

# CN II Optic Nerve

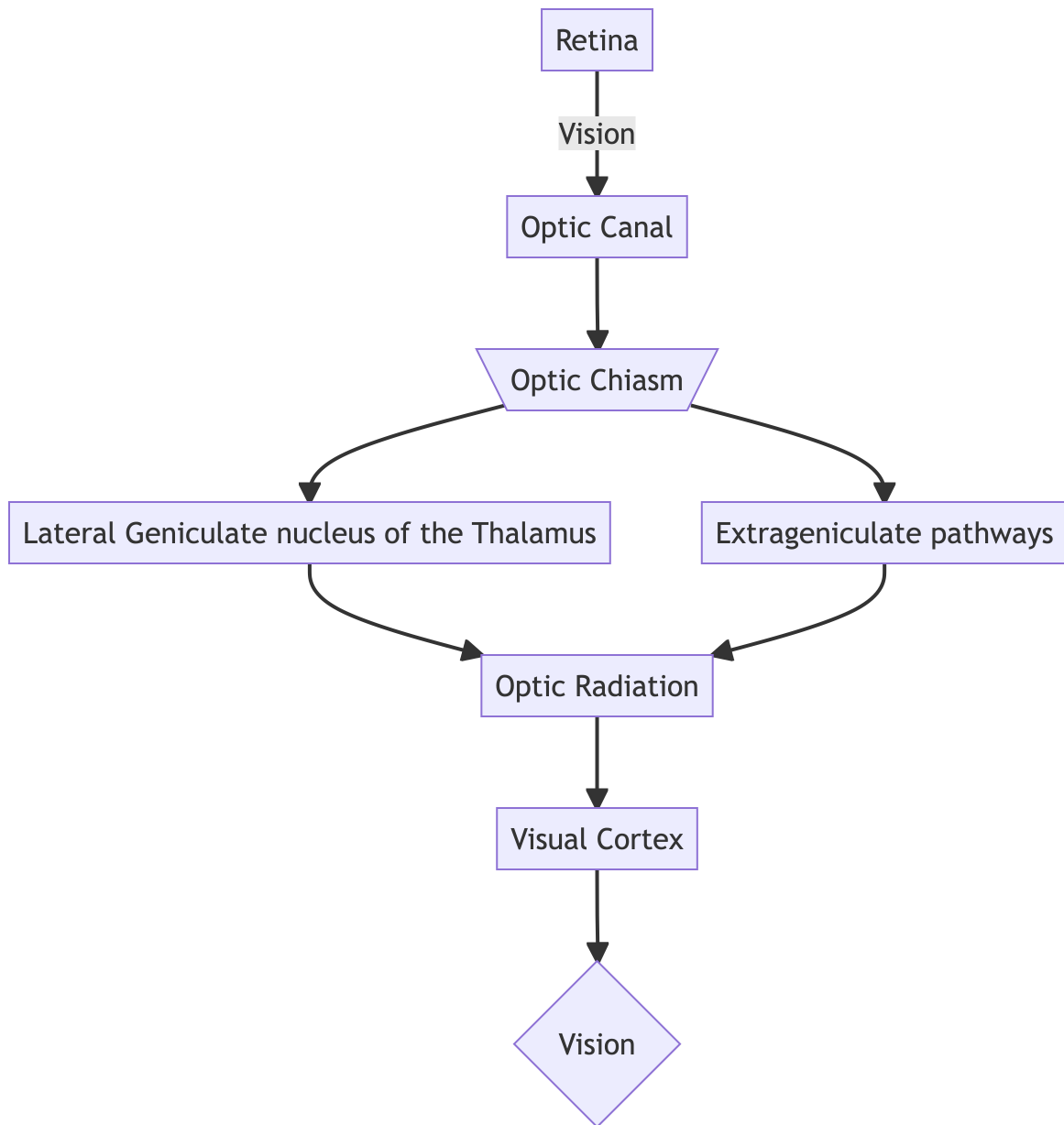
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## 1 Overview

CNII Optic Nerve is the only cranial nerve that is used to transmit information about vision to the brain. CNII is considered part of the CNS since it is myelinated using oligodendrocytes

## 2 Pathway

### Optic tract

- Left optic tract:
    - Fibers: Left temporal (lateral) retina
    - Fibers: Right nasal (medial) retina
  - Right optic tract
    - Fibers: right temporal retina
    - Fibers: Left nasal retina
  - Optic tract -> Lateral geniculate nucleus (relay system in thalamus) -> Optic radiation
    - Upper optic radiation: Fibers from Superior Retinal Quadrants (inferior visual field)  
-> visual cortex
    - Lower Optic Radiation: Fibers from Inferior retinal quadrants (superior visual field)  
-> Visual cortex
1. Retinal photoreceptors
  2. Retinal bipolar neurons
  3. (Synapse) Retinal ganglion cells
  4. Optic nerve (Optic canal)
  5. (Decussate) Optic chiasm
  6. Optic tract
  7. (Synapse) Lateral geniculate nucleus in Thalamus ->
  8. Optic radiations -> Occipital cortex