

Visual Cortex

The visual cortex is a part of the brain that is responsible for processing visual information. It is located in the back of the brain, in an area called the occipital lobe.

The visual cortex is divided into several different areas, each of which is responsible for processing different types of visual information. Some of the main areas of the visual cortex include:

- **The primary visual cortex (V1):** This is the first area of the brain to receive input from the retina. It is responsible for processing basic visual features such as color, contrast, and form.
- **The secondary visual cortex (V2):** This area is responsible for processing more complex visual information, such as the relationships between objects in a scene.
- **The tertiary visual cortex (V3):** This area is involved in processing information about the spatial relationships between objects in a scene and their distance from the viewer.
- **The quaternary visual cortex (V4):** This area is involved in processing information about color and form in more complex scenes.
- **V5 is also known as the middle temporal area (MT)** and is involved in the processing of visual information related to motion. It is particularly important for detecting and tracking moving objects.
- **V6** is involved in the processing of visual information related to three-dimensional space and depth perception. It is also involved in the control of eye movements.
- **V7** is involved in the processing of visual information related to surface orientation and the perception of shape.

The visual cortex is essential for our ability to see and understand the world around us. It receives input from the retina and processes this information to create a coherent visual experience. This processed information is then passed on to other areas of the brain for further processing and integration with other senses.

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