



What is it?

Sensation: what information you gather though senses

Perception: how
 you interpret
 that information





When do you use it?



Every day, all of the time. Seeing, hearing, smelling, feeling, and tasting



Sensation

 Stimulus: a change in the environment to which an organism responds

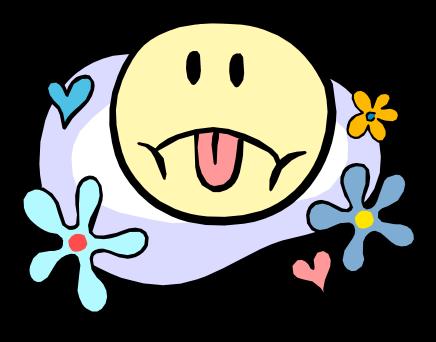




Sensation



 Occurs anytime a stimulus activates a receptor: eyes, ears, skin, nose, tongue Sensation Perception: the organization of sensory information Psychophysics: studies how stimuli affect sensory experiences





Threshold



Figuring out how much stimuli is needed to activate a sensation half the time

Human Thresholds

- Vision: candle 30 miles
- Hearing: watch tick-20 feet
- Taste: 1tsp. Sugar in 2 gal. H₂O
- Smell: 1 drop of perfume in 3 room house
- Touch: feeling a bee's wing @ 1cm



How do we compare to other animals?

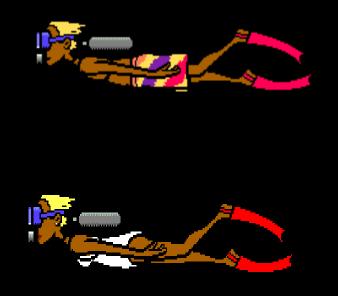
List on the board – who has better sight, hearing, feeling, tasting, and smelling skills?

Sensory Adaptation

Senses are most responsive to increases or decreases. Vision in a movie



Without Sensory Adaptation



Stimuli would bombard your senses.

 Pools never warm, clothes hang, etc.
 Notice only

changes

Small Detection Theory

Threshold can depend on other factors -Preattentive process automatic -Attentive process -



Signal-Detection Theory



All things require attention, some require more than others.
 Stroop Effect



 Unconscious organization of stimuli into meaningful experiences



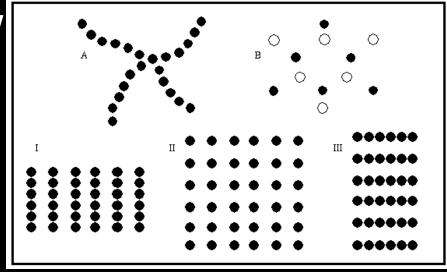




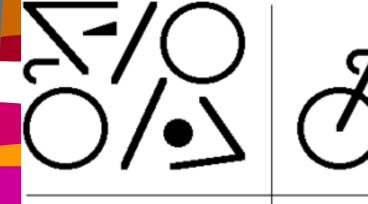
Gestalt: the experience that comes from organizing bits and pieces into a meaningful whole

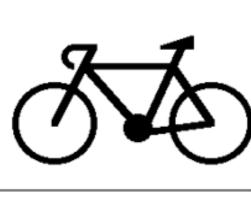


 Gestalt principles allow you to group items and recognize patterns



The unified whole is different from the sum of the parts.





Principles people use to organize include - Proximity - Continuity - Similarity - Simplicity - closure



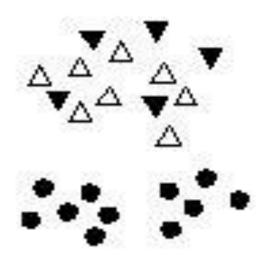
Similarity

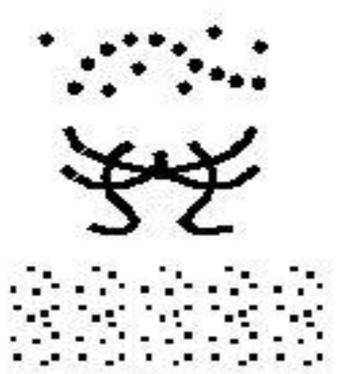
Proximity

Good continuation

Symmetry

Periodicity



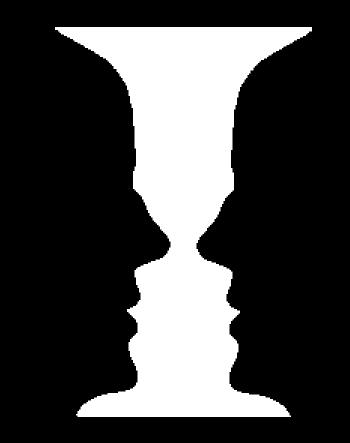




These principles help explain how we organize and group our sensations to make sense of the world.



Figure-ground Perception



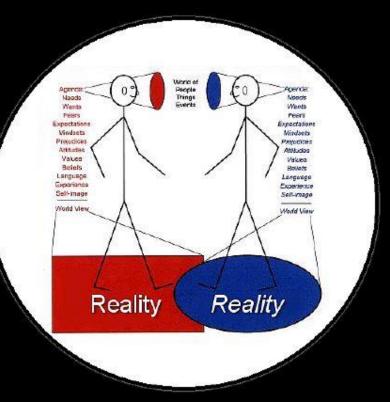
The ability to distinguish between a figure and it's background Applies to 2D as well as sound

Perceptual Inference

The ability to fill in the gaps for our senses. Sitting in a dark theater, road continues over a steep hill, etc.



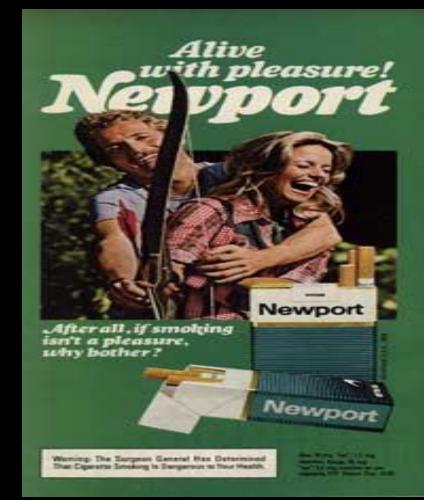
Learning to perceive



Begin to learn as baby Active involvement with environment Perceptual set

Subliminal Perception

Subliminal messages using techniques below human thresholds Unconscious messages



Depth Perception

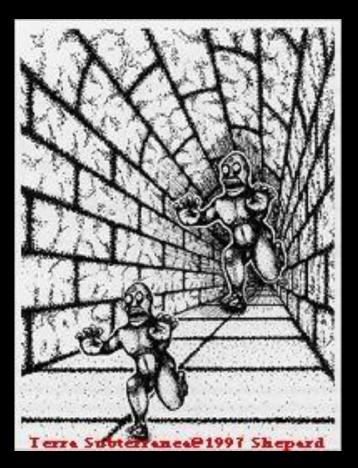


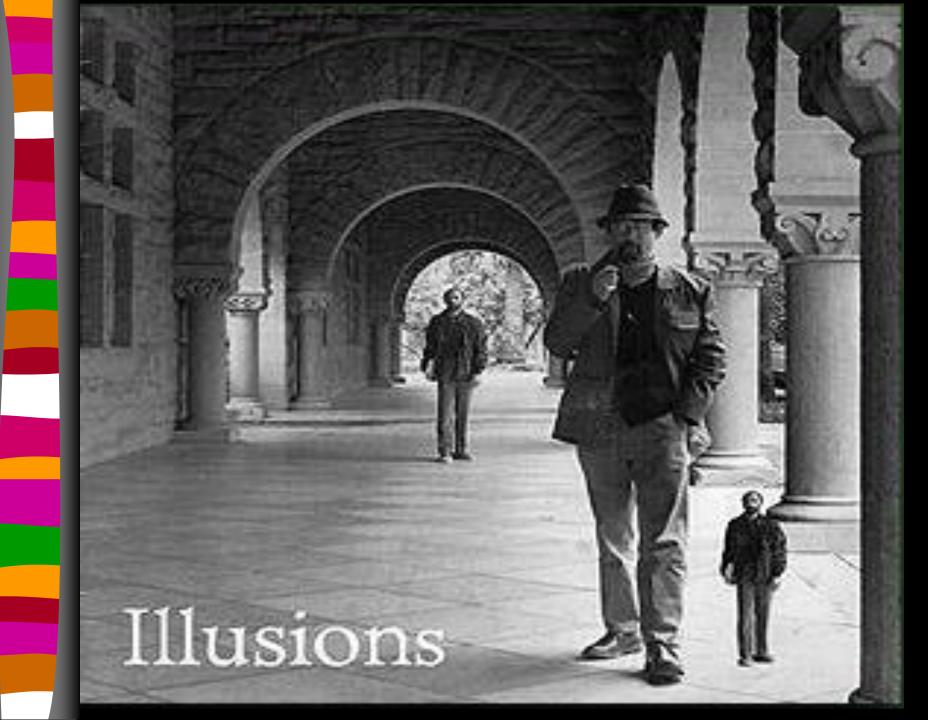
Ability to recognize distance and 3D
 Develops in infancy



Constancy

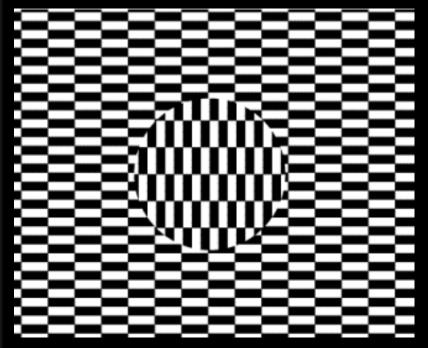
Perceiving objects in the same way, regardless of position.
 Size constancy







Illusions



Incorrect Perceptions Perceptual clues are distorted, so we cannot interpret correctly



Illusions

Often with illusion, the tendency is to "see" in 3D an object that is
 2D



Extrasensory Perception



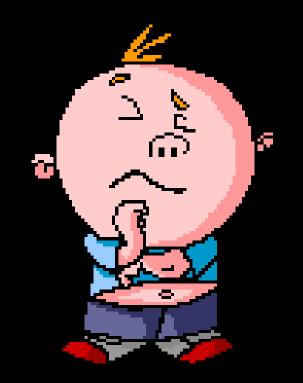
Receiving information though channels other than our normal senses



ESP

Four types
 Clairvoyant
 Telepathy
 Psychokinesis

-Precognition





Clairvoyant



Perceiving objects or information without sensory input Not fortunetelling



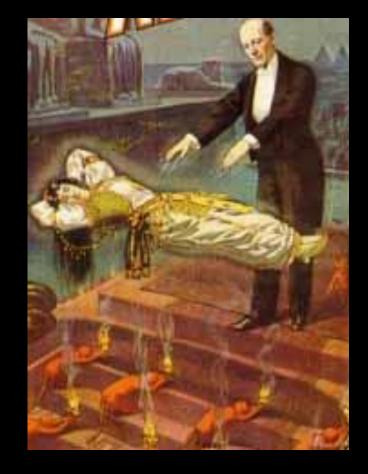
Telepathy

Reading someone's mind, or transferring one's thoughts





Psychokinesis



 Moving objects with only mental effort
 Carrie



Precognition

The ability to foretell events
Nostradamus
Sylvia Brown
Theresa Caputo

