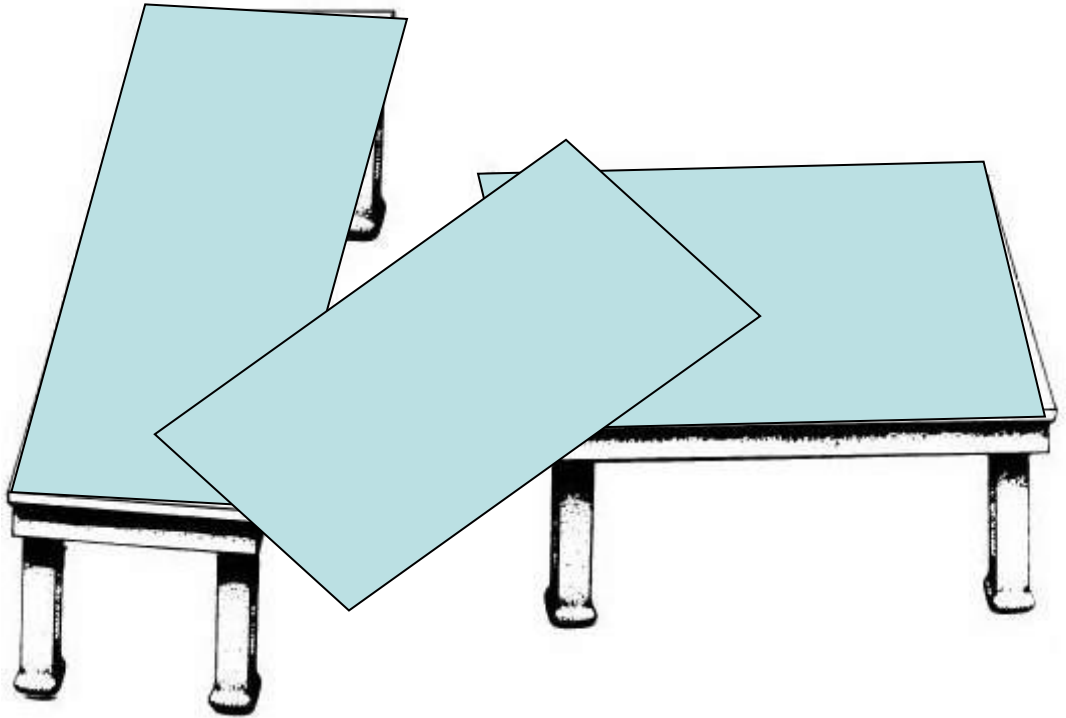
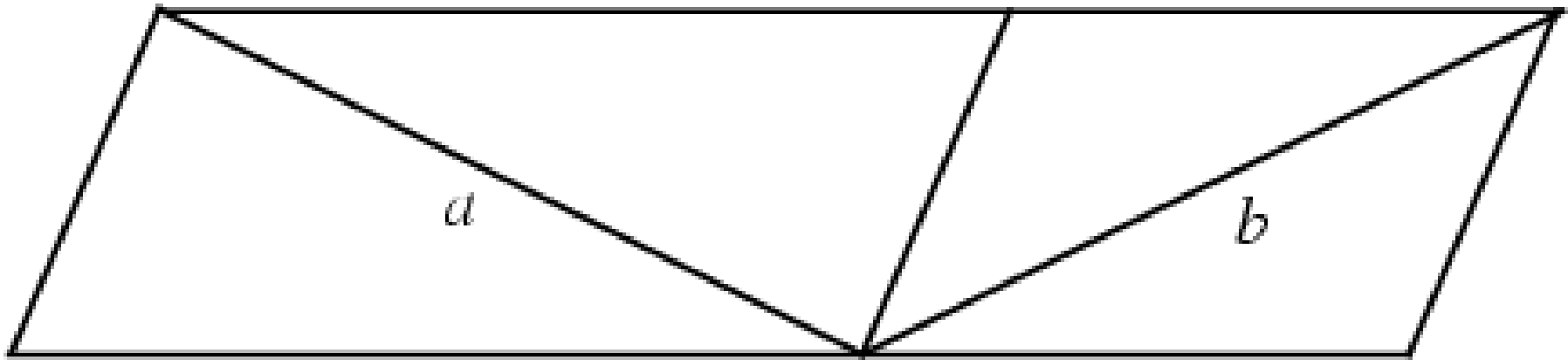


Shape Constancy

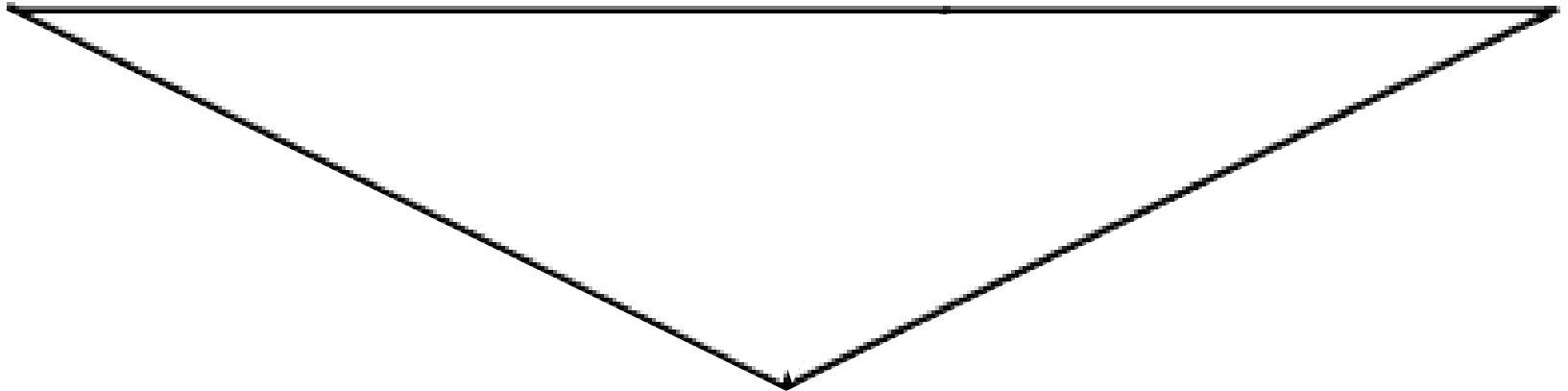


Source: MIND SIGHTS by Roger N. Shepard. Copyright © 1990 by Roger N. Shepard.

Parallelogram Illusion

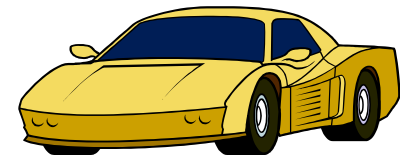
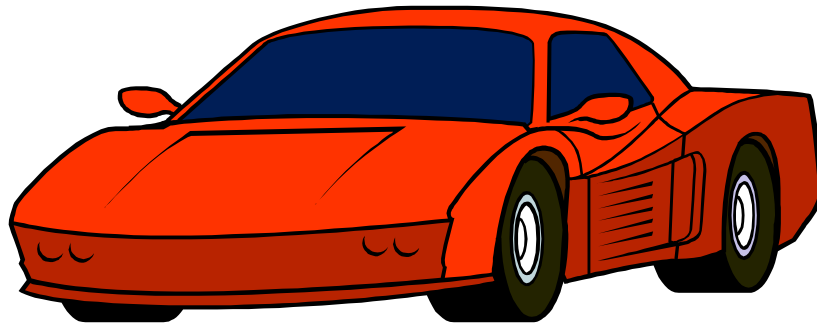


Parallelogram Illusion



Size Constancy

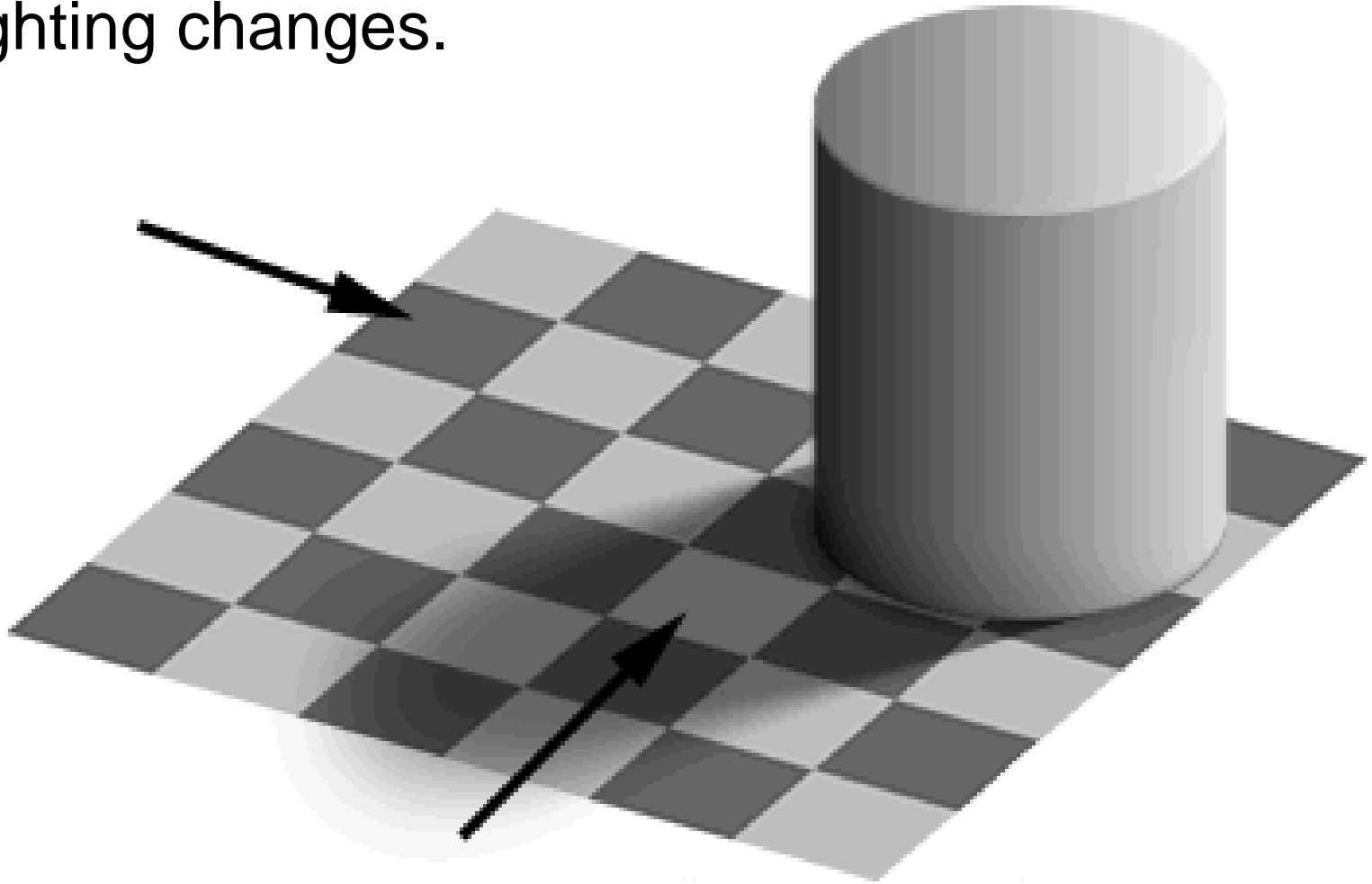
Stable size perception amid changing size of the stimuli.



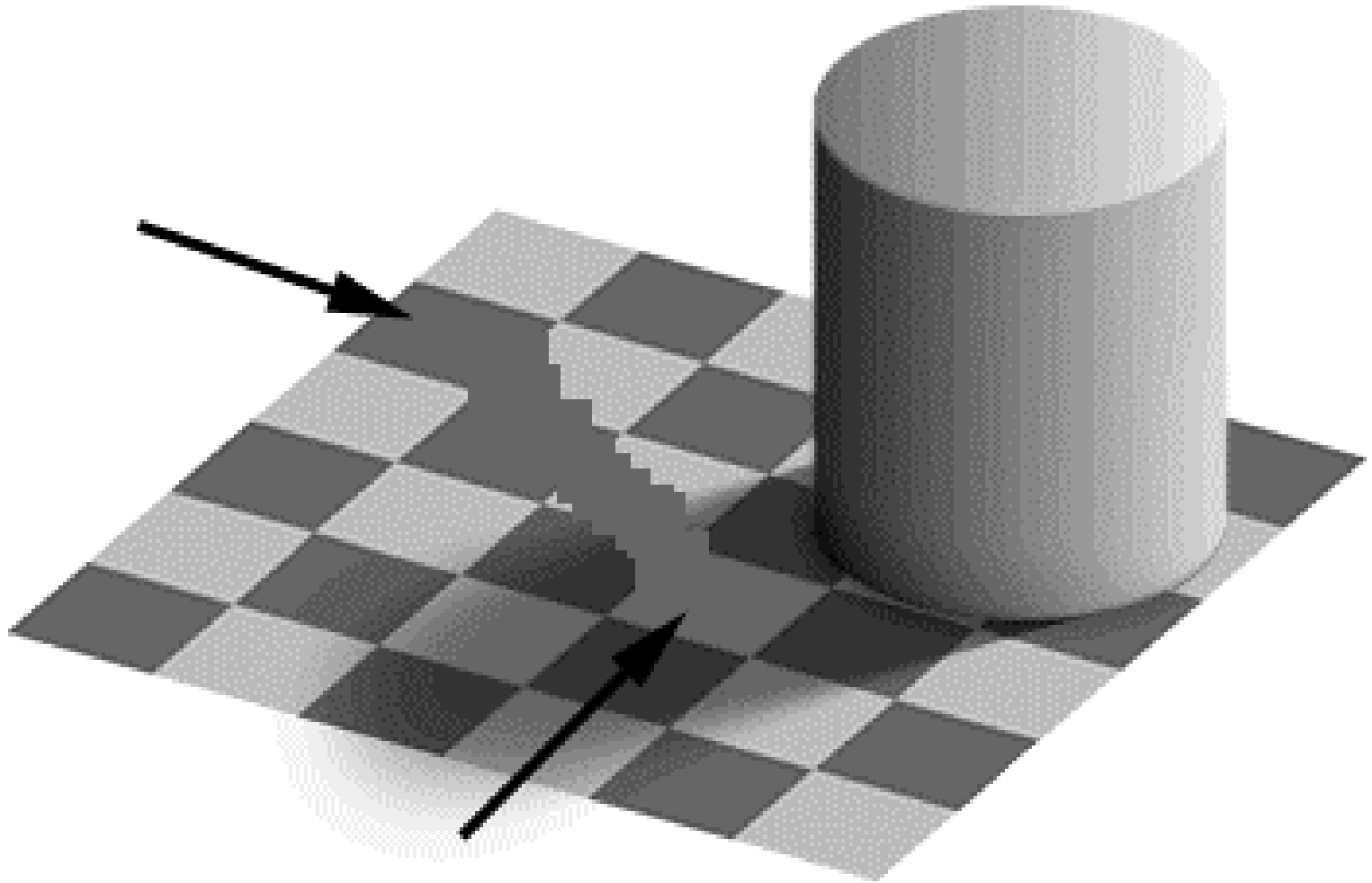
Size Constancy

Brightness Constancy

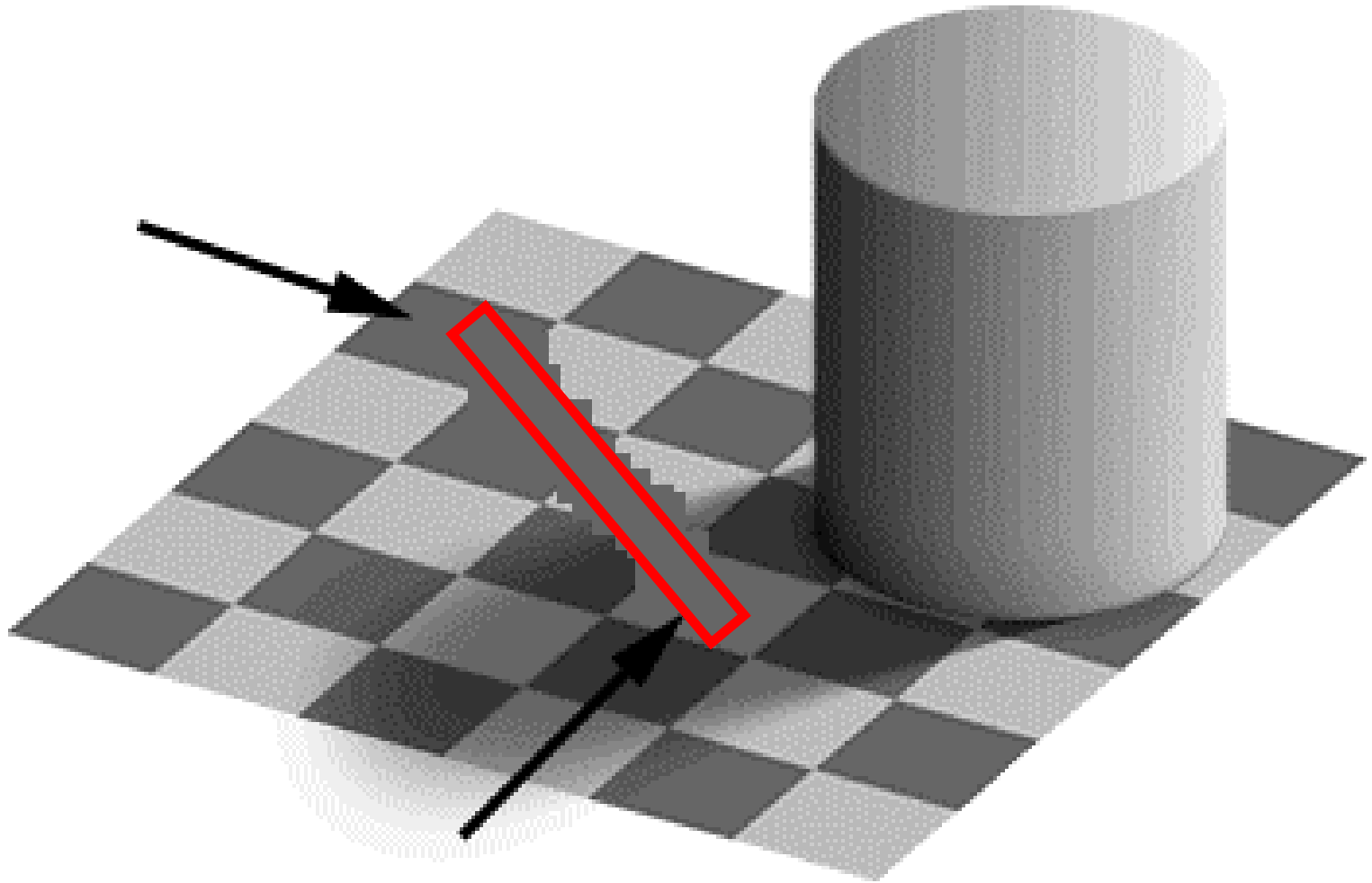
Our visual ability to perceive objects as having the same level of brightness even though the level of lighting changes.



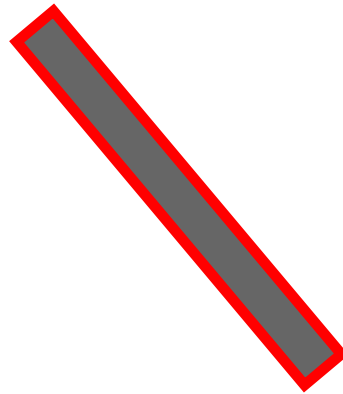
Brightness Constancy



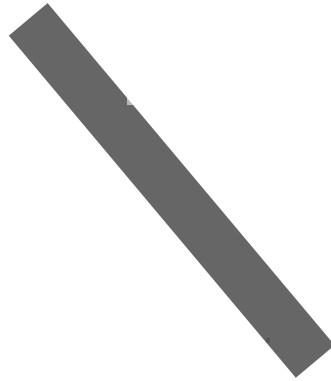
Brightness Constancy



Brightness Constancy

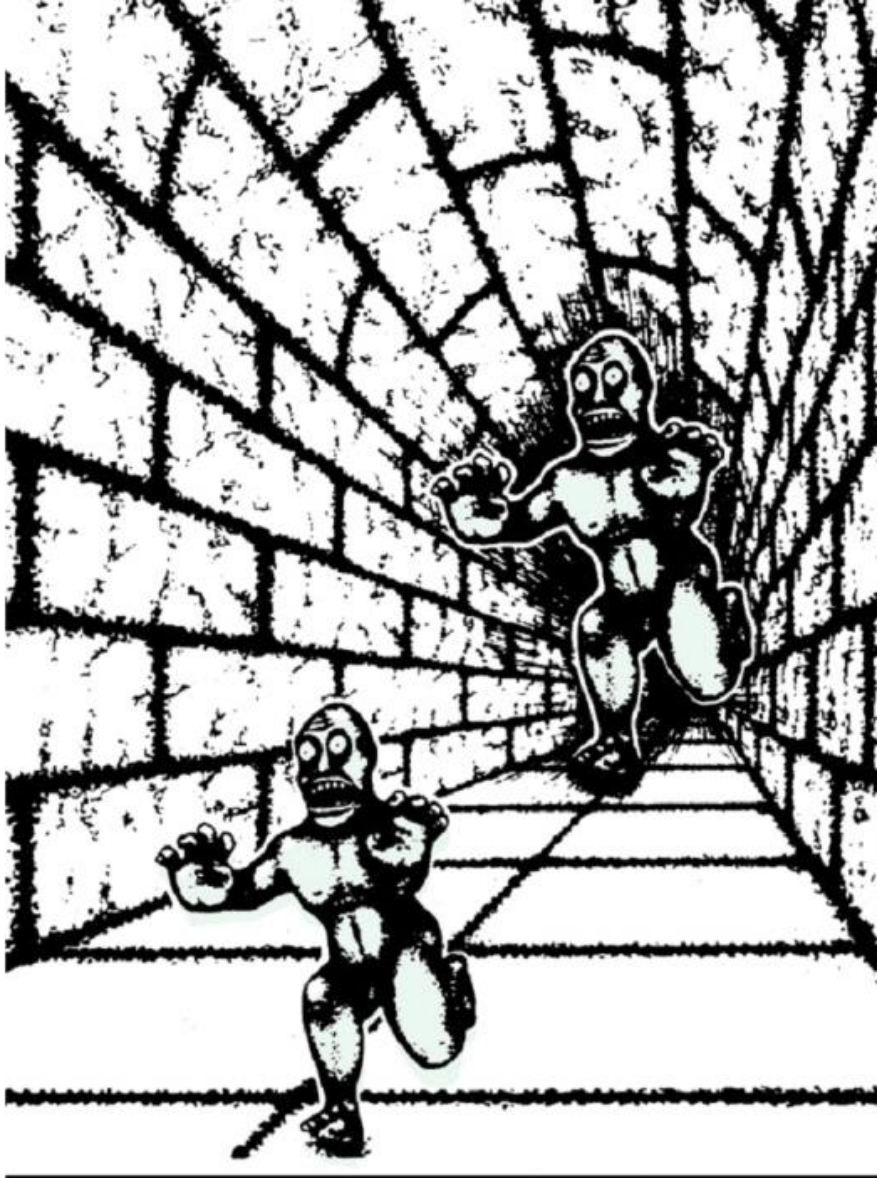


Brightness Constancy



Size-Distance Relationship

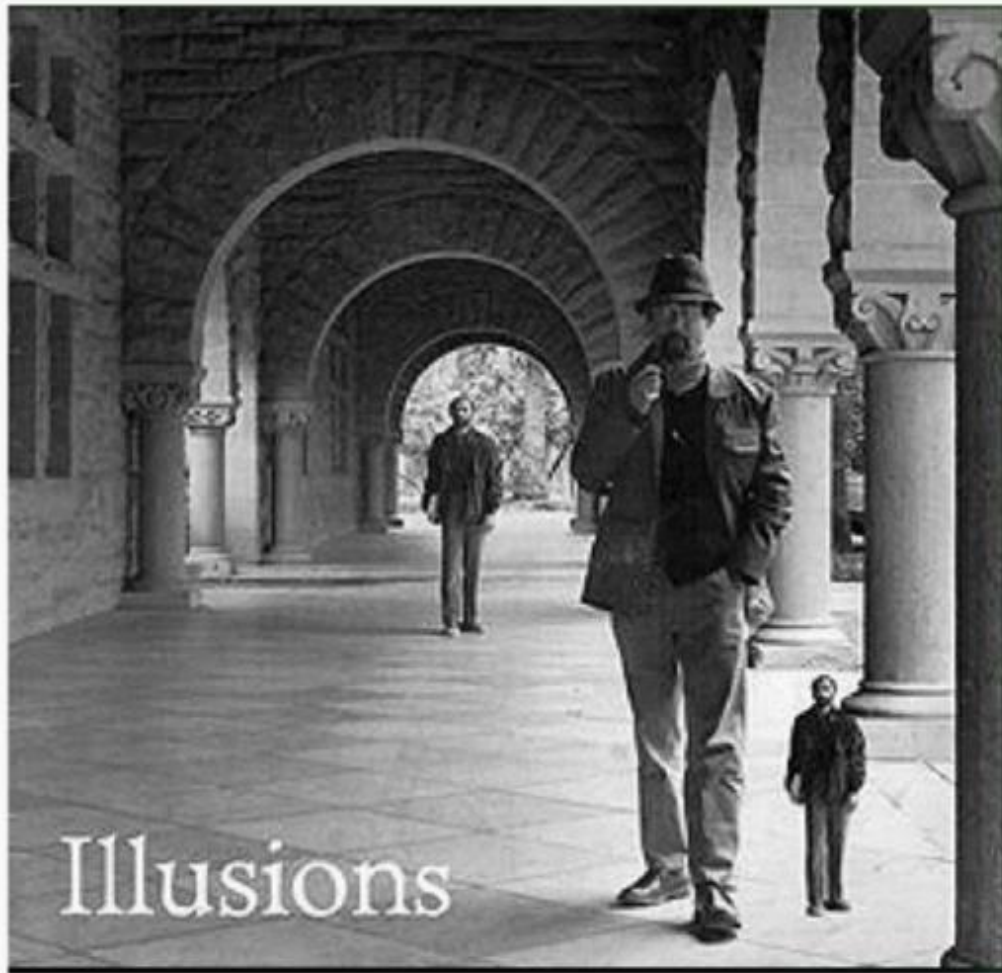
The Monster Illusion



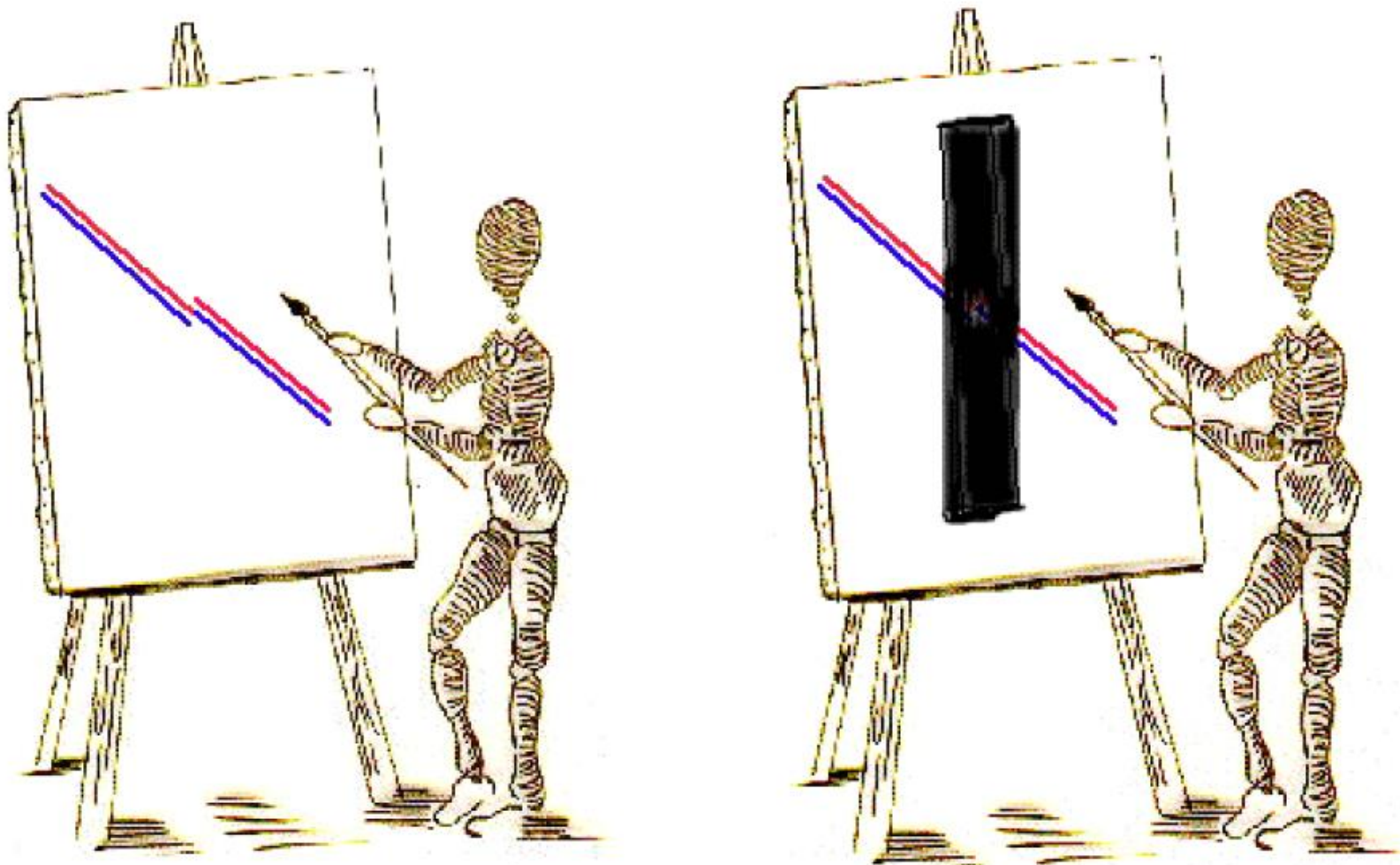
The images are actually the same distance from the observer (as the screen is flat), but because of relative height and linear perspective, the monster on the top appears to be farther away.

Perceived size is a function of perceived distance

Size-Distance Relationship



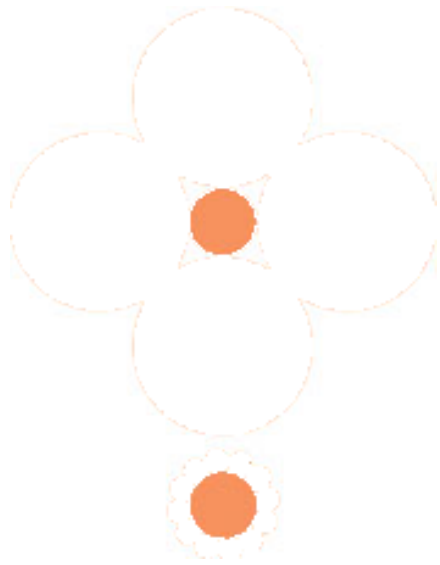
*Perceived
size is a
function of
perceived
distance*



The images are exactly the same except for the thick black area in the right image (an example of the Poggendorff illusion (1860)). In the figure on the right, there appear to be two continuous diagonal lines: a red and a blue line. What occurs in your visual system that could account for the appearance of the continuous diagonal lines?

Illusions

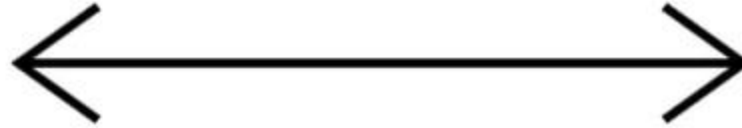
- When perception does not accurately represent the world



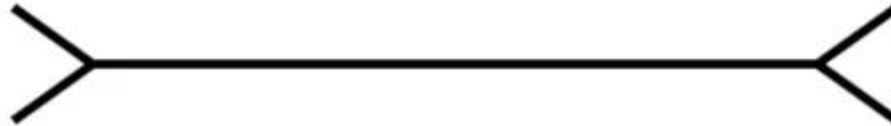
Illusions are valuable in understanding perception because they are systematic errors. Illusions provide hints about perceptual strategies

Which straight line is longer?

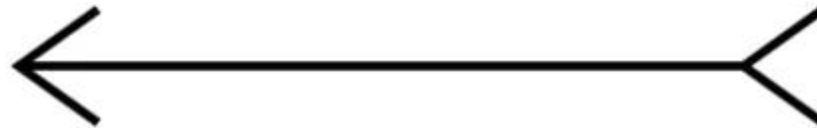
A.



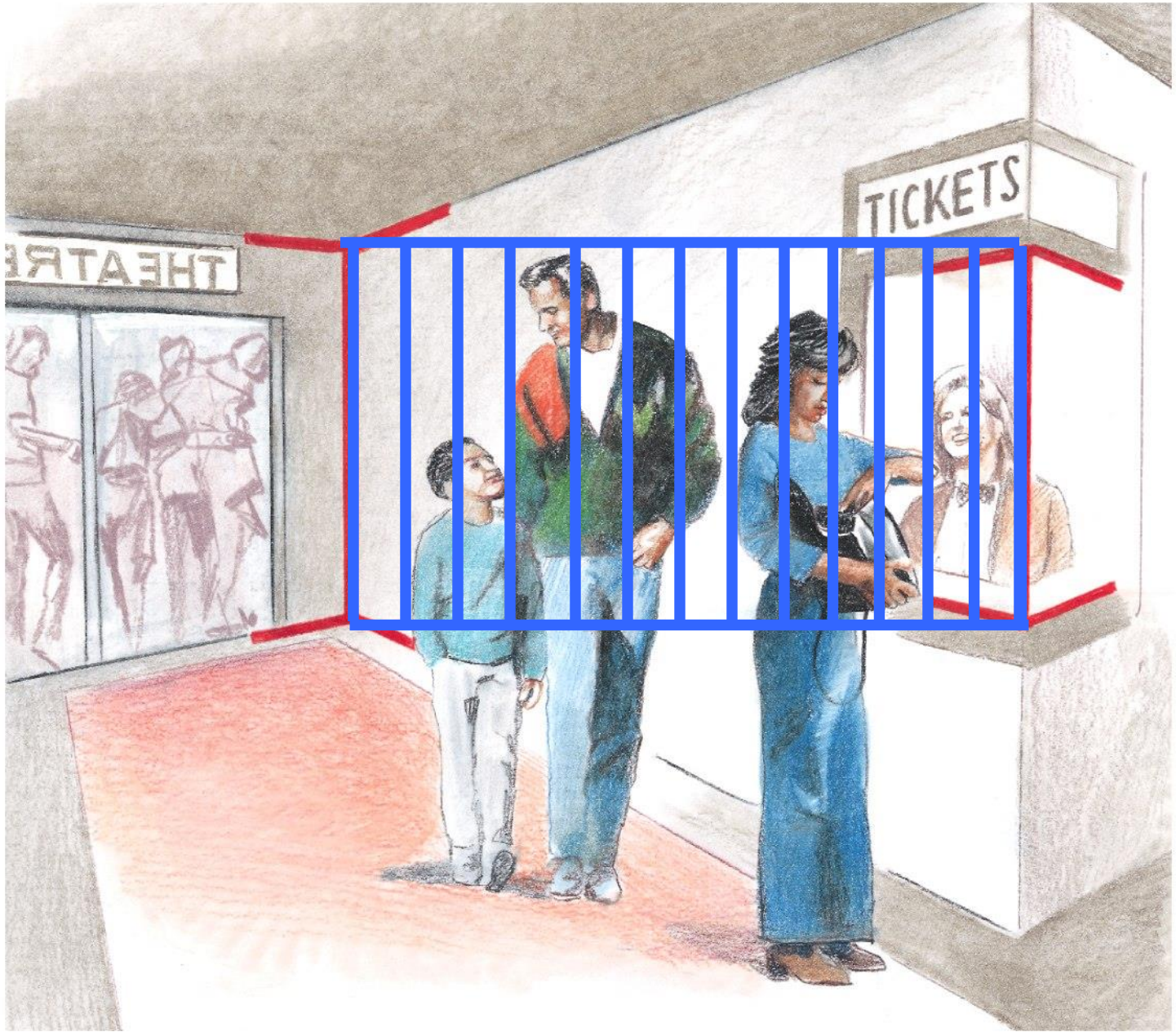
B.



C.

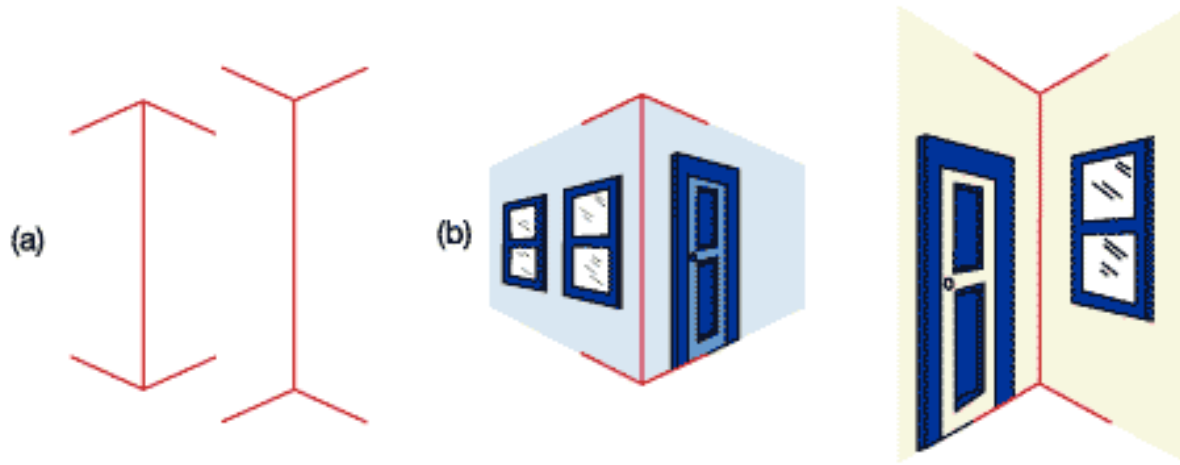


Muller-Lyer illusion



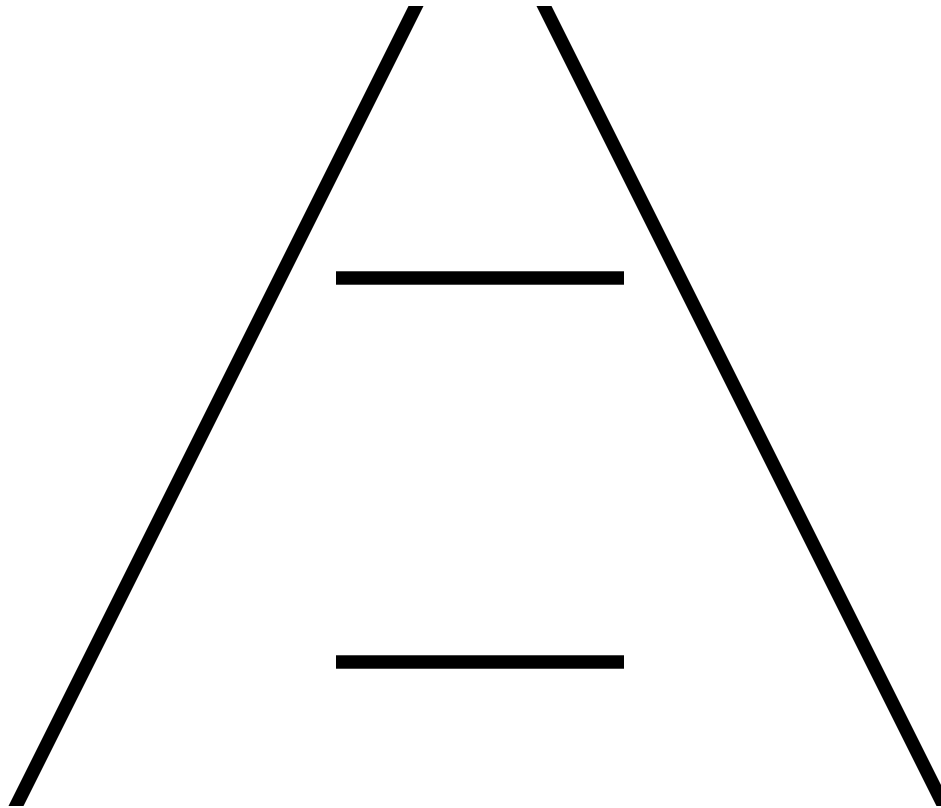
Muller- Lyer Illusion





- In the Muller-Lyer illusion (above) we tend to perceive the line on the right as slightly longer than the one on the left.
- This is because the extensions are moving outward, not inward.

Ponzo Illusion

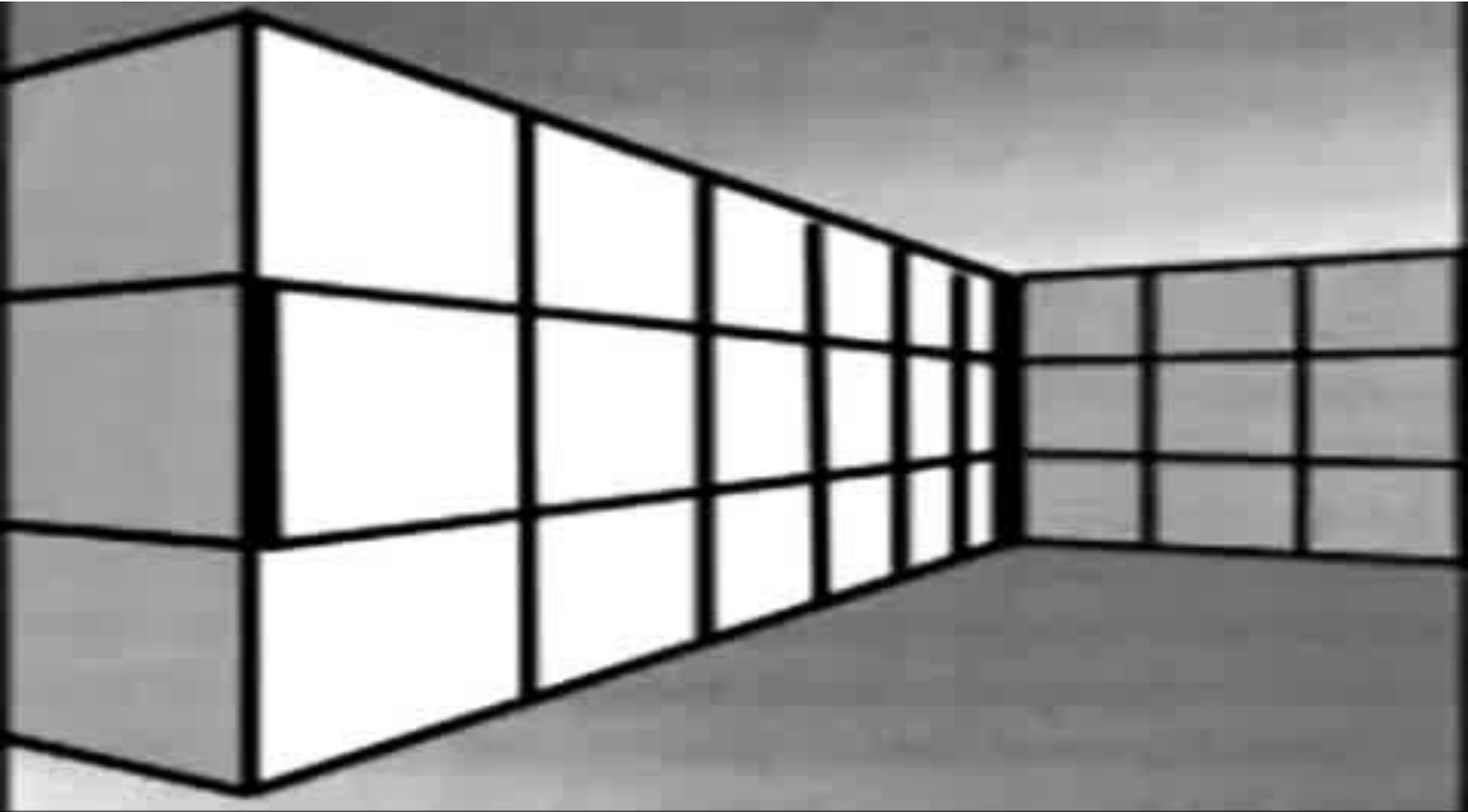


Ponzo Illusion

The human mind judges an object's size based on its background.



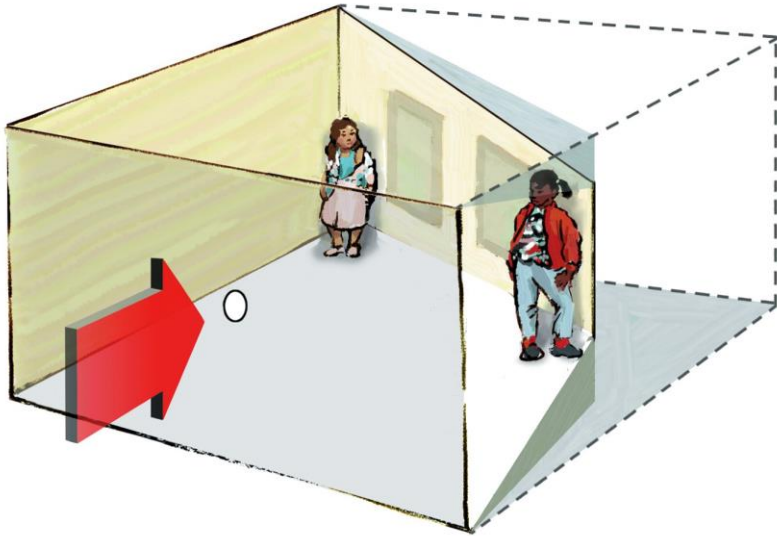
Ponzo Illusion



**Is Seeing
Believing?**

run

Ames Room

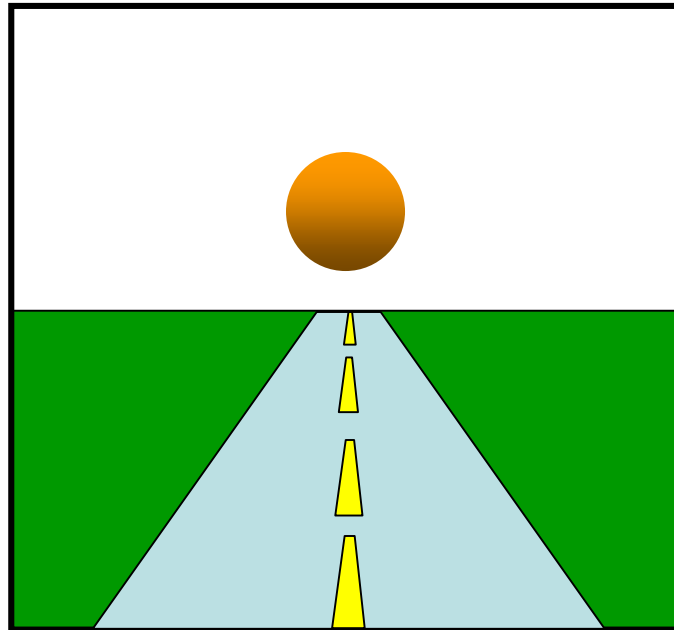


- An Ames room is viewed with one eye through a peephole.
- It is designed to demonstrate the size-distance illusion.



Motion Perception

Motion Perception: Objects traveling towards us grow in size and those moving away shrink in size. The same is true when the observer moves to or from an object.

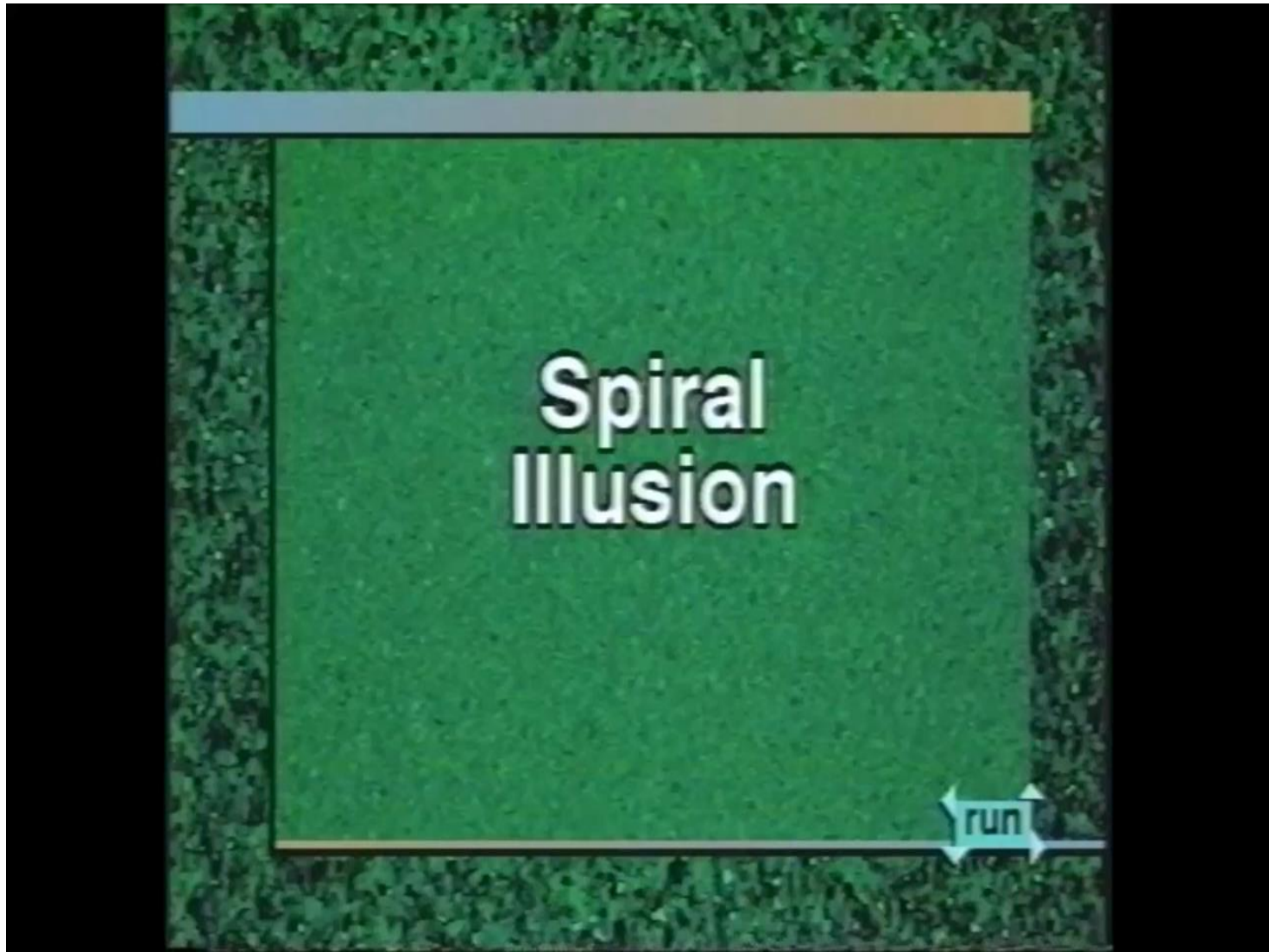


The Moon Illusion



Perception of Motion

- **Looming:** Rapid expansion in the size of an image so that it fills the retina



Perception of Motion

Mario Flipbook



- **Stroboscopic Motion:**
Tendency to perceive movement when a series of still images appear, one at a time, in rapid succession (cartoons, films)

GAME OVER Project

A photograph of an empty theater with rows of blue seats, illuminated by stage lights. The text "GAME OVER Project" is overlaid in the top left corner.

www.NOTsoNOISY.com

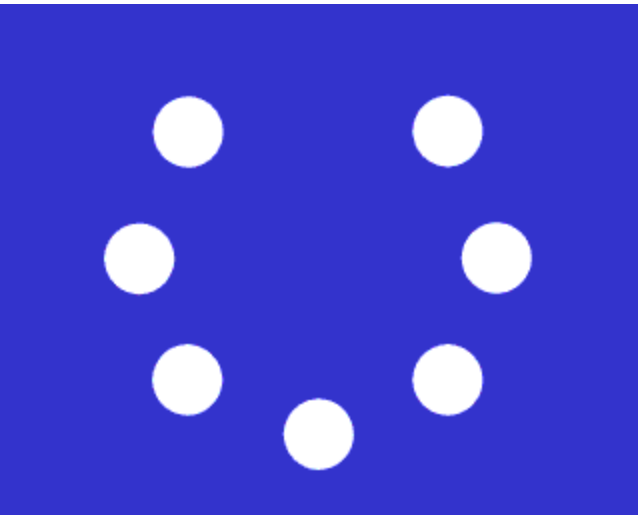
Phi

Phenomenon:

When lights flash at a certain speed they tend to present illusions of motion.

Neon signs use this principle to create motion perception.

Apparent Motion



McGurk Effect

- 1/2 of students
 - Open eyes, watch video & listen
- 1/2 of students
 - Close eyes, just listen
- Write down: What sound did you hear?

McGurk Effect



McGurk Effect

The "McGurk Effect" illustrates that one sense can influence another. (Sensory Interaction)

It also demonstrates...

