# General Psychology Psy 100 Perception



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# What We Will Cover in This Section

- Overview
- Perception
  - Visual perception.
  - Organizing principles.



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## Perception

How we interpret the information our senses receive.

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## Gestalt Psychology

We integrate the individual sensations into something meaningful.

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#### How We Acquire This Interpretation

- Some characteristics are inborn.
- Some characteristics are acquired through experience.
  - Critical period.

The time during development when an organism MUST BE EXPOSED to certain influences or experiences it proper development is to occur.

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## Characteristics of Perception

- Categories
  - We group sensations into categories based on their features.
- Relational
  - The pattern of the stimulus has to be related in some way for it to make sense.

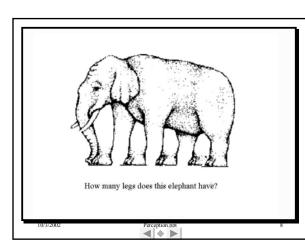
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#### Selective Attention

- Focusing awareness on a subset of available stimuli.
  - We are not aware of everything that is going on in the environment.
  - Adaptation causes constant stimuli to 'disappear' from awareness.
- · Goal directed attention.
- Stimulus-driven attention.

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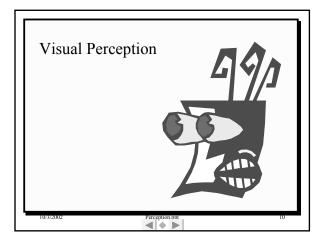
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## Characteristics of Perception

- Adaptive
  - Helps us survive.
- Automatic.

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## Characteristics of Visual Perception

- Physical Structure
  - Light and dark
  - Figure and ground
  - Depth
- Inferences
  - Since we see only parts of an object we must infer the whole from the parts.

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# Form Perception: Figure Ground

- Figure
  - The object that is distinguished from the background.
- Ground
  - Backdrop or background areas against which figures stand out.



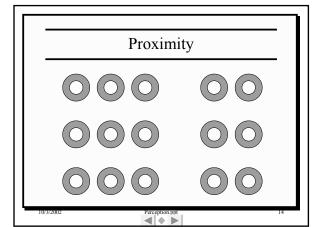
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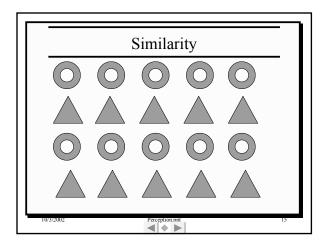
# Form Perception: Grouping

- Proximity
  - Objects closer together are perceived as being one unit.
- Similarity
  - Similar objects are perceived as being one unit.

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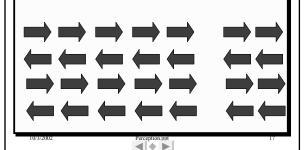
# Form Perception: Grouping

- Closure
  - We perceive incomplete figures as being complete.
- Common Fate
  - Elements moving in the same direction at the same rate are grouped together.

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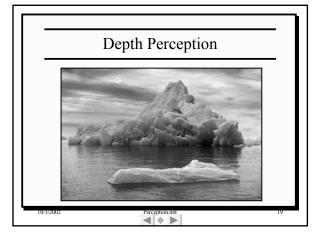
Common Fate



## Motion Perception

- Induced Motion
  - Illusion where a stationary object appears to move and the 'moving' frame of reference appears to be stationary.
- Apparent Motion
  - Illusion in which one or more stationary lights flickering in succession are perceived as a single moving light.

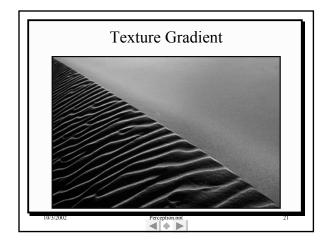
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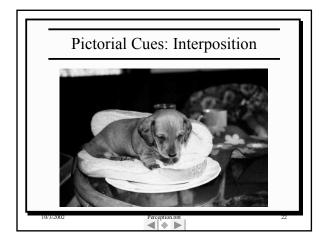


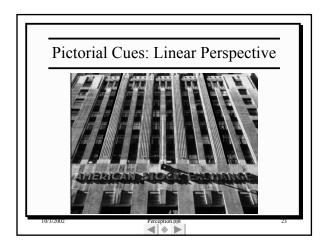
#### Monocular Cues to Distance

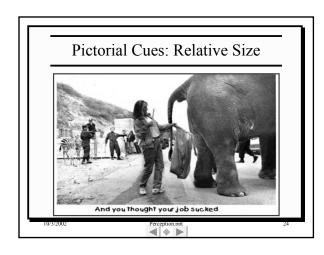
 When we use only one eye, these are the cues we use to tell us approximately how far away something is.

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#### Binocular Distance Cues

· Retinal disparity.

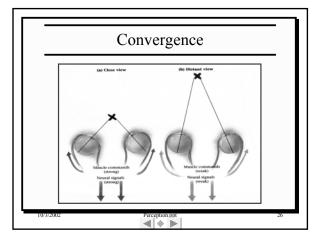
The horizontal differences of the image in the two eyes.

· Convergence.

The degree to which the eyes turn inward to fixate on an object.

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#### Visual Constancies

- Size Constancy
  - The ability to perceive the true size of an object despite variations in the size of its retinal image.
- Shape constancy
  - The ability to perceive the true shape of an object despite variations in the orientation in the retinal image.

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# Identification and Recognition

- Top-down processing.
  - Analysis that emphasizes the perceiver's expectations, memories, and other cognitive factors.
- Bottom-up processing.
  - Analyzing details of the specific sensory details to determine nature of the object.

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