

# CEREBRAL CORTEX: FUNCTIONAL ANATOMY

[ REFERENCE DIAGRAM: LATERAL VIEW OF HUMAN BRAIN ]

## Frontal Lobe

- Executive function & decision making
- Motor control (Primary Motor Cortex)
- Personality & social behavior
- Broca's Area (Speech production)

## Parietal Lobe

- Somatosensory processing (Touch/Pain)
- Spatial awareness & navigation
- Sensory integration
- Mathematical reasoning

## Temporal Lobe

- Auditory processing
- Memory encoding (Hippocampus location)
- Wernicke's Area (Language comprehension)
- Visual recognition (Faces/Objects)

## Occipital Lobe

- Primary visual processing
- Color determination
- Distance & depth perception
- Visual-spatial memory

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