

Movies in the Metaverse Perspective

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Abstract. The year 2021 is the year of metaverse. Ever since mankind moved towards the digital information age, people have been living, playing and working in the digital world. More than twenty years have passed since the movies "The Matrix" and "Avatar" unknowingly. Watching these two movies again today, there is no lack of seeing the metaverse, and the world envisioned by the metaverse can find traces in the movies. In addition to the human and mechanical, real world and virtual reality that the movies themselves are about, the metaverse movies to a certain extent give the meta-universe a figurative and deeper meaning.

Keywords: Meta-universe; Digital world; The Matrix; Avatar; Real world; Virtual reality.

1. Introduction

The Meta-universe, or Metaverse, is defined by Wikipedia as "a collective virtual shared space created by the fusion of a virtually augmented physical reality and a physically persistent virtual space, including the sum of all virtual worlds, augmented reality, and the Internet." [1] So what exactly does Metaverse mean? Let's start with Meta. If you are a programmer, especially a frontend programmer, you will be very familiar with this term. The Metaverse was coined by American science fiction author Neal Stephenson in his 1992 novel Snow Crash, and is a term used to describe the meta tags, `<meta></meta>`, that are used to label data. More importantly, Neal is not just a science fiction writer, he is a programmer by profession, so he has his own expertise in digital technology to create this unique word. Dating back to an earlier time, the word meta originated from the Greek μετά, which translates into Chinese as beyond itself or about what is inside what, here translated as "meta", can be said to be quite accurate. Another example is the other three English words meta-analysis, meta-ethics and meta-language. meta-analysis means to do analysis about analysis, i.e., comprehensive analysis, and then analysis; meta-ethics means to study ethics, i.e., ethical post-ethics; meta-language means to study the ethics of ethics. meta-language, meaning language used to study and describe language. So now, looking back, meta can be understood as metadata, meaning data for the study of data. Further, metaverse is meta-universe, meaning the universe of universes, which is the meta-universe we are now talking about by word of mouth.

The characteristics of metaverse can be from the perspective of users, developers, government and society respectively, which can be with immersive experience, with creative attributes, with social attributes, with economic attributes or with civilization attributes. The immersive experience often brings us a shock beyond reality and is outside of the real physical world. [2] Just like the "wormhole" theory proposed by Albert Einstein, two parallel universes in different space and time are linked through a narrow tunnel in space called "wormhole". The immersive experience is to travel through the "wormhole" and arrive at another universe, which is a different world.

Is the 2021 metaverse just a new financial concept, a new way for capitalist predators to enrich themselves? To put it another way, there is a vein of information digitization in the course of human development. For example, how many meters a rope has, the rope is quantified and digitized, and even abstract concepts like time are digitized by information. Move forward a century and clocks can be accurate in minutes. In ancient China, sundials were refined to at most how many quarters of an hour. In primitive societies, the concept of time was sunrise and sunset. 365 days a year, 24 hours a day, 3600 seconds an hour. This is how mankind has made all the invisible time digital. Writing is also a system that was incorporated into the digitization of information, which turned human thoughts into information and stored it. As mankind develops, more and more things are incorporated into digitization and become more and more detailed. Will humans also digitize

themselves and live themselves completely in a virtual digital world? It seems too sci-fi today and looks more like a castle in the air. [3] But the digitization of time, text, photos, film and "weights and measures" is not going to happen overnight, so the digitization of humanity itself will not seem easy either.

In November 2021, the Internet head company Facebook released the news that it was going to officially build a meta-universe. At the launch, Zuckerberg showed us directly the daily routine of the metaverse and said that the project, "is beyond the comprehension of us with computers and cell phones". Here's how he described it. In the future, you can freely build the most beautiful dwelling in your heart, and the most beautiful scenery in your heart as the scenery outside the window; in the future, you no longer need to worry about your own appearance and physique, you can freely choose your own virtual image, as well as the colorful clothing that can be switched with a wave of the hand; in the future, you do not need to select the location of meeting with friends, and then after a long journey, but freely choose your favorite scene and turn instantly. In the future, you don't need to pick a place to meet with your friends and then travel a long distance, but choose your favorite scene at will and turn to it instantly, and your chat with your friends will not be as rigid and simple as today's video conferencing without eye contact, but completely face-to-face experience offline, and also have the free state and casual atmosphere that offline face-to-face does not have. Then, in order to show the sense of presence, Zuckerberg also used the strongest sense of presence in the concert as an example, saying that in the future, we no longer need to peep through the small screen, to peep and envy the life of others, but to change, you can join their most real happiness at the moment. In the future, the purchase and ownership of items will also be more secure and stable than in the real world. Because all items will have a string of eternal independent codes, there will be no more counterfeits and all kinds of commercial fraud, and the owner of any item of all generations will be permanently recorded, to be truly open, transparent, fair and just. Most importantly, in the future, all the above content will no longer need to wait for a centralized institution to produce and distribute. All of us will change from a receiver to a creator, free to create any virtual objects, play, or even develop their own independent world and rules. In short, in the future, all this will only require a pair of glasses. The above is Zuckerberg's description of the future metaverse. Whether you are optimistic or pessimistic about it, you have to admit that it really attracts everyone's attention, because people are too much looking forward to the uninteresting life of the present to be changed by technology earlier, so they join the science and discussion of the metaverse in droves.

2. Movies

2.1 The Matrix

Savior Neo meets the self-proclaimed architect, the designer of the Matrix, at the computer mainframe and asks why Neo came here, "Your life is the sum of the remainders of an inherently unbalanced equation in the programming process of the Matrix, you are the result of a mutation that I have given my best efforts to eliminate in order to achieve the precision and harmony held by mathematics. Although it is a burden that everyone avoids, it is not unexpected or uncontrollable. That's what brought you here." The first Matrix system built by the Architect was a perfect world for mankind, like the Western Paradise, mathematically logical and self-explanatory, but the result was unsatisfactory because of the lack of judgmental models, and the output was that the spiritual world of mankind soon collapsed in a perfect world. The architect realized that the imperfect human species needed a less perfect world in order to survive. The second generation of the mother was born, but at the same time there will be a new problem, because the system is not perfect there will inevitably be bugs (program vulnerabilities), day after day, antivirus programs cannot help when the system runs or will crash and die. The architects turned into a strategic conceptualist, rather than break one by one time-consuming and laborious than spontaneously forcing these program vulnerabilities collection, when the time is ripe to wait for the opportunity to move to destroy in one fell swoop. The Zion resistance is set up as a collection of system vulnerabilities, in other words,

Zion exists because the system allows it to exist. The Savior program is designed to be a representative of the Zion group, the emergence of Savior Neo indicates that the Zion group has developed and expanded to the extent that it must be eliminated and returned to the main computer architect, integrated into the system source code to achieve a system reboot. Through this means, the Matrix will be able to purify the system at minimal cost, and the human spiritual world will not collapse, thus repeating a cycle. The Savior is set up as a hybrid of a human and a program with free consciousness, and under the guidance of the Prophet, the Savior is able to come to the main computer - "the Architect is the father of the Matrix, the Prophet is the mother of the Matrix" The Prophet is essentially a super-program that probes the human psyche.[4] The Architect is a mathematician, and the Prophet is a psychologist. The Prophet points out where Neo will eventually arrive, "Every now and then, a program can choose to come here to hide or return to its source, the Matrix host program." Neo, as the sixth generation of Saviors, has a different quality from the previous five generations of Saviors - a love affair with Trinity, which in fact was intentional on the part of the Prophet, who predicted that Trinity would fall in love with the Saviors. In the computer mainframe, Neo made a difficult choice: the right door to enter into the mainframe system to save humanity and preserve Zion, and the left door to enter to save Trinity's life, but humanity and Zion to destruction. Neo finally chose the left door.

2.2 Avadar

The film is thematically subversive and then reconstructive, the characters struggle and the themes struggle, the writer-director allows these two very different worldviews to compete with each other in a battle of life and death, the answer given in the film is the lieutenant "Fight terror with terror" [5], this use of terrorism against This approach to terrorism is obviously not a panacea for the world, which coincides with the reality that the United States has implemented several wars against terrorism, which seemed to be a box office booster at the time, but now it seems that we cannot help but flirt with "American-style counter-terrorism, the more counter-terrorism, the more fear. [6] Thus, the film treatment of the Nabis communicating with animals through their hair braids and controlling their behavior with their own thoughts became a miracle, and this stitching became the most optimistic solution to reconcile the contradictions of different ideas, which is why there is no war, no ownership, and no territory on Pandora. Each tree in Pandora's forest is a neuron, which is connected by its roots, and all the creatures that inhabit the place are only part of it.

3. Summary

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The theme of The Matrix is evolution, that is, from Revolution to Evolution. Murphys and the entire Zion resistance has always believed that the machine enslaves human beings in order to extract biological energy from the human body, which is obviously very illogical, because it takes energy to keep people alive, the energy conversion rate is inversely proportional, the machine can use geothermal, mineral and nuclear energy, the biological energy generated by the human body is very limited. [7] The machine allows humans to exist and create the mother system, not for energy, but to gain the ability to evolve unique to humans, and thus perfect the machine's own civilization. [8] Darwin's theory of evolution suggests that the evolution of life is directionless and full of uncertainty, so it is very difficult to specify the direction of evolution. Only in the seemingly chaotic and disorderly human life is there a probability of evolution occurring. Machines obviously cannot achieve this purpose. The advantage of machines is that the system can give evolution a specific scope a set of rules, but the limitation of machines is that the system cannot produce world builders, such as Newton Hawking Einstein and so on in the human world. If only as the machine itself, there is an upper limit to the prosperity of civilization, the machine controls the human mental world through the Matrix in order to steal the evolutionary capabilities unique to humans. In this regard,

two programs in the Matrix world have some routes and ideas of their own. One is the architect, who represents the rational side and achieves evolution by creating balance and maintaining controlled uncertainty; the other is the seer, who is the emotional side and is responsible for creating uncertainty in the Matrix world to achieve evolution. The principle is similar to that of Generative Adversarial Networks (GAN), a deep learning model in computer networks, in which the model generates output by playing the Generative Model and the Discriminative Model in the framework with each other.[9] Here the Architect and the Prophet are used as discriminative models, both aiming at a more desirable outcome - evolution. In the first five generations of the Matrix cycle, the uncertainty created by the Prophet remains within the control of the Architect, as evidenced by the fact that the Savior reverts to the mainframe source code to achieve a system reboot. However, this model has dwarfed its functionality over time, and a single reboot does not represent an upgrade to the system, and after five generations of system reboots, the Matrix world has not changed significantly. To achieve the purpose of system evolution, the Prophet implanted the element of "love" in Neo, the sixth-generation savior, in order to give Neo the ability that previous generations did not have. The ability. In the movie, Neo becomes a creator god in both the real world and the Matrix world, exercising superpowers beyond the reach of ordinary people. But everything in this world has an AB side, there are disadvantages, Neo's superpowers will also endanger the Matrix itself, when the antivirus program Smith was designed as a counterbalancing force, Smith's settings are the ability to enhance with Neo's ascension.

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