



The discovery of the persistence of vision is attributed to the Roman poet Lucretia, although he mentions it only in connection with the images seen in dreams.

In the modern era, some strobe experiments performed by Peter Mark Roget in 1824 have also been cited as the basis for this theory.

The sparkler trail effect occurs when a wave of light surrounds the moving sparkler, creating a trail of light.

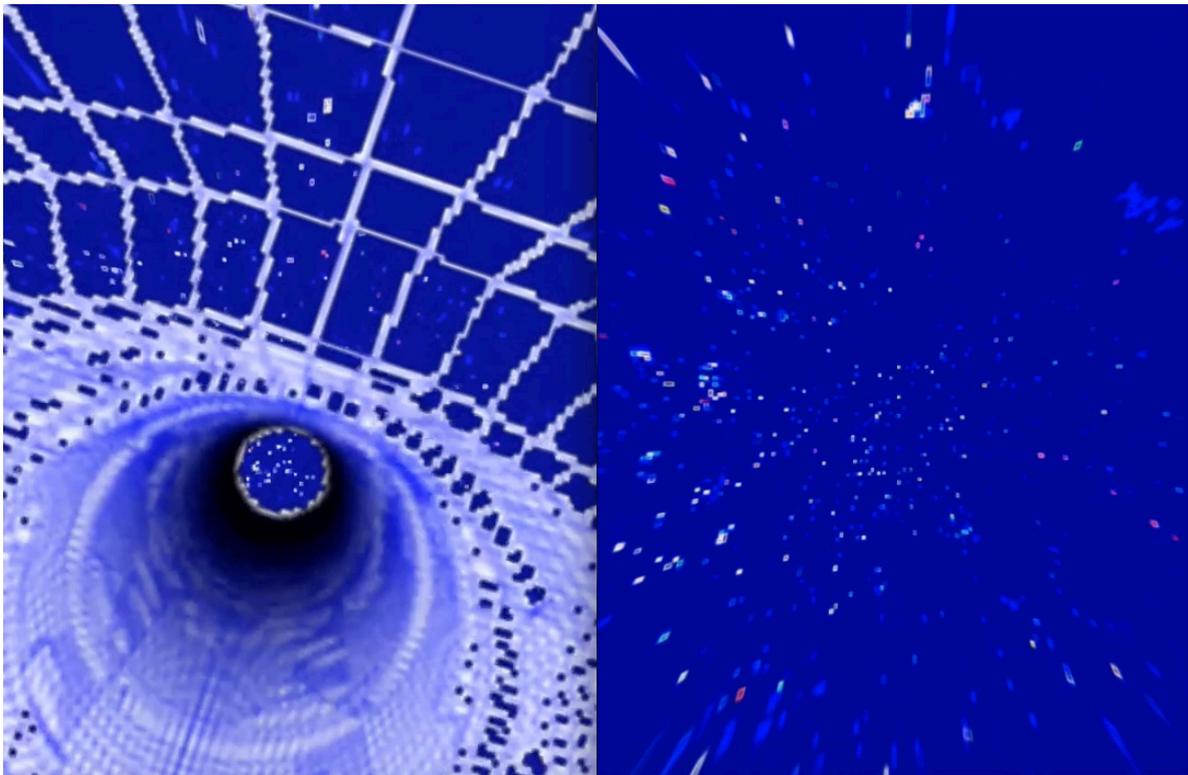
Although this trail appears to be created by the light from the sparkler waving in the air, there is, in fact, no light along this trail.

The illuminated track is a brain creation, which retains a perception of the light of the candle for a fraction of a second in sensory memory.

This effect of persistence of vision is used to draw thanks to the very rapid movement of a single point of light as in the images obtained with a laser, or several points of light as in devices using strips of led diodes in rotation.

TEST

Fix image 1 for 25 s and slip to the second.



It is now easy to locate the elements.

It is now easy to determine / locate the elements in the image considering that we have received informations.

This aims to educate vision step by step within the framework of Astronomy and extends to Psychology and Biology.

Retinal persistence or persistence of vision is the phenomenon giving the eye an afterimage lasting $\frac{1}{25}$ of a second on the retina.

According to Ferry-Porter's Law, the critical flicker fusion threshold is the frequency at which a discontinuous visual stimulus is perceived as completely continuous.

According to the Plateau law, known as Plateau-Talbot in the Anglo-Saxon world (named after the Belgian physicist Joseph Plateau and the Englishman William Talbot), two types of retinal persistence can be distinguished:

Positive persistence, which lasts a short time, about 50 milliseconds.

Image color persists with closed eyelids.

The eye is therefore theoretically capable of capturing 20 images per second, above this threshold it will not see the flashing of the images, below the succession of images is perceptible.

Negative persistence, which lasts longer.

It is due to prolonged exposure to strong light intensity which damaged the rods.

We then keep printed a dark trace of the image in the vision for several seconds (example: phosphene of the trace of the sun, or of a camera flash after closing the eyes)

+ 1

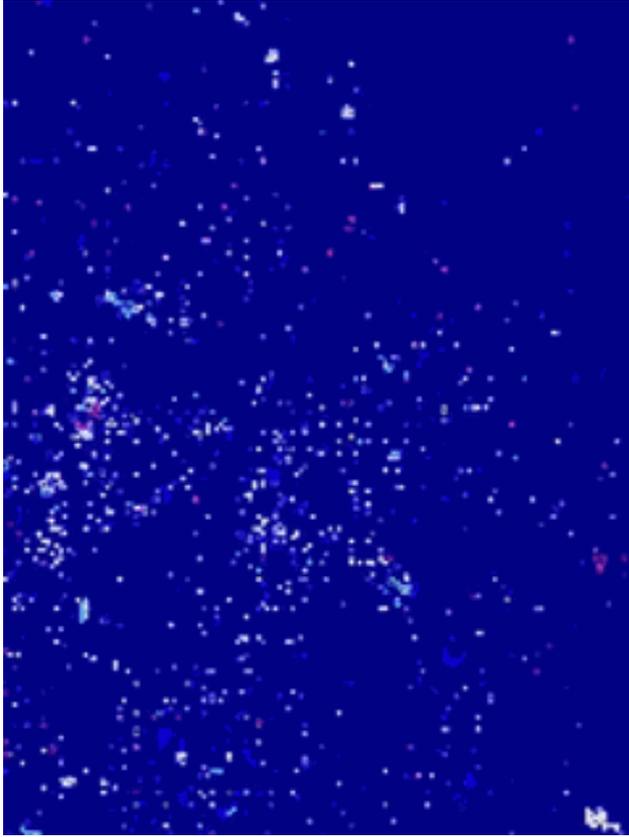
Original Formats are rectangular.

The presentation is on screen and by prints.

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3 + 1

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How generate and use Professional Imaging Data.

2

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