

Monday, November 26, 2018

The lunar limb.

The irregularity of the lunar limb is the cause of **Baily's beads collimated** rays of **sunlight** that shine through in some places, and not in others, during a **solar eclipse**.

The contrast of a brightly illuminated limb against a black sky makes it a popular target when testing **telescope** and **binocular optics**.

The lunar astrophotography. Step 1.

What is a parallax.

Parallax is the effect of changing the position of the observer on the observation of an object.

In other words, parallax is the effect of changing the observer's position on what he perceives.

This word appears in the sixteenth century, means contiguous displacement.

The parallax is one of the main indices that allow the perception of depth. It concerns on the one hand the binocular vision, and on the other hand, the difference in the apparent displacement of the near objects and the distant objects during the small movements of the observer.

In psychology, parallax is a modification of subjectivity, the difference of

perception of the same reality.

A subject is said to be a parallax when he perceives a reality or a state in a different sense, and manages to decenter from his own perception to construct a new sense of the same reality.

The essence of psychological therapy is to help the subject to create a parallax of reality that combines common sense and serenity.

The parallax of sight is the difference of framing between the image given by a viewfinder and the image passing in the lens of a camera.

The inaccuracy due to parallax does not exist with a single-lens reflex camera (whose aiming is through the lens of shooting through a mirror) unlike a dual-purpose camera for which the aiming is performed through a lens located above the shooting objective.

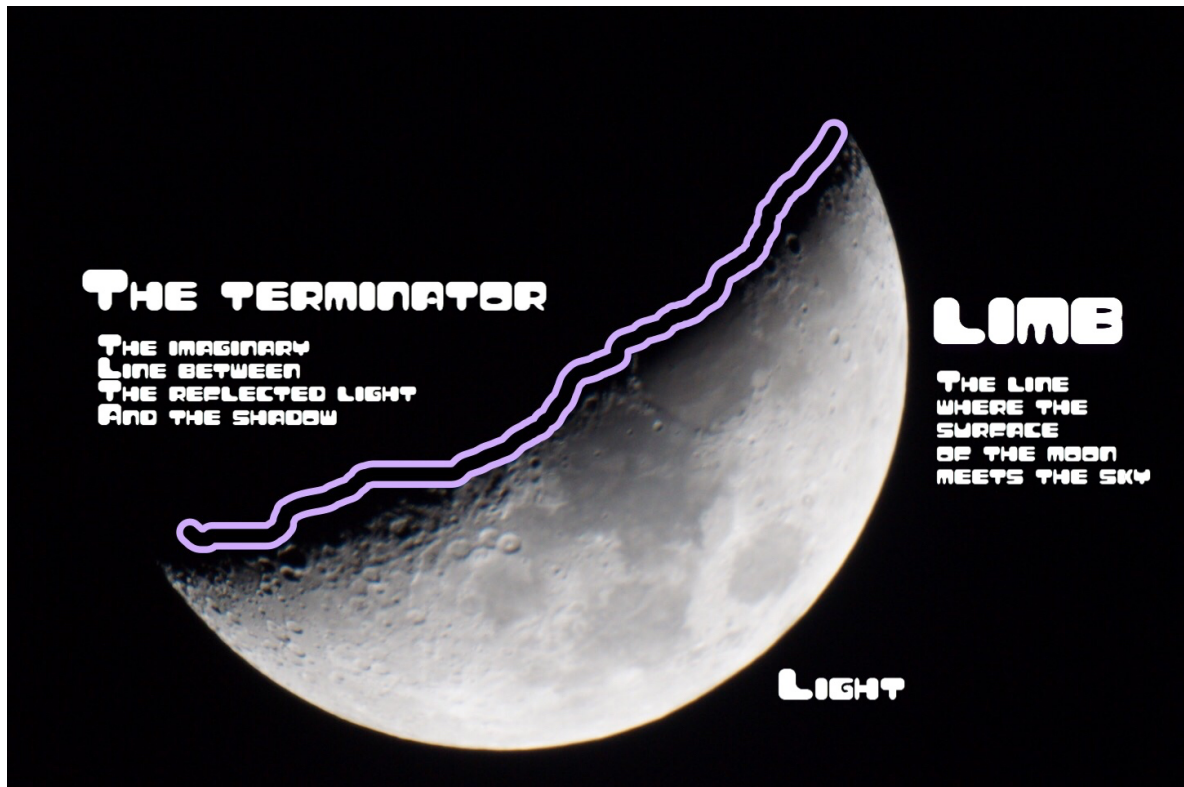
In astronomy, parallax is the angle under which can be seen from a star a reference length:

For the Stars of the Solar System: it is the radius of the Earth that has been chosen: it is the diurnal parallax.

For the stars outside the Solar System: the reference is the semi-major axis of the Earth's orbit, an astronomical unit: it is the annual parallax.

In the cinema world, parallax is used as an effect that marks the contrast between the subject and the background.

For that we realize a movement on the camera, often thanks to a traveling.



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A terminator is the term used to describe the line that separates the illuminated and dark side of the moon or any object.

When we see the illuminated side not aligned with the direction of light creating it, it's because of visual angles, foreshortening and horizon lines.

The same thing happens to our perspective with up-close objects, but the difference is in the clues.

The brain is able to use our past experiences and knowledge of the world around us to recognize shapes that are distorted by perspective.

The Moon Terminator Illusion and Dolly Zoom Effect:

When it comes to capturing a scene on camera, our brains can be manipulated because the camera crops out the visual cues we normally rely on.

When moving a camera forward like when doing a tracking shot closer objects are more distorted than objects further away from view.

But, when zooming in, the entire scene is affected in equal measure.

The Dolly Zoom Effect uses both zooming and moving simultaneously to deliver a trippier effect, which was popularized by Hitchcock in his films.

The effect keeps the subject the same size while altering the distance and focal length.

Understanding both the Moon Terminator Illusion and the Dolly Zoom Effect helps us make sense of the strange optical illusions that we see so often.

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