

# What In The Universe

## Universe

The universe is all of space and time and their contents. It comprises all of existence, any fundamental interaction, physical process and physical constant - The universe is all of space and time and their contents. It comprises all of existence, any fundamental interaction, physical process and physical constant, and therefore all forms of matter and energy, and the structures they form, from sub-atomic particles to entire galactic filaments. Since the early 20th century, the field of cosmology establishes that space and time emerged together at the Big Bang  $13.787 \pm 0.020$  billion years ago and that the universe has been expanding since then. The portion of the universe that can be seen by humans is approximately 93 billion light-years in diameter at present, but the total size of the universe is not known.

Some of the earliest cosmological models of the universe were developed by ancient Greek and Indian philosophers and were geocentric, placing Earth at the center. Over the centuries, more precise astronomical observations led Nicolaus Copernicus to develop the heliocentric model with the Sun at the center of the Solar System. In developing the law of universal gravitation, Isaac Newton built upon Copernicus's work as well as Johannes Kepler's laws of planetary motion and observations by Tycho Brahe.

Further observational improvements led to the realization that the Sun is one of a few hundred billion stars in the Milky Way, which is one of a few hundred billion galaxies in the observable universe. Many of the stars in a galaxy have planets. At the largest scale, galaxies are distributed uniformly and the same in all directions, meaning that the universe has neither an edge nor a center. At smaller scales, galaxies are distributed in clusters and superclusters which form immense filaments and voids in space, creating a vast foam-like structure. Discoveries in the early 20th century have suggested that the universe had a beginning and has been expanding since then.

According to the Big Bang theory, the energy and matter initially present have become less dense as the universe expanded. After an initial accelerated expansion called the inflation at around  $10^{-32}$  seconds, and the separation of the four known fundamental forces, the universe gradually cooled and continued to expand, allowing the first subatomic particles and simple atoms to form. Giant clouds of hydrogen and helium were gradually drawn to the places where matter was most dense, forming the first galaxies, stars, and everything else seen today.

From studying the effects of gravity on both matter and light, it has been discovered that the universe contains much more matter than is accounted for by visible objects; stars, galaxies, nebulae and interstellar gas. This unseen matter is known as dark matter. In the widely accepted  $\Lambda$ CDM cosmological model, dark matter accounts for about  $25.8\% \pm 1.1\%$  of the mass and energy in the universe while about  $69.2\% \pm 1.2\%$  is dark energy, a mysterious form of energy responsible for the acceleration of the expansion of the universe. Ordinary ('baryonic') matter therefore composes only  $4.84\% \pm 0.1\%$  of the universe. Stars, planets, and visible gas clouds only form about 6% of this ordinary matter.

There are many competing hypotheses about the ultimate fate of the universe and about what, if anything, preceded the Big Bang, while other physicists and philosophers refuse to speculate, doubting that information about prior states will ever be accessible. Some physicists have suggested various multiverse hypotheses, in which the universe might be one among many.

## Steven Universe

Steven Universe is an American animated television series created by Rebecca Sugar for Cartoon Network. It tells the coming-of-age story of a young boy - Steven Universe is an American animated television series created by Rebecca Sugar for Cartoon Network. It tells the coming-of-age story of a young boy, Steven Universe (Zach Callison), who lives with the Crystal Gems—magical, mineral-based aliens named Garnet (Estelle), Amethyst (Michaela Dietz) and Pearl (Deedee Magno Hall)—in the fictional town of Beach City. Steven, who is half-Gem, has adventures with his friends and helps the Gems protect the world from their own kind. The pilot premiered in May 2013, and the series ran for five seasons, from November 2013 to January 2019. The television film *Steven Universe: The Movie* was released in September 2019, and an epilogue limited series, *Steven Universe Future*, ran from December 2019 to March 2020. Books, comics, video games and soundtracks based on the series have also been released.

The themes of the series include love, family and the importance of healthy relationships. Sugar based the lead character on her younger brother Steven, who was an artist for the series. She developed Steven Universe while she was a writer and storyboard artist on the animated television series *Adventure Time*, which she left when Cartoon Network greenlit her series for full production. The series adopted a storyboard-driven approach, where storyboard artists drew scenes, wrote dialogue and shaped the narrative. The design of Beach City and the Crystal Gems reflected Sugar's personal inspirations, such as Delaware beaches and childhood experiences, while incorporating influences from anime, video games and art history. Animation was handled by the South Korean studios Sunmin Image Pictures and Rough Draft Korea, while the music of composers Aivi & Surasshu became an integral part of the show's identity.

The series received critical acclaim for its storytelling, character development and visual design. Critics praised its exploration of complex themes such as identity, relationships and mental health, as well as its prominent LGBTQ representation, which included the character Garnet, a fusion embodying a same-sex relationship, whose component characters made history in the first same-sex wedding in children's animation. The voice acting and music were also lauded, with songs like "Stronger Than You" becoming popular and resonating with its audience. Steven Universe earned numerous accolades, including a GLAAD Media Award for Outstanding Kids & Family Program, becoming the first animated series to win the award, and a Peabody Award for Children's & Youth Programming, both respectively in 2019. It has consistently appeared on "best-of" lists for animation, including being ranked number 99 on BBC's 100 Greatest Television Series of the 21st Century list. Additionally, its influence extended beyond entertainment, inspiring other creators and fostering a broad fanbase.

## Shape of the universe

In physical cosmology, the shape of the universe refers to both its local and global geometry. Local geometry is defined primarily by its curvature, while - In physical cosmology, the shape of the universe refers to both its local and global geometry. Local geometry is defined primarily by its curvature, while the global geometry is characterised by its topology (which itself is constrained by curvature). General relativity explains how spatial curvature (local geometry) is constrained by gravity. The global topology of the universe cannot be deduced from measurements of curvature inferred from observations within the family of homogeneous general relativistic models alone, due to the existence of locally indistinguishable spaces with varying global topological characteristics. For example; a multiply connected space like a 3 torus has everywhere zero curvature but is finite in extent, whereas a flat simply connected space is infinite in extent (such as Euclidean space).

Current observational evidence (WMAP, BOOMERanG, and Planck for example) imply that the observable universe is spatially flat to within a 0.4% margin of error of the curvature density parameter with an unknown global topology. It is currently unknown whether the universe is simply connected like euclidean space or

multiply connected like a torus. To date, compelling evidence has been found suggesting the topology of the universe is simply connected, though multiplied connections can also be possible by astronomical observations.

## Characters of the DC Extended Universe

previous universe concluding in 2023 with Aquaman and the Lost Kingdom. The DCEU centers mostly on superhero characters, including the members of what would - The DC Extended Universe (DCEU) is a shared universe centered on a group of film franchises based on characters by DC Comics and distributed by Warner Bros. Pictures. Despite numerous film franchise in the past on characters such as Superman and Batman, none of those film series were connected. The DCEU debuted in 2013 with Man of Steel, centered on Superman, and has grown to include other characters such as Batman, Wonder Woman, and several others included in this list. The shared universe, much like the original DC Universe in the comics, was established by crossing over common plot elements, settings, cast, and characters, and crossed over with separate timelines from other DC-licensed film series in The Flash to create a "multiverse" before being largely rebooted as the new DC Universe franchise under new management from DC Studios, with the previous universe concluding in 2023 with Aquaman and the Lost Kingdom.

## Characters of the Marvel Cinematic Universe: M–Z

appeared in one project: the film Thor: Ragnarok. An alternate universe variant of Topaz appeared in one project: the Disney+ animated series What If...

## Characters of the Marvel Cinematic Universe: A–L

also directing the two Thor films. Alternate universe variants of Korg appeared in one project: the Disney+ animated series What If...?. Kro (voiced by

## Phrases from The Hitchhiker's Guide to the Galaxy

Episode 1, Cisco in trying to decipher what Barry is writing explicitly says that what Barry says might solve answer to the Life, the Universe and Everything - The Hitchhiker's Guide to the Galaxy is a comic science fiction series created by Douglas Adams that has become popular among fans of the genre and members of the scientific community. Phrases from it are widely recognised and often used in reference to, but outside the context of, the source material. Many writers on popular science, such as Fred Alan Wolf, Paul Davies, and Michio Kaku, have used quotations in their books to illustrate facts about cosmology or philosophy.

## What If (comics)

What If, sometimes stylized as What If...?, is a comic book anthology series published by Marvel Comics whose stories explore how the Marvel Universe might - What If, sometimes stylized as What If...?, is a comic book anthology series published by Marvel Comics whose stories explore how the Marvel Universe might have unfolded if key moments in its history had not occurred as they did in mainstream continuity. Since What If debuted in 1977, the comics have been published in 14 series as well as occasional stand-alone issues. In 2024, Marvel announced that What If...? would expand to include alternate explorations of continuity within other non-Marvel Universe properties owned by their parent company The Walt Disney Company from its fifteenth volume onwards, beginning with Aliens: What If...?, based on the Alien franchise, and followed by Marvel & Disney: What if...?, based on classic Disney characters.

In 2021, an animated series based on the What If comics premiered on Disney+, set in the Marvel Cinematic Universe's multiverse.

## DC Universe (franchise)

The DC Universe (DCU) is an American media franchise and shared universe based on characters from DC Comics publications. It was created by James Gunn - The DC Universe (DCU) is an American media franchise and shared universe based on characters from DC Comics publications. It was created by James Gunn and Peter Safran, co-chairmen and co-CEOs of DC Studios. The DCU is a soft reboot of a previous franchise, the DC Extended Universe (DCEU), retaining select cast members and narrative elements but disregarding others. In contrast with the previous state of DC Comics adaptations, the DCU features a united continuity and story across live-action films and television, animation, and video games. Concurrent DC adaptations that do not fit this continuity are labeled "DC Elseworlds".

After Discovery, Inc. and WarnerMedia merged to become Warner Bros. Discovery (WBD), CEO David Zaslav revealed a plan to revitalize the DC brand following the poor reception of the DCEU. Gunn and Safran were hired to lead the newly formed DC Studios in November 2022 after working on several DCEU projects, including the film *The Suicide Squad* (2021) and its spin-off series *Peacemaker* (2022–present). The pair spent several months with a group of writers developing the overarching story for a new DC continuity, which features a combination of popular and obscure DC characters. Some DCEU projects in development were abandoned in favor of new takes, while others—including *Peacemaker*—continued within the new franchise. Certain DCEU actors reprise their roles in the DCU, while others are recast. Gunn and Safran wanted to focus on storytelling needs rather than forcing creators to complete their projects to meet specific release dates.

The story of the DCU is divided into chapters, starting with "Gods and Monsters" which began in 2024 with the animated series *Creature Commandos*. Gunn and Safran consider the chapter's first film, *Superman* (2025), to be the true beginning of the DCU.

## YRF Spy Universe

three films in the universe - *Ek Tha Tiger* (2012), *Tiger Zinda Hai* (2017) and *War* (2019) - were released as standalone films before the universe was established - YRF Spy Universe is an Indian media franchise and shared universe centered on a series of spy action films, which feature various fictional RAW agents. The first three films in the universe - *Ek Tha Tiger* (2012), *Tiger Zinda Hai* (2017) and *War* (2019) - were released as standalone films before the universe was established through *Pathaan* (2023) after the success of *War*. The franchise also includes comic books, graphic novels and video games. The films are created, produced and distributed by Yash Raj Films.

<https://eript-dlab.ptit.edu.vn/@55292943/hcontrolm/ocriticisex/pthreatene/realistic+lab+400+turntable+manual.pdf>  
<https://eript-dlab.ptit.edu.vn/!31321012/ydescends/acriticisej/fqualifye/sangamo+m5+manual.pdf>  
<https://eript-dlab.ptit.edu.vn/=32087941/odescendj/xsuspendr/wthreatenc/din+2501+pn16+plate+flange+gttrade.pdf>  
<https://eript-dlab.ptit.edu.vn/=37794866/kfacilitateo/jcommitd/gwonderl/wheelen+strategic+management+pearson+instructor+m>  
<https://eript-dlab.ptit.edu.vn/=91330958/kinterruptu/narousec/mdependq/2000+ford+focus+repair+manual+free.pdf>  
<https://eript-dlab.ptit.edu.vn/@92688123/drevealb/zpronouncer/odecline/consumer+report+2012+car+buyers+guide.pdf>  
<https://eript-dlab.ptit.edu.vn/@76946776/drevealn/mcriticiseu/ydeclinez/mercury+optimax+75+hp+repair+manual.pdf>  
[https://eript-dlab.ptit.edu.vn/\\$61344702/rgathere/nevaluateg/premaink/kia+amanti+04+05+06+repair+service+shop+diy+manual](https://eript-dlab.ptit.edu.vn/$61344702/rgathere/nevaluateg/premaink/kia+amanti+04+05+06+repair+service+shop+diy+manual)  
<https://eript-dlab.ptit.edu.vn/^25012571/scontrolu/ksuspendv/twonderl/acedvio+canopus+user+guide.pdf>

[https://eript-dlab.ptit.edu.vn/\\$25390236/isponsorx/econtainw/pwonderz/economics+chapter+11+section+2+guided+reading+and](https://eript-dlab.ptit.edu.vn/$25390236/isponsorx/econtainw/pwonderz/economics+chapter+11+section+2+guided+reading+and)