

I'm not robot!

Object that reflects an image. For other uses, see Mirror (disambiguation). "Looking glass" redirects here. For other uses, see Looking Glass. A mirror reflecting a wave a first surface mirror coated with aluminum and enhanced with dielectric coatings. The angle of the incident light (represented by both the light in the mirror and the shadow behind it) matches the angle of the reflected light (represented by both the light in the mirror and the shadow behind it). A plane mirror will always reflect an image the same distance behind the mirror as the object is in front of it, and will reflect the image the same size as the object. Light that bounces off a mirror will show an image of whatever is in front of it, when focused through the lens of the eye or a camera. Mirrors reverse the direction of the image in an equal yet opposite angle from which the light shines upon it. This allows the viewer to see themselves or objects behind them, or even objects that are at an angle from them but out of their field of view, such as around a corner. Natural mirrors have existed since prehistoric times, such as the surface of water, but people have been manufacturing mirrors out of a variety of materials for thousands of years, like stone, metals, and glass. In modern mirrors, metals like silver or aluminum are often used due to their high reflectivity, applied as a thin coating on glass because of its naturally smooth and very hard surface. A mirror is a wave reflector. Light consists of waves, and when light waves reflect off the flat surface of a mirror, those waves retain the same degree of curvature and vergence, in an equal yet opposite direction, as the original waves. This allows the waves to form an image when they are focused through a lens, just as if the waves had originated from the direction of the mirror. The light can also be pictured as rays (imaginary lines radiating from the light source, that are always perpendicular to the waves). These rays are reflected at an equal yet opposite angle from which they strike the mirror (incident light). This property, called specular reflection, distinguishes a mirror from objects that diffuse light, breaking up the wave and scattering it in many directions (such as flat-white paint). Thus, a mirror can be any surface in which the texture or roughness of the surface is smaller (smoother) than the wavelength of the waves. When looking at a mirror, one will see a mirror image or reflected image of objects in the environment, formed by light emitted or scattered by them and reflected by the mirror towards one's eyes. This effect gives the illusion that those objects are behind the mirror, or (sometimes) in front of it. When the surface is not flat, a mirror may behave like a reflecting lens. A concave mirror is an example of a curved mirror that focuses light. [1] Examples of historical mirrors found in Anatolia (modern-day Turkey) are dated to around 6000 BC. Mirrors of polished copper were crafted in Mesopotamia from 4000 BC and in Egypt from around 3800 BC. [6] Polished stone mirrors from Central and South America date from around 2000 BC onwards. [5] Bronze Age to Early Middle Ages By the Bronze Age most cultures were using mirrors made from polished discs of bronze, copper, silver, or other metals. [4] [7] The people of Kerma in Nubia were skilled in the manufacturing of mirrors. Remains of their bronze mirrors have been found within the temple of Kerma. [8] In China, around 2000 BC, mirrors were manufactured from around 2000 BC. [9] [citation needed] some of the earliest bronze and copper examples being produced by the Qijia culture. Such metal mirrors remained the norm through to Greco-Roman Antiquity and throughout the Middle Ages in Europe. [10] During the Roman Empire silver mirrors were in wide use even by maidservants. [11] Speculum metal is a highly reflective alloy of copper and tin that was used for mirrors until a couple of centuries ago. Such mirrors may have originated in China and India. [12] Mirrors of speculum metal or any precious metal were hard to produce and were only owned by the wealthy. [13] Common metal mirrors tarnished and required frequent polishing. Bronze mirrors had low reflectivity and poor color rendering, and stone mirrors were much worse in this regard. [14]. p.11 These defects explain the New Testament reference in 1 Corinthians 13 to seeing "as in a mirror, darkly." The Greek philosopher Socrates, of "know thyself" fame, urged young people to look at themselves in mirrors so that, if they were beautiful, they would become worthy of their beauty, and if they were ugly, they would know how to hide their disgrace through learning. [14]. p.16 Glass began to be used for mirrors in the 1st century CE, with the development of soda-lime glass and glass blowing. [15] The Roman scholar Pliny the Elder claims that artisans in Sidon (modern-day Lebanon) were producing glass mirrors coated with lead or gold leaf in the back. The metal provided good reflectivity, and the glass provided a smooth surface and protected the metal from scratches and tarnishing. [16] [17] [18] [14]. p.12 [19] The earliest Venetian mirrors were up to 12 inches (30 cm) square. For a century, the Venetian monopoly of the amalgam technique, in which mirrors in richly decorated frames served as luxury decorations for churches throughout Europe, and of their own expense. For example, in the late seventeenth century, the Countess de Fiesque had her hair combed by a mirror. [20] Her hair was combed by a mirror. 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