

# Neuroanatomy

PSY 511.003 Spr 2025

## Prelude

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<https://www.youtube.com/embed/snO68aJTOpM>

ctdalilah (2006)

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<https://www.youtube.com/embed/Qw8E9WnZTQk>

Kids Learning Tube (2015)

## Announcements

- Exercise 02 due next Wednesday, January 29, 2025.

## Today's topics

- Neuroanatomy
  - Brief overview
  - In-class lab
  - [Exercise 02](#)

# **Neuroanatomy**

## **Why study?**

- Master basic vocabulary for reading literature

## **Brain anatomy through dance**

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## **Directional terms**

- Anterior/Posterior
- Medial/Lateral
- Superior/Inferior
- Dorsal/Ventral
- Rostral/Caudal

## Central vs. Peripheral Nervous System

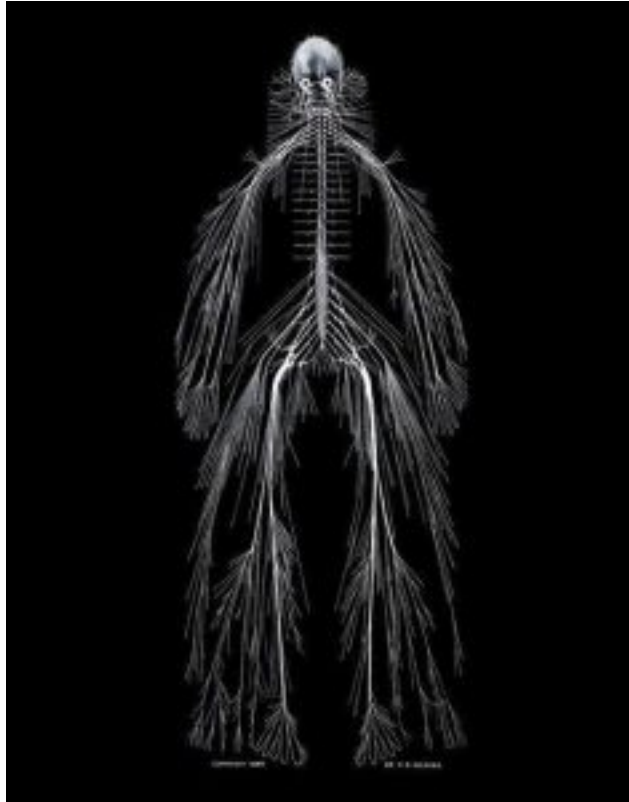


Figure 1: Nervous system of Harriet Cole, see McNaughton (2018)

### Organization of the CNS

Major division	Ventricular Landmark	Embryonic Division	Structure
Forebrain	Lateral	Telencephalon	Cerebral cortex Basal ganglia Hippocampus, amygdala

Major division	Ventricular Landmark	Embryonic Division	Structure
	Third	Diencephalon	Thalamus Hypothalamus

Major division	Ventricular Landmark	Embryonic Division	Structure
Midbrain	Cerebral Aqueduct	Mesencephalon	Tectum, tegmentum

Major division	Ventricular Landmark	Embryonic Division	Structure
Hindbrain	4th –	Metencephalon Myelencephalon	Cerebellum, pons Medulla oblongata

Forebrain, midbrain, hindbrain terminology derives from embryonic stages in CNS development.

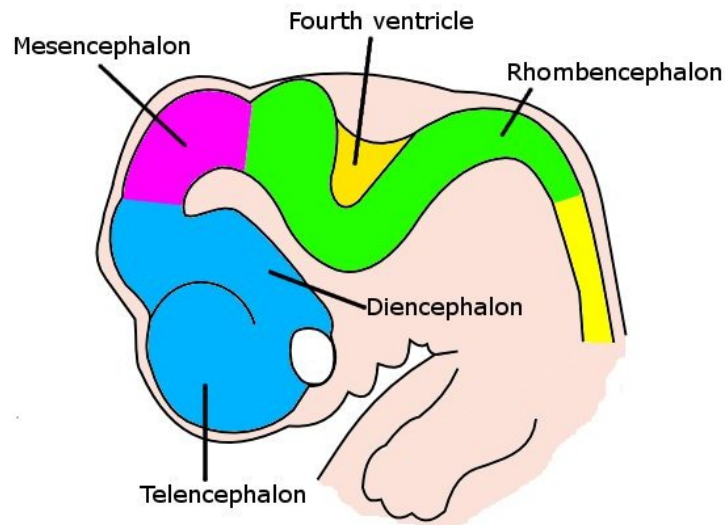


Figure 2: Embryonic human brain from Wikipedia