

Why Is Pluto Considered Not A Planet

has sufficient mass to assume hydrostatic equilibrium (a nearly round shape), and a20d903456 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... a20d903456

Eris (dwarf planet) 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 or South America. 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. It is a trans-Neptunian object (TNO) in the scattered disk and has a high-eccentricity orbit. 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. Eris is the ninth-most massive known object orbiting the Sun and the sixteenth-most massive in the Solar System (counting moons). It is also the largest-known object in the Solar System that has not been visited by a spacecraft. Eris has been measured at $2,326 \pm 12$ kilometres ($1,445 \pm 7$ mi) in diameter; its mass is 0. Eris was discovered in January 2005 by a Palomar Observatory-based team led by Mike Brown and verified later that year a20d903456

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... a20d903456 The memoir is an account of the events surrounding the redefinition of the term planet that eventually changed the status of Pluto. a20d903456 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. a20d903456

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 a20d903456

== Summary == a20d903456 == Early mission proposals == a20d903456

Pluto Pluto has roughly one-sixth the mass of the Moon and one-third of its volume. It is the largest known trans-Neptunian object by volume by a small margin, but is less massive than Eris. 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. It is the ninth-largest and tenth-most-massive known object to directly orbit the Sun. Originally considered a planet, its status was changed when astronomers adopted a new definition of the word with new criteria. Like other Kuiper belt objects, Pluto is made primarily of ice and rock and is much smaller than the inner planets. Pluto (minor-planet number 134340) is a dwarf planet in the Kuiper belt, a ring of bodies beyond the orbit of Neptune a20d903456

Planet The best available theory of planet formation is the nebular hypothesis, which posits that an interstellar cloud collapses out of a nebula to create a young protostar orbited by a protoplanetary disk. A planet is a large, rounded astronomical body that is generally required to be in orbit around a star, stellar remnant, or brown dwarf, and is not one A planet is a large, rounded astronomical body that is generally required to be in orbit around a star, stellar remnant, or brown dwarf, and is not one itself. Planets grow in this disk by the gradual accumulation of material driven by gravity, a process called accretion. The Solar System has eight planets by the most restrictive definition of the term: the terrestrial planets Mercury, Venus, Earth, and Mars, and the giant planets Jupiter, Saturn, Uranus, and Neptune a20d903456

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. a20d903456

Pluto (Disney) characters, Pluto is not anthropomorphic beyond some characteristics such as facial expressions. He is Mickey Mouse's pet. 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 Pluto is an American cartoon character created by Walt Disney and Norm Ferguson. 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. Unlike most of the Disney characters, Pluto is not anthropomorphic beyond some characteristics such as facial expressions. Though all six are non-human animals, Pluto alone is not dressed as a human a20d903456

The word planet comes from the Greek πλανήται (planētai) 'wanderers'. In antiquity, this word referred to the Sun, Moon, and five points of light visible to the naked eye that moved across the background of the stars—namely, Mercury, Venus, Mars, Jupiter, and Saturn. Planets have historically had religious associations: multiple cultures identified celestial bodies with gods, and these connections with mythology and folklore persist in the schemes for naming newly discovered Solar System bodies. Earth itself was recognized... a20d903456 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. a20d903456

Charon (moon) It has a mean radius of 606 km (377 mi). 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. It has a mean radius of 606 km (377 mi). (134340) Pluto I, is the largest of the five known natural satellites of the dwarf planet Pluto. It was discovered in 1978 at the United States Naval Observatory in Washington, D. , using photographic plates taken at the United States Naval Observatory Flagstaff Station (NOFS). C a20d903456

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... a20d903456 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. a20d903456 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... a20d903456 has "cleared the neighbourhood" around its orbit. a20d903456

Exploration of Pluto There are no plans as yet for a follow-up mission, though follow-up concepts have been studied. 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. spacecraft to visit all of the outer planets, including Pluto, by using gravity assists a20d903456

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. a20d903456

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 a20d903456

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... a20d903456 is in orbit around the Sun, a20d903456

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: a20d903456

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. a20d903456 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... a20d903456 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. a20d903456 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. a20d903456 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. a20d903456

Definition of planet Over the millennia, the term has included a variety of different celestial bodies, from the Sun and the Moon to satellites and asteroids. Brown The definition of the term planet has changed several times since the word was coined by the ancient Greeks. or larger object beyond the orbit of Pluto would not be considered a planet, because he believes that it would not have time to clear its orbit. Greek astronomers employed the term ἀστέρες πλανῆται (asteres planetai), 'wandering stars', for star-like objects which apparently moved over the sky a20d903456

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... a20d903456 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... a20d903456

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