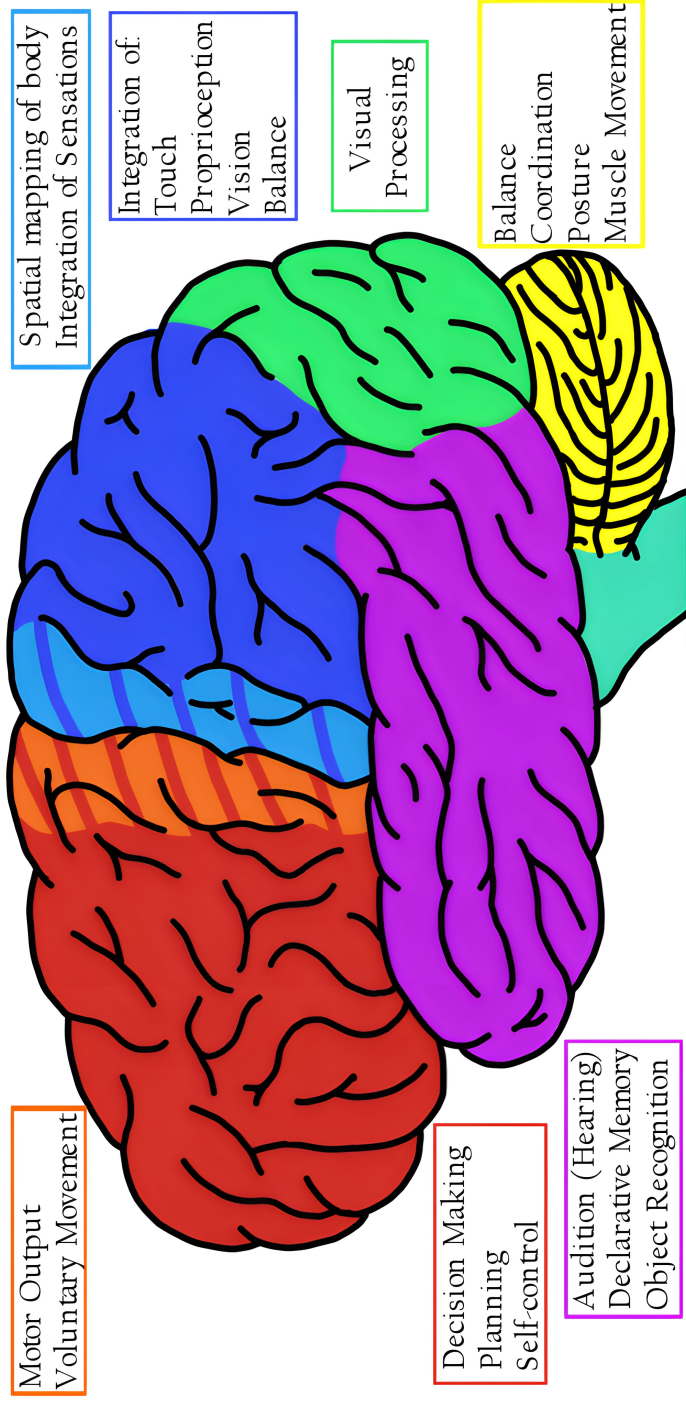


1. Dendrites
2. Soma
3. Nucleus
4. Axon Hillock
5. Axon
6. Myelin Sheath
7. Node of Ranvier
8. Axon Terminal

*200 Billion neurons at birth
*86 Billion neurons in adults



Motor Output
Voluntary Movement

Spatial mapping of body
Integration of Sensations









Integration of:
Touch
Proprioception
Vision
Balance

Visual
Processing

Balance
Coordination
Posture
Muscle Movement

Decision Making
Planning
Self-control

Audition (Hearing)
Declarative Memory
Object Recognition

- | | | | |
|---------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|----------------|
|  | Frontal Lobe |  | Occipital Lobe |
|  | Motor cortex |  | Temporal Lobe |
|  | Parietal Lobe |  | Brain Stem |
|  | Somatosensory
Cortex |  | Cerebellum |