

# The closest planet to the earth

What is the closest planet to Earth in 2024?

For example, when this article was written (January 2024), the closest planet to Earth was Mercury. But in around eight months, Venus will be the closest planet to us, and in another two months or so, Mars will have surpassed Venus as our closest neighbor. However, less than a month later Venus will have wrestled back the title.

Which planet is closest to the Sun?

Mercury is the closest planet to the Sun, orbiting at an average distance of 36 million miles (58 million kilometers). Mercury is 57 million miles closer to the Sun than Earth. Pluto is the largest dwarf planet in our solar system, just slightly larger than Eris, at number two.

Which planet is closest to Earth?

But in around eight months, Venus will be the closest planet to us, and in another two months or so, Mars will have surpassed Venus as our closest neighbor. However, less than a month later Venus will have wrestled back the title. Which planet is closest to Earth on average? This is where things get really interesting.

Is Venus the closest planet to Earth?

But as an article in Physics Today points out, over half the time Venus is not the nearest planet; Mercury is. In fact, the scientists behind the article crunched the numbers and found that on average, Mercury is the closest planet not only to Earth but to every other planet in the solar system as well. Trippy.

Is Mercury closest to Earth?

While it is interesting that Mercury is closest to Earth (and all the other planets) on AVERAGE, that fact doesn't address the most significant issue we mean by "closeness" of a neighboring planet, which is the closest approach of a neighboring planet and the access we might have to a neighboring planet due to that closeness.

Which planets are closest to each other?

Further, Mercury is the closest neighbor, on average, to each of the other seven planets in the solar system. To calculate the average distance between two planets, The Planets and other websites assume the orbits are coplanar and subtract the average radius of the inner orbit,  $r_1$ , from the average radius of the outer orbit,  $r_2$ .

While Earth is only the fifth largest planet in the solar system, it is the only world in our solar system with liquid water on the surface. Just slightly larger than nearby Venus, Earth is the biggest of the four planets closest to the Sun, all of which are made of rock and metal. Namesake. Namesake. The name Earth is at least 1,000 years old.

If we look at the average distance between the orbits of two planets, then Venus is the closest planet to Earth,

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with an average distance of about 108 million km. Mars is the second closest, with ...

The nearest planet to the Earth is Mercury. For a long time, Venus was thought to be the closest planet to Earth. However, Venus is only the nearest planet when it falls between the Earth and the Sun during its course of revolution. When Venus is on the other side of the orbit than Earth, Mercury for the most part is estimated to be the nearest ...

Our solar system is made up of a star--the Sun--eight planets, 146 moons, a bunch of comets, asteroids and space rocks, ice, and several dwarf planets, such as Pluto. The eight planets are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune. Mercury is closest to the Sun. Neptune is the farthest.

Mercury is the closest planet to the Sun, orbiting at an average distance of 36 million miles (58 million kilometers). Mercury is 57 million miles closer to the Sun than Earth. Explore Mercury

Which planet is closest to Earth in terms of distance? New findings show that considering the average distance, Mercury is the nearest planet to Earth; considering the smallest possible distance ...

The Earth is 93 million miles from the sun. The nearest planet to Earth is Venus, which orbits at a distance of 67 million miles and sometimes passes within 26 million miles of Earth. Venus is extremely hot because of its carbon-dioxide rich atmosphere and has been ruled out as a candidate for life.

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There's a range of around 223 million kilometers between Venus' farthest and closest points from the Earth. Although Venus comes the closest, Mercury stays closer to Earth for a lot longer than the previously mentioned planet. Mercury only gets within around 77 million kilometers when at its closest to Earth, however, it stays closest for a ...

Because of where the planets are on these orbital paths, and specifically the time it takes Mercury to orbit the sun, Mercury is the planet that is closest to Earth more often and has an average distance to Earth that is lower than the other 2 inner planets. Mars is occasionally the closest as well, but on average much further than Mercury or ...

The distance among each of the eight planets in our Solar System will alter depending on where each planet is in its orbit revolution. ... The Astronomical units (AU) column is the average distance between Earth and the Sun and is the most common way for scientists to measure distance in our Solar System. Below is a table of the distances ...

Mercury is the closest planet to the sun and the smallest planet in the solar system. Here we explore the strange world in more detail. ... It is the second densest planet after Earth, with a huge ...

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Mercury formed about 4.5 billion years ago when gravity pulled swirling gas and dust together to form this small planet nearest the Sun. Like its fellow terrestrial planets, Mercury has a central core, a rocky mantle, and a solid crust. ... Structure. Mercury is the second densest planet, after Earth. It has a large metallic core with a radius ...

The closest planet to the Earth should be either the previous planet (Venus), or the following (Mars) Look up the mean radii of these planets orbits To find the average distance between Earth & Mars and Earth & Venus, subtract the smaller radius from the bigger one for each pair

Solar system. There are eight planets in our solar system. Starting from the nearest to the sun, the order of the planets in the solar system is Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune.. Mercury is the closest planet to the sun.

The three planets thought to be orbiting it are the nearest extrasolar planets to Earth. Proxima Centauri, in the Alpha Centauri system, is the closest star to the Sun, at about 4.2 light-years away. ... Proxima Centauri b, c, and d. These are the closest planets outside the solar system. Since red dwarf stars are relatively small and cool, ...

This is the closest planet to Earth. The answer is simple: Mercury is the closest planet to Earth. This small rocky world orbits the Sun at an average distance of about 57.9 million kilometres, making it our blue planet's closest neighbour. Although it is the closest, it often goes unnoticed compared to its larger, more conspicuous neighbours.

Venus is the second planet from the sun and the closest planet to Earth. Venus orbits the sun at an average distance of 0.722 AU, equating to 67-million miles on average. The orbit of Venus causes it to drift between 66 to 68-million miles from the sun. Earth is the third planet from the sun at an average distance of one AU. Scientists base ...

Asking which planet is the closest to Earth is actually something of a trick question - the closest planet to Earth can change depending on the day, month, or even year. Rather than stating a time frame to describe when a given planet will be closest to our own planet, it is actually most accurate to describe a position that would indicate ...

How to Use the Planet Chart. Using the four buttons at the top, select either Distance from the Sun, Distance from the Earth, Size in the Sky, or Brightness to control how the planets are displayed.; Press the Play button at the bottom of the chart to make time move in fast forward mode. You can also move backward and forwards in time by sliding the hand cursor along the ...

Indeed, they found that Mercury was the planet closest to the Earth for the most time, on average--and to every other Solar System planet. Pluto's inclined and eccentric orbit does not work ...

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In fact, Mercury is just a little larger than Earth's Moon. Distance from the Sun: Mercury is the closest planet to our star, with its average distance from the Sun being 36 million miles (58 ...

Or you could order the planets by weight (mass). Then, the list from most massive to least massive would be: Jupiter ( $1.8986 \times 10^{27}$  kilograms), Saturn ( $5.6846 \times 10^{26}$  kg), Neptune ( $10.243 \times 10^{25}$  kg), Uranus ( $8.6810 \times 10^{25}$  kg), Earth ( $5.9736 \times 10^{24}$  kg), Venus ( $4.8685 \times 10^{24}$  kg), Mars ( $6.4185 \times 10^{23}$  kg), and Mercury ( $3.3022 \times 10^{23}$  kg). Interestingly, ...

Well, again, the answer to that is not exactly straightforward, as it tends to change. Sometimes, Mars is the closest planet to Earth. The closest that Mars comes to Earth in its orbit is 33.9 million miles away from it. In order to get an answer that is not subject to change, we must look at what planet is closest to the Earth on average.

UNSW Australia astronomers have discovered the closest potentially habitable planet found outside our solar system so far, orbiting a star just 14 light-years away. ... 4.3 and 5.2 times that of Earth, respectively. The larger outer planet falls just outside the outer boundary of the habitable zone and is also likely to be rocky, while the ...

In such cases, Mercury may become the closest planet, with distances ranging from 82 to 217 million kilometers. Mercury is the nearest planet to Earth in this position. Its distance is shortened to 82 million kilometers. As can be observed, the situation is not entirely clear-cut to assert with confidence that Venus is the closest planet to Earth.

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