the stock is traded. [Robert C. Merton](http://en.wikipedia.org/wiki/Robert_C._Merton) was the first to publish a paper expanding the mathematical understanding of the options pricing model and coined the term Black–Scholes [options pricing](http://en.wikipedia.org/wiki/Options_pricing) model.

     Merton and Scholes received the 1997 [Nobel Prize in Economics](http://en.wikipedia.org/wiki/Nobel_Prize_in_Economics) (*The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel*) for their work. Though ineligible for the prize because of his death in 1995, Black was mentioned as a contributor by the Swedish academy.[[2]](http://en.wikipedia.org/wiki/Black%E2%80%93Scholes#cite_note-1)” [↑](#endnote-ref-567)
568. <http://en.wikipedia.org/wiki/Conflict_escalation>

     “**Conflict escalation** describes the [escalation](http://en.wikipedia.org/wiki/Escalation) of a [conflict](http://en.wikipedia.org/wiki/Conflict) to a more destructive, confrontational, painful, or otherwise "less comfortable" level; in particular, it is concerned with how persons or forces can be controlled or subdued in conflict. In [systems theory](http://en.wikipedia.org/wiki/Systems_theory), this kind of behaviour is modeled as [positive feedback](http://en.wikipedia.org/wiki/Positive_feedback).

     Conflict escalation has a tactical role in military conflict, and is often formalized with explicit [rules of engagement](http://en.wikipedia.org/wiki/Rules_of_engagement). Highly successful [military tactics](http://en.wikipedia.org/wiki/Military_tactics) exploit a particular form of conflict esclation; for example, controlling an opponents reaction time allows the tactician to pursue or trap his opponent. [Napoleon](http://en.wikipedia.org/wiki/Napoleon), [Guderian](http://en.wikipedia.org/wiki/Guderian), and [Sun Tzu](http://en.wikipedia.org/wiki/Sun_Tzu) advocated this approach; however, the latter elaborated it in a more abstract form, and additionally maintained that [military strategy](http://en.wikipedia.org/wiki/Military_strategy) was about minimizing escalation, and [diplomacy](http://en.wikipedia.org/wiki/Diplomacy) about eliminating it.” [↑](#endnote-ref-568)
569. <http://en.wikipedia.org/wiki/Fiji#2006_Military_takeover>

     “Citing corruption in the government, Commodore [Josaia Voreqe (Frank) Bainimarama](http://en.wikipedia.org/wiki/Frank_Bainimarama), Commander of the Republic of Fiji Military Forces, staged a military takeover on the 5th of December 2006 against the Prime Minister that he himself had installed after the 2000 coup. There had been two military coups in 1987 and one in 2000. The commodore took over the powers of the presidency and dissolved the parliament, paving the way for the military to continue the take over. The coup was the culmination of weeks of speculation following conflict between the elected Prime Minister, Laisenia Qarase, and Commodore Bainimarama. Bainimarama had repeatedly issued demands and deadlines to the Prime Minister. At particular issue was previously pending legislation to pardon those involved in the 2000 coup. Bainimarama named [Jona Senilagakali](http://en.wikipedia.org/wiki/Jona_Senilagakali) caretaker Prime Minister. The next week Bainimarama said he would ask the Great Council of Chiefs to restore executive powers to President, Ratu Josefa Iloilo.[[15]](http://en.wikipedia.org/wiki/Fiji#cite_note-14)

     On 4 January 2007, the military announced that it was restoring executive power to President Iloilo,[[16]](http://en.wikipedia.org/wiki/Fiji" \l "cite_note-15) who made a broadcast endorsing the actions of the military.[[17]](http://en.wikipedia.org/wiki/Fiji#cite_note-16) The next day, Iloilo named Bainimarama as the interim Prime Minister,[[18]](http://en.wikipedia.org/wiki/Fiji" \l "cite_note-17) indicating that the Military was still effectively in control.” [↑](#endnote-ref-569)
570. <http://en.wikipedia.org/wiki/Antioxidant>

     “An **antioxidant** is a [molecule](http://en.wikipedia.org/wiki/Molecule) capable of inhibiting the [oxidation](http://en.wikipedia.org/wiki/Redox) of other molecules. Oxidation is a [chemical reaction](http://en.wikipedia.org/wiki/Chemical_reaction) that transfers [electrons](http://en.wikipedia.org/wiki/Electron) from a substance to an [oxidizing agent](http://en.wikipedia.org/wiki/Oxidizing_agent). Oxidation reactions can produce [free radicals](http://en.wikipedia.org/wiki/Free_radical). In turn, these radicals can start [chain reactions](http://en.wikipedia.org/wiki/Chain_reaction) that damage [cells](http://en.wikipedia.org/wiki/Cell_%28biology%29). Antioxidants terminate these chain reactions by removing free radical intermediates, and inhibit other oxidation reactions. They do this by being oxidized themselves, so antioxidants are often [reducing agents](http://en.wikipedia.org/wiki/Reducing_agent) such as [thiols](http://en.wikipedia.org/wiki/Thiol), [ascorbic acid](http://en.wikipedia.org/wiki/Ascorbic_acid) or [polyphenols](http://en.wikipedia.org/wiki/Polyphenol).[[1]](http://en.wikipedia.org/wiki/Antioxidant#cite_note-Sies-0)” [↑](#endnote-ref-570)
571. <http://en.wikipedia.org/wiki/Paris_Peace_Accords>

     “The **Paris Peace Accords** of 1973, intended to establish peace in [Vietnam](http://en.wikipedia.org/wiki/Vietnam) and an end to the [Vietnam Conflict](http://en.wikipedia.org/wiki/Vietnam_Conflict), ended direct U.S. military involvement and temporarily stopped the fighting between north and south. The governments of the [Democratic Republic of Vietnam](http://en.wikipedia.org/wiki/Democratic_Republic_of_Vietnam) (North Vietnam), the [Republic of Vietnam](http://en.wikipedia.org/wiki/Republic_of_Vietnam) (South Vietnam), and the [United States](http://en.wikipedia.org/wiki/United_States), as well as the [Provisional Revolutionary Government](http://en.wikipedia.org/wiki/Provisional_Revolutionary_Government_of_the_Republic_of_South_Vietnam) (PRG) that represented indigenous South Vietnamese revolutionaries signed the [Agreement on Ending the War and Restoring Peace in Vietnam](http://en.wikipedia.org/wiki/Agreement_on_Ending_the_War_and_Restoring_Peace_in_Vietnam) on January 27, 1973. The negotiations that led to the accord had begun in 1968 and had been subject to various lengthy delays. As a result of the accord, International Control Commission (ICC) was replaced by [International Commission of Control and Supervision](http://en.wikipedia.org/wiki/International_Commission_of_Control_and_Supervision) (ICCS) to carry out the agreement. The main negotiators of the agreement were [United States National Security Advisor](http://en.wikipedia.org/wiki/United_States_National_Security_Advisor) Dr. [Henry Kissinger](http://en.wikipedia.org/wiki/Henry_Kissinger) and Vietnamese [politburo](http://en.wikipedia.org/wiki/Politburo) member [Lê Ðức Thọ](http://en.wikipedia.org/wiki/L%C3%AA_%C3%90%E1%BB%A9c_Th%E1%BB%8D); the two men were awarded the 1973 [Nobel Peace Prize](http://en.wikipedia.org/wiki/Nobel_Peace_Prize) for their efforts, although Lê Ðức Thọ refused to accept it.” [↑](#endnote-ref-571)
572. <http://en.wikipedia.org/wiki/Usta%C5%A1e>

     “The **Ustaša - Croatian Revolutionary Movement** ([Croatian](http://en.wikipedia.org/wiki/Croatian_language): *Ustaša - Hrvatski Revolucionarni Pokret*, members known collectively as **Ustaše**, but sometimes anglicised as **Ustashe**, **Ustashas** or **Ustashi**) was a [Croatian](http://en.wikipedia.org/wiki/Croats) fascist[[1]](http://en.wikipedia.org/wiki/Usta%C5%A1e#cite_note-0) anti-[Yugoslav](http://en.wikipedia.org/wiki/SFR_Yugoslavia) separatist movement. The ideology of the movement was a blend of [fascism](http://en.wikipedia.org/wiki/Fascism), [Nazism](http://en.wikipedia.org/wiki/Nazism),[[2]](http://en.wikipedia.org/wiki/Usta%C5%A1e#cite_note-1) Croatian [ultranationalism](http://en.wikipedia.org/wiki/Ultranationalism), and [Roman Catholic](http://en.wikipedia.org/wiki/Roman_Catholic) [Clericalist](http://en.wikipedia.org/wiki/Clerical_fascism) [Fundamentalism](http://en.wikipedia.org/wiki/Fundamentalist_Christianity).[[3]](http://en.wikipedia.org/wiki/Usta%C5%A1e#cite_note-2) The Ustaše supported the creation of a [Greater Croatia](http://en.wikipedia.org/wiki/Greater_Croatia) that would span to the River [Drina](http://en.wikipedia.org/wiki/Drina) and to the border of [Belgrade](http://en.wikipedia.org/wiki/Belgrade).[[4]](http://en.wikipedia.org/wiki/Usta%C5%A1e#cite_note-3) The movement emphasized the need for a racially "pure" Croatia and promoted persecution and [genocide](http://en.wikipedia.org/wiki/Genocide) against [Serbs](http://en.wikipedia.org/wiki/Serbs), [Jews](http://en.wikipedia.org/wiki/Jews) and [Roma people](http://en.wikipedia.org/wiki/Roma_people). [[5]](http://en.wikipedia.org/wiki/Usta%C5%A1e#cite_note-4)

     The movement functioned as a terrorist organization before [World War II](http://en.wikipedia.org/wiki/World_War_II),[[6]](http://en.wikipedia.org/wiki/Usta%C5%A1e#cite_note-5) but in April 1941, they were appointed to rule a part of [Axis](http://en.wikipedia.org/wiki/Axis_powers_of_World_War_II)-occupied [Yugoslavia](http://en.wikipedia.org/wiki/SFR_Yugoslavia) as the [Independent State of Croatia](http://en.wikipedia.org/wiki/Independent_State_of_Croatia), a [puppet state](http://en.wikipedia.org/wiki/Puppet_state)[[7]](http://en.wikipedia.org/wiki/Usta%C5%A1e#cite_note-6)[[8]](http://en.wikipedia.org/wiki/Usta%C5%A1e#cite_note-7)[[9]](http://en.wikipedia.org/wiki/Usta%C5%A1e#cite_note-8) of [Nazi Germany](http://en.wikipedia.org/wiki/Nazi_Germany).[[10]](http://en.wikipedia.org/wiki/Usta%C5%A1e#cite_note-CRIMES-9)[[11]](http://en.wikipedia.org/wiki/Usta%C5%A1e#cite_note-STATEHOOD-10)[[12]](http://en.wikipedia.org/wiki/Usta%C5%A1e#cite_note-11) The Ustaše were chiefly responsible for the WWII [holocaust](http://en.wikipedia.org/wiki/Holocaust) in occupied Yugoslavia. An unknown number of people, hundreds of thousands by most estimates, were killed by the [collaborationist](http://en.wikipedia.org/wiki/Collaborationism) Ustaše government's racial policies, which condemned all [Serbs](http://en.wikipedia.org/wiki/Serbs), [Jews](http://en.wikipedia.org/wiki/Jews), and [Roma](http://en.wikipedia.org/wiki/Romani_people) to death in the [concentration camps](http://en.wikipedia.org/wiki/Concentration_camp), alongside Croat resistance members and political opponents.” [↑](#endnote-ref-572)
573. <http://en.wikipedia.org/wiki/Saladin>

     “Saladin was a [Kurdish](http://en.wikipedia.org/wiki/Kurdish_people)[[2]](http://en.wikipedia.org/wiki/Saladin#cite_note-Encyclopedia_of_World_Biography_on_Saladin-1)[[3]](http://en.wikipedia.org/wiki/Saladin#cite_note-Minorsky-2) [Muslim](http://en.wikipedia.org/wiki/Muslim), who became the first [Ayyubid](http://en.wikipedia.org/wiki/Ayyubid_dynasty) Sultan of [Egypt](http://en.wikipedia.org/wiki/Egypt) and [Syria](http://en.wikipedia.org/wiki/Greater_Syria). He led Islamic opposition to the [Franks](http://en.wikipedia.org/wiki/Franks) and other European [Crusaders](http://en.wikipedia.org/wiki/Crusaders) in the [Levant](http://en.wikipedia.org/wiki/Levant). At the height of his power, he ruled over Egypt, Syria, [Mesopotamia](http://en.wikipedia.org/wiki/Mesopotamia), [Hejaz](http://en.wikipedia.org/wiki/Hejaz), and [Yemen](http://en.wikipedia.org/wiki/Yemen). He led the Muslims against the Crusaders and eventually recaptured [Palestine](http://en.wikipedia.org/wiki/Palestine) from the Crusader [Kingdom of Jerusalem](http://en.wikipedia.org/wiki/Kingdom_of_Jerusalem) after his victory in the [Battle of Hattin](http://en.wikipedia.org/wiki/Battle_of_Hattin). As such, he is a notable figure in [Kurdish](http://en.wikipedia.org/wiki/Kurdish_people), [Arab](http://en.wikipedia.org/wiki/Arab), and [Muslim culture](http://en.wikipedia.org/wiki/Islamic_Golden_Age). Saladin was a strict adherent of [Sunni Islam](http://en.wikipedia.org/wiki/Sunni_Islam) and a disciple of the [Qadiri](http://en.wikipedia.org/wiki/Qadiri) [Sufi](http://en.wikipedia.org/wiki/Sufi) order.[[4]](http://en.wikipedia.org/wiki/Saladin#cite_note-3) His [chivalrous](http://en.wikipedia.org/wiki/Chivalry) behavior was noted by Christian chroniclers, especially in the accounts of the siege of [Kerak in Moab](http://en.wikipedia.org/wiki/Kerak_in_Moab#Castle), and despite being the [nemesis](http://en.wikipedia.org/wiki/Archenemy) of the Crusaders he won the respect of many of them, including [Richard the Lionheart](http://en.wikipedia.org/wiki/Richard_the_Lionheart); rather than becoming a hated figure in Europe, he became a celebrated example of the principles of chivalry.” [↑](#endnote-ref-573)
574. <http://en.wikipedia.org/wiki/Barbary_corsairs>

     “The **Barbary** [**Corsairs**](http://en.wikipedia.org/wiki/Corsair), sometimes called **Ottoman Corsairs** or **Barbary Pirates**, were [Muslim](http://en.wikipedia.org/wiki/Muslim) [pirates](http://en.wikipedia.org/wiki/Pirate) and [privateers](http://en.wikipedia.org/wiki/Privateer) who operated from [North Africa](http://en.wikipedia.org/wiki/North_Africa), based primarily in the ports of [Tunis](http://en.wikipedia.org/wiki/Tunis), [Tripoli](http://en.wikipedia.org/wiki/Tripoli) and [Algiers](http://en.wikipedia.org/wiki/Algiers). This area was known in [Europe](http://en.wikipedia.org/wiki/Europe) as the [Barbary Coast](http://en.wikipedia.org/wiki/Barbary_Coast), a term derived from the name of its [Berber](http://en.wikipedia.org/wiki/Berber_people) inhabitants. Their predation extended throughout the [Mediterranean](http://en.wikipedia.org/wiki/Mediterranean), south along [West Africa](http://en.wikipedia.org/wiki/West_Africa)'s [Atlantic](http://en.wikipedia.org/wiki/Atlantic) seaboard and even [South America](http://en.wikipedia.org/wiki/South_America),[[1]](http://en.wikipedia.org/wiki/Barbary_corsairs#cite_note-0) and into the [North Atlantic](http://en.wikipedia.org/wiki/Atlantic_Ocean) as far north as [Iceland](http://en.wikipedia.org/wiki/Iceland), but they primarily operated in the western Mediterranean. In addition to seizing ships, they engaged in [*Razzias*](http://en.wikipedia.org/wiki/Razzia), raids on European coastal towns and villages, mainly in Italy, Spain, and Portugal, but also France, Britain, the [Netherlands](http://en.wikipedia.org/wiki/Netherlands), [Ireland](http://en.wikipedia.org/wiki/Ireland), and as far away as [Iceland](http://en.wikipedia.org/wiki/Iceland).. The main purpose of their attacks was to capture [Christian](http://en.wikipedia.org/wiki/Christian) [slaves](http://en.wikipedia.org/wiki/Slavery) for the [Islamic market in North Africa and the Middle East](http://en.wikipedia.org/wiki/Islam_and_slavery#Oriental_slave_trade).[[2]](http://en.wikipedia.org/wiki/Barbary_corsairs#cite_note-bbc.co.uk-1)

     While such raids had occurred since soon after the Muslim conquest of the region, the terms *Barbary Pirates* and *Barbary Corsairs* are normally applied to the period from the 16th century onwards, when the frequency and range of the slavers' attacks increased and Algiers, Tunis and Tripoli came under the sovereignty of the [Ottoman Empire](http://en.wikipedia.org/wiki/Ottoman_Empire), either as directly administered provinces or as autonomous dependencies known as the [Barbary States](http://en.wikipedia.org/wiki/Barbary_States). Similar raids were undertaken from [Salé](http://en.wikipedia.org/wiki/Sal%C3%A9) and other ports in [Morocco](http://en.wikipedia.org/wiki/Morocco), but strictly speaking Morocco, which never came under Ottoman dominance, was not one of the Barbary States.” [↑](#endnote-ref-574)
575. <http://www.amazon.com/Great-Warming-Climate-Change-Civilizations/dp/1596913924> [↑](#endnote-ref-575)
576. <http://en.wikipedia.org/wiki/Horde>

     “ a clan or army of [steppe nomads](http://en.wikipedia.org/wiki/Nomadic_pastoralism) (also known as an orde)

      the [White Horde](http://en.wikipedia.org/wiki/White_Horde), formed 1226

      the [Blue Horde](http://en.wikipedia.org/wiki/Blue_Horde), formed 1227” [↑](#endnote-ref-576)
577. <http://en.wikipedia.org/wiki/Antony%27s_Parthian_War>

     “With the aid of Mark Antony, Triumvir and lover of Egyptian [Ptolemaic](http://en.wikipedia.org/wiki/Ptolemaic_dynasty) Queen [Cleopatra VII](http://en.wikipedia.org/wiki/Cleopatra_VII), the son-in-law of Hyrcanus, [Herod](http://en.wikipedia.org/wiki/Herod_the_Great), returned to Judea and recaptured [Jerusalem](http://en.wikipedia.org/wiki/Jerusalem) in 37 BC. Antony then went on to attack the Parthian Empire itself, marching into [Atropatene](http://en.wikipedia.org/wiki/Atropatene) (present-day [Iranian Azerbaijan](http://en.wikipedia.org/wiki/Iranian_Azerbaijan)) with some 100,000 [legionaries](http://en.wikipedia.org/wiki/Roman_legion), aided by the Roman client kings in [Armenia](http://en.wikipedia.org/wiki/Kingdom_of_Armenia), [Galatia](http://en.wikipedia.org/wiki/Galatia), [Cappadocia](http://en.wikipedia.org/wiki/Cappadocia) and sovereign [Pontus](http://en.wikipedia.org/wiki/Pontus). The campaign proved a disaster however, after a Roman slipup at [Phraaspa](http://en.wikipedia.org/w/index.php?title=Phraaspa&action=edit&redlink=1), capital of Atropatene, and thousands of Romans and auxiliaries died during the retreat due to the cold winter.” [↑](#endnote-ref-577)
578. <http://en.wikipedia.org/wiki/Timur>

     “**Timur** (from the [Perso-Arabic](http://en.wikipedia.org/wiki/Persian_alphabet) form تیمور *Tīmūr*, ultimately from [Chagatai](http://en.wikipedia.org/wiki/Chagatai_language) ([Middle Turkic](http://en.wikipedia.org/wiki/Middle_Turkic)) *Temür* "[iron](http://en.wikipedia.org/wiki/Iron)"; 8 April 1336 – 18 February 1405), normally known as **Tamerlane** (from *Tīmūr-e Lang*) in English, was a 14th-century conqueror of [Western](http://en.wikipedia.org/wiki/West_Asia), [South](http://en.wikipedia.org/wiki/South_Asia) and [Central Asia](http://en.wikipedia.org/wiki/Central_Asia), founder of the [Timurid Empire and Timurid dynasty](http://en.wikipedia.org/wiki/Timurid_dynasty) (1370–1405) in Central Asia, and great great grandfather of [Babur](http://en.wikipedia.org/wiki/Babur), the founder of the Mughal Dynasty, which survived until 1857 as the [Mughal Empire](http://en.wikipedia.org/wiki/Mughal_Empire) in India.[[1]](http://en.wikipedia.org/wiki/Timur#cite_note-0)[[2]](http://en.wikipedia.org/wiki/Timur#cite_note-1)[[3]](http://en.wikipedia.org/wiki/Timur#cite_note-2)[[4]](http://en.wikipedia.org/wiki/Timur#cite_note-EI-3)[[5]](http://en.wikipedia.org/wiki/Timur#cite_note-4)

     Born into the [Turco-Mongol](http://en.wikipedia.org/wiki/Turco-Mongol)[[6]](http://en.wikipedia.org/wiki/Timur#cite_note-Manz-5)[[7]](http://en.wikipedia.org/wiki/Timur#cite_note-UNESCO-6) [Barlas tribe](http://en.wikipedia.org/wiki/Barlas) who ruled in Central Asia,[[8]](http://en.wikipedia.org/wiki/Timur#cite_note-Secret_History_of_Mongols-7)[[9]](http://en.wikipedia.org/wiki/Timur#cite_note-Chaliand-8) Timur was in his lifetime a controversial figure, and remains so today. He sought to restore the Mongol Empire,[[10]](http://en.wikipedia.org/wiki/Timur" \l "cite_note-9)[[11]](http://en.wikipedia.org/wiki/Timur#cite_note-10) yet his heaviest blow was against the Islamized Tatar [Golden Horde](http://en.wikipedia.org/wiki/Golden_Horde). He was more at home in an urban environment than on the [steppe](http://en.wikipedia.org/wiki/Steppe). He styled himself a [ghazi](http://en.wikipedia.org/wiki/Ghazw) yet some Muslim states, e.g. the [Ottoman Empire](http://en.wikipedia.org/wiki/Ottoman_Empire), were severely affected by his wars. A great patron of the arts, his campaigns also caused vast destruction. Timur told the [qadis](http://en.wikipedia.org/wiki/Qadi) of [Aleppo](http://en.wikipedia.org/wiki/Aleppo), during the sack of that newly conquered city,"I am not a man of blood; and God is my witness that in all my wars I have never been the aggressor, and that my enemies have always been the authors of their own calamity."[[12]](http://en.wikipedia.org/wiki/Timur#cite_note-11) [↑](#endnote-ref-578)
579. <http://en.wikipedia.org/wiki/French_invasion_of_Russia>

     “The invasion of Russia clearly and dramatically demonstrates the importance of [logistics](http://en.wikipedia.org/wiki/Logistics) in military planning, especially when the land will not provide for the number of troops deployed in an area of operations far exceeding the experience of the invading army.[[10]](http://en.wikipedia.org/wiki/French_invasion_of_Russia#cite_note-9) Napoleon and the Grande Armée had developed a proclivity for living off the land that had served it well in the densely populated and agriculturally rich central Europe with its dense network of roads.[[11]](http://en.wikipedia.org/wiki/French_invasion_of_Russia#cite_note-riehnp139-10) Rapid forced marches had dazed and confused old order Austrian and Prussian armies and much had been made of the use of foraging.[[11]](http://en.wikipedia.org/wiki/French_invasion_of_Russia#cite_note-riehnp139-10) In Russia many of the Grande Armée's methods of operation worked against it. Forced marches often made troops do without supplies as the supply wagons struggled to keep up.[[11]](http://en.wikipedia.org/wiki/French_invasion_of_Russia#cite_note-riehnp139-10) Lack of food and water in thinly populated, much less agriculturally dense regions led to the death of troops and their mounts by exposing them to waterborne diseases from drinking from mud puddles and eating rotten food and forage. The front of the army would receive whatever could be provided while the formations behind starved.[[12]](http://en.wikipedia.org/wiki/French_invasion_of_Russia#cite_note-11)

     Napoleon had in fact made extensive preparations providing for the provisioning of his army. Seventeen train battalions of 6000 vehicles were to provide a 40-day supply for the Grande Armée and its operations, and a large system of magazines was established in towns and cities in Poland and East Prussia.[[13]](http://en.wikipedia.org/wiki/French_invasion_of_Russia#cite_note-12) At the start of the campaign, no march on Moscow was envisioned and so the preparations would have sufficed. However, the Russian Armies could not stand singularly against the main battle group of 285,000 men and would continue to retreat and attempt to join one another. This demanded an advance by the Grand Armée over a network of dirt roads that would dissolve into bottomless mires, where deep ruts in the mud would freeze solid, killing already exhausted horses and breaking wagons.[[14]](http://en.wikipedia.org/wiki/French_invasion_of_Russia#cite_note-13) As the graph of [Charles Joseph Minard](http://en.wikipedia.org/wiki/Charles_Joseph_Minard), given below, shows, the majority of the losses to the Grand Armée were incurred during the march to Moscow during the summer and autumn. Starvation, desertion, [typhus](http://en.wikipedia.org/wiki/Typhus), and suicide would rob the French Army of more men than all the battles of the Russian invasion combined.[[15]](http://en.wikipedia.org/wiki/French_invasion_of_Russia#cite_note-Montana-14)” [↑](#endnote-ref-579)
580. <http://en.wikipedia.org/wiki/Battle_of_the_Teutoburg_Forest>

     “The **Clades Variana** (Varus' defeat, "Varian disaster"), also **Battle of the** [**Teutoburg Forest**](http://en.wikipedia.org/wiki/Teutoburg_Forest) ([German](http://en.wikipedia.org/wiki/German_language): *Schlacht im Teutoburger Wald*, *Hermannsschlacht* or *Varusschlacht*) took place in 9 AD, when an alliance of [Germanic tribes](http://en.wikipedia.org/wiki/Germanic_tribes) led by [Arminius](http://en.wikipedia.org/wiki/Arminius) ([German](http://en.wikipedia.org/wiki/German_language): *Armin*) (also known as "Hermann"), the son of Segimerus ([German](http://en.wikipedia.org/wiki/German_language): *Segimer* or *Sigimer*) of the [Cherusci](http://en.wikipedia.org/wiki/Cherusci), ambushed and destroyed three [Roman](http://en.wikipedia.org/wiki/Roman_Empire) [legions](http://en.wikipedia.org/wiki/Roman_legion), along with their auxiliaries, led by [Publius Quinctilius Varus](http://en.wikipedia.org/wiki/Publius_Quinctilius_Varus).” [↑](#endnote-ref-580)
581. <http://en.wikipedia.org/wiki/Normal_distribution>

     “In [probability theory](http://en.wikipedia.org/wiki/Probability_theory) and [statistics](http://en.wikipedia.org/wiki/Statistics), the **normal distribution**, or **Gaussian distribution**, is an [absolutely continuous probability distribution](http://en.wikipedia.org/wiki/Probability_distribution#Continuous_probability_distribution) whose [cumulants](http://en.wikipedia.org/wiki/Cumulant) of all orders above two are zero. The graph of the associated [probability density function](http://en.wikipedia.org/wiki/Probability_density_function) is  “bell”-shaped, with peak at the mean, and is known as the [*Gaussian function*](http://en.wikipedia.org/wiki/Gaussian_function) or *bell curve.”* [↑](#endnote-ref-581)
582. <http://en.wikipedia.org/wiki/Poisson_distribution>

     “In [probability theory](http://en.wikipedia.org/wiki/Probability_theory) and [statistics](http://en.wikipedia.org/wiki/Statistics), the **Poisson distribution** (pronounced [[pwasɔ̃]](http://en.wikipedia.org/wiki/Wikipedia:IPA_for_French)) (or **Poisson law of small numbers**[[1]](http://en.wikipedia.org/wiki/Poisson_distribution#cite_note-0)) is a [discrete probability distribution](http://en.wikipedia.org/wiki/Discrete_probability_distribution) that expresses the probability of a number of events occurring in a fixed period of time if these events occur with a known average rate and [independently](http://en.wikipedia.org/wiki/Statistical_independence) of the time since the last event. (The Poisson distribution can also be used for the number of events in other specified intervals such as distance, area or volume.)

     The distribution was first introduced by [Siméon-Denis Poisson](http://en.wikipedia.org/wiki/Simeon_Poisson) (1781–1840) and published, together with his probability theory, in 1838 in his work *Recherches sur la probabilité des jugements en matière criminelle et en matière civile* (“Research on the Probability of Judgments in Criminal and Civil Matters”). The work focused on certain [random variables](http://en.wikipedia.org/wiki/Random_variable) *N* that count, among other things, the number of discrete occurrences (sometimes called “arrivals”) that take place during a [time](http://en.wikipedia.org/wiki/Time)-interval of given length.” [↑](#endnote-ref-582)
583. <http://en.wikipedia.org/wiki/Opinion_poll>

     “An **opinion poll** is a [survey](http://en.wikipedia.org/wiki/Statistical_survey) of [public opinion](http://en.wikipedia.org/wiki/Public_opinion) from a particular [sample](http://en.wikipedia.org/wiki/Sampling_%28statistics%29). Opinion polls are usually designed to represent the opinions of a population by conducting a series of questions and then extrapolating generalities in ratio or within [confidence intervals](http://en.wikipedia.org/wiki/Confidence_intervals).” [↑](#endnote-ref-583)
584. <http://en.wikipedia.org/wiki/Margaret_Thatcher>

     “In her foreword to the 1979 Conservative manifesto, Thatcher had written of "a feeling of helplessness, that a once great nation has somehow fallen behind."[[4]](http://en.wikipedia.org/wiki/Margaret_Thatcher#cite_note-3) She entered [10 Downing Street](http://en.wikipedia.org/wiki/10_Downing_Street) determined to reverse what she perceived as a precipitate national decline. Her political philosophy and economic policies emphasised deregulation, particularly of the financial sector, flexible labour markets, and the selling off and closing down of [state owned companies](http://en.wikipedia.org/wiki/Government-owned_corporation) and withdrawing subsidy to others. Amid a recession and high unemployment, Thatcher's popularity declined, though economic recovery and the 1982 [Falklands War](http://en.wikipedia.org/wiki/Falklands_War) brought a resurgence of support and she was re-elected in 1983. She took a hard line against trade unions, survived the [Brighton hotel bombing](http://en.wikipedia.org/wiki/Brighton_hotel_bombing) assassination attempt and opposed the Soviet Union (her tough-talking rhetoric gained her the nickname the "[Iron Lady](http://en.wikipedia.org/wiki/Iron_Lady)"); she was re-elected for an unprecedented third term in 1987.” [↑](#endnote-ref-584)
585. <http://en.wikipedia.org/wiki/Glengarry_Glen_Ross_%28film%29>

     “The film depicts two days in the lives of four real estate salesmen, who are supplied with names and phone numbers of leads (potential clients) and regularly use underhanded and dishonest tactics to make sales. Many of the leads rationed out by the office manager are impoverished individuals lacking either the money or the desire to actually invest in land.

     Blake ([Alec Baldwin](http://en.wikipedia.org/wiki/Alec_Baldwin)) is sent by Mitch and Murray (the faceless owners of the real estate office in which the main characters work) to motivate the salesmen. Blake unleashes a torrent of verbal abuse on the men and announces that only the top two sellers will be allowed access to the more promising Glengarry leads and the rest of them will be fired.

     Shelley Levene ([Jack Lemmon](http://en.wikipedia.org/wiki/Jack_Lemmon)), a salesman in a long running slump with a sick daughter, knows that he will lose his job soon if he cannot generate sales. He tries to convince office manager John Williamson ([Kevin Spacey](http://en.wikipedia.org/wiki/Kevin_Spacey)) to give him some of the Glengarry leads, but Williamson refuses. Levene tries first to charm Williamson, then to threaten him, and finally to bribe him. Williamson is willing to sell some of the prime leads, but demands cash in advance. Levene cannot come up with the cash and leaves without any good leads.” [↑](#endnote-ref-585)
586. <http://en.wikipedia.org/wiki/Liar%27s_Poker>

     “Lewis attributed their behavior to the fact that the trading pit required neither finesse nor advanced financial knowledge, but rather, the ability and desire to exploit others' weaknesses, intimidate other people into listening to you, and generally the ability to spend hours a day screaming orders under high pressure situations. He referred to their worldview as "The Law of the Jungle."

     He also noted that, although most arrivals on Wall Street studied [economics](http://en.wikipedia.org/wiki/Economics), this knowledge was never used—in fact, any academic knowledge was frowned on by traders.

     Lewis also attributed the [Saving and Loans Scandal](http://en.wikipedia.org/wiki/Saving_and_Loans_Scandal) to the inability of small-time, provincial bank managers to compete with Wall Street. He noted that people on Wall Street are experts at fleecing and taking advantage of ignorant people, which the Savings and Loan banks provided in abundance.” [↑](#endnote-ref-586)
587. <http://en.wikipedia.org/wiki/Harry_Markopolos>

     “"Government has coddled, accepted, and ignored [White-collar crime](http://en.wikipedia.org/wiki/White-collar_crime) for too long," he testified. "It is time the nation woke up and realized that it's not the armed robbers or drug dealers who cause the most economic harm, it's the white collar criminals living in the most expensive homes who have the most impressive resumes who harm us the most. They steal our pensions, bankrupt our companies, and destroy thousands of jobs, ruining countless lives."[[28]](http://en.wikipedia.org/wiki/Harry_Markopolos#cite_note-Examiner-27) He testified to Rep. [Gary Ackerman](http://en.wikipedia.org/wiki/Gary_Ackerman)-D-NY that he has never been compensated for his efforts. "I did it for our ([American](http://en.wikipedia.org/wiki/United_States)) flag, for patriotism."[[29]](http://en.wikipedia.org/wiki/Harry_Markopolos#cite_note-CSpan-28) Markopolos presented recommendations to improve the SEC's operations, which included mandatory department standards: Good ethics, full transparency, [full disclosure](http://en.wikipedia.org/wiki/Full_disclosure), and [fair dealing](http://en.wikipedia.org/wiki/Fair_dealing) for all. [[30]](http://en.wikipedia.org/wiki/Harry_Markopolos#cite_note-29) The SEC must establish a unit to accept whistleblower tips, and move its activity closer to financial centers away from [Washington, D.C.](http://en.wikipedia.org/wiki/Washington,_D.C.)[[12]](http://en.wikipedia.org/wiki/Harry_Markopolos#cite_note-WSJ1-11)” [↑](#endnote-ref-587)
588. <http://en.wikipedia.org/wiki/Ravi_Batra>

     “In 1984, he penned what was to become his first bestseller, first under the title *Regular Cycles of Money, Inflation, Regulation and Depressions*. A central theme of this book was that the mal-distribution of wealth, which Batra found to be the cause of past episodes of financial speculative manias that were followed by a crash and depression. [Lester Thurow](http://en.wikipedia.org/wiki/Lester_Thurow) was so impressed that he wrote a preface stating the ideas were "novel and brilliant". Renamed as *The Great Depression of 1990*, this book rose to first place on [*The New York Times* Best Seller list for Non-Fiction](http://en.wikipedia.org/wiki/List_of_New_York_Times_Non-Fiction_Best_Sellers) in the Autumn months of 1987, just as the Dow Jones share price index was about to suffer its biggest daily drop in almost sixty years. In 1988, he followed his success with another book on how to survive the predicted calamity.” [↑](#endnote-ref-588)
589. <http://en.wikipedia.org/wiki/Methylphenidate>

     “The primary source of methylphenidate for abuse is diversion from legitimate prescriptions rather than illicit synthesis. Those who use it to stay awake do so by taking it orally, while intranasal and intravenous are the preferred means for inducing euphoria.[[101]](http://en.wikipedia.org/wiki/Methylphenidate#cite_note-pmid11981294-100) IV users tend to be adults whose use may cause panlobular [pulmonary emphysema](http://en.wikipedia.org/wiki/Pulmonary_emphysema).[[100]](http://en.wikipedia.org/wiki/Methylphenidate#cite_note-pmid8109495-99) Methylphenidate has a high potential for [drug dependence](http://en.wikipedia.org/wiki/Drug_dependence) and addictive abuse due to its similar pharmacologically to [cocaine](http://en.wikipedia.org/wiki/Cocaine) and [amphetamines](http://en.wikipedia.org/wiki/Amphetamines).[[37]](http://en.wikipedia.org/wiki/Methylphenidate#cite_note-pmid11056411-36)

     Abuse of prescription stimulants is higher amongst college students than non-college attending young adults. College students use methylphenidate either as a study aid or to stay awake longer. Increased alcohol consumption due to stimulant misuse has additional negative effects on health.[[127]](http://en.wikipedia.org/wiki/Methylphenidate#cite_note-126) Methylphenidate's pharmacological effect on the central nervous system is almost identical to that of cocaine. Studies have shown that the two drugs are nearly indistinguishable when administered intravenously to cocaine addicts.” [↑](#endnote-ref-589)
590. <http://www.newsweek.com/2010/01/28/the-depressing-news-about-antidepressants.html> [↑](#endnote-ref-590)
591. [↑](#endnote-ref-591)
592. <http://en.wikipedia.org/wiki/Mutual_assured_destruction>

     “**Mutual assured destruction** (**M.A.D.**) is a [doctrine](http://en.wikipedia.org/wiki/Doctrine) of military [strategy](http://en.wikipedia.org/wiki/Strategy) and [national security policy](http://en.wikipedia.org/wiki/National_security) in which a full-scale use of [nuclear weapons](http://en.wikipedia.org/wiki/Nuclear_weapons) by two opposing sides would effectively result in the destruction of both the attacker and the defender.[[1]](http://en.wikipedia.org/wiki/Mutual_assured_destruction#cite_note-0) It is based on the theory of [deterrence](http://en.wikipedia.org/wiki/Deterrence_theory) according to which the deployment of strong weapons is essential to threaten the enemy in order to prevent the use of the very same weapons. The strategy is effectively a form of [Nash equilibrium](http://en.wikipedia.org/wiki/Nash_equilibrium), in which both sides are attempting to avoid their worst possible outcome, in this case, nuclear annihilation.” [↑](#endnote-ref-592)
593. <http://en.wikipedia.org/wiki/Quantitative_easing>

     “The term **quantitative easing** (QE) describes a [monetary policy](http://en.wikipedia.org/wiki/Monetary_policy) used by central banks to increase the [supply of money](http://en.wikipedia.org/wiki/Supply_of_money) by increasing the excess reserves of the banking system. A central bank does this by first crediting its own account with money it has created [*ex nihilo*](http://en.wikipedia.org/wiki/Ex_nihilo) ("out of nothing").[[1]](http://en.wikipedia.org/wiki/Quantitative_easing#cite_note-bbcnews-0) It then purchases financial assets, including [government bonds](http://en.wikipedia.org/wiki/Government_bond), [mortgage-backed securities](http://en.wikipedia.org/wiki/Mortgage-backed_securities) and [corporate bonds](http://en.wikipedia.org/wiki/Corporate_bond), from [banks](http://en.wikipedia.org/wiki/Bank) and other [financial institutions](http://en.wikipedia.org/wiki/Financial_institution) in a process referred to as [open market operations](http://en.wikipedia.org/wiki/Open_market_operations). The purchases, by way of account deposits, give banks the excess reserves required for them to create new money, and thus a hopeful stimulation of the economy, by the process of [deposit multiplication](http://en.wikipedia.org/wiki/Fractional-reserve_banking#Money_creation) from increased lending in the fractional reserve banking system. Risks include the policy being more effective than intended, spurring [hyperinflation](http://en.wikipedia.org/wiki/Hyperinflation), or the risk of not being effective enough, if banks opt simply to pocket the additional cash in order to increase their capital reserves in a climate of increasing defaults in their present loan portfolio.[[1]](http://en.wikipedia.org/wiki/Quantitative_easing#cite_note-bbcnews-0)” [↑](#endnote-ref-593)