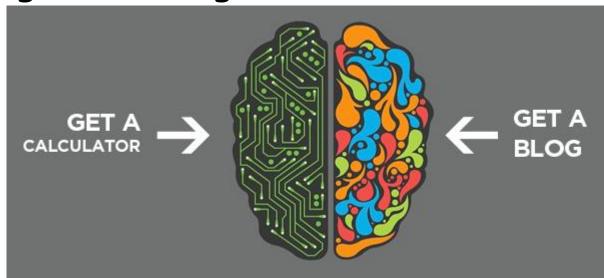
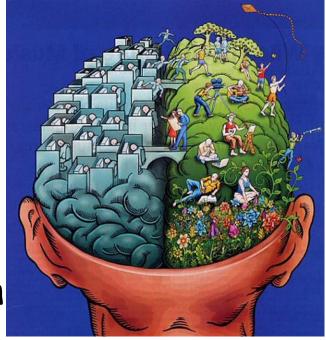
Common Myths

- There is a lot of "pop psychology" about hemispheric specialization
- Broad statements like 'the left brain is logical and the right brain is creative' are almost always gross over-generalizations





MYTHS:

- Lefties are better at spatial and creative tasks.
- Righties are better at logic.



Hemispheric Specialization

Traditional understanding:

Left side processes:

- (Speech
- Analysis
- Time
- Sequence

It Recognizes:

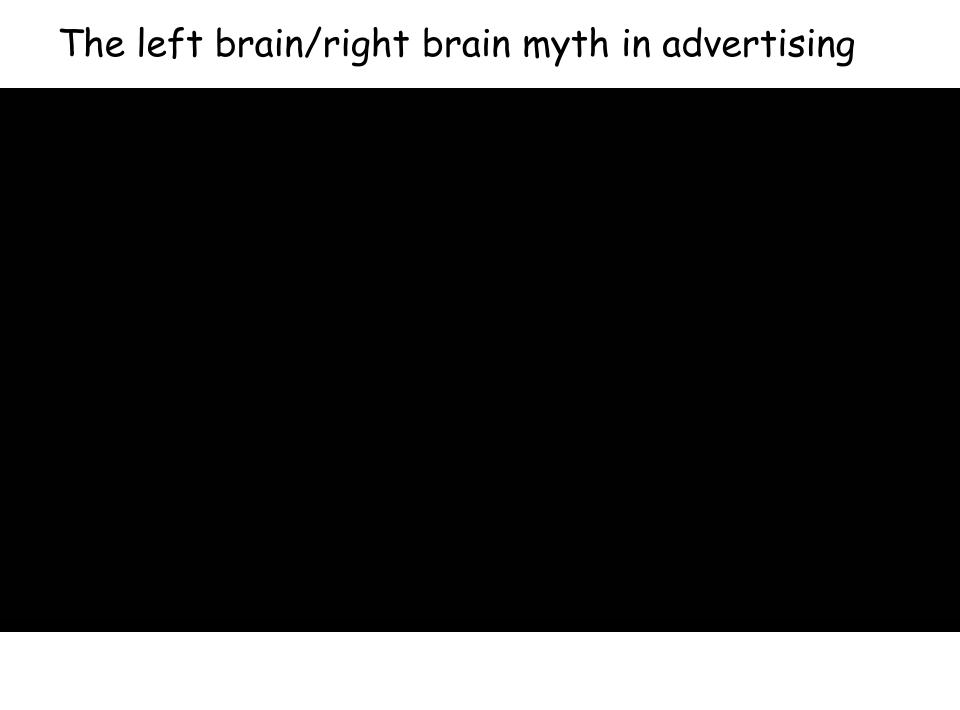
- Letters
- Numbers
- Words

Right side processes:

- Creativity
- Patterns
- Spatial Awareness
- Context

It Recognizes:

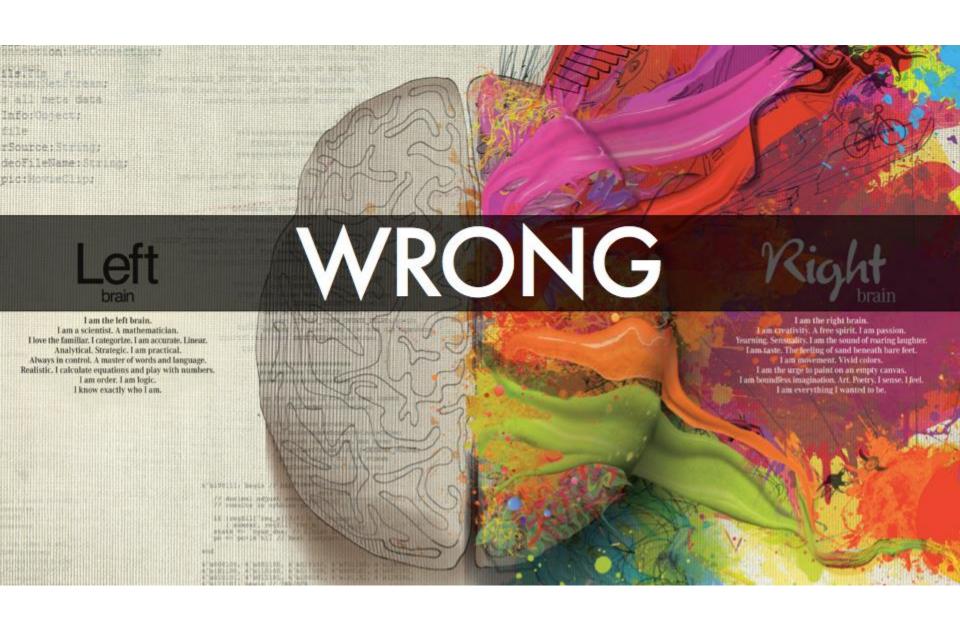
- Faces
- Places
- Objects





I love the A Always i Realistic, I

I am the right brain.
I am creativity. A free spirit. I am passion.
Yearning. Sensuality. I am the sound of roaring laughter.
I am taste. The feeling of sand beneath bare feet.
I am movement. Vivid colors.
I am the urge to paint on an empty canvas.
I am boundless imagination. Art. Poetry. I sense. I feel.
I am everything I wanted to be.



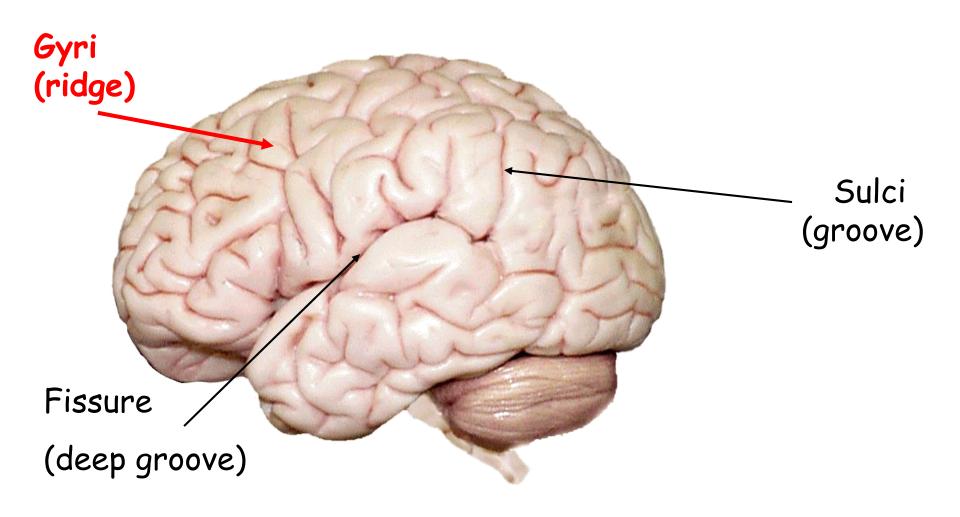
Variations

Hemispheric Specialization

- While there are some specialized functions in certain hemispheres of the brain, it is an oversimplification to say that one is "right-brained" or "left-brained."
- The two hemispheres do NOT operate independently; they communicate constantly, mostly via the corpus callosum.
- "There are many more similarities between the hemispheres than differences."
- To completely lose a particular mental faculty, a person normally needs to suffer damage to a particular area in both the left and right hemispheres.

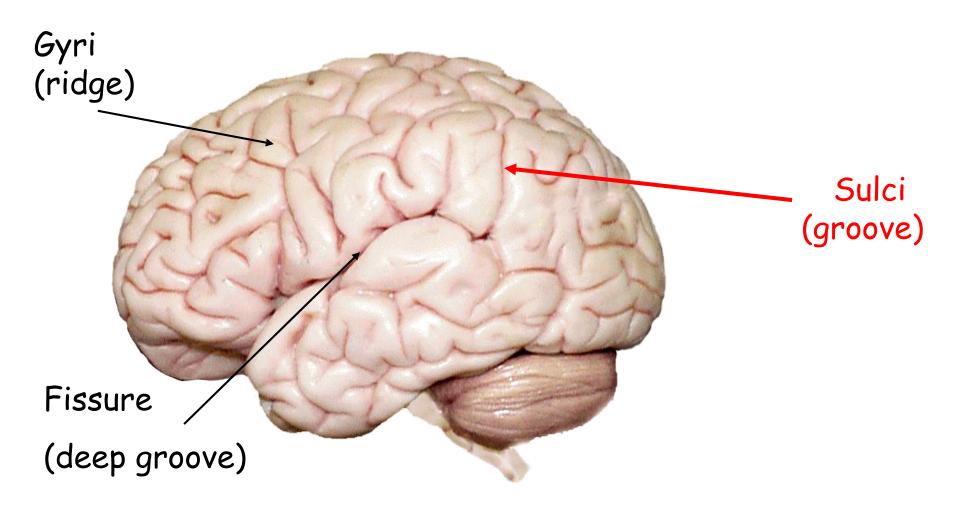
Cerebral Features:

· Gyri - Elevated ridges "winding" around the brain.



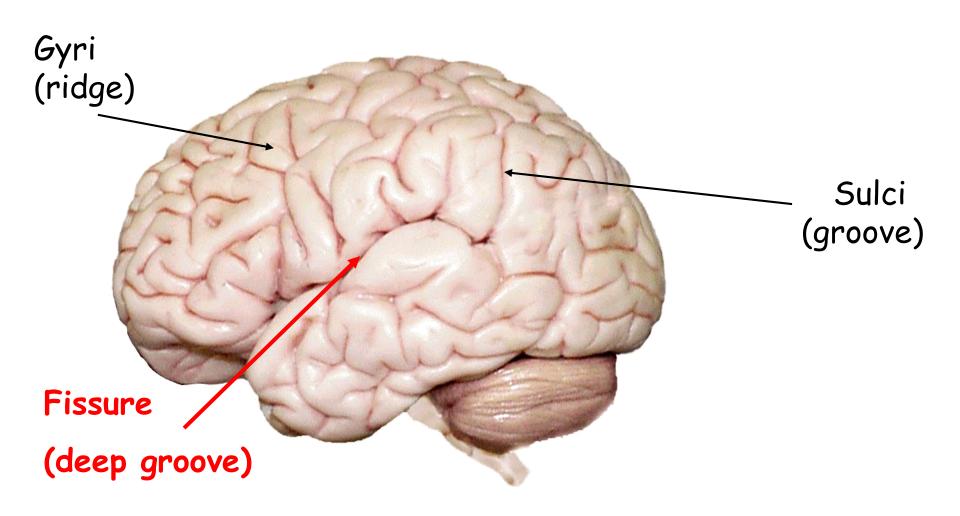
Cerebral Features:

· <u>Sulci</u> - Small grooves dividing the gyri



Cerebral Features:

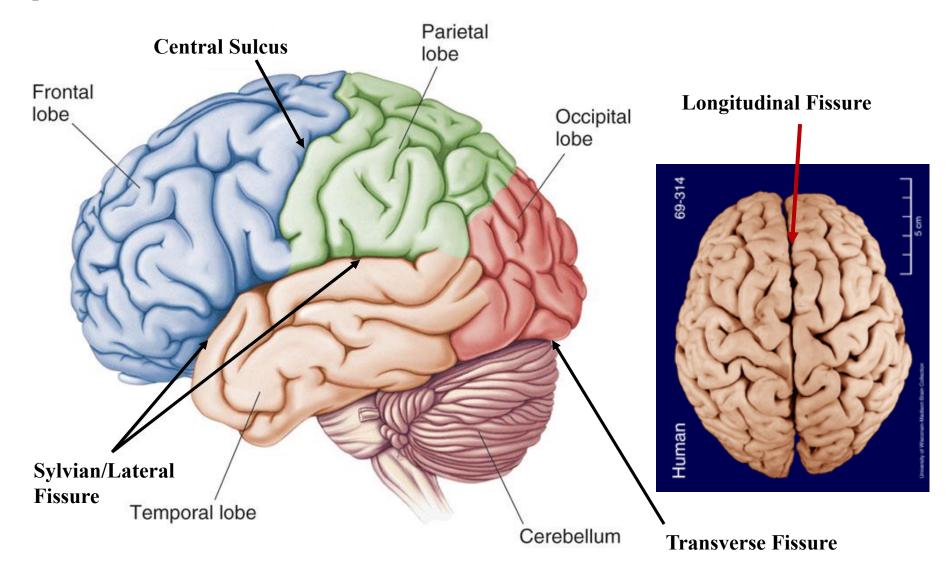
• <u>Fissures</u> - Deep grooves, generally dividing large regions/lobes of the brain



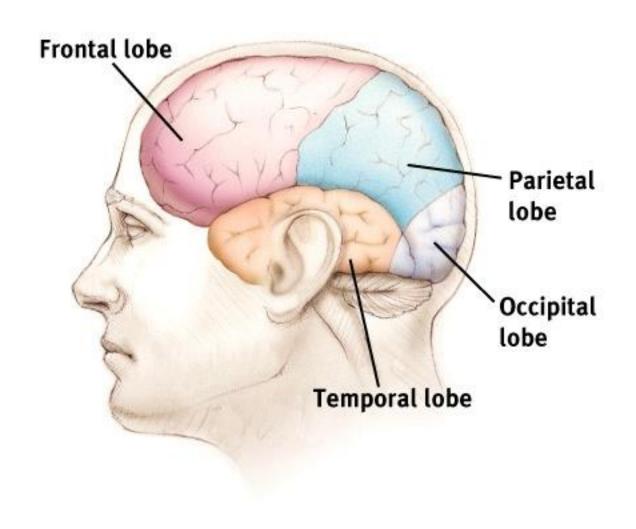
Specific Cerebral Features you need to know:

- Longitudinal Fissure Divides the two Cerebral Hemispheres
- Central Sulcus Divides the Frontal Lobe from the Parietal Lobe
- Transverse Fissure Separates the Cerebrum from the Cerebellum
- Sylvian/Lateral Fissure Divides the Temporal Lobe from the Frontal and Parietal Lobes

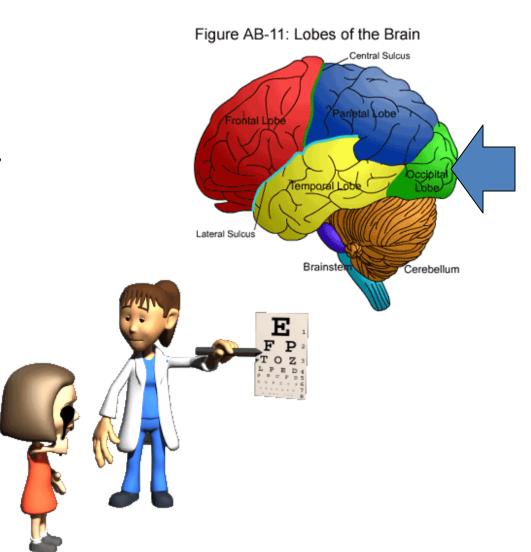
Specific Sulci/Fissures:



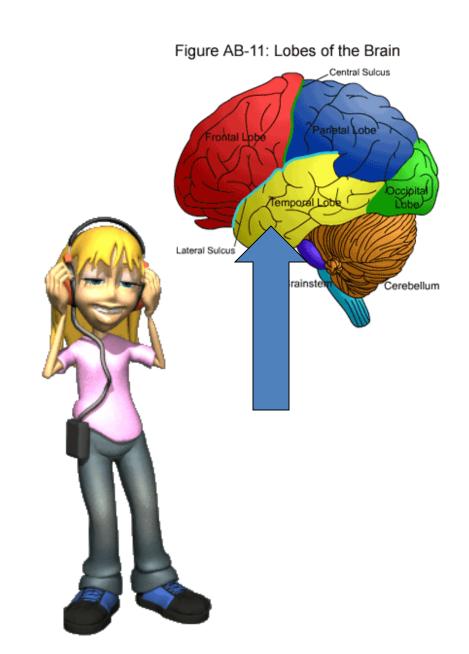
The Cerebral Cortex is made up of four Lobes.



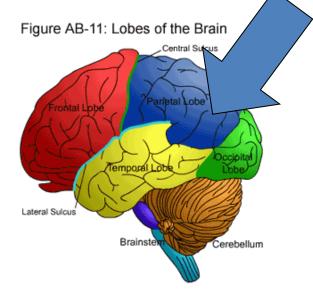
- occipital lobe: brain lobe at the back of the head
 - responsible primarily for vision
 - Contains Visual
 Cortex: Processes
 and interprets
 messages from our
 eyes into images we
 can understand

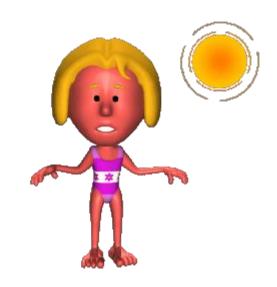


- temporal lobe: the brain lobe under the temples, in front of the ears
 - many functions, including processing sounds, committing information to memory, and comprehending language
- Sound is interpreted in Auditory Cortex.
- Processes faces in Facial recognition system [right side only]



- parietal lobe: brain lobe at the top and center/rear of the head
- Contains SomatoSensory
 Cortex: receives incoming
 touch sensations from rest
 of the body.
- Most of the Parietal Lobes are made up of Association Areas, which integrates sensations.





- sensory cortex (a.k.a. somatosensory strip): the gyrus immediately behind the central sulcus
 - registers sensation
 on the body, and is
 organized by body
 part

Homunculus literally means "little person,"

