

- ### Selective Rearing
- monocular viewing
 - neurons responsive to experienced eye
 - behaviour – visual field
 - human - cataracts
 - vertical/horizontal striped environment
 - neurons responsive to seen orientation
 - behaviour – lower acuity to novel orientation
 - human - astigmatism

- ### Active vs. Passive Stimulation
- Held & Hein (1963) – carousel
 - observable limb movements

Rearrangement/Adaptation

- Stratton (1897) – 180° rotation
- Kohler (1962) – mirror reversal
- Held & Hein (1958) – wedge prisms (shift toward apex)
 - active vs. passive movement
- Aftereffects

Context and Perceptual Set

- expectations help us perceive stimuli

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- context can change our memories of what we observed (Loftus, 1974)

Cultural Differences

- African vs. Western culture
 - black & white pictures
 - pictorial depth cues
 - impossible figure
 - movement cues

Gender Differences

- | Men | Women |
|--------------------------|-----------------------------|
| - bigger brains | - denser brains |
| - use one side | - use both |
| - specific activation | - general activation |
| - focused attention | - multitasking |
| - learning disorders | - depression |
| - math/spatial | - perceptual speed/verbal |
| - less Alzheimers | - better stroke recovery |
| - less sensitive to pain | - better sense of smell |
| - more accurate at time | - greater taste sensitivity |

Personality Differences

- extrovert – chronically underaroused
- introvert – chronically overaroused
 - lower thresholds for vision, hearing, touch

Drugs

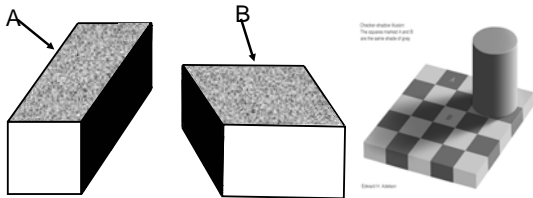
- cigarettes
 - increased taste thresholds
 - problems sustaining visual attention, eye-tracking, contrast sensitivity
- depressants
 - increase taste thresholds
 - poorer size constancy, detection of movement, depth perception, etc.
 - delayed auditory response
 - decreased CFF and AFF

Pathology

- agnosias
 - simultagnosia
 - prosopagnosia
 - Wernicke's aphasia – comprehension
 - Broca's aphasia – production
 - olfactory agnosia

Course Take Home Message

- things are often far more complicated than they seem



- question everything
