Click to prove you're human

A video that attempts to show just how massive the universe is has left many convinced we cant be alone in the universe. Admittedly, I am not an astronomer, but I reckon space is pretty big. A vacuum so vast that some social media users have been convinced that humans cannot be alone in the universe.Well, a clip posted online has proven just this and has stunned users as it showed just how small and insignificant we are on a cosmic scale. Take a look:The clip is from a video called Cosmic Eye, which was designed by astrophysicist Dr. Danail Obreschkow of the International Centre for Radio Astronomy Research at the University of Western Australia back in 2012.Since then, it has been reposted online numerous times, having been viewed by millions.The short clip starts by showing a woman lying down on a small patch of grass before zooming out into the sky at rapid speed. The video shows how small the Earth is if you continue to zoom out beyond our local solar system.The clip then goes even further beyond and shows our galaxy and the Milkyway, as well as the empty vastness of space.Getty Stock ImageTheres no way were alone. The universe is too big, one X user wrote.Sweet Jesus. Ain't no way we are the only humans or beings in the universe. No way, another added. And people still think were alone in the universe.So, how exactly did Dr. Obreschkow create the world-famous clip?Well, he apparently created the IOS App Cosmic Eye to generate the video.Speaking to the Mail in 2016 after the clip went viral again, he told the publication he created the video to show a class at the University of Western Australia.Getty Stock ImageI was teaching an arts class ... a bunch of 200 non-scientists, and I thought I wanted to do something to explain the different scales of the universe, he said.I think [The Science World Facebook page] post a science video every day and normally they get between 10,000 and 13,000 views. This time they got 1,000 times more.Speaking about possible sequels to the clip he said: "What you see in the current video is everything at the same time ... but you don't see how things change over time."I could make a new video that shows you how all these things evolve in time." Space05 August 2016 We get it. The Universe is epic, vast, and unknowable, and Earth is tiny. There are black holes billions of times more massive than our Sun,which is also huge in its own right, but it's just one of the hundreds of billions of stars in our galaxy alone.But the more you hear the "Space is big and you're not" thing, it just starts to feel like words. Because how are you supposed to get agrip on just how big the Universe is,when everything's measured in light-years - which are,you know,9,461,000,000,000 km (5,878,000,000,000 miles) each?Don't worry, YouTube's morn1415 is here to help with this incredibly awesome video, which shows the planets and moons of our Solar System and beyond to scale, plus all the different stars that you've probably never heard of, let alone knew how humungous they are. (Our favourite one is called Betelgeuse).That's all cool and fascinating, but things get reallyinteresting when the video takes a giant step back, and starts to show you the scale of our MilkyWay galaxy in light-days and light-years, and then the scale of all the other galaxies, and then out into the cosmic web of galaxies, which is about 5.7 billion light-years across, nbd.Seriously, if you don't have a borderline existential crisis while watching this, you're made of stronger stuff than us.H/T: Gizmodo Home Shows Games Quizzes Watch Join In Newsround How big is space? Space is really big. Thinking about our solar system, lets imagine you could get in a car and drive to Pluto at highway speeds. It would take you about 6,000 years to get there. When we start to think about other stars outside of our solar system, we need to think aboutanother unit of distance. This is why astronomers use the unit light-years. Light travels at 186,000 miles per second. One light year is about 6 trillion miles. The closest star to our Sun is about four light years away. Our own Milky Way galaxy is about 100,000 light-years across. We know from deep field images of the universe that there are hundreds of billions, perhaps a trillion other galaxies. Using some of the deepest images yet from the James Webb Space Telescope, weve been able to see galaxies that emitted their light about 13 and a half billion years ago. Now, heres a really important thing. Because the universe is expanding, those most distant galaxies are actually much further away than 13 and a half billion light years. Im glossing over some math here, but we can estimate that the observable universe is about 92 billion light-years across. But were pretty sure that the universe is even bigger than what we can see. And heres where things get really weird, we dont actually know if the universe is finite or infinite. As much as weve learned about the universe, science has no reliable estimate of the actual size of the entire universe. [END VIDEO TRANSCRIPT] Full Episode List Full YouTube PlaylistScale of Universe is an interactive experience to inspire people to learn about the vast ranges of the visible and invisible world. Click on objects to learn more. Use the scroll bar to zoom in and out. A new website called "The Size of Space" illustrates how incomprehensibly vast the cosmos are.As you scroll to the side, the site takes you on a journey from the size of an astronaut all the way up to the entire observable universe. As the scale ramps up, from spacecraft to moons to planets and onward, the smaller objects become tiny dots before vanishing altogether.Close UpNeal Agarwal, the coder behind The Size of Space who's also built pages like "Grandpa's Art Show" and "Share This Page," used some of the best visualizations for each of the objects a rotating Earth based on satellite imagery, for example.That means that most of the black holes are simply hand-drawn circles mixed in among the colorful images of distant galaxies and supernovas. Except, that is, for the giant black hole M87*, which was imaged earlier this year.More on space visualizations: NASA's New Black Hole Simulation Will Completely Melt Your Brain

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