











Where do we fit into the Universe? How does the Universe change and evolve? What makes up the Universe?





The United Kingdom



Europe







– To the edge of the Solar System: 29,334 years



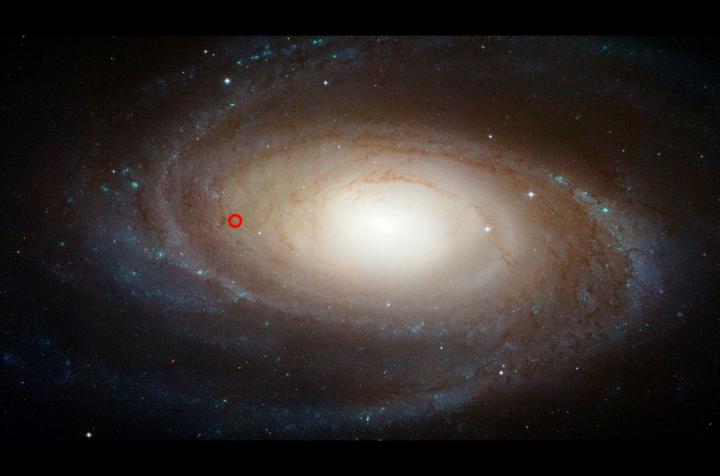
### At the speed of light:

- Southampton to New York: 0.018 seconds
- Earth to the Moon: 1.28 seconds
- Earth to the Sun: 8.3 minutes
- To the edge of the Solar System: 13.4 hours

### 1 Light Year (ly):

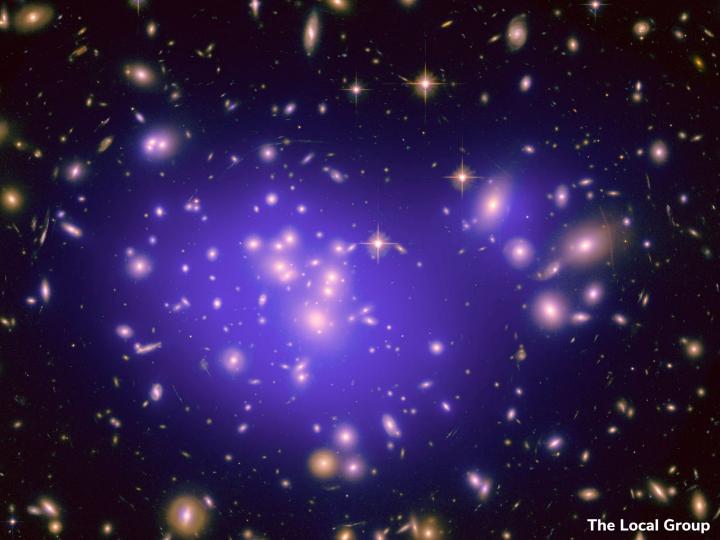
The distance light travels in 1 year

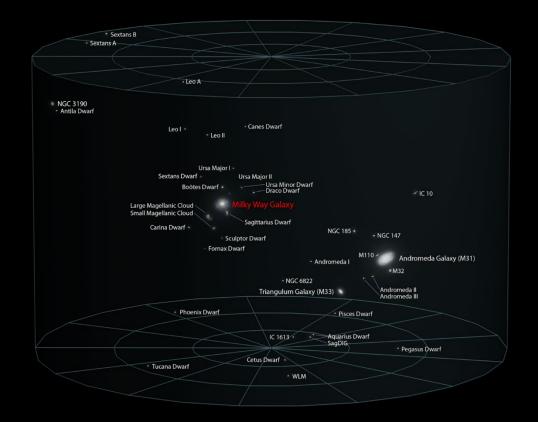
5,878,625,373,184 miles 9,460,528,410,000 km





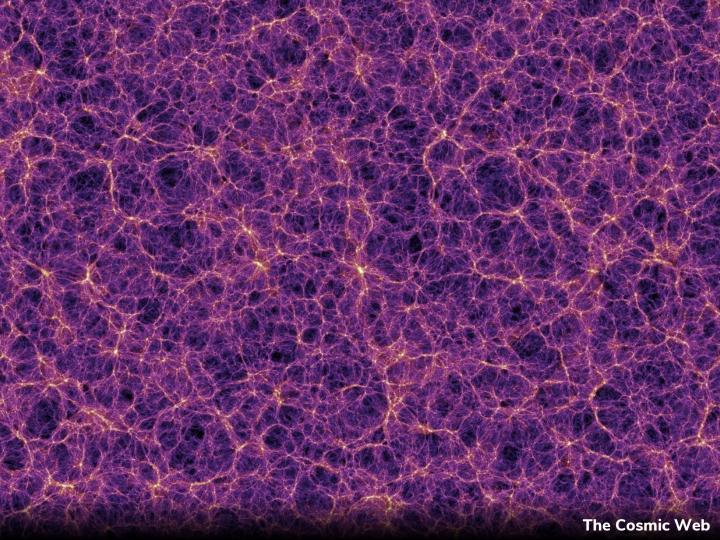


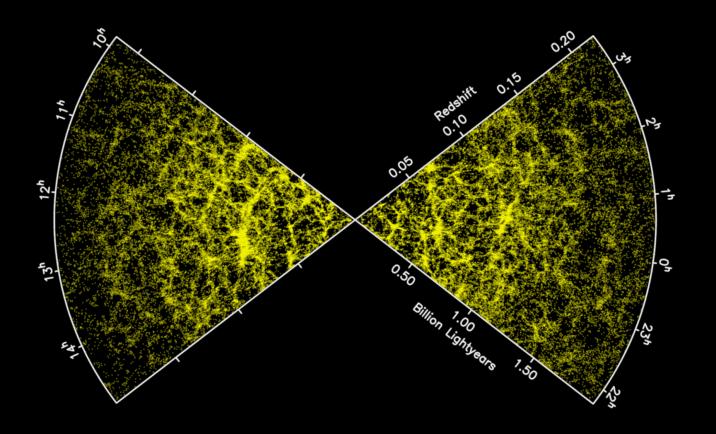




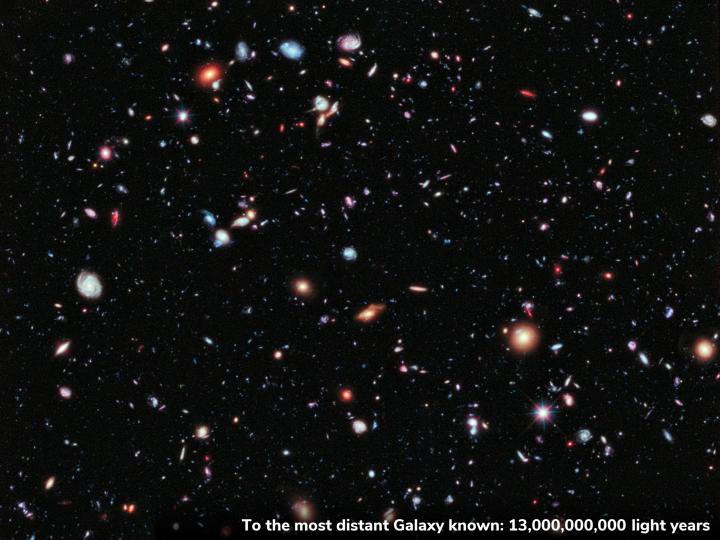


To the Andromeda Galaxy: 2,538,000 light years





The Cosmic Web/The Universe



### So just where are we?



#### **Earth Address**

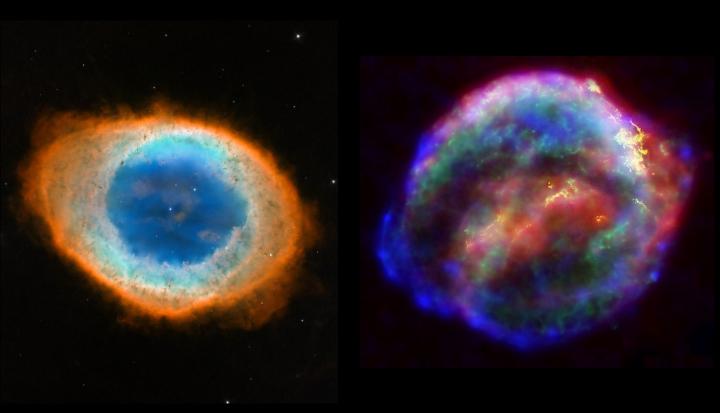
Cunard Line,
Southampton,
Hampshire,
United Kingdom,
Europe,
The Earth

#### **Universe Address**

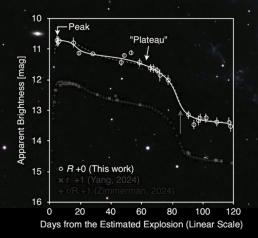
Cunard Line, The Earth, The Solar System, The Milky Way, The Local Group, The Universe



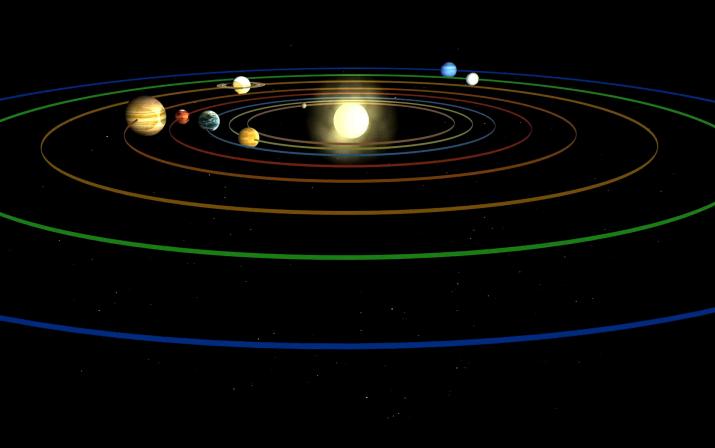




Galaxy M101 April 21, 2023



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alpha Persei Orion Pleiades







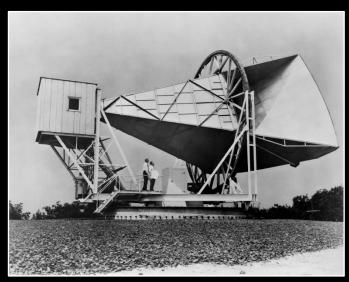


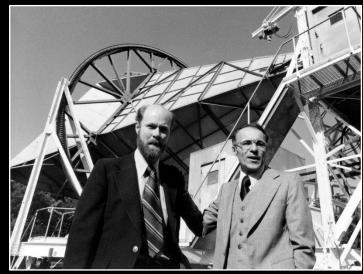


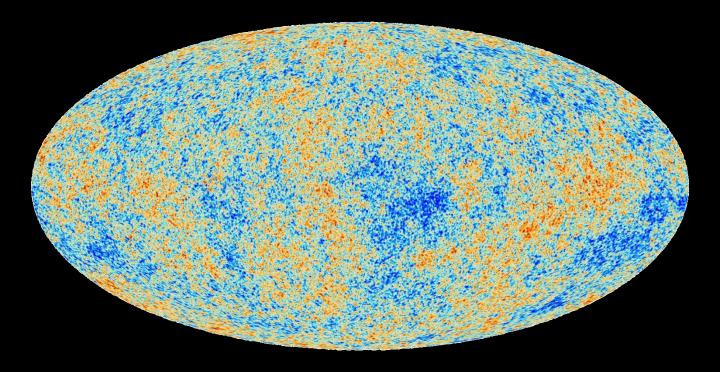




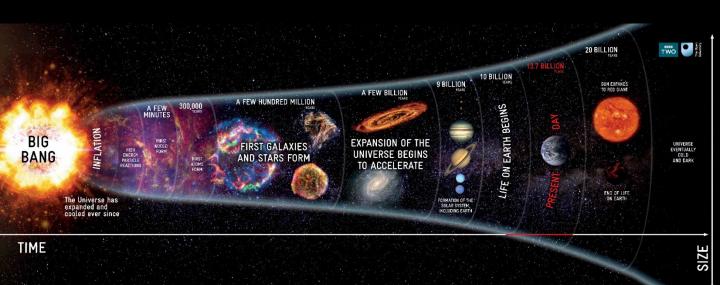
# The Cosmic Microwave Background







## The Big Bang



# The Universe of Today

