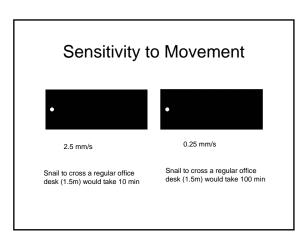
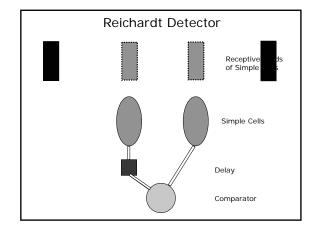


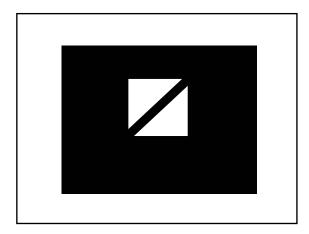
- one of the most basic aspects of vision
 - -selective evolutionary pressure
- motion agnosia
 - pouring
 - -talking
 - -walking around



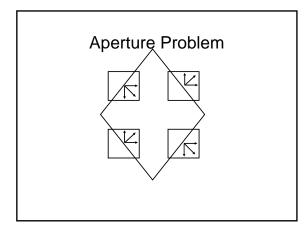




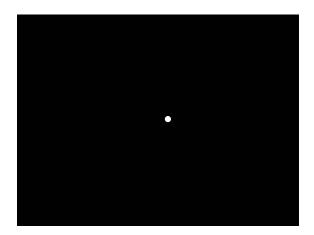


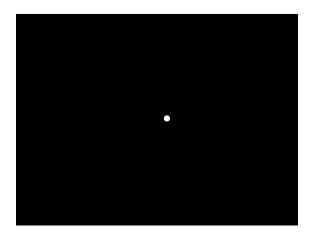










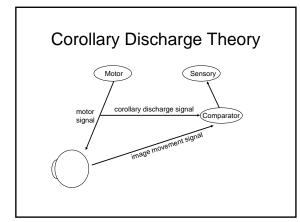


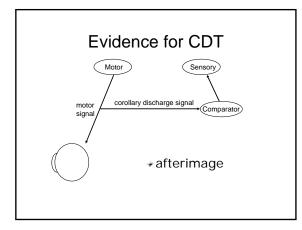


How do we perceive motion?

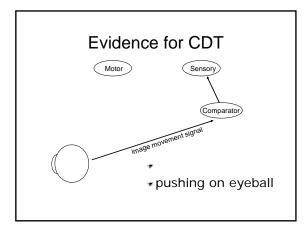
- movement of an image across the retina?
 - perceive movement despite no actual movement

 - winduced motion
 - *apparent motion
 - movement aftereffect
 - -tracking smooth pursuit movement
 - -scanning position & direction
 - constancy

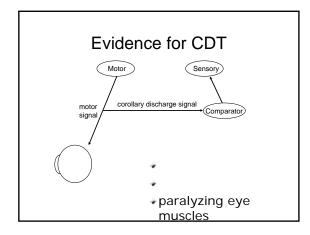








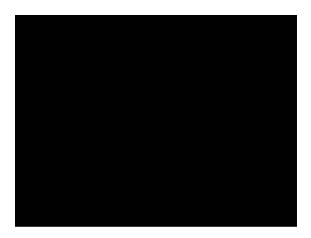


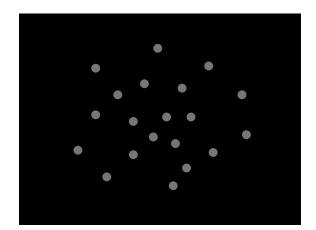




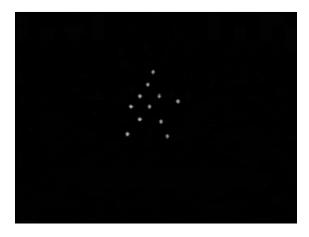
Information in the Optic Array

- optic array the structure created by surfaces, textures, and contours in the environment
- local disturbances accretion/deletion
- →global optical flow

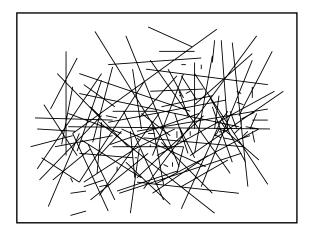






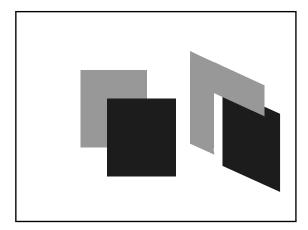






Perceptual Organization

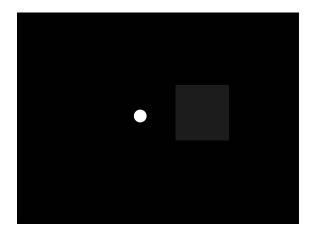
- → point-light
- kinetic depth effect (structure from motion)

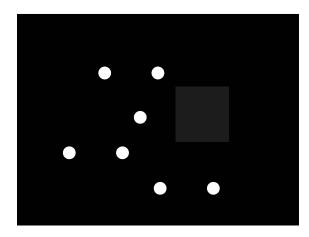




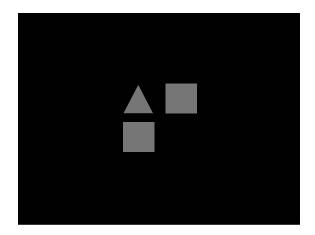
Intelligence of Motion Perception

 perceptual system takes characteristics of the environment, as well as knowledge, expectations and memories, into account to make sense of stimuli

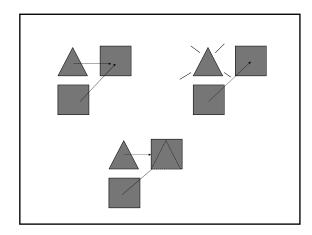














Knowledge about human body

 Shiffar and Freyd – picture of person with fist behind head alternated with picture of person with fist in front of face



- < 200ms interval fist passed through head
- → > 200ms interval fist went around head

Take home message

- motion perception covers a large range of phenomena
- from very simple movements like a single dot moving left to right, all the way up to the complex movements of the human body