

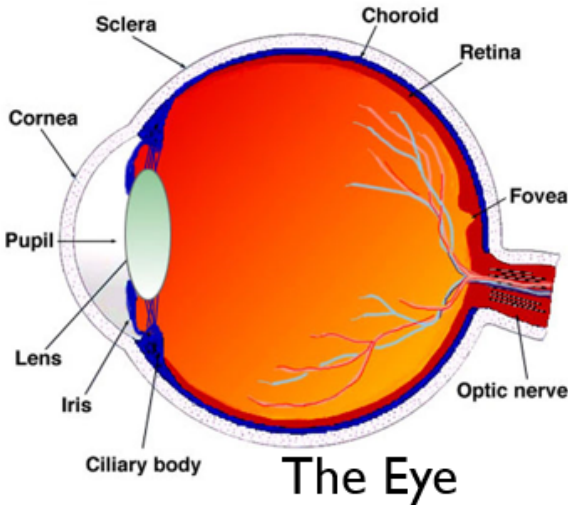


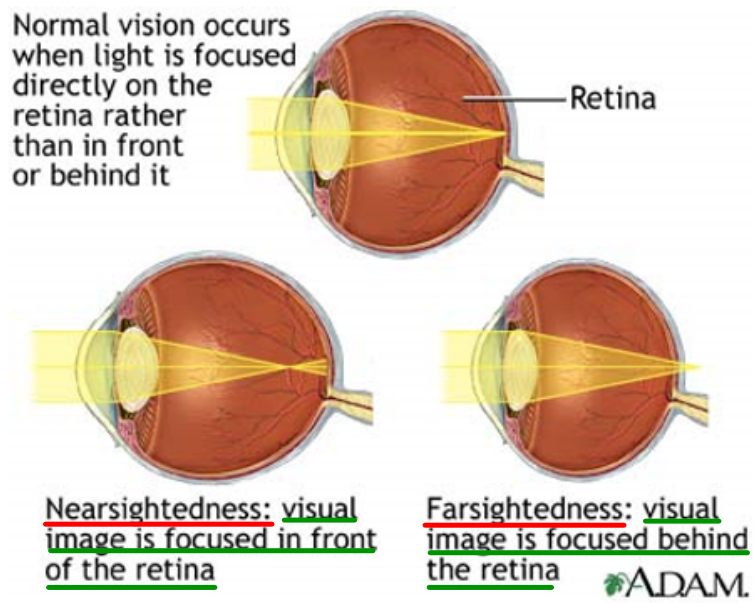
The Eye



Convex lens is the lens in the human eye. This lens takes light rays that are spreading out from an object and, by refraction, **focuses** them, or brings them back to a point. The focussing of light allows us to see objects. In a normal eye, light refracts through the lens onto a light-sensitive area at the back of the eye called the **retina**.

The Eye



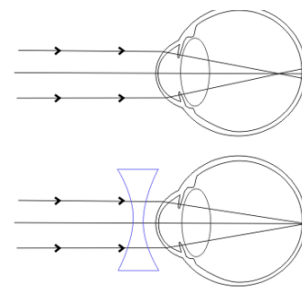


Near-sighted Vision

Definition:

See near but not far.

Concave lenses are used to correct nearsighted

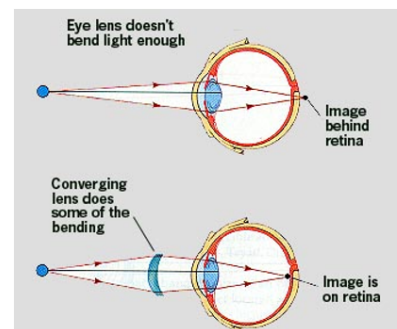


Far-sighted Vision

Definition:

See far but not near.

Convex lenses are used to correct nearsighted



When cells in the retina detect light, they create small electrical impulses that travel from the retina to the brain through the **optic nerve**. The point where the optic nerve enters the retina does not have any light-sensing cells. This point is known as the **blind spot**.

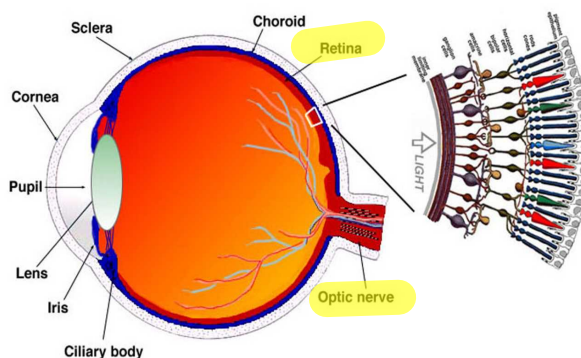
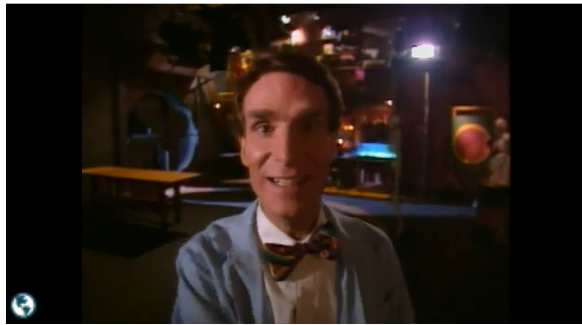


Fig. 1.1. A drawing of a section through the human eye with a schematic enlargement of the retina.

Follow the link below for a demonstration that you can try at home to locate your blind spot.

<https://youtu.be/27vUFAI3NLM>





Watch Bill Nye video here:

<https://www.dailymotion.com/video/x3jyupe>