

What we know

Our current understanding of the universe is based on the Big Bang theory. It states that approximately 13.8 billion years ago, the universe came into existence as a very high density and temperature singularity. This rapidly expanded to the size that the universe exists as today. At the current moment, we are unable to determine how this occurred or what a singularity actually is. However, we do know that the universe is still expanding at an increasing rate.

What the Future Holds

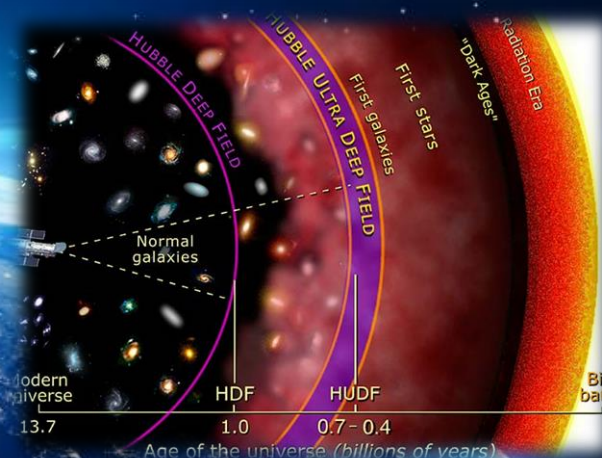
At this moment in time, we are discovering new planets that show signs of supporting life, called Exoplanets. We have now found over 3500 new planets that may possibly support forms of life. Many of these have been discovered by the Kepler Space telescope.

With these new findings, this will give us vital information to understand our universe further.



Limitations

At this moment in time, we are able to see 13.2 billion lightyears with the Hubble Space Telescope. This is called Hubble's Ultra Deep Field (HUDF). This allows us to see into the past and view the universe when galaxies and planets were being created. It is due to the time it takes for the light to reach a distance that we can view it.



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