

# Free download Conversations with the universe how the world speaks to us (PDF)

the universe is nearly 14 billion years old our solar system is 4.6 billion years old life on earth has existed for maybe 3.8 billion years and humans have been around for only a few hundred thousand years in other words the universe has existed roughly 56,000 times longer than our species has 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 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 our observable universe how the universe works science channel 4.83m subscribers 676k views 3 years ago more does the universe itself have an edge and where does this ultimate 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 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 it can be thought of as a bubble with earth at its centre it is differentiated from the entirety of the universe which is the whole cosmic system of matter and energy including the human race unlike the observable universe the universe is possibly infinite and without spatial edges 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 the most popular theory of our universe's origin centers on a cosmic cataclysm unmatched in all of history the big bang learn about the big bang theory and how our universe got started skip 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 short answer we don't really know how the universe was created though most astrophysicists believe it started with the big bang join astronomers and astrophysicists as they probe light years beyond the milky way in understanding the universe part of discovery s

popular television series the universe is expanding carrying galaxies with it like flotsam on a fast flowing river this expansion also stretches the wavelength of light which astronomers call cosmological redshift since it pushes visible light colors toward the red end of the spectrum discover the awe inspiring distances to the voyager 1 probe the enigmatic oort cloud and the neighboring star system of alpha centauri as we sail through the milky way understand our position how the universe works is a science documentary television series that provides scientific explanations about the inner workings of the universe and everything it encompasses 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 p welcome to the universe discover the universe learn about the history of the cosmos what it is made of and so much more explore exoplanets worlds beyond our solar system stars giant balls of hot gas that burn for millions to billions of years black holes concentrations of matter with gravity so powerful not even light can escape galaxies how the universe works with phil plait michelle thaller richard lintern mike rowe a users guide to the cosmos from the big bang to galaxies stars planets and moons where did it all come from and how does it all fit together since the universe burst into existence an estimated 13.8 billion years ago it has been expanding outwards ever since but because we don't know a precise age for the universe either it the universe has not expanded from any one spot since the big bang rather space itself has been stretching and carrying matter with it

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