

# Andromeda galaxy solar system





## Overview

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The Andromeda Galaxy is visible to the naked eye in dark skies. Around the year 964 , the astronomer described the Andromeda Galaxy in his as a "nebulous smear.

The estimated distance of the Andromeda Galaxy from our own was doubled in 1953 when it was discovered that there is a second, dimmer type of . In the 1990s, measurements of both standard.

The Andromeda Galaxy is a barred spiral galaxy and is the nearest major galaxy to the Milky Way. It was originally named the Andromeda Nebula and is cataloged as Messier 31, M31, and NGC 224. Andromeda has a D25 isophotal diameter of about 46.56 kiloparsecs (152,000 light-years) and is approximately 765 kpc.

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Based on its appearance in visible light, the Andromeda Galaxy is classified as an SA(s)b galaxy in the .

There are approximately 460 associated with the Andromeda Galaxy. The most massive of these clusters, identified as , nicknamed Globular One, has a greater luminosity than any other known globular cluster in the .

The Andromeda Galaxy is approaching the Milky Way at about 110 kilometres (68 miles) per second. It has been measured approaching relative to the Sun at around 300 km/s (190 mi/s) as the.

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Apparently, by late 1968, no had been detected from the Andromeda Galaxy. A balloon flight on 20 October 1970, set an upper limit for detectable hard X-rays from the.

Like the Milky Way, the Andromeda Galaxy has smaller , consisting of over 20 known . The Andromeda Galaxy's dwarf galaxy population is very similar to the Milky Way's, but the galaxies are much more numerous. The best.



## Andromeda galaxy solar system

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### Hubble's High-Definition Panoramic View of the Andromeda Galaxy

The largest NASA Hubble Space Telescope image ever assembled, this sweeping bird's-eye view of a portion of the Andromeda galaxy (M31) is the sharpest large ...

### Solar System Scope

Online 3D simulation of the Solar System and night sky in real-time - the Sun, planets, dwarf planets, comets, stars and constellations We've launched new Solar System Scope: SPACE SHOP - to bring you your own SOLAR SPACE GEAR. Btw by purchasing



### [The Andromeda Galaxy . All You Need to Know](#)

The Andromeda Galaxy, our nearest large galactic neighbor, is a mysterious world of intrigue. At about 2.5 million light years from Earth, it appears as a faint, smudgy blob in our sky. But don't let its unimpressive appearance fool you - ...

### Andromeda Galaxy

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### **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

### **Andromeda Galaxy , Description, Location, Distance, & Facts**

Andromeda Galaxy, great spiral galaxy in the constellation Andromeda, the nearest large galaxy. It is one of the few visible to the unaided eye, appearing as a milky blur. ...



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### **The Milky Way Facts , Size, Information, History & Definition**

The Milky Way galaxy and the Andromeda galaxy are a binary system of giant spiral galaxies belonging to a group of 50 closely bound galaxies known as the Local Group. The Local Group is surrounded by a Local Void, itself being part of the Virgo Supercluster of galaxies.



### 14.10: Andromeda Galaxy

One of the questions at the time was the location of our Solar System within the Milky Way Galaxy. Harlow Shapley (1885-1972) used globular clusters to show where we "live" in our galaxy.



### Andromeda Galaxy

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### 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



### Solar System, Galaxy, Universe: What's the Difference?

On that scale with our Solar System in your hand, the Milky Way Galaxy, with its 200 - 400 billion stars, would span North America (see the illustration on the right). Galaxies come in many sizes. The Milky Way is big, but some galaxies, like our Andromeda is





## NASA's Hubble Shows Milky Way is Destined for ...

It is likely the sun will be flung into a new region of our galaxy, but our Earth and solar system are in no danger of being destroyed. This illustration shows a stage in the predicted merger between our Milky Way ...

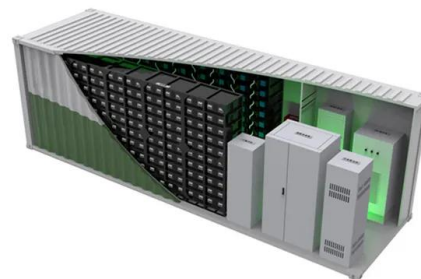


## [Messier 31 \(The Andromeda Galaxy\)](#)

The 1.5 billion pixels in the mosaic reveal over 100 million stars and thousands of star clusters embedded in a section of the pancake-shaped disk of M31, also known as the Andromeda Galaxy. Though the galaxy is over 2 million light-years away, Hubble is powerful enough to resolve individual stars in this 61,000-light-year-long stretch of the disk.

## October's Night Sky Notes: Catch Andromeda Rising!

And so, the Andromeda Nebula became known as the Andromeda Galaxy. This illustration shows the location of the 43 quasars scientists used to probe Andromeda's gaseous halo. These quasars--the very distant, brilliant cores of active galaxies powered by black holes--are scattered far behind the halo, allowing scientists to probe multiple regions.



## Is it true that our solar system belongs to another galaxy which

It turns out that our solar system appears to belong to another galaxy that is colliding with the Milky Way. The most significant collision will take place in about 3 billion years when the Andromeda galaxy and our galaxy collide. However, when galaxies Very



### 15.10: Andromeda Galaxy

In 1917, Heber Curtis (1872-1942) was observing a nova in the Andromeda "nebula." Researching previous novae, including those in the Milky Way Galaxy, Curtis was convinced that Andromeda was indeed a galaxy much like the Milky Way Galaxy, and that the



### How Many Planets Are in The Andromeda Galaxy?

How Many Solar Systems are there in the Andromeda Galaxy? With over a trillion stars in Andromeda galaxy, it's almost certain that many of them possess sun-like features, making it highly likely that they also host their own planets. While we can't say with



### Are the Andromeda and Milky Way galaxies already merging?

Likness in Newport, Oregon, captured this telescopic view of the Andromeda galaxy on July 9, 2024 technique used to speed up spacecraft in the solar system. The probes pass near large planets





[Andromeda-Milky Way collision](#)

The Andromeda-Milky Way collision is a galactic collision predicted to occur in about 4.5 billion years between the two largest galaxies in the Local Group--the Milky Way (which contains the Solar System and Earth) and the Andromeda Galaxy.



**Andromeda Galaxy Facts**

The Andromeda Galaxy (M31) is the closest large galaxy to the Milky Way and is one of a few galaxies that can be seen unaided from the Earth. In approximately 4.5 billion years the Andromeda Galaxy and the Milky Way are expected to collide and the result will



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**The Andromeda Galaxy , Images, Facts & Astrophotography Tips**

The Andromeda Galaxy is a large spiral galaxy located about 2.5 million light-years away from Earth. It is the largest galaxy in the local group, which also contains the Triangulum Galaxy . Cataloged as Messier 31 (M31), this deep sky object is observable for much of the year in the northern hemisphere, lying in the constellation Andromeda, next to Cassiopeia.

**galaxy**

It is said that the Andromeda and Milky Way galaxies are coming close to each other with a speed of approximately 400000 Will we be able to get the something like Earth to go away from this galaxy/Earth/ solar system and, considering speed of human life





### Andromeda Galaxy

Andromeda, also known as Messier 31 (M31), is a spiral galaxy located about 2.5 million light years away. It is thought that the Milky Way and Andromeda will collide several billion years from now. The black holes located in both galaxies will then reside in the large, elliptical galaxy that results from this merger.

### Large Scale Structures

Large Scale Structures The nearly 10,000 galaxies captured in the Hubble Ultra Deep Field may look like they're randomly scattered across the sky. But galaxies, including the Milky Way, are often part of larger structures and superstructures ...



### Where Are We In The Milky Way , Milky Way Facts

The Milky Way is 105,700 light-years wide while the Andromeda Galaxy is 220,000 light-years in width. Well, there is only one Solar System in our galaxy, as only ours is officially called so. But astronomers have found more than 3,200 other stars with in the

### Andromeda

Moreover, the total mass estimates of Andromeda range from about 800 billion solar masses up to 1.5 trillion solar masses, with uncertainties due to different calculation techniques. Notably, Andromeda's mass is found to be approximately 800 billion times the mass of the Sun, making it comparable in mass to our Milky Way galaxy.





[News & Resources , Night Sky Network](#)



On that scale with our Solar System in your hand, the Milky Way Galaxy, with its 200 - 400 billion stars, would span North America (see the illustration on the right). Galaxies come in many sizes. The Milky Way is big, but some galaxies, like our Andromeda Galaxy neighbor, are much larger.

**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



**Andromeda Galaxy: Facts about our closest galactic ...**

The Andromeda Galaxy, also called Messier 31 or M31, is the nearest major galaxy to the Milky Way. It is 2.5 million light years away from Earth and is the other major member of the Local

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