

Nearest galaxy to our solar system





Overview

This is a list of known galaxies within 3.8 megaparsecs (12.4 million light-years) of the Solar System, in ascending order of heliocentric distance, or the distance to the Sun. This encompasses about 50 major Local Group galaxies, and some that are members of neighboring galaxy groups, the M81 Group and the.

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- Belokurov, V.; et al. (2006). "A Faint New Milky Way Satellite in Bootes". *The Astrophysical Journal*. 647 (2): L111-L114. .: .: .: • Dolphin, A.

Which star system is closest to Earth?

Our closest neighboring stars are all part of the same solar system: Alpha Centauri. This triple star system – consisting of Proxima Centauri, Alpha Centauri A, and Alpha Centauri B – attracts a lot of interest because it hosts planets, including one that may be similar to Earth.

Which galaxy is closest to the Sun?

The Sagittarius Dwarf Elliptical Galaxy is the next closest , at 662,000,000,000,000,000 km (70,000 light years) from the Sun. The Large Magellanic Cloud, 1,690,000,000,000,000,000 km (179,000 light years) away, was once considered the nearest galaxy outside of the Milky Way.

Which galaxies are closest to ours?

Imagine the Universe! The Large and Small Magellanic clouds were thought to be the closest galaxies to ours, until 1994, when the Sagittarius Dwarf Elliptical Galaxy (SagDEG) was discovered. In 2003, the Canis Major Dwarf Galaxy was discovered - this is now the closest known galaxy to ours!.

Which galaxy is closest to the Milky Way?

M31, also well-known as the Andromeda Galaxy, is the nearest major galaxy to our own, the Milky Way. Assembled from a total of 7,398 exposures taken over 411 individual pointings of the telescope, this image of our nearest major



galactic neighbor, M31, is the largest Hubble mosaic to date.

Which star is closest to Earth?

The closest system is Alpha Centauri, with Proxima Centauri as the closest star in that system, at 4.2465 light-years from Earth. The brightest, most massive and most luminous object among those 131 is Sirius A, which is also the brightest star in Earth's night sky; its white dwarf companion Sirius B is the hottest object among them.

Why is Proxima the closest star to the Sun?

That's because it's part of the Alpha Centauri system, the closest star system to our sun. Alpha Centauri consists of three known stars (including Proxima). Of the three, Proxima is closest, at 4.2 light-years away. Alpha Centauri appears as the 3rd-brightest star in Earth's sky. But Proxima is too faint to see with the eye.



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The Allure of Proxima Centauri, the Closest Star to Ours

Unlike its two sibling stars in Alpha Centauri, Proxima is not like the sun. It is smaller, cooler, and dimmer. But it does have at least two planets. One of them, known as ...

Alpha Centauri, the star system closest to our sun

In fact, at 4.25 light-years away, Proxima is the closest-known star to our solar system. Help! EarthSky needs your support to continue. Our yearly crowd-funding campaign is going on now. [Donate here.](#)



Milky Way Galaxy , Size, Definition, & Facts , Britannica

3 ???· Milky Way Galaxy (sometimes simply called the Galaxy), large spiral system of about several hundred billion stars, one of which is the Sun. It takes its name from the Milky Way, the irregular luminous band of stars and gas clouds that stretches across the sky as

In Depth , Our Solar System - NASA Solar System Exploration

Introduction The planetary system we call home is located in an outer spiral arm of the Milky Way galaxy. 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



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Proxima Centauri, the closest star to our sun

All of these nearby stars - Proxima, Alpha Centauri A and B, and our sun - orbit together around the center of our Milky Way galaxy. Read more: [Where is Proxima Centauri?](#)

Our Nearest Neighbors -- Google Arts & Culture

Earth and our Solar System lie within a spiral galaxy called the Milky Way. The next big galaxy across from the Milky Way is also a spiral galaxy, called Andromeda. The Andromeda Galaxy with its bigger volume contains about twice the number of stars as the Milky Way.



- High energy density and long cycle life
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Imagine the Universe!

(For comparison, our galaxy is 100,000 light years across.) The SagDEG is on the other side of the Milky Way from the Sun, about 70,000 light years away. It is 50,000 light years away from the center of the Milky Way - it is so close to us, that some of the SagDEG's stars are actually in the outermost regions of the Milky Way!



The Andromeda galaxy: All you need to know

Closest spiral galaxy: Andromeda is the nearest spiral galaxy to our own Milky Way galaxy.
Visible without a telescope: It can be seen with the unaided eye on clear, dark nights. Large size: The



15.1 The Milky Way Galaxy , Beyond the solar system

Our solar system is a pretty big place. Our nearest neighbour, the Moon, is on average 384 400 kilometres away, and the closest to us that our nearest planet Venus gets is about 42 million kilometres. The Sun is about 150 million kilometres away and the

Solar system planets, order and formation -- a guide , Space

The sun is by far the largest object in our solar system, containing 99.8% of the solar system's mass. It sheds most of the heat and light that makes life possible on Earth and possibly elsewhere.



Our Sun: Facts

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 [...]



Astronomers Make Thrilling New Planet Discovery Near our Solar System

Astronomers have discovered a new planet, Barnard b, orbiting Barnard's star, just six light-years away. Using advanced instruments, the planet was confirmed to be a low-mass, rocky world that



Alpha Centauri , Distance, Planets, & Facts , Britannica

Ask the Chatbot a Question Ask the Chatbot a Question Alpha Centauri, triple star system, the faintest component of which, Proxima Centauri, is the closest star to the Sun, about 4.2 light-years distant. The two brighter ...

The nearest star system , NASA Jet Propulsion Laboratory (JPL)

NASA's Jet Propulsion Laboratory, the leading center for robotic exploration of the solar system. Alpha Centauri is the nearest star system. Distance from Earth 4,365 al (40 000 billion kilometers. The Sun (yellow star) distance from Earth 150 000 000 km, the



[Nearest Stars to Earth , Star Facts](#)

The nearest stars to the Sun include some of the brightest stars in the sky, but the majority of the 100 nearest stars are faint red dwarfs, like our nearest neighbour Proxima Centauri. Rigil Kentaurus and Toliman The Alpha Centauri system is the third brightest point of light in the sky. is the third brightest point of light in the sky.



Andromeda Galaxy: Facts about our closest galactic ...

The Andromeda galaxy is the most distant object in the sky that you can see with your unaided eye. It's also on a collision course with our Milky Way. Andromeda and the Milky Way are slowly



What is the nearest galaxy to our solar system? , Socratic

Andromeda galaxy which is 22.5 million light years away. Explanation: There are two small satellite galaxies >but they are only satellite Galaxies only Large and small Magellanic clouds. Answer link Related questions Is the word "universe" supposed to

Solar System Exploration

The solar system has one star, eight planets, five dwarf planets, at least 290 moons, more than 1.3 million asteroids, and about 3,900 comets. We mean waaaay out there in our solar system - where the forecast might not be quite ...



Solar System Facts

Our planetary system is called "the solar system" because we use the word "solar" to describe things related to our star, after the Latin word for Sun, "solis." 2. Our solar system orbits the center of the Milky Way galaxy at about 515,000 ...



How Long Would It Take To Travel To The Nearest Star?

Current Methods: The question of how long would it take to get somewhere in space is somewhat easier when dealing with existing technology and bodies within our Solar System. For instance, using



[Messier 31 \(The Andromeda Galaxy\)](#)

Assembled from a total of 7,398 exposures taken over 411 individual pointings of the telescope, this image of our nearest major galactic neighbor, M31, is the largest Hubble mosaic to date. The 1.5 billion pixels in the mosaic reveal over ...



Alpha Centauri

Alpha Centauri (? Centauri, ? Cen, or Alpha Cen) is a triple star system in the southern constellation of Centaurus consists of three stars: Rigil Kentaurus (? Centauri A), Toliman (? Centauri B), and Proxima Centauri (? Centauri C). [14] Proxima Centauri is the closest star to the Sun at 4.2465 light-years (1.3020 pc).



The Milky Way Galaxy

Our Solar System is about 25,000 light years away from the center of our galaxy - we live in the suburbs of our galaxy. Just as the Earth goes around the Sun, the Sun goes around the center of the Milky Way. It takes 250 million years for our Sun and the solar



Alpha Centauri: Facts about the stars next door , Space

According to the SIMBAD Astronomical database operated by the University of Strasbourg, Alpha Centauri will be at its closest point to our solar system in around 30,000 ...



Milky Way galaxy: Facts about our cosmic neighborhood , Space

Our home galaxy's disk is about 100,000 light-years in diameter and just 1000 light-years thick, according to Las Cumbres Observatory. Just as Earth orbits the sun, the solar system orbits the



[A New Map of the Milky Way](#)

A New Map of the Milky Way. High-resolution surveys chart the spiral structure of the galaxy and the location of our solar system. By Mark J. Reid & Xing-Wu Zheng. Ron Miller. April 2020



Solar System

The Solar System [d] is the gravitationally bound system of the Sun and the objects that orbit it. [11] The planets and other large objects in orbit around the Sun lie near the plane of Earth's orbit, known as the ecliptic. Smaller icy ...



The Nearest Stars to Earth (Infographic) , Space

G-type stars like our sun, also called yellow dwarf stars, typically have about 0.9 to 1.1 solar masses with surface temperatures that can range from about 9,080 degrees Fahrenheit (5,026 degrees



Planets in Order From the Sun , Pictures, Facts, and Planet Info

Our planetary system is the only official solar system in the Universe, but astronomers continue to find thousands of other stars with planets orbiting them in our galaxy. Without the sun's gravity, every planet and object in the solar system would drift randomly into space.

Imagine the Universe!

The closest known galaxy to us is the Canis Major Dwarf Galaxy, at 236,000,000,000,000 km (25,000 light years) from the Sun. The Sagittarius Dwarf Elliptical Galaxy is the next closest, at ...



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