



# How big is our solar system compared to the galaxy

Parts-per-million chart of the relative mass distribution of the Solar System, each cubelet denoting  $2 \times 10^{24}$  kg. This article includes a list of the most massive known objects of the Solar System and partial lists of smaller objects by observed mean radius. These lists can be sorted according to an object's radius and mass and, for the most massive objects, volume, density, and surface ...

Our Sun is in a small, partial arm of the Milky Way called the Orion Arm, or Orion Spur, between the Sagittarius and Perseus arms. Our solar system orbits the center of the galaxy at about 515,000 mph (828,000 kph). It takes about 230 ...

Facts About the Sun. The Sun is the largest object in the Solar System and contains about 99.866% of the total mass of this system. The other 0.134% of the Solar System mass is contained mostly in Jupiter, while the other seven planets contain the remaining mass.

Our solar system's largest planet is an average distance of 484 million miles (778 million kilometers) from the Sun. That's 5.2 AU. Jupiter is the largest of the planets, spanning nearly 1.75 millimeters in diameter on our football field scale. Jupiter's diameter is about equal to the thickness of a U.S. quarter in our shrunken solar system.

The solar system is the smallest when it is compared with the size of a galaxy and the Universe. Most of the hundreds of billions of stars in our galaxy are thought to have planets of their own ...

The Milky Way Galaxy, which contains our solar system, is home to hundreds of billions of stars, and is just one of the vast number of galaxies scattered throughout the universe. The universe encompasses everything in existence, ...

How big is our galaxy. The Milky Way Galaxy is an average sized galaxy. It is about 100,000 light years in diameter and contains about 200 billion stars. Our sun is just one of those stars and it lies about 27,000 light years from the center of our galaxy. ... Size of our solar system in comparison to other universes. In our solar system, Earth ...

Mars, the red planet, is the seventh largest planet in our solar system. Mars is about half the width of Earth, and has an equatorial diameter of about 4,221 miles (6,792 kilometers). Mars is the fourth planet from the Sun, orbiting at an average distance of 141.6 million miles (227.9 million kilometers).

Our solar system consists of our star, the Sun, and everything bound to it by gravity - the planets Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune; dwarf planets such as ...

The Milky Way is huge compared with the solar system. If the solar system were the size of your hand, the



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Milky Way would be as big as North America, according to NASA Jet Propulsion Laboratory's ...

Our home galaxy is called the Milky Way. It's a spiral galaxy with a disk of stars spanning more than 100,000 light-years. Earth is located along one of the galaxy's spiral arms, about halfway from the center. Our solar system takes ...

The Solar System [d] is the gravitationally bound system of the Sun and the objects that orbit it. [11] It formed about 4.6 billion years ago when a dense region of a molecular cloud collapsed, forming the Sun and a protoplanetary disc. The Sun is a typical star that maintains a balanced equilibrium by the fusion of hydrogen into helium at its core, releasing this energy from its ...

The Milky Way, our celestial home, has fascinated astronomers for centuries. It is a vast galaxy, a large system that includes stars, gas (predominantly hydrogen), dust and dark matter, all bound together by gravity. ...

From our vantage point on Earth, the Sun may appear like an unchanging source of light and heat in the sky. But the Sun is a dynamic star, constantly changing and sending energy out into space. The science of studying the Sun and its influence throughout the solar system is called heliophysics. The Sun is [...]

Our home galaxy is called the Milky Way. It's a spiral galaxy with a disk of stars spanning more than 100,000 light-years. Earth is located along one of the galaxy's spiral arms, about halfway from the center. Our solar system takes about 240 million years to orbit the Milky Way just once.

Our solar system is so big it is almost impossible to imagine its size if you use ordinary units like feet or miles. The distance from Earth to the Sun is 93 million miles (149 million kilometers), but the distance to the farthest planet Neptune is nearly 3 billion miles (4.5 billion kilometers).

It's so big that all the other planets in the Solar System could fit inside it. Earth could fit inside Jupiter 1,300 times. The Sun. The Sun is a moderately-sized star with a diameter of about 1.4 million km. It is by far the most massive object in the Solar System, containing 99.8% of all the Solar System's mass.

The Milky Way, our celestial home, has fascinated astronomers for centuries. It is a vast galaxy, a large system that includes stars, gas (predominantly hydrogen), dust and dark matter, all bound together by gravity. As we navigate through the cosmos, an intriguing enigma emerges: What is the Milky Way truly like?

How Big Is The Solar System Compared To Milky Way? Our solar system is incredibly small compared to the Milky Way. The Milky Way is a whopping 587 trillion light-years across, which means that you could travel across our entire solar system 53,000 times and still not equal one trip across the Milky Way.

The Solar System is large, on the order of 200,000 AU or 3.2 light years across, but that does not compare to



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the size of our galaxy at 100,000 light years across! To address this comparison one needs to define the size of the Solar System.

In a planet size comparison, Earth is the third planet closest to the Sun and the fifth biggest in our solar system. In a planet size comparison, Earth's equatorial circumference is 24,901 miles (40,075 kilometers), and its diameter is 7,926 miles (12,756 kilometers).

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