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human understanding of what the universe is how it works and how vast it is has changed over the ages for countless lifetimes humans had little or no means of understanding the universe our distant ancestors instead relied upon myth to explain the origins of everything 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 energy and matter and the structures they form from sub atomic particles to entire galactic filaments the origin evolution and nature of the universe have fascinated and confounded humankind for centuries new ideas and major discoveries made during the 20th century transformed cosmology the term for the way we conceptualize and study the universe although much remains unknown short answer we don't really know how the universe was created though most astrophysicists believe it started with the big bang the observable universe is 93 billion light years in diameter some scientists believe its true size is even scarier than that by using the bayesian model averaging scientists estimated that the universe is at least 250 times larger than the observable universe or at least 7 trillion light years in diameter the universe is literally everything the sum of all existence it includes all matter like stars and galaxies the universe also includes all radiation and all other forms of energy study how the universe evolved learn about the fundamental forces and discover what the cosmos is made of overview the origin evolution and nature of the universe have fascinated and confounded humankind for centuries unlike the observable universe the universe is possibly infinite and without spatial edges zoom out from earth's solar system to the milky way galaxy the local group and beyond scale of the universe how old is the universe and how did it begin throughout history countless myths and scientific theories have tried to explain the universe's origins the most popular theory of our universe's origin centers on a cosmic cataclysm unmatched in all of history the big bang stream full episodes of how the universe works more does the universe itself have an edge and where does this ultimate boundary lie astronomers widely accept that the universe formed in the big bang approximately 13.8 billion years ago it has been expanding ever since this expansion explains how a 13.8 billion year old the james webb space telescope will look back at some of the earliest stages of the universe gather views of early star and galaxy formation and provide insights into the formation of planetary systems including our own solar system what is the universe made of matter and energy are the two basic components of the entire universe an enormous challenge for scientists is that most of the matter in the universe is invisible and the source of most of the energy is not understood how can we study the universe if we can't see most of it our work 95 join astronomers and astrophysicists as they probe light years beyond the milky way in understanding the universe part of discovery's popular television series some 15 billion years ago the universe emerged from a hot dense sea of matter and energy as the cosmos expanded and cooled it spawned galaxies stars planets and life by the universe was born with the big bang as an unimaginably hot dense point when the universe was just 10^{-34} of a second or so old that is a hundredth of a billionth of a trillionth of a how does the universe work there are many mysteries of the universe we have

yet to understand since the early 20 th century scientists have known that the universe is expanding in the 1990s researchers discovered that surprisingly the expansion is accelerating the universe could indeed be infinite how large is the universe put simply we don t know the best current estimate is that the universe s diameter is at least 93 billion light years but at least in astronomy 1924 was the year that the universe exploded one hundred years ago one star changed our view of the universe proving that the andromeda nebula was a galaxy

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