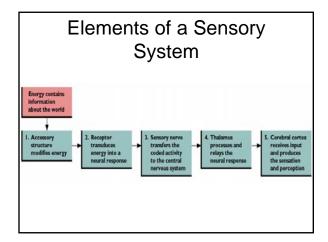
Sensation & Perception	
What is sensation & perception?  emitted or reflected by Pone by sense organs  - Process by which the and sensory information _ Done by the	
How does work?  • receptors detect in in nervous system to fire  • Impulses reach the, which interprets the signal	



Sensory and	
The of sensory responsiveness when stimulation is or repetitious.  Prevents us from having to respond to information.	
The absence of normal levels of sensory stimulation.	

Sensory	
•	of the senses.
• Can use sensory overload.	to reduce
	ention on selected aspects of d the blocking out of others.

# Attention • This task, called \_\_\_\_\_\_, is used to examine \_\_\_\_\_. • Most people do not recall many \_\_\_\_\_ words, even though they were repeated many times.

#### **Subliminal Messages**





How you can use Subliminal Power to change your mind AND your body ... WITHOUT EFFORT!

#### AND THAT'S JUST THE BEGINNING!

Subliminal Power can also change your inner personality... within minutes! How would you like a brand new body? Subliminal Power can literally change your physical body... without surgery!

For only \$49.99 + tax & s/h

## Attentional Processes Influence without Awareness Examples:

•		_ Message
	- A stimulus that is	nresented

 A stimulus that is presented below the threshold for awareness.

Tendency for a recently presented word or concept to facilitate responses in a subsequent situation.

\_\_\_\_\_

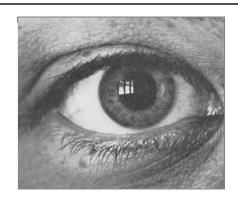
# Attention in Perception: Messages Despite not being aware of the words that they "saw", those exposed to words were happier and those exposed to words were sadder. This indicates that moods can be influenced without awareness.

٧	е	rs	u	S

Although subliminal priming can influence
 \_\_\_\_\_ and
 \_\_\_\_\_, research doesn't
 support its success in major levels of

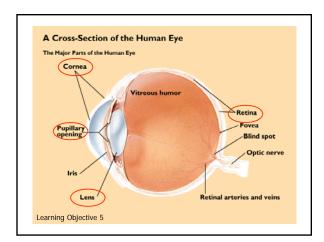
V I S I O

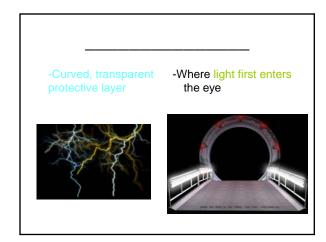
Ν



## Accessory Structures of the Eye

- Cornea
- Pupil
- Iris
- Lens





• Opening right behind the \_\_\_

- Black small circle in the middle of the eye
- Dilates when light is dark



Works with the \_

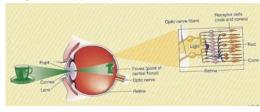
rays so that they can be properly focused on the retina



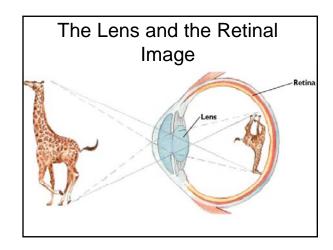


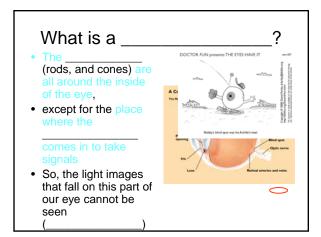
• Surface on the back of the eye that reads images

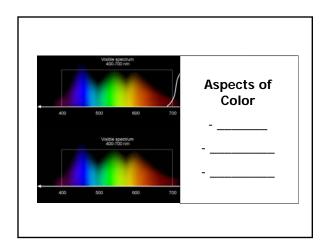
• Images are flipped upside down



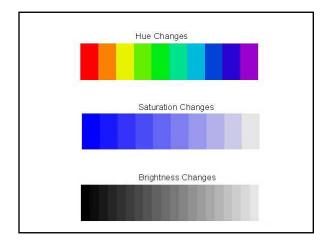
- Rods - Cones	
in the Eye  In the, the incoming stimulus is converted to neural activity  responsible for this process  Rods Cones	
Rods and Cones  - allow sight when light is dim (light sensitive) - Cannot discriminate between - Less light sensitive - Can discriminate between colors	





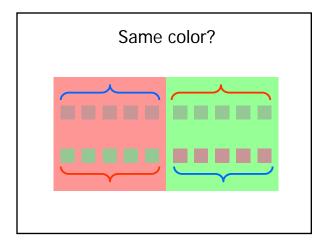


• Color	
• Determined by the dominant	
MIXTURES OF PIGMENTS (Subsection primaries)	
YELOW	
MAGDITA STAN	
<ul> <li>Intensity of the wavelengths that make up the colors you see.</li> </ul>	
	1
Purity of the color	
No. of the last of	



### Theories of Color

- \_\_\_\_\_ theory
- Blue, Green and Red light can mix to make any other color
- Doesn't explain afterimages
- Theory
  - Three pairs of opposing sense cells that inhibit its counterpart
    - Red/green, blue/yellow, black/white pairings
- Theories combine to explain color vision



## Simultaneous Color Contrast

 Gestalt principles describe the brain's organization of sensory building blocks into meaningful units and patterns.

### Perceptual Organization





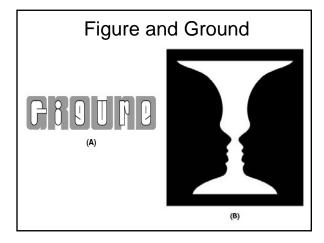
 Drawings that one can perceive in different ways by reversing

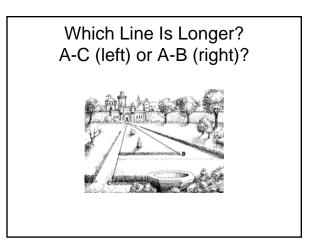


#### Psychology

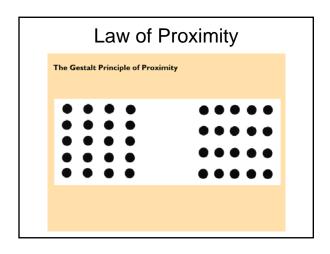
 The whole is different from the sum of its parts.

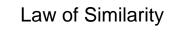




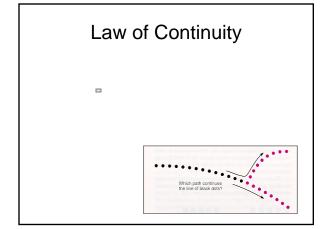


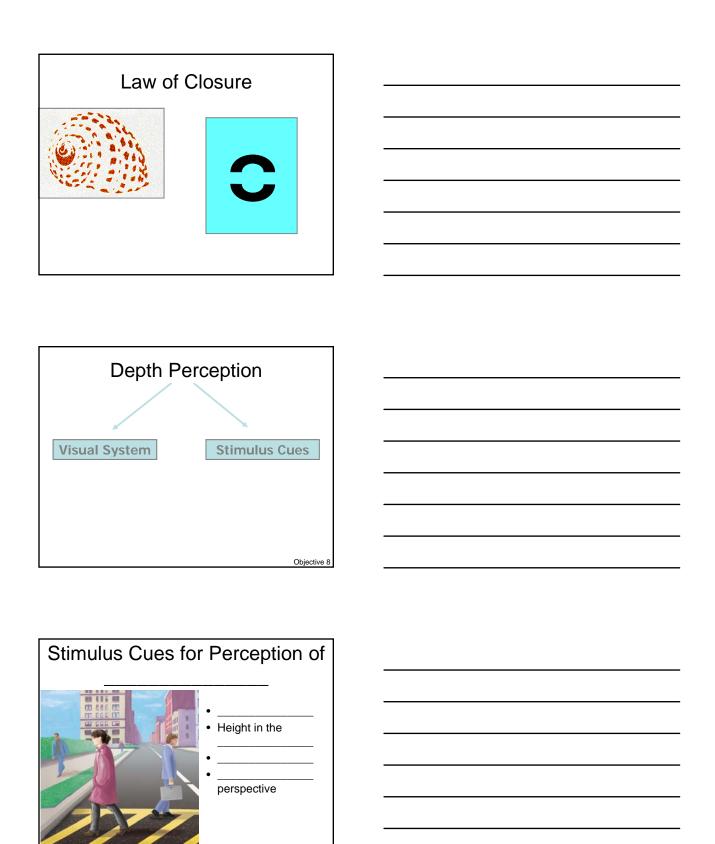
	]	Laws of
Grouping		
	A Proximity	B. Similarity
- Seeing 3 pair of lines in A	======	
- Seeing columns of orange and red dots in B	C. Continuity	D. Cleane
- Seeing lines that connect 1 to 2 and 3 to 4 in C		Calmin











### Relative Size





### Height in the Visual Field



Objective 8

### Interposition



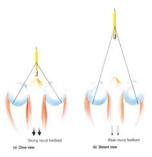


Objective 8

# Linear Perspective Objective 8

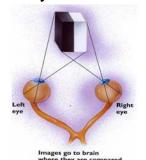
## Cues Based on Properties of the Visual System

- Due to changes in shape of the lens as it focuses
- Due to rotation of the eyes so the image can be projected on each retina



## Cues Based on Properties of the Visual System

Due to the differences between the retinal images received by each eye



Perception	of	Motion
------------	----	--------

- Movement of the eyes and head.
- \_\_\_\_\_: Rapid \_\_\_\_\_ in the size of an image so that it fills the
- \_\_\_\_\_: Tendency to perceive movement when a series of still images appear, one at a time, in

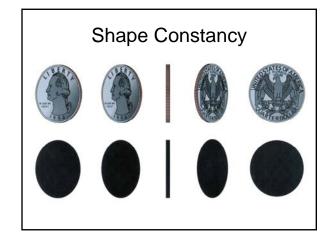
- The perception that objects maintain their
   \_\_\_\_ despite changes in their
   retinal image.
  - -\_\_\_\_ constancy
  - -\_\_\_\_ constancy
  - -\_\_\_\_ constancy

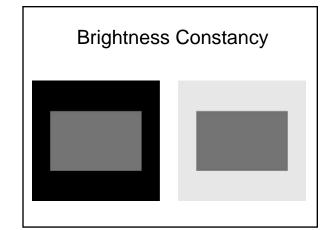
### Size Constancy

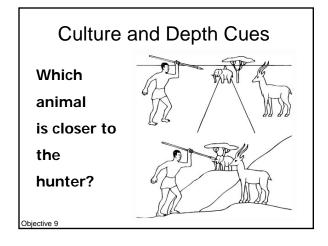




1	7







## How do I recognize familiar people?

- •The brain analyzes incoming patterns of info and compares that pattern to info stored in memory.
- •If a match is found, recognition takes place and the stimulus is put into a perceptual category.

## How Does Recognition Occur?

•	<ul><li>Processing:</li></ul>		
	of the stimulus are		
	analyzed and recombined to create the		
	perceptual experience		

•	Processing:		
	Influenced by	:	
	schemas, expectations, and	motivation	

### Top Down Processing

- The bank robbers rode away from the scene of the crime in their getaway car
- My tree-hugger friend told me to recycle my used soda pop ca

Perceptual Constancies	
The Ames Room	
A specially-built room     that makes people again.	
that makes people seem to as	
they in it	
The room is not a	
, as viewers assume it is.	
A single peephole	
prevents using	
Depth and Dimension	
•	
The use of visual cues to estimate depth and distance.	
- A cue involving the turning	
of the eyes as an object gets closer.	
• Disparity	
<ul> <li>A cue whereby the</li> <li>an object is, the more different</li> </ul>	
the image is in each retina.	
Γ	1
Depth and Dimension	
Devised by Eleanor Gibson and Richard Walk to test	
inin	
• Provides	
cliff.	
stands     across the gap.	
Babies are not afraid until about the age they can	

#### Perceptual Set

#### 

- What is seen in the center figures depends on the \_\_\_\_\_ in which one looks at the figures:
  - If scanned from the \_\_\_\_\_\_, a man's face is seen.
  - If scanned from the \_\_\_\_\_\_, a woman's figure is seen.

## Perceptual Set Context Effects

#### Context Effects

 The same physical stimulus can be interpreted differently depending on

e.g.,

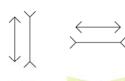
 When is the middle character the letter B and when is it the number 13? 12

13

4

## The World of Illusions The \_\_\_\_\_

 Illusion in which the perceived length of a line is altered by the position of other lines that enclose it

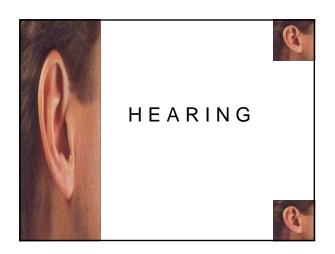


Illusion



# The World of Illusions The \_\_\_\_\_ Illusion - Illusion in which the perceived line length is affected by cues. • Side lines seem to • \_\_\_\_\_ seems farther away - But the retinal images of the red lines are equal.

# Fooling the Eye



## Accessory Structures and Transduction in the Ear

-\_\_\_\_\_\_(tympanic membrane)
-\_\_\_\_\_\_, anvil, and stirrup
-\_\_\_\_\_ window

• \_\_\_\_\_

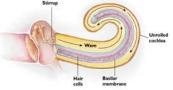
-\_\_\_\_ membrane

-\_\_\_\_ cells

### Structures of the Ear



#### The Cochlea



Movement of the fluid within the

\_\_\_\_\_ deforms the
\_\_\_\_ of the
\_\_\_\_, which then converts
sound waves into neural activity
( ) Objective 10

The Chemical Senses: Olfaction and Gustation (Smell and Taste)

## The Pathway for Olfactory Information

- Accessory structures
  - -\_\_\_\_, opening in the \_\_\_\_\_ at back of mouth
- Transduction
  - Receptors make a direct connection to the \_\_\_\_\_ bulb located in the brain
  - Olfactory information does not pass through

# The Olfactory System Olfactory area Olfactory area

Gustation  • Accessory structures , roof of, back of(a collection of taste buds)	
Psychological and Cultural Influences on Perception  • We are more likely to perceive something	