



## Leonardo Da Vinci – the Prototype of a Renaissance Man



Leonardo da Vinci (1452-1519), Portrait by Francesco Melzi

On May 2, 1519, Italian Renaissance polymath **Leonardo da Vinci** passed away. Leonardo's areas of interest included invention, painting, sculpting, architecture, science, music, mathematics, engineering, literature, anatomy, geology, astronomy, botany, writing, history, and cartography. He has been variously called the father of paleontology, ichnology, and architecture, and is widely considered one of the greatest painters of all time.

*"Painting is poetry which is seen and not heard, and poetry is a painting which is heard but not seen. These two arts, you may call them both either poetry or painting, have here interchanged the senses by which they penetrate to the intellect."*

– Leonardo da Vinci, as quoted in *A Treatise on Painting* (1651)[11]

## Leonardo da Vinci – Early Life

Not much is known about Leonardo Da Vinci's early life. However, it is believed that he first lived in the hamlet of Anchiano with his father, grandparents, and uncle. Around the age of 14, he was apprenticed to Andrea di Cione, also known as Verrocchio. He was back then one of the most prominent artists and his workshop was then at the centre of the intellectual currents of Florence. There, Leonardo became educated in the field of the humanities. The employment at Verrocchio's shop highly influenced Leonardo's career. He improved his technical skills, and took the opportunity to learn more about various fields including chemistry, drafting, metallurgy, plaster casting, leather working, and many more. It is known that much of the paintings from Verrocchio's workshop were probably completed by his employees. However, it is not completely known which paintings were possibly done by Leonardo. Vasari however, claimed that Leonardo worked together with Verrocchio on his *Baptism of Christ*. Further, it is assumed that Leonardo functioned as the model for several works by Verrocchio, probably including the bronze statue of David in the Bargello and the Archangel Michael in Tobias and the Angel. Around the age of 20, Leonardo qualified as a master in the Guild of St Luke. However, the artist continued to collaborate with Verrocchio.

## Military Technology

The Sforza family ruled Milan and Lombardy from 1450 to 1535. Because of the imminent battles between Milan and the Republic of Venice, Leonardo mentioned in a letter of recommendation to the Duke in detail his abilities and inventions in military technology. It was only at the end of the letter that he emphasized his skills as a civil engineer and architect and finally added a brief reference to his knowledge as a painter and sculptor, which could form the basis for an appropriate execution of the monument for Francesco Sforza. After his employment Leonardo worked for the Sforza for over twenty years with interruptions. In Milan Leonardo became the leading artist and organiser of court ceremonies and festivities.

## Securing Peace

In 1482, Leonardo da Vinci became active in securing the peace between Lorenzo de' Medici and Ludovico il Moro, Duke of Milan. After a correspondence with Ludovico, Leonardo created a silver lyre in the shape of a horse's head and was sent to Milan. There, he continued working and was also commissioned to paint the *Virgin of the Rocks* for the Confraternity of the Immaculate Conception, and *The Last Supper* for the monastery of Santa Maria delle Grazie. He also modelled a horse in clay, the *Gran Cavallo*. It was so large that it surpassed the two large equestrian statues of the Renaissance.

## The Inside of Man

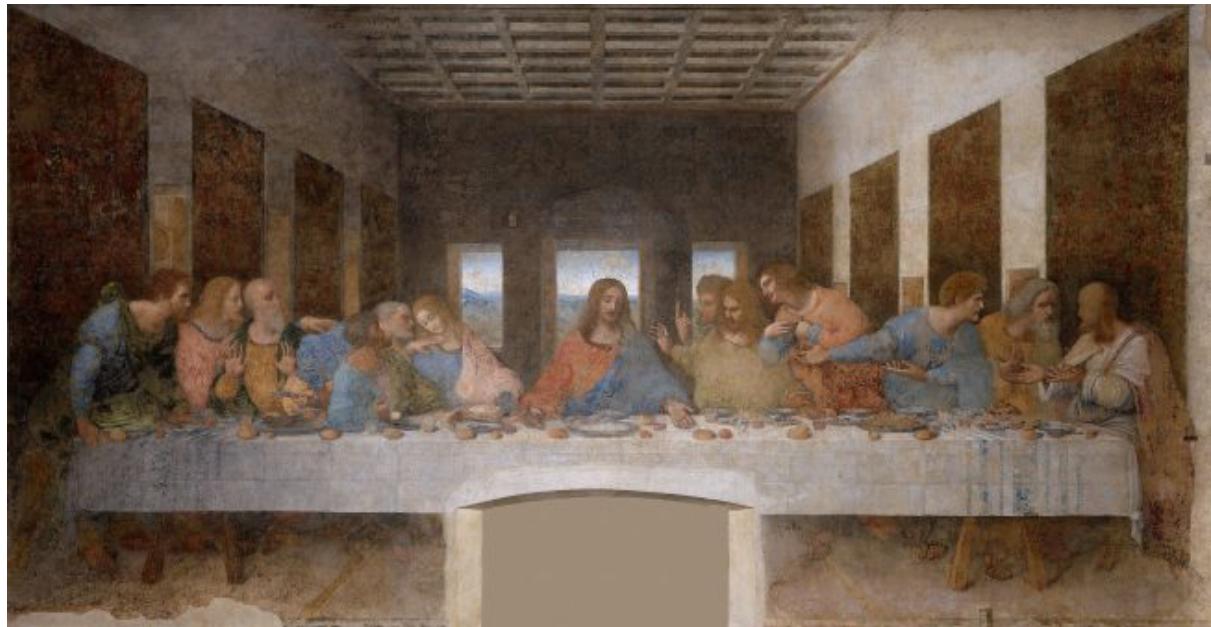
In the same year Leonardo spent several months undisturbed with mathematical and physical research in the libraries and among the scholars of Pavia. There he had been appointed as an advisor on some architectural difficulties in the construction of the cathedral. In Pavia he received new inspiration for his Francesco Sforza by studying an ancient equestrian monument (the so-called Regisole, which was destroyed in 1796). The study of body proportions according to Vitruvius as well as studies of proportions of human bodies and faces and anatomical studies date from 1492, because he wanted to get to know “the inside of man” in detail and began to work on his book *On the human figure*.



The Vitruvian Man, 1492

## The Last Supper

When Leonardo was about 40 years old, almost ten of whom had worked for the Milan court, Ludovico Sforza commissioned him to paint a painting for the front wall of the refectory of the Convent of Santa Maria delle Grazie in Milan. The painting *The Last Supper* (Italian: *Cenacolo or Ultima Cena*), a mural measuring  $8.8 \times 4.6$  m, was painted between 1494 and 1498 and is the moment when Jesus tells his disciples that one of them would betray him in a few hours. In order to be able to portray the characters, Leonardo carefully selected his “types” and made many facial studies. The faces of Jesus and Judas remained unfinished, the perfectionist Leonardo did not find a satisfactory solution for a painterly representation.



The Last Supper (1495-1498)

## Mona Lisa

In the years 1503-1506 Leonardo also worked intensively on the portrait of the Mona Lisa. Some sources prove that the Neapolitan housewife Monna Lisa del Giocondo (née Gherardini), wife of Francesco di Bartolomeo di Zanobi del Giocondo, was the model for this painting. In Lisa Gherardini he is said to have found a model whose face and smile possessed a unique, enigmatic charm. He worked on this portrait for a period of four consecutive years and had music played during the sessions. Throughout his life Leonardo could not part with the painting. After his death the work remained in the estate, was administered with other paintings by his pupil Salaj and was later acquired by Francis I of France for four thousand gold florins. It has been on display in the Louvre since 1804. It temporarily came into the possession of Napoleon, who placed it in his bedroom and was fascinated by the enigmatic smile.

## Florence, the Borgias, and Milan

Around 1500, Leonardo returned to Florence. It is believed that his household were guests of the Servite monks at the monastery of Santissima Annunziata. Further, they were probably provided with a workshop and according to Vasari, Leonardo created the cartoon of *The Virgin and Child with St. Anne* and St. John the Baptist there. Before returning once again to Florence,

Leonardo entered the service of Cesare Borgia as a military architect and engineer. Leonardo probably (re)joined the Guild of St Luke in 1503. He designed and painted a mural of *The Battle of Anghiari* for the Signoria which took him two years. Michelangelo then was responsible for *The Battle of Cascina*. Leonardo relocated to Milan in 1508 to live in his own house in Porta Orientale.

## Rome

During the 1510s, Leonardo spent much time living in the Belvedere in the Vatican in Rome where also Raphael and Michelangelo were active. He was also challenged as an engineer, on the one hand with plans for a new palace near the Porta Venezia, on the other hand with large hydraulic projects or irrigation works (dams, canals) in Lombardy. He constructed the first water meter and in a study he dealt intensively “with the knowledge of water”. In 1513, Leonardo was ordered to come to Rome and to work for Pope Leo X. The only engineering activities known from Leonardo’s time in Rome were the work on the port and the defences of Civitavecchia and activities to drain the Pontine Marshes. Through further extensive anatomical studies, Leonardo also discovered arteriosclerosis in old people at that time. After François I recaptured Milan, Leonardo commissioned him to create a mechanical lion, that could walk forward.

## Final Years

In the meantime his French patron Louis XII had died in the last days of 1514. His young and brilliant successor Francis I of France surprised Europe: he advanced across the Alps at the head of an army to assert his rights in Italy and to reconquer the Duchy of Milan at the Battle of Marignano. After some hesitation, in the summer of 1515, Leo X ordered Giuliano de Medici to lead the papal troops into Emilia and to monitor the movements of the invaders. Leonardo accompanied his patron to Florence, where Giuliano fell ill and died on 17 March 1516. In his old home town Leonardo was introduced to the new French king. The young sovereign and the old artist and scientist got along well, and so the old master – after initial hesitation – accepted the invitation of the king to spend his last years in France, where he was assured a new home, honour and respect. Francis I became Leonardo’s close friend and it is believed that he was present when Leonardo died on May 2, 1519. He was buried in the Chapel of Saint-Hubert in the castle of Amboise. Da Vinci left all his manuscripts and the entire furnishings of his studio together with other gifts to his executor Francesco Melzi, his servant Battista Villani and Salai, half of his vineyard outside Milan, money and clothes to his maid Maturina, further money to the poor of the hospital in Amboise and four hundred ducats deposited in Florence, his half-brothers.

## References and Further Reading:

- [1] [Short Biography at a Leonardo da Vinci information Website](#)
- [2] [Leonardo da Vinci at Famous Scientists](#)
- [3] [Leonardo da Vinci, his Paintings and Life](#)
- [4] [Is Leonardo da Vinci a great artist or a great scientist? Neither actually.](#) at The Renaissance Mathematicus, May 4, 2012.
- [5] [The Mona Lisa is Missing – Stealing the World’s Most Famous Painting](#), SciHi Blog
- [6] Herbermann, Charles, ed. (1913). [“Leonardo da Vinci”](#). *Catholic Encyclopedia*. New York: Robert Appleton Company.

- [7] [\[7\] Works by or about Leonardo da Vinci](#) at Internet Archive
- [8] [\[8\] The Notebooks of Leonardo da Vinci](#)
- [9] [\[9\] Leonardo da Vinci at Wikidata](#)
- [10] Laurence Kanter, [Rediscovering Leonardo da Vinci](#), 2018, Yale University Art Gallery @ youtube
- [11] Leonardo da Vinci, *A Treatise on Painting* (1651); “*The Paragone*“; compiled by Francesco Melzi prior to 1542, first published as *Trattato della pittura* by Raffaelo du Fresne (1651)
- [12] [\[12\] Timeline for Leonardo da Vinci, via Wikidata](#)