

# Who Was Galileo

Galileo Galilei

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Galileo di Vincenzo Bonaiuti de' Galilei (15 February 1564 – 8 January 1642), commonly referred to as Galileo Galilei ( GAL-il-AY-oh GAL-il-AY, US also GAL-il-EE-oh -, Italian: [ˈɡaliˈlɛːo ˈɡaliˈlɛi]) or mononymously as Galileo, was an Italian astronomer, physicist, and engineer, sometimes described as a polymath. He was born in the city of Pisa, then part of the Duchy of Florence. Galileo has been called the father of observational astronomy, modern-era classical physics, the scientific method, and modern science.

Galileo studied speed and velocity, gravity and free fall, the principle of relativity, inertia, projectile motion, and also worked in applied science and technology, describing the properties of the pendulum and "hydrostatic balances". He was one of the earliest Renaissance developers of the thermoscope and the inventor of various military compasses. With an improved telescope he built, he observed the stars of the Milky Way, the phases of Venus, the four largest satellites of Jupiter, Saturn's rings, lunar craters, and sunspots. He also built an early microscope.

Galileo's championing of Copernican heliocentrism was met with opposition from within the Catholic Church and from some astronomers. The matter was investigated by the Roman Inquisition in 1615, which concluded that his opinions contradicted accepted Biblical interpretations.

Galileo later defended his views in Dialogue Concerning the Two Chief World Systems (1632), which appeared to attack and ridicule Pope Urban VIII, thus alienating both the Pope and the Jesuits, who had both strongly supported Galileo until this point. He was tried by the Inquisition, found "vehemently suspect of heresy", and forced to recant. He spent the rest of his life under house arrest. During this time, he wrote Two New Sciences (1638), primarily concerning kinematics and the strength of materials.

Galileo affair

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The Galileo affair was an early 17th century political, religious, and scientific controversy regarding the astronomer Galileo Galilei's defence of heliocentrism, the idea that the Earth revolves around the Sun. It pitted supporters and opponents of Galileo within both the Catholic Church and academia against each other through two phases: an interrogation and condemnation of Galileo's ideas by a panel of the Roman Inquisition in 1616, and a second trial in 1632 which led to Galileo's house arrest and a ban on his books.

In 1610, Galileo published his Sidereus Nuncius (Starry Messenger) describing the observations that he had made with his new, much stronger telescope, amongst them the Galilean moons of Jupiter. With these observations and additional observations that followed, such as the phases of Venus, he promoted the heliocentric theory of Nicolaus Copernicus published in De revolutionibus orbium coelestium in 1543. Galileo's opinions were met with opposition within the Catholic Church, and in 1616 the Inquisition declared heliocentrism to be both scientifically indefensible and heretical. Galileo went on to propose a theory of tides in 1616, and of comets in 1619; he argued (incorrectly) that the tides were evidence for the motion of the Earth.

In 1632, Galileo published his *Dialogue Concerning the Two Chief World Systems*, which defended heliocentrism while describing geocentrists as "simpletons". Responding to mounting controversy, the Roman Inquisition tried Galileo in 1633 and found him "vehemently suspect of heresy", sentencing him to house arrest. At this point, heliocentric books were banned and Galileo was ordered to abstain from holding, teaching or defending heliocentric ideas after the trial.

The affair was complex, with Pope Urban VIII originally being a patron and supporter of Galileo before turning against him. Urban initially gave Galileo permission to publish on the Copernican theory so long as he treated it as a hypothesis, but after the publication of the *Dialogue* in 1632, the patronage was broken off. Historians of science have since corrected numerous false interpretations of the affair.

Galileo's middle finger

*Italian astronomer Galileo Galilei (1564–1642) is a secular relic in the collection of the Museo Galileo in Florence, Italy. The finger was removed from his*

The middle finger from the right hand of Italian astronomer Galileo Galilei (1564–1642) is a secular relic in the collection of the Museo Galileo in Florence, Italy. The finger was removed from his body after his death, and is encased in a gilded glass egg.

In 1737, 95 years after he died, Galileo's remains were transferred to a mausoleum at the Basilica di Santa Croce in Florence. Antiquarian Anton Francesco Gori, anatomist Antonio Cocchi, and Italian marquis Vincenzo Capponi removed the finger of Galileo's right hand as well as one of his vertebrae, an index finger, a thumb, and a tooth. The middle finger passed to Angelo Maria Bandini, who exhibited it at the Laurentian Library. In 1841, the finger was moved to the Tribune of Galileo at La Specola. It was then transferred to the Institute and Museum of the History of Science in 1927.

Galileo thermometer

*a Galileo thermometer was invented by a group of academics and technicians known as the Accademia del Cimento of Florence, who included Galileo's pupil*

A Galileo thermometer (or Galilean thermometer) is a thermometer made of a sealed glass cylinder containing a clear liquid and several glass vessels of varying density. The individual floats rise or fall in relation to their respective density and the density of the surrounding liquid as the temperature changes. It is named after Galileo Galilei because he discovered the principle on which this thermometer is based—that the density of a liquid changes in relation to its temperature.

Bohemian Rhapsody

*Scaramouche, the fandango, Galileo Galilei, Figaro, and Beelzebub, with cries of "Bismillah!" Although critical reaction was initially mixed, retrospective*

"Bohemian Rhapsody" is a song by the British rock band Queen, released as the lead single from their fourth studio album, *A Night at the Opera* (1975). Written by Queen's lead singer Freddie Mercury, the song is a six-minute suite, notable for its lack of a refraining chorus and consisting of several sections: an intro, a ballad segment, an operatic passage, a hard rock part and a reflective coda. It is one of the only progressive rock songs of the 1970s to have proved accessible to a mainstream audience.

Mercury referred to "Bohemian Rhapsody" as a "mock opera" that resulted from the combination of three songs he had written. It was recorded by Queen and co-producer Roy Thomas Baker at five studios between August and September 1975. Due to recording logistics of the era, the band had to bounce the tracks across eight generations of 24-track tape, meaning that they required nearly 200 tracks for overdubs. The song parodies elements of opera with bombastic choruses, sarcastic recitative, and distorted Italian operatic

phrases. Lyrical references include Scaramouche, the fandango, Galileo Galilei, Figaro, and Beelzebub, with cries of "Bismillah!"

Although critical reaction was initially mixed, retrospective reviews have acclaimed "Bohemian Rhapsody" one of the greatest songs of all time, and it is often regarded as the band's signature song. The promotional video is credited with furthering the development of the music video medium. It has appeared in numerous polls of the greatest songs in popular music, including a ranking at number 17 on Rolling Stone's 2021 list of the "500 Greatest Songs of All Time". A Rolling Stone readers' poll also ranked Mercury's vocal performance in the song as the greatest in rock history.

"Bohemian Rhapsody" topped the UK Singles Chart for nine weeks (plus another five weeks following Mercury's death in 1991) and is the UK's third best-selling single of all time. It also topped the charts in countries including Canada, Australia, New Zealand, Ireland, and the Netherlands, and has sold over six million copies worldwide. In the United States, the song peaked at number nine in 1976, but reached a new peak of number two after appearing in the 1992 film *Wayne's World*. In 2004, the song was inducted into the Grammy Hall of Fame. Following the release of the 2018 biopic *Bohemian Rhapsody*, it became the most streamed song from the 20th century. In 2021, it was certified diamond in the US for combined digital sales/streams equal to 10 million units, and is one of the best selling songs of all time. In 2022, it was inducted into National Recording Registry by the Library of Congress being "culturally, historically, or aesthetically significant".

Galileo (satellite navigation)

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Galileo is a global navigation satellite system (GNSS) created by the European Union through the European Space Agency (ESA) and operated by the European Union Agency for the Space Programme (EUSPA). It is headquartered in Prague in Czechia, with two ground operations centres in Oberpfaffenhofen, Germany (mostly responsible for the control of the satellites), and in Fucino, Italy (mostly responsible for providing the navigation data). The €10 billion project began offering limited services in 2016. It is named after the Italian astronomer Galileo Galilei.

One of the aims of Galileo is to provide an independent high-precision positioning system so European political and military authorities do not have to rely on the United States GPS or the Russian GLONASS systems, which could be disabled or degraded by their operators at any time. The use of basic (lower-precision) Galileo services is free and open to everyone. A higher-precision service is available for free since 24 January 2023, previously only available to government-authorized users. Galileo is also to provide a new global search and rescue (SAR) function as part of the MEOSAR system.

The first Galileo test satellite GIOVE-A was launched 28 December 2005, while the first satellite to be part of the operational system was launched on 21 October 2011. Galileo started offering Early Operational Capability (EOC) on 15 December 2016, providing initial services with a weak signal. In October 2018, four more Galileo satellites were brought online, increasing the number of active satellites to 18. In November 2018, the FCC approved use of Galileo in the US. As of September 2024, there are 25 launched satellites that operate in the constellation. It is expected that the next generation of satellites will begin to become operational after 2026 to replace the first generation, which can then be used for backup capabilities. Most satellites of the programme were built by OHB in Bremen, Germany, with the contribution of Surrey Satellite Technology (SSTL) in Guildford, United Kingdom.

The Galileo system has a greater accuracy than GPS, having an accuracy of less than 1 m when using broadcast ephemeris (GPS: 3 m) and a signal-in-space ranging error (SISRE) of 1.6 cm (GPS: 2.3 cm) when using real-time corrections for satellite orbits and clocks.

## Galileo (horse)

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Galileo (30 March 1998 – 10 July 2021) was an Irish Thoroughbred racehorse and sire. In a racing career which lasted from October 2000 until October 2001, he won six of the eight races he ran. He is best known for having won the Derby, Irish Derby and King George VI and Queen Elizabeth Stakes in 2001. He was named the European Champion Three-Year-Old Colt of 2001.

After his retirement, Galileo was one of the most sought-after sires in the world. He first became the leading sire in Great Britain and Ireland in 2008, then consecutively earned the title from 2010 to 2020. In 2020, he set the record for the number of Epsom Derby winners sired at five: New Approach, Ruler of the World, Australia, Anthony Van Dyck and Serpentine. In June 2020, Galileo sired his 85th Group 1 winner, breaking Danehill's world record and becoming the most successful source of Group 1 winners in thoroughbred history with his current standing of over 100 Group 1 winners, making him the most successful sire in thoroughbred history and will probably remain long standing. In addition to his Derby winners, his notable offspring include Frankel, Nathaniel, Found, Churchill, Minding, and Kyprios. He was also a leading broodmare sire, most notably of Rhododendron.

Galileo was euthanized on 10 July 2021, after a debilitating injury to his left foreleg which failed to heal after surgery earlier that year.

## Galileo (spacecraft)

*Galileo was an American robotic space probe that studied the planet Jupiter and its moons, as well as the asteroids Gaspra and Ida. Named after the Italian*

Galileo was an American robotic space probe that studied the planet Jupiter and its moons, as well as the asteroids Gaspra and Ida. Named after the Italian astronomer Galileo Galilei, it consisted of an orbiter and an entry probe. It was delivered into Earth orbit on October 18, 1989, by Space Shuttle Atlantis, during STS-34. Galileo arrived at Jupiter on December 7, 1995, after gravitational assist flybys of Venus and Earth, and became the first spacecraft to orbit an outer planet.

The Jet Propulsion Laboratory built the Galileo spacecraft and managed the Galileo program for NASA. West Germany's Messerschmitt-Bölkow-Blohm supplied the propulsion module. NASA's Ames Research Center managed the atmospheric probe, which was built by Hughes Aircraft Company. At launch, the orbiter and probe together had a mass of 2,562 kg (5,648 lb) and stood 6.15 m (20.2 ft) tall.

Spacecraft are normally stabilized either by spinning around a fixed axis or by maintaining a fixed orientation with reference to the Sun and a star. Galileo did both. One section of the spacecraft rotated at 3 revolutions per minute, keeping Galileo stable and holding six instruments that gathered data from many different directions, including the fields and particles instruments.

Galileo was intentionally destroyed in Jupiter's atmosphere on September 21, 2003. The next orbiter to be sent to Jupiter was Juno, which arrived on July 5, 2016.

## Galileo Academy of Science and Technology

*Galileo Academy of Science and Technology, formerly known as Galileo High School, is a public high school located in the northeastern corner of the Russian*

Galileo Academy of Science and Technology, formerly known as Galileo High School, is a public high school located in the northeastern corner of the Russian Hill neighborhood, near the Marina District and

Fisherman's Wharf neighborhoods of San Francisco, California. The school is a part of the San Francisco Unified School District.

Caccini

*Francesca Tommaso Caccini (1574–1648), Italian Dominican friar who denounced Galileo from the pulpit Palazzo Caccini, a building in Florence, Italy Caccinia*

Caccini (pronounced [katˈtʃiˈni]) is an Italian surname from Florence and Northwest Italy, possibly derived from a medieval given name. Notable people with the surname include:

Francesca Caccini (1587–1640s), Italian singer, composer and musician

Giovanni Battista Caccini (1556–c. 1612), Italian sculptor

Giulio Caccini (1551–1618), Italian composer, father of Francesca

Settimia Caccini (1591–1638?), Italian singer and occasional composer, sister of Francesca

Tommaso Caccini (1574–1648), Italian Dominican friar who denounced Galileo from the pulpit

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