

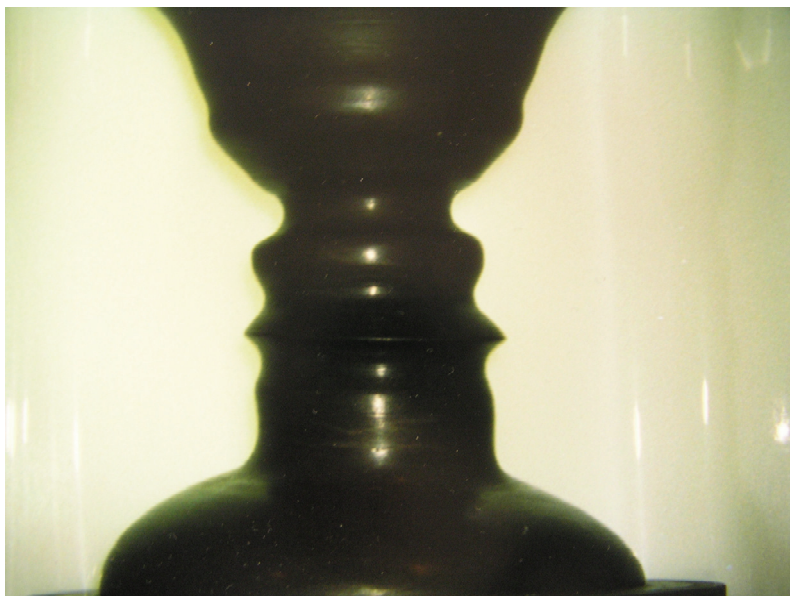
4.3a Factors in Perception

Perception

Ψ Influences would include...

- Bottom-Up Processing
 - Small components are combined until a complete perception is formed.
- Top-Down Processing
 - Past experiences and knowledge are used to recognize the and identify the simpler elements of the whole figure.
- Perceptual set
 - An expectation of what will be perceived.

Figure Ground Perception

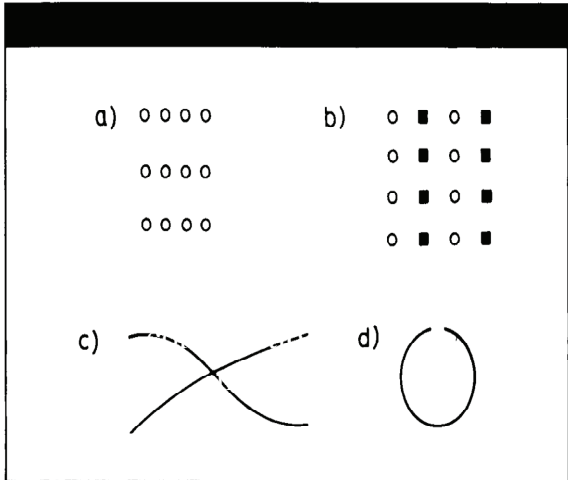


4.3b Factors in Perception

National Standards Sens. & Perception: Environment & Person

Gestalt Organizing Principles


Ψ Proximity (a)
Ψ Similarity (b)
Ψ Continuity (c)
Ψ Closure (d)



The diagram illustrates four Gestalt Organizing Principles:

- a) Proximity:** Three rows of four small circles. The top row is solid circles, the middle row is dashed circles, and the bottom row is solid circles. The circles in each row are grouped together due to their proximity.
- b) Similarity:** A 4x4 grid of shapes. The first and third columns contain circles, while the second and fourth columns contain squares. The shapes are grouped by similarity (circles together, squares together).
- c) Continuity:** Two intersecting lines. One line is solid and the other is dashed. The lines continue through the intersection point, illustrating the principle of continuity.
- d) Closure:** A circle with a small gap at the top, illustrating the principle of closure where the mind fills in the missing part to perceive a complete circle.

Gestalt Organizing Principles



The illustration shows the word "STAIN" in red, with the letters arranged in a way that demonstrates Gestalt Organizing Principles. The letters are grouped by proximity and similarity, and the overall shape of the word is perceived as a single unit. Below the word, the letters "S", "T", "A", and "I" are shown in blue, illustrating the principle of closure where the mind fills in the missing parts to perceive a complete word.

4.3c Factors in Perception

Perceptual Constancies


ΨConstancy: tendency for objects to be perceived as remaining the same despite changes in sensory input

- Shape Constancy
- Size Constancy
- Brightness Constancy
- Color Constancy

4.3d Factors in Perception


National Standards Sens. & Perception: Environment & Person

Is it me or is this hallway getting smaller???? What is that light?
We'll have to bend down to get out!!



National Standards Sens. & Perception: Environment & Person

Is Mr. Matiya bigger than Mr. Wooley?



1 1/16"

4.3e Factors in Perception

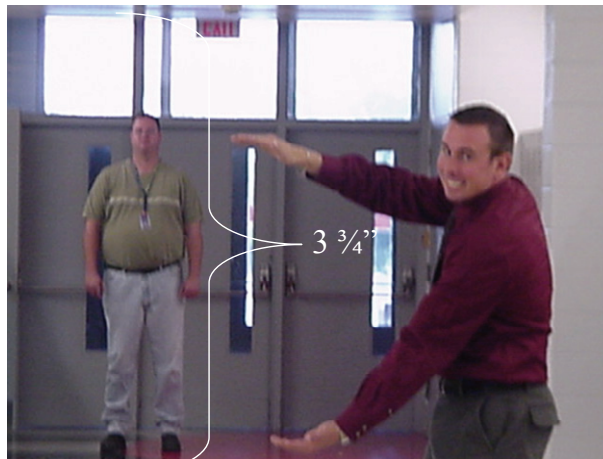
National Standards Sens. & Perception: Environment & Person

Right before your eyes!!
Mr. Wooley is growing!!



National Standards Sens. & Perception: Environment & Person

Mr. Geiger?
How small is Mr. Wooley?



4.3f Factors in Perception

National Standards Sens. & Perception: Environment & Person

How BIG are we??



National Standards Sens. & Perception: Environment & Person

In Real-Life?



4.3g Factors in Perception

Depth Perception

Ψ The ability to see the world in three dimensions

Ψ Binocular Depth cues such as convergence and binocular disparity

Depth Perception

Ψ Monocular Perception

- Interposition
- Linear perspective
- Relative Size
- Texture Gradient
- Shadows and shading
- Motion parallax


4.3g Factors in Perception

National Standards Sensation. & Perception: Depth Cues

Monocular Perception

Ψ Interposition

- When one object blocks part of the view of another, you perceive the blocked object to be further away





National Standards Sensation. & Perception: Depth Cues

Monocular Perception

Ψ Linear Perspective

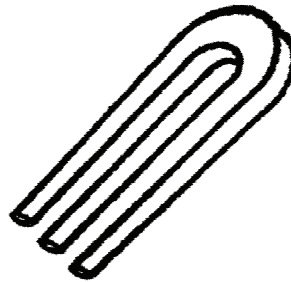
- Parallel lines are the same distance apart but seem to get closer as they converge



4.3h Factors in Perception

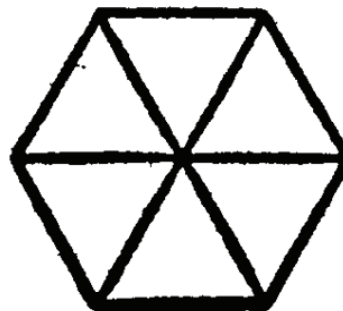
Hall of Illusions

Here doggie, come here The Devil's pitchfork!



Hall of Illusions

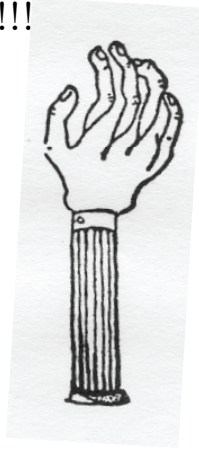
Triangles or...a cube?



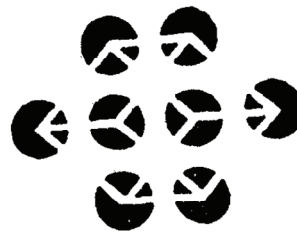
4.3i Factors in Perception

Hall of Illusions

Let me count using my fingers, that's 1, 2, 3, 4, 5, 6, 7, 8!!!!

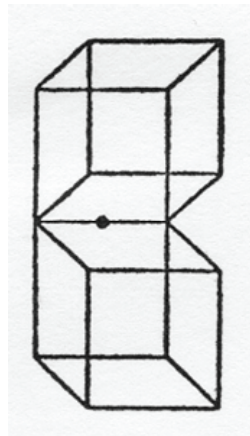


Ψ What cube?



Hall of Illusions

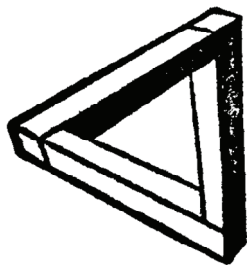
Do not stare at the dot.
I warned you!!!!



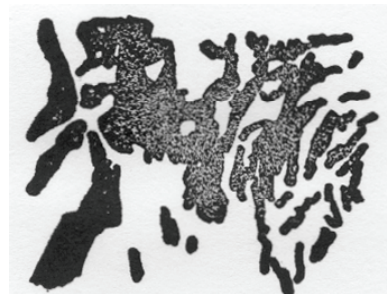
4.3j Factors in Perception

Hall of Illusions

Why is it called an impossible triangle???



Jesus?

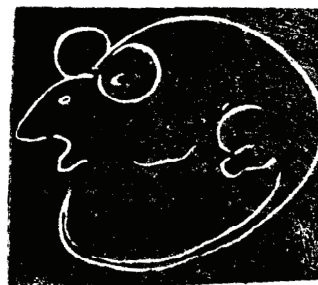


Hall of Illusions

Young lady or old lady?



Are you, a Man or a Mouse?




4.3k Factors in Perception


National Standards Sensation. & Perception: Gestalt Concepts

Hall of Illusions

Tree or wolf?

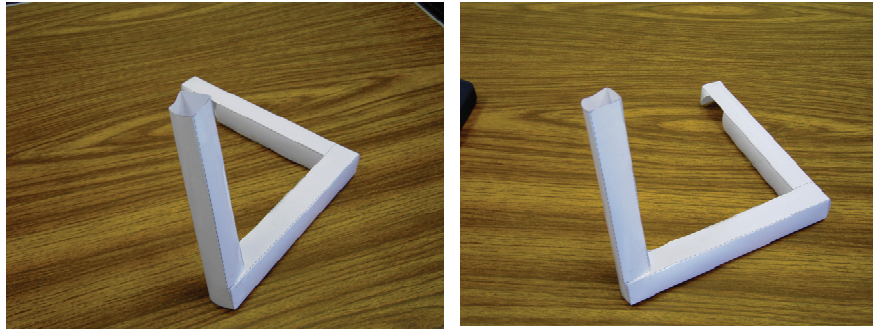


Ψ Question mark or bird?



4.3I Factors in Perception

The Impossible Triangle



An illusion or do we see what we want to see??



A hidden picture in the lettering of Coca-Cola of a man doing cocaine?



4.3m Factors in Perception

Hall of Illusions...The End

