

Why Is Not Pluto A Planet

In modern astronomy, there are two primary conceptions of a planet. A planet can be an astronomical object that dynamically dominates its region (that is, whether it controls the fate of other smaller bodies in its vicinity) or it is defined to be in hydrostatic equilibrium (it has become gravitationally rounded and compacted). These may be characterized as the dynamical dominance definition and the geophysical definition. 94460f620d

Geography of Pluto On 14 July 2015, the New Horizons spacecraft became the first spacecraft to fly by Pluto. On 14 July 2015, the New Horizons spacecraft The geography of Pluto refers to the study and mapping of physical features across the dwarf planet Pluto. The geography of Pluto refers to the study and mapping of physical features across the dwarf planet Pluto. During its brief flyby, New Horizons made detailed geographical measurements and observations of Pluto and its moons 94460f620d

Definition of planet Pluto fulfills the first two of these criteria, but not the third and therefore does not qualify as a planet under this formalized The definition of the term planet has changed several times since the word was coined by the ancient Greeks. approaching its orbit. Over the millennia, the term has included a variety of different celestial bodies, from the Sun and the Moon to satellites and asteroids. Greek astronomers employed the term ἀστέρες πλανῆται (asteres planetai), 'wandering stars', for star-like objects which apparently moved over the sky 94460f620d

Pluto Originally considered a planet, its status was changed when astronomers adopted a new definition of the word with new criteria. It is the ninth-largest and tenth-most-massive known object to directly orbit the Sun. Pluto has roughly one-sixth the mass of the Moon and one-third of its volume. It is the ninth-largest and tenth-most-massive Pluto (minor-planet number 134340) is a dwarf planet in the Kuiper belt, a ring of bodies beyond the orbit of Neptune. Pluto

(minor-planet number 134340) is a dwarf planet in the Kuiper belt, a ring of bodies beyond the orbit of Neptune. It is the largest known trans-Neptunian object by volume by a small margin, but is less massive than Eris. Like other Kuiper belt objects, Pluto is made primarily of ice and rock and is much smaller than the inner planets 94460f620d

Dwarf planet the eight classical planets of the Solar System. The prototypical dwarf planet is Pluto, which for decades was regarded as a planet before the "dwarf" concept was adopted in 2006. The prototypical dwarf planet is Pluto, which for decades was regarded as a planet before the "dwarf" A dwarf planet is a small planetary-mass object that is in direct orbit around the Sun, massive enough to be gravitationally rounded, but insufficient to achieve orbital dominance like the eight classical planets of the Solar System 94460f620d

== Coordinate system orientation == 94460f620d Pluto debuted in animated cartoons and appeared in 24 Mickey Mouse films before receiving his own series in 1937. All together Pluto appeared in 89 short films between 1930 and 1953. Several of these were nominated for an Academy Award, including The Pointer (1939), Squatter's Rights (1946), Pluto's Blue Note (1947), and Mickey and the Seal (1948). One film starring him, Lend a Paw (1941), won the award in 1942. Like all of Mickey Mouse's co-stars, Pluto appears extensively in comics, first in 1931. He returned to theatrical animation in 1990 with... 94460f620d The issue of a clear definition for planet came to a head in January 2005 with the discovery of the trans-Neptunian object Eris, a body more massive than the smallest then-accepted planet, Pluto. In its August 2006 response, the International Astronomical Union (IAU), which is recognised by astronomers as the international governing body responsible for resolving issues of... 94460f620d Astronomers are in general agreement that at least the nine largest candidates are dwarf planets – in rough order of decreasing diameter, Pluto, Eris, Haumea, Makemake, Gonggong, Quaoar, Sedna, Ceres, and Orcus. A considerable uncertainty remains over the tenth largest candidate Salacia, which may thus be considered a borderline case. Of these ten, two have been visited by spacecraft (Pluto and Ceres) and seven others... 94460f620d is in orbit around the Sun, 94460f620d has sufficient mass to assume hydrostatic equilibrium (a nearly round shape), and 94460f620d Many planetary geologists consider dwarf planets and planetary-mass moons to be planets, but since 2006 the IAU and many astronomers have excluded them from the

roster of planets. 94460f620d The memoir is an account of the events surrounding the redefinition of the term planet that eventually changed the status of Pluto. 94460f620d One of many possibilities for the Voyager 1 spacecraft after its flyby of Saturn in 1980 was to use Saturn as a slingshot towards Pluto for a flyby as early as March 1986. However, scientists decided that a flyby of Titan during the Saturn encounter would be a more important scientific... 94460f620d

Eris (dwarf planet) It is a trans-Neptunian object (TNO) in the scattered disk and has a high-eccentricity orbit. Eris was discovered in January 2005 by a Palomar Observatory-based team led by Mike Brown and verified later that year. It is also the largest-known object in the Solar System that has not been visited by a spacecraft. Eris is the ninth-most massive known object orbiting the Sun and the sixteenth-most massive in the Solar System (counting moons). Both Eris and Pluto have a surface area that is comparable to that of Russia or South America. Eris has been measured at $2,326 \pm 12$ kilometres ($1,445 \pm 7$ mi) in diameter; its mass is 0. 27% greater than that of Pluto, although Pluto is slightly larger by volume. It was named in September 2006 after the Greco-Roman goddess of strife and discord. 28% that of the Earth and 27% greater than that of Pluto, although Pluto is slightly larger by volume. Both Eris and Pluto have a surface area that is comparable to that of Russia Eris (minor-planet number 136199) is the most massive and second-largest-known dwarf planet in the Solar System 94460f620d

== Summary == 94460f620d Dwarf planets are capable of being geologically active, an expectation that was borne out in 2015 by the Dawn mission to Ceres and the New Horizons mission to Pluto. Planetary geologists are therefore particularly interested in them. 94460f620d == Early mission proposals == 94460f620d

How I Killed Pluto and Why It Had It Coming Pluto and Why It Had It Coming is a 2010 memoir by Mike Brown, the American astronomer most responsible for the reclassification of Pluto from planet How I Killed Pluto and Why It Had It Coming is a 2010 memoir by Mike Brown, the American astronomer most responsible for the reclassification of Pluto from planet to dwarf planet 94460f620d

has "cleared the neighbourhood" around its orbit. 94460f620d The reddish-brown cap of the north pole of Charon is

composed of tholins, organic macromolecules that may be essential ingredients of life. These tholins were produced from methane, nitrogen... 94460f620d The IAU has stated that there are eight known planets in the Solar System. It has been argued that the definition is problematic because it depends on the location of the body: if a Mars-sized... 94460f620d

Charon (moon) It was discovered in 1978 at the United States Naval Observatory in Washington, D. It has a mean radius of 606 km (377 mi). It has a mean radius of 606 km (377 mi). C. , using photographic plates taken at the United States Naval Observatory Flagstaff Station (NOFS). Charon is a planetary-mass moon and the sixth-largest known trans-Neptunian object after Pluto, Eris, Haumea, Makemake, and Gonggong. Charon is a planetary-mass Charon (KAIR-on, -ən or SHARR-ən), formal designation (134340) Pluto I, is the largest of the five known natural satellites of the dwarf planet Pluto. (134340) Pluto I, is the largest of the five known natural satellites of the dwarf planet Pluto 94460f620d

Pluto has five known moons: Charon (the largest and the diameter of which is just over half that of Pluto), Styx, Nix, Kerberos, and Hydra... 94460f620d Pluto, discovered by Clyde Tombaugh in 1930, is an interesting target for planetary exploration, but Pluto presents significant challenges for exploration because of its small mass and great distance from Earth. 94460f620d

Exploration of Pluto Due to the cost, the mission was not funded, although the planetary The exploration of Pluto began with the arrival of the New Horizons probe in July 2015, though proposals for such a mission had been studied for many decades. There are no plans as yet for a follow-up mission, though follow-up concepts have been studied. spacecraft to visit all of the outer planets, including Pluto, by using gravity assists 94460f620d

A non-satellite body fulfilling only the first two of these criteria (such as Pluto, which had hitherto been considered a planet) is classified as a dwarf planet. According to the IAU, "planets and dwarf planets are two distinct classes of objects" – in other words, "dwarf planets" are not planets. A non-satellite body fulfilling only the first criterion is termed a small Solar System body (SSSB). An alternate proposal included dwarf planets as a subcategory of planets, but IAU

members voted against this proposal. The decision was a controversial one, and has drawn both support and criticism from astronomers. Pluto has a moderately eccentric and inclined orbit, ranging from 30 to 49 astronomical units (4.5 to 7.3 billion kilometres; 2.8 to 4.6 billion miles) from the Sun. Light from the Sun takes 5.5 hours to reach Pluto at its orbital distance of 39.5 AU (5.91 billion km; 3.67 billion mi). Pluto's eccentric orbit periodically brings it closer to the Sun than Neptune, but a stable orbital resonance prevents them from colliding. With half the diameter and one-eighth the mass of Pluto, Charon is a very large moon in comparison to its parent body. Its gravitational influence is such that the barycenter of the Plutonian system lies outside Pluto, and the two bodies are tidally locked to each other. The dwarf planet systems Pluto–Charon and Eris–Dysnomia and the dwarf planet candidate system Salacia–Actaea are the only known examples of mutual tidal locking in the Solar System, though it is likely that Orcus–Vanth is another.

Pluto (Disney) Unlike most of the Disney characters, Pluto is not anthropomorphic beyond some characteristics such as facial expressions. He is Mickey Mouse's pet. Together with Mickey Mouse, Minnie Mouse, Donald Duck, Daisy Duck, and Goofy, Pluto is one of the "Sensational Six"—the biggest stars in the Disney universe. Officially a mixed-breed dog, he made his debut as a bloodhound in the Mickey Mouse cartoon *The Chain Gang*. He is a yellow-orange color, medium-sized, short-haired dog with black ears. Though all six are non-human animals, Pluto alone is not dressed as a human. Officially a mixed-breed dog Pluto is an American cartoon character created by Walt Disney and Norm Ferguson. characters, Pluto is not anthropomorphic beyond some characteristics such as facial expressions

Eris has one large confirmed moon, Dysnomia, and it might have another much larger moon. In February 2016, Eris's distance from the Sun was 96.3 AU (14.41 billion km; 8.95 billion mi), more than three times that of Neptune or Pluto. With the exception of long-period comets...

IAU definition of planet A non-satellite body fulfilling only the first two of these criteria (such as Pluto, which had

hitherto been considered a planet) is classified as a dwarf The International Astronomical Union (IAU) adopted in August 2006 the definition made by Uruguayan astronomers Julio Ángel Fernández and Gonzalo Tancredi which stated that, in the Solar System, a planet is a celestial body that: 94460f620d

In 1964, Gary Flandro of the Jet Propulsion Laboratory proposed a mission called Grand Tour, taking advantage of the fact that an alignment of planets in the late 1970s would enable a single spacecraft to visit all of the outer planets, including Pluto, by using gravity assists. Due to the cost, the mission was not funded, although the planetary alignment was used by the two probes of the Voyager program, launched in 1977. 94460f620d Brown recounts his professional career as a faculty member at the California Institute of Technology leading a team which examined large patches of the sky in an attempt to identify and track Trans-Neptunian objects. 94460f620d

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