

The Multiverse and Time

By Khoury Douglas



How does time and the
multiverse correlate with each
other

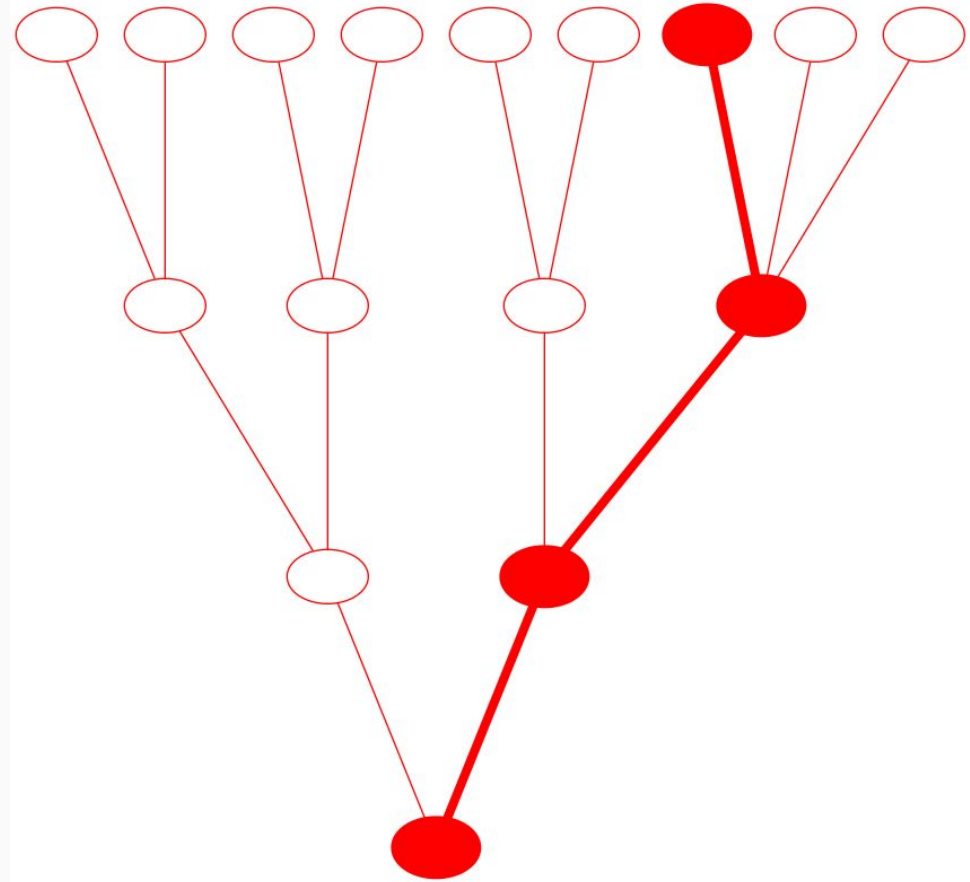
Intro

Multiverse theory is the idea that the universe we live in is not the only one, and that there is an infinite number of universes that may be similar to our own, or drastically different. Multiverses can also be affected by time, which is created through the 'Parallel timeline theory', in which every choice you have possibly not made, has a universe in which you did make that choice.

Split timelines are an example of this as well, as going back in time and changing something does not affect the time you came from, but instead causes a branch to occur. A new universe.

Parallel Universe

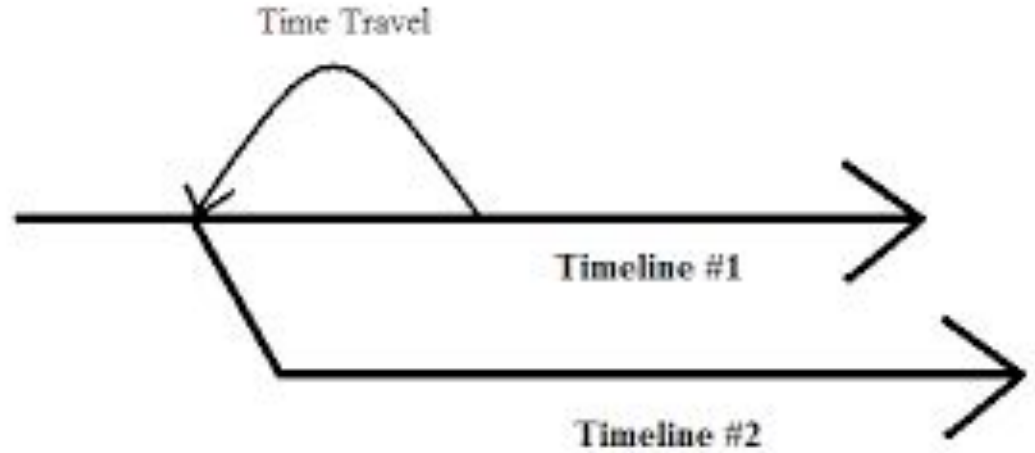
Caused by choices
made in life



Traveling minds

Split Timelines

Caused by time travel



Annotations

Kuhn, Robert Lawrence. "Confronting the Multiverse: What 'Infinite Universes' Would Mean." Space.com. Space, December 23, 2015. <https://www.space.com/31465-is-our-universe-just-one-of-many-in-a-multiverse.html>.

This source goes into depth about what multiverse theory and the aspects behind it. This source applies scientific reasoning towards the topic, as well as certain aspects of science into how this theory may be supported such as quantum physics, as well as the aspect of different types of multiverse that there may be.

Annotations (Continued)

Avengers:Endgame Directed by Anthony and Joe Russo, written by Christopher Markus and Stephen McFeely, performances by Robert Downey Jr., Chris Evans, Mark Ruffalo, Chris Hemsworth, Scarlett Johansson, Jeremy Renner, Don Cheadle, Paltrow, Josh Brolin, Marvel Studios 2019

Avengers Endgame is the last movie of the Marvel Studios Infinity Saga, based off of Marvel publication comics. In this movie, the Avengers use time travel in order to defeat their main opponent, the Mad Titan Thanos and his forces. This 3 hour film takes us on a journey as our heroes try to save the lives of those lost, and protect the lives of those still here. Along the way, they mess with time, creat new universes and get into serious trouble all in efforts to save the day.

Annotations (Continued)

Insider, Tech. “Multiverse Theory, Explained.” YouTube. YouTube, January 3, 2018.

<https://www.youtube.com/watch?v=IVvcOQk6G0Q>.

This video quickly talks about multiverse theory and its properties in a much simpler way for the general public to understand. The video is done by astronomer Stuart Clark, who talks about the problems that could be solved based on this theory and applying physics to it.

Annotations (Continued)

Howell, Elizabeth. "Parallel Universes: Theories & Evidence." Space.com. Space, May 10, 2018.

<https://www.space.com/32728-parallel-universes.html>.

This source is basically an argument to why parallel universes exist. Parallel universes are multiverse more so affected by time, or in more simpler terms they are universes created by choices we may or make not make. These universes may be exactly the same as our own, up until their own event no matter what it is causing a branch.

Annotations (Continued)

Biba, Erin. "What Is Time? One Physicist Hunts for the Ultimate Theory." Wired. Conde Nast. Accessed December 3, 2020.

<https://www.wired.com/2010/02/what-is-time/>.

This source focuses on the aspect of time and what it is. It is done as an interview in which theoretical physicist Sean Carroll sat with Wired.com and was asked a multitude of questions about time and our multiverse, such as his idea that there was something before the Big Bang, how branching universes could have different aspects of time and how they are defined in that universe differently, as well infinite universes, in the past, present and future.