A brief explanation of the society development

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Introduction

Many people who watch movies or read literary works (hereafter works; I will use the latter term in my manuscript to refer not only to the work in its traditional meaning but also to a myth which was adapted by artists, a screenplay, etc.) may notice a constant repetition of some scenes and episodes. If you type in the browser search bar the phrase "Clichés in movies", it become clear that this phenomenon is familiar to the fans of the action genre. Literature scholars have defined literary cliché as: an idea, event, or detail that is used so often in literature or film that it becomes predictable and even boring (MasterClass, 2021). Now, I am very surprised because under these circumstances, the amount of clichés in the works has not been properly evaluated and researched as it is possible. Someone may dispute this conclusion of mine by mentioning Jack Campbell's overly hyped "A Hero with a Thousand Faces". In that case, I would reply that such a work cannot be accepted as a scholarly study of the mentioned problem (I would rather call it a hymn glorifying psychoanalysis), since it even does not contain a structured set of clichés that we usually find in writings. If a reader of this essay wants to get an idea about the last concept, he should use the well-known "Morphology of the Folktale" (Propp, 1968). For those who do not know what I am talking about, Vladimir Propp, in his research in the first half of the 20th century, found that all folktales within a certain class of fairy tales have a unique structure of character actions ("Functions of dramatis personae"). Today, scholars would say that all these folktales obviously derive from some archetype; but for us it is important that Propp is the first to use the differential calculus (i.e. the notes on the elementary actions of the characters in a text of the work in this case), which belongs to mathematics, for the study of literature, although Propp himself did not know it. This is the result: Our study of the set of clichés in the works can reach a fundamentally new level at the moment, because a scientific theory (according to Steven Hawking, it is a construction in our imagination that is supposed to explain a set of phenomena with a minimal number of entered parameters and provide us with predictions that can be tested with experiments or observations) can only gain by using mathematics. Continuing to talk about scientific works that can be useful for the exploration of clichés, I would also like to mention the article "A Novel Method for Detecting Plot" (Jockers, 2014): with it we have a macro-level exploration of plot in works (and the fact of the existence of six major plot archetypes for a set of tens of thousands (!) of novels is currently known to us).

The initial methods of the set of clichés research

A single action of character

When reading our favorite books or watching movies and documentaries, the single character actions (further actions), which have at least three repetitions in independent sources (such as the works created by competing authors almost simultaneously, the works of authors belonging to the Free World, and the works of dissidents from countries behind the Iron Curtain, and so on.). Independent sources are needed in this case to minimize the influence of the Human Factor (thus, "Avatar" (Cameron, 2009) and "Skyline" (Strause & Strause, 2010), the movies, have at least one essentially identical scene: it is set in the battle episodes)). And what the very first scene we should know? Well, I am always very impressed by the scene that can be called "Hero/heroine jumps down from the edge of waterfall" - such an unplanned cliff jump was seen in "Avatar"; to get some practice in recognizing the actions, let us dissect it. This is the result: We will get some ideas about such actions: "Enemy pursues hero/heroine", "Hero/heroine suddenly finds himself on the edge of waterfall", "Hero/heroine jumps down from the edge of waterfall", and "Hero/heroine escapes". It is clear to see that differentiation of the work is not very difficult. And in the same way we can see the actions in real life, not only in the scenes of the works. In this case, we see how the action "Hero/heroine punishes a strong enemy who is insolent" is manifested:

In some time, a giant centipede killed a careless mouse by using poison;

in 1828, an adult male sperm whale, under the influence of the hormone testosterone (it was the sperm whale breeding season), smashed the whaling schooner "Essex", which at the time of the event had not yet been repaired after a storm;

in 1879, several thousands of Zulu warriors armed mainly with spears destroyed the British infantry battalion whose camp had not been made into a fortress.

The attentive reader can see that these examples can also be presented as manifestations of the action "Enemy defeats hero/heroine by using deceit". So, we can assume that many manifestations of the actions refer to the two antagonistic characters (just as the square root generally has two solutions) - but this phenomenon must not be confused with the influence of the actions on each other (when the combined actions are formed). So we have already got an idea of the single character actions. Next, within the framework of this cliché theory, we must pay attention to the nature of the character (it can be either positive or negative), although Vladimir Propp, researching a class of folk tales, as a morphologist of the folk tale, had no need to perform such an action.

The principle of exclusion

Some readers may ask, "How are we to interpret the manifestation of the action as it simultaneously relates to the two antagonistic characters?" The principle of exclusion should help us in this case. It must be explained that this

theory is based on linear logic, so that the spheres of action of protagonist and antagonist cannot overlap. Thus, when we encounter the mentioned appearance, we automatically get two meanings (one of which refers to the Form and the other to the Content) at that moment.

The simplest episode (it consists only of two the character actions)

Coming back to the description of the initial methods of the set of clichés research, I must say that in the study of literature we must make integration, since it [integration] is the next step after differentiation. The essence of integration in this case is that we have to put together all the actions we have obtained through differentiation (like a puzzle), on condition that they do not contradict each other. This is the main task of this theory (therefore the picture we will get may differ from the life we know). And the very first step on this way can be the creation of the simplest episode consisting only of two the character actions (another episode) - these actions can belong either to a single character or to two different characters. In this case, it is very convenient to explore the episode "Hero/heroine gets the help of friend, and then enemy punishes the friend" (this action is not rare and could be seen in the film "The Thirty Nine Steps" (Sharp, 1978)). Someone may ask, "Why only two actions?" Then I would say that if we remember the Three-body problem (it belongs to astronomy), we understand that such a condition was established because of Chaos theory.

The graphic schemes for transmission the composition of the work

I spent more than ten years trying to find the solution to the integral. The episode "Hero/heroine brings down enemy, and then enemy rises" (many people saw it when they watched the famous "Terminator 2: Judgment Day" (Cameron, 1991) - in this case I am talking about the scene where Sarah Connor's team brings the T-1000 cyborg to disintegration) helped me to get this gaining. However, for the moment, I am going to take a much simpler approach to sharing the essence of cliché theory with literature fans and people who simply want to know more about the world we live in. First, let me tell you that I once came across the concept of the "Freytag pyramid" by accident (due to the fact that I had a science education and not a humanitarian one), which led me to create a scheme based on it to convey the change in the protagonist state during the narration (Fig. A1).

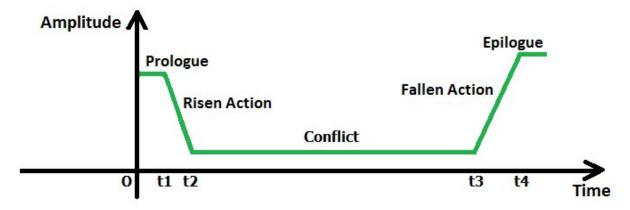


Figure A1 (Source: Yaremko)

I must explain that my representation of the conflict by a long line is based on the scene in which hero/heroine is very busy for a long time because he/she passionately wants to achieve a result (this [the scene] can be seen in the film "District 9" (Blomkamp, 2009) while the alien Christopher Johnson gathers the Liquid for a long time) — this scene can also be represented as an episode to give us some unification (let's call it "Hero/heroine gathers the food, and then hero/heroine repeats this action"). Next, the mentioned scheme involves an incomplete deterioration of the protagonist condition: I made such a choice because there is the action "Hero/heroine hangs over the abyss". If we pay attention to a small group of films (more "Ricochet" (Mulcahy, 1991) and "Sherlock Holmes" (Ritchie, 2009) and less "The Mummy" (Sommers, 1999)) when prologue usually contains the action "Hero/heroine makes sure that enemy is imprisoned"," and the reason for the conflict between the two antagonistic characters is revealed with the action "Enemy escapes from imprisonment", we realise that Fig. A1 could be more informative (Fig. A2).

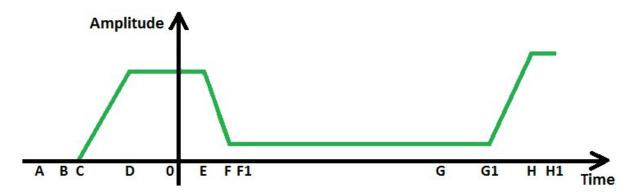


Figure A2 (Source: Yaremko)

So, looking at Fig. A2 we see that an addition to Fig. A1 is located on the left side of the Amplitude axis — in this way I try to show that it is only our reconstruction (we can argue that the mentioned small set of films does not change the known structure of the composition of the work in any way). Now, if we look carefully at real life, we see that Fig. A2 is used quite frequently (Table A1).

Nº	Segment C - D	Segment E - F	Segment F - G1	Segment G1 - H
1	The pairs of elementary particles and their antiparticles were formed after the Big Bang	The pairs of elementary particles and their antiparticles annihilated after certain expansion of the Universe	Only about 0.0001 percent of the original number of elementary particles survived due to the Baryon asymmetry exists in the Universe	
2	The massive and unstable stars of the first generation were formed	The stars of the first generation relatively simultaneously exploded after a relatively short period of existing		Much more stable, due to the presence of heavy metals, the stars of the second generation were formed
3	The mammals and the dinosaurs almost simultaneously were formed	The mammals got the dominance of the dinosaurs	The mammals survived underground (which was their habitat for more than 150 million years)	The mammals came to the Earth's surface after the dinosaurs became extinct
4	The diversification of organisms on Earth (generally the dinosaurs) took place	Most of organisms on Earth (generally the dinosaurs) died out after the falling of the Chicxulub asteroid	Some species of organisms that belonged with different classes (mammals, birds, lizards, etc.) survived underground	The diversification of organisms on Earth (generally the mammals) took place
5	The people of the modern type begun to settle outside Africa	New occupants faced the mass-extinction caused by the eruption of the Toba volcano	Literally a few the humans of the modern type which were living outside Africa survived	The people of the modern type continued their settling outside Africa

Table A1 (Source: Yaremko)

I think some readers will be interested in the identity of the protagonist of Fig. A2 after reading Table A1. To find this identity, we need to interpret an amount of characters in the works.

The characters

I had been researching the works for almost eighteen years when I came to the conclusion that, in general, there are at most three pairs of defining characters in society: master and enemy of master; traitor to master and helper of master; people and remnant of people. I must say that the interpretation of the characters becomes much easier if we assume that ruler means a phenomenon of the highest level - generally Law (another name is Order). Then Chaos automatically becomes enemy (this is very convenient for us, because at the moment we have a solid foundation of classical thermodynamics). Having seen the first pair of characters, it is necessary to add to what has been said that only Law governs society (people) because it is located on a certain level. Right now the question is, "Who is this traitor?" I am confident that this person is the collective First Servant of Law (Servant 1) - a collection of

charismatic revolution leaders with remarkable will and intellect, unable to complete the main task of revolution; this conclusion emerges from Table A2, which is using the data of Fig. A2.

Nº	Segment C-D	Segment E-F
1	During the English Revolution Oliver Cromwell was fighting	Oliver Cromwell made himself Lord
	King Charles I to get the ending of the abusing by the power	Protector
2	At the starting of the French Revolution Maximilian	Maximilian Robespierre became a tyrant
	Robespierre was fighting tyranny	
3	During the French Revolution Napoleon Bonaparte was	Napoleon Bonaparte made himself
	battling the enemies of the revolution	Imperator

Table A2 (Source: Yaremko)

I continue to interpret characters, and I want to say that helper is the collective Second Servant of Law (Servant 2), which is a collection of principled people in society (these are often dissidents). So remnant remains (sorry for the tautology) — it is clear that it points directly to a mass extinction in society during a major crisis. Now I would like to continue this section, and I must say in this case that we can see that the mentioned trajectory on Fig. A2 primarily reflects the change of the status of Law in society over time, as the main determining personalities of human society have already gotten known to us.

A new theory of literary clichés can be successfully used but with some limitations

The attentive reader looking at Table A2 could see that Servant 1 can be narrated only with the beginning of the Age of revolution — so this theory has a limited probability of application and works only on the basis of the Monopoly on violence. I drew this conclusion because rulers at the beginning of civilization (like Hammurabi) who are the first to present written law codes to people, cannot be presented as First Servants of Law (due to the motives they had primarily the usurpation of the power in society and the personal enrichment).

Fractals

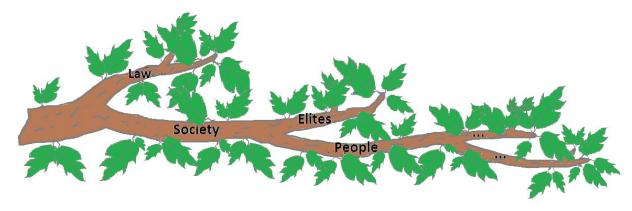


Figure B1 (Source: Yaremko)

Since we have come across the term "Management" twice, dealing with the actions in the works (as we said, Law governs society with an elected authority), we can say that at the moment we are dealing with fractals (these are the objects that look like their parts). So, as we can see, the authority in society is the fractal reflection of Law; I transfer this phenomenon with Fig. B1 (as we know, a tree is one of the manifestations of fractals). We can also say that the mentioned presence of two meanings for the many manifestations of the actions is the fractal reflection of the presence of two antagonistic forces - the order and chaos; I can add to what has been said that in the future (we are going to get the studying of the society development by using the set of clichés done) we should come across many fractal reflections.

The law of equilibrium

The issue of power will not let me go - it's just a joke. But right now the question is, "Why does First Servant always distribute the resources of society in the first phase of revolution, not Second Servant?". If we remember the Second law of thermodynamics (it says that chaos has the greatest probability of spontaneous realization, not order), we see a similar picture (so the beginning of the Big Bang is an unrekognized primordial singularity). The reason for this is the existence of the Law of equilibrium, which states that the negative determiner usually has some physical advantage over the opponent. The formulation for this law is: The sum of moral and physical properties for each determinant in society is a constanta (A+B=constanta). It is not difficult to show that Chaos, if not endowed with allurements of illicit pleasures, is not able to realize its destructive role in society; there is a similar case: If Servant 1

has no extraordinary charisma and personality to be attractive in society, Servant 2 has no imprisonment because of his/her loyalty to Law - which is usually unreal.

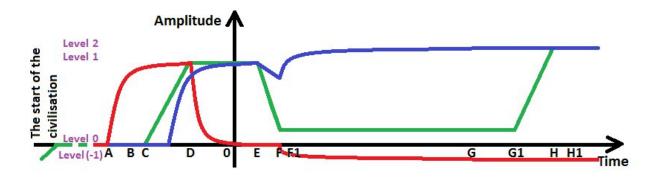
The events of the society development

Prehistory (segment A - D)

It must be said that this passage provides the only opportunity to see the First Service to Law, albeit schematically (remember that it is only a reconstruction), before the rebellion against Order made by Servant 1. The reason for this is that First Service is reflected only fragmentarily in the works, since "history is always written by winners" and there is simply no room for losers in all works (which constantly glorify the Second Service). Even tragedies, such as the film "The Tale of the Mummy" (Mulcahy, 1998), cannot be exceptions to this rule, even if they do not show the triumph of Servant 2. If literary fans want to see these few relics of the First Service in works, they should pay attention first and foremost to prologue, which often depicts hero's happy life (as in the movie "Peppermint" (Morel, 2018)); then attention should be paid to the character memories of the villain's positive activities before his/her moral decline (a good example of this is Gus Conroy's account of the happy life his wife Arlene led until she fell under the power of the Objects after finding the key to a nonexistent room 10 - TV series "Lost Room" (Harkcom & Baxley, 2006) are meant). I have already mentioned the episode "Hero/heroine brings down enemy, and then enemy rises" - in this case, it is very useful to describe how Servant 1, under the influence of a strong emotional impulse, takes a relatively short period of time to use the Method of punishment and reward to make society formally serve Law (segment C-D in Fig. A2; the situation for Chaos on it can be described by the action "The criminal goes to the jail" (we can see it through the arrest of Lord Blackwood in the mentioned "Sherlock Holmes")).

First Servant makes the rebellion (point D)

Level (-1) - A reign of Chaos; Level 0 - A balancing at the edge of Chaos; Level 1 - A formal execution of the law; Level 2 - A real execution of the law.



Main personae: Law (Order), First Servant, Second Servant, and Chaos.

Figure A3 (Source: Yaremko)

Point D on Fig. A2 marks that moment when the desire for illicit pleasures is revealed (in this case such a desire is some kind of a potential barrier on the way Law to get the victory in the struggling against Chaos). It must be said that Servant 1 at this moment feels the fear of losing the power over society, and the mentioned fear can be seen through the desire to illegally stay in power - but all the social groups themselves, tired of keeping an eye on Law, do not pay the special attention to these events. The action "A fugitive sees his/her foot (hair, clothes, etc.) that is stuck on the obstacle" - seen in the finale of the film "Mortal Engines" (Rivers, 2018) - confirms my words very well; it can also help to understand the events from Fig. A3, in which the distortion of trajectories of change in the levels of respect Servant 1 and Servant 2 give Order is shawn. If the reader is interested in the origin of this concept (I am now focusing on the aforementioned distortion of the trajectories), I will say that I have borrowed it from the diagram, which is able to show the change in the velocity of a physical body over time when that body is under the influence of a constant force (Fig. B2); and it [the diagram] can represent the speed of light in vacuum as a potential barrier that cannot be reached by physical bodies (but not by some elementary particles).

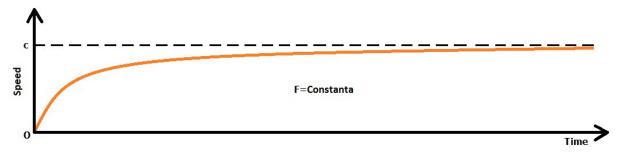


Figure B2 (Source: Yaremko)

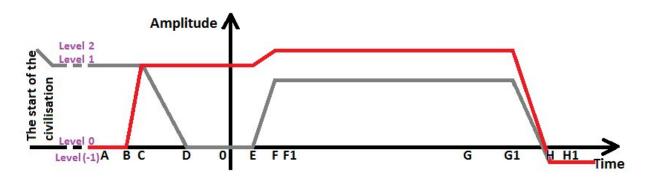
Another example of a potential barrier is the force of the electromagnetic repulsion between two protons — only the interior of stars has such a temperature that the mentioned potential barrier can be overcome (it must be understood that both the light of stars and the life on planets are not possible without overcoming this barrier).

Servant 2 counters the opponent (segment D - E)

If we go to Fig. A3 for learning about Second Servant's activities, we see that while traitor is trying to realize ambitions for the power, Servant 2, being inspired by the example of the predecessor, is ignoring temptations of Chaos and actively promoting Law in society (segment D - E of Fig. A3). As a result, Servant 2 is able to keep the opponent from realizing Servant 1's coup attempt for some time, but he/she is doomed to stop doing so for fear of the First Servant's revenge (section E - F of Fig. A3). So, the First Service (which essence is the fear of punishment after bad deeds and the desire for reward after good deeds) is not able to give Law the achievement of the goal that this person needs - the total downfall of chaos in society in the long run (the action "Hero/heroine has the failure", which can be seen in the movie "Romancing the stone" (Zemeckis, 1984) - in this case I am pointing to the failed attempt of protagonist to climb a tower - can confirm the last words very well).

The complete usurpation of the power in society (segment E - F)

Level (-1) - Imprisoned criminals; Level 0 - Law abiding citizens; Level 1 - An elected authority; Level 2 - Law (Order).



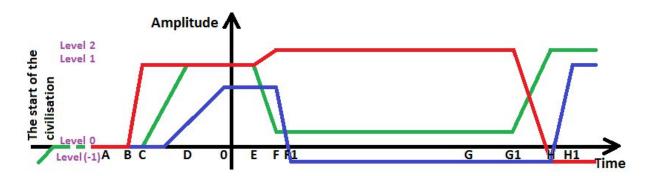
Main personae: Law (Order), First Servant, Second Servant, and Chaos.

Figure A4 (Source: Yaremko)

If we now return to the activities of Servant 1, we see that this person, in order to have the unlimited power over society, takes the place in society that was intended for Law - it means that Chaos becomes essentially free in society (the works depict this phenomenon with such actions: "A criminal bribes the policeman" (an example of common corruption) and "A criminal escapes from prison"; this is illustrated by Fig. A4, which graphically depicts the change in statuses of Servant 1 and Chaos in society over time (I obtained the diagram of status change for Chaos by using the same concept for Order).

Second Servant gets the revenge of the opponent (segment F - F1)

Level (-1) - Imprisoned criminals; Level 0 - Law abiding citizens; Level 1 - An elected authority; Level 2 - Law (Order).



Main personae: Law (Order), First Servant, Second Servant, and Chaos.

Figure A5 (Source: Yaremko)

If we pay attention to Fig. A5 at this moment (which shows the change of status of Second Servant in society over time), we additionally see the imprisonment of Servant 2 after the cowardice and betrayal of Law shown by this person. As you can now imagine, the described decline in living standards is a result of the usurper's revenge. Table A3 can show how this happened more than once in history (just follow blue lines on the schemes).

Nº	Segment D-E (fig. A3)	Segment E-F (fig. A3)	Segment F-F1 (fig. A5)
1	Crown prince Dan of the Yan state arranged the attempt on the life of King Zhen of the Qin state to prevent a possible usurpation of the domain	Jin Ke, the assassin, could not accomplish the task	King Zhen of the Qin state invaded the Yan state to seek revenge
2	Ishida Mitsunari tried to stop the Tokugawa leyasu's arising after Toyotomi Hideyoshi died	Ishida Mitsunari lost the Battle of Sekigahara	Ishida Mitsunari was executed on the order of Tokugawa Ieyasu
3	Great Britain and France tried to stop the revanchism of Germany after that country attacked Poland	The British and French army units were encircled at Dunkirk	France was occupied and Great Britain was bombed by the armies of Nazi Germany
4	Yulia Tymoshenko was trying to defeat Viktor Yanukovych in the 2010 presidential election	Yulia Tymoshenko lost the 2010 presidential election	Yulia Tymoshenko was imprisoned for political reasons by Viktor Yanukovych's initiative

Table A3 (Source: Yaremko)

Next, if we pay attention to the change of the status of Order, we see that the decrease of Second Servant's standard of living means that Law should have a minimum number of followers in society (at this moment it becomes clear why the status of master does not reach the mark 0 (level 0) on the Amplitude axis during the described fall, when Servant 1 makes the revolt) - so in this case we see how the action "Servant sacrifices the life master to live" (which is very common) is revealed.

The interpretation of the action "A servant sacrifices the life master to live"

Now, that we have some idea of Second Servant's loyalty to master, let us look again at Fig. A5. We can see on it three times the concept of "death" — in two cases this concept has a symbolic meaning ("The death of master" in this theory means the lowering of Law's status in society, and "The death of hero/heroine" means the lowering of Second Servant's standard of living)and in the only case - a real meaning (so Servant 1 must be killed (executed) or imprisoned until the end of life). So, the action I mentioned can be represented as a combination of such actions: "Enemy harms hero/heroine" and "Enemy dies". This is because on our planet the mortal physical life of organisms consisting of billions of cells is a fractal reflection of the moral activities of Servant 1 among other explanations (segment A - E of fig. A3).

Second Servant has to demonstrate all the loyalty to Law (segment F - G1)

This longest event can be described by the action "Hero/heroine cuts the chain" (as in the movie "Captain America: The Winter Soldier (Russo & Russo, 2014) during the fight in elevator Steve Rogers rips a magnetic bracelet from a

wall) – I am talking about the process of overcoming the potential barrier of temptation of illicit pleasures by Second Servant by completely ignoring the threats of traitor (Table A4 (remember that Chaos is the antagonist).

Segment C-D (fig. A4, gray		Segment F-G (fig. A3, blue line)
line)	line)	

1	The National Convention arrested Maximilian Robespierre and the most of his counterparts	The group of Maximilian Robespierre was freed by the supporters	The military defeated Maximilian Robespierre's supporters
2	The Anti-Napoleon coalition army defeated Napoleon's army in the "Battle of the nations" near Leipzig	Napoleon Bonaparte fled from the island of Elba	The Anti-Napoleon coalition army defeated Napoleon's army near the village of Waterloo
3	The Entente countries defeated Germany in WWI	Europe lost its advantage over Germany after WWI	The Anti-Hitler Coalition defeated Nazi Germany in WWII
4	The Orange Revolution of 2005 stopped the Viktor Yanukovych's trying to become the President of Ukraine	Viktor Yanukovych became the President of Ukraine in 2010	The protesters at Independence Square in Kyiv-city defeated the Viktor Yanukovych's criminal regime in 2014

Table A4 (Source: Yaremko)

What does the criminal regime of Servant 1 (which generally includes society) expect after such acts of helper? If we look at the segment E - F on Fig. A3, we see that traitor is very careful and tries to avoid conflicts with powerful actors (e.g. society), but the political repression against the opponent gradually drives him/her directly into the "Arms of chaos". Based on the last explanation, Second Servant's activities during this period can represent the action "Hero/heroine makes the weapon" (in this case, I like the scene from the movie "Anthropoid" (Ellis, 2016), where German soldiers prepare their machine gun to fire), which belongs to a large family of actions (which are all actions of characters that are essentially similar; the concept of "Family of actions" follows directly from Propp's concept of "Functions of dramatis personae") which can be named "Hero/heroine makes the tool for salvation".

First Servant meets total collapse (segment G1 - H)

The roots of the fall of Servant 1 lie in point G, where two events occur synchronously: helper proves complete loyalty to Order and Chaos completely fills the mind of Servant 1 with itself (we obviously see at this moment the action "Hero/heroine strikes enemy by enemy's own weapon", which is also seen in the final battle of the movie "Silent Trigger" (Mulcahy, 1996)). As a result, First Servant has to start a war against the powerful person (this conflict (segment G - H), as can be seen from Fig. A2, is the fractal reflection of the traitor's rebellion against Law (segment F - H); I must add that if we think of the Ice Age, we see that the conflict with the powerful person means the careless night departure of man/woman from the campfire directly to the hunting ground of the sabre-toothed cats). At the beginning of this adventure, traitor should receive some benefits, but it is certain that after reaching the point G, the criminal regime is doomed. If we now return to Scheme A2, we see that the status of Law increases very rapidly during the collapse because the usurper's followers die out en masse (which event is symbolic or real). If we observe Scheme A5, we see a gradual restoration of Servant 2's status in society (since only this person can fill the power vacuum) and the beginning of a long process of restoration awaiting remnant.

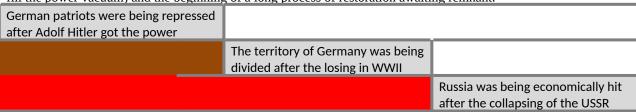
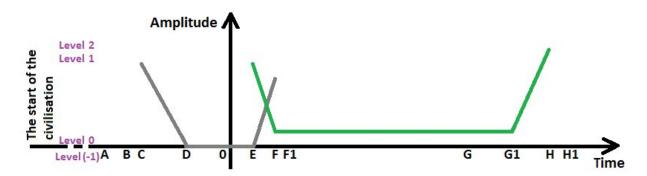


Figure B3 (Source: Yaremko)

The explanation of the end of the First Service

Since we have already seen how the status of Law in society can be restored by Order after the event of collapse, we can better understand why the First Service is always doomed to failure. Now, the chaotic attempt at revanch can be clearly seen as a return to the state of equilibrium (Fig. A6). This is because the methods used by Servant 1 to try to overcome chaos in society are very similar to chaotic methods.

Level (-1) - A reign of Chaos; Level 0 - A balancing at the edge of Chaos; Level 1 - A formal execution of the law; Level 2 - A real execution of the law.



Main personae: Law (Order), First Servant, Second Servant, and Chaos.

Figure A6 (Source: Yaremko)

Important conclusions

Despotisms cannot succeed in economics and politics in the distant future, as each of them is simultaneously a counterpart and a source of chaos;

Countries that often act according to the Realpolitik principle cannot succeed economically and politically in the distant future, because each of them is an analogue of First Servant in the international arena;

Countries that truly respect Law (which means avoiding the application of the Realpolitik principle) should succeed economically and politically in the long run;

Countries that want to be promoted by Law must experience the crisis of the First Service with all its consequences.

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