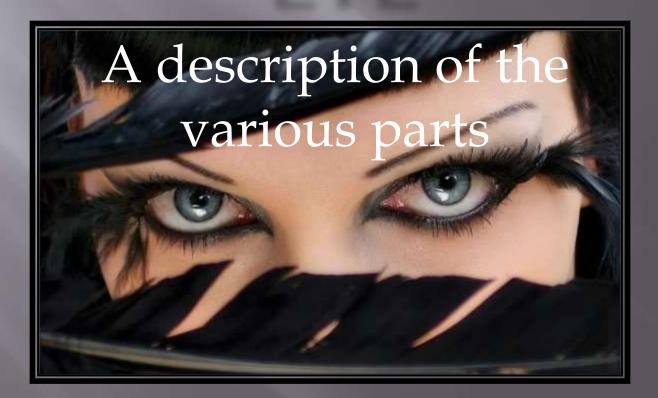
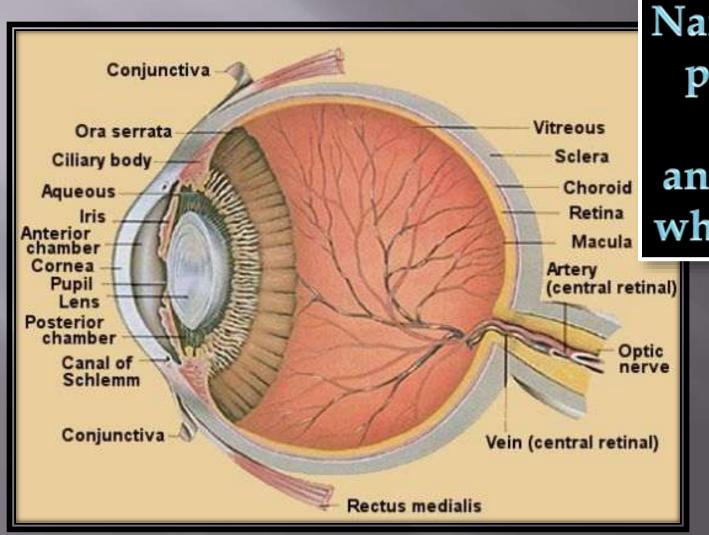
# ANATOMY OF THE EYE



### General Overview

 We have already discussed how light enters the eye, and how this effects vision. We have also dissected a eye to see the various components of the eye, now we will discuss those parts individually. Lets start with just looking at a image and identifying the parts we know.

### General Overview

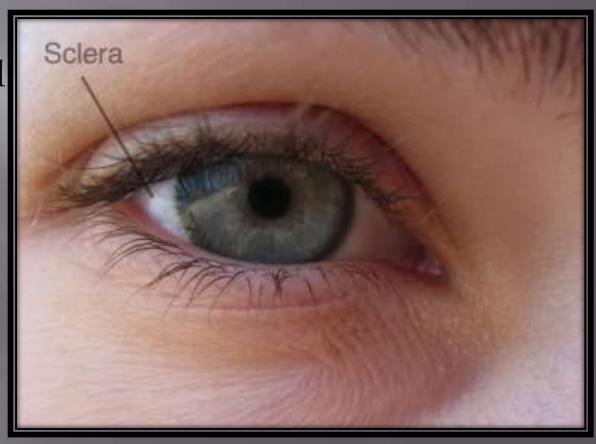


Name all the parts you know and discuss what they do

### The Sclera

The contents of the eye are closed partially in the sclera.

It's a tough, fibrous outer coating often referred to as, "the White of the Eye"

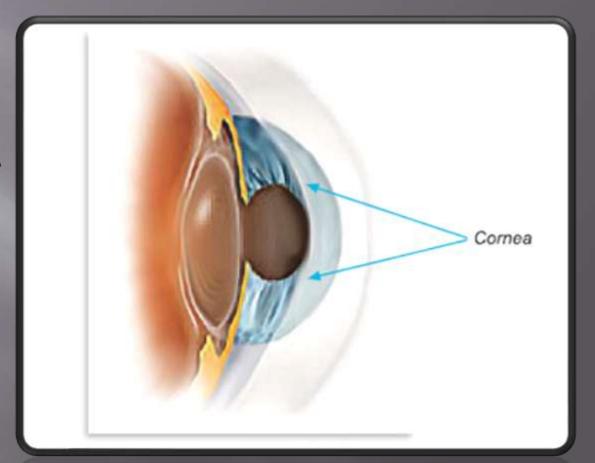


### The Cornea

The front of the eye that is continuous with the sclera.

Although being tough and protective, is also transparent.

Has approximately 43 D of plus power.

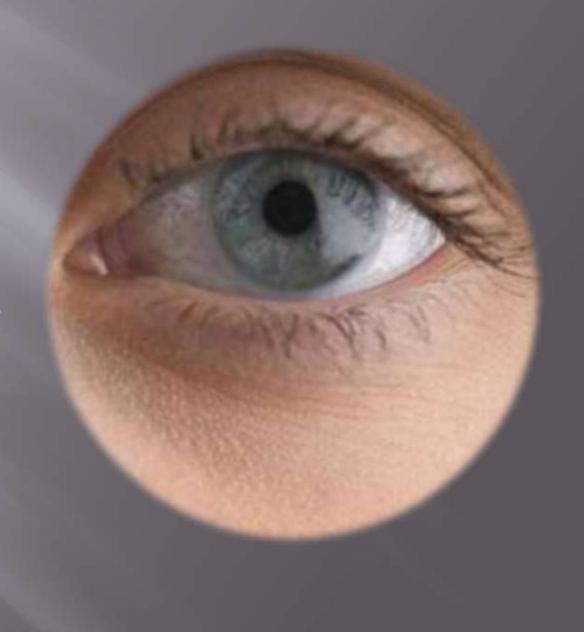


### The Iris

·Located behind the cornea.

•Color Part of the eye.

·Controls the amount of light that enters the eye.

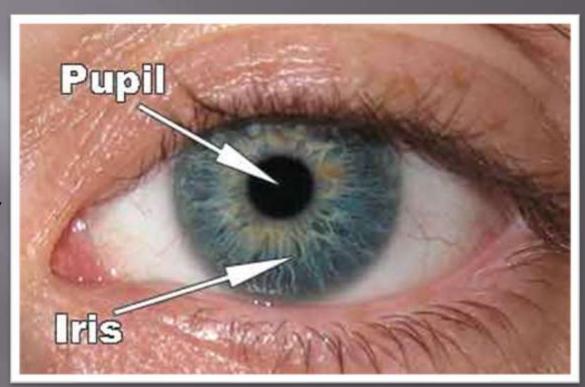


### The Pupil

Purpose: to allow just the right amount of light to enter the eye.

The brighter the light, the more the pupil constricts and the Iris expands.

The less light, the pupil will dilate and the Iris gets smaller.

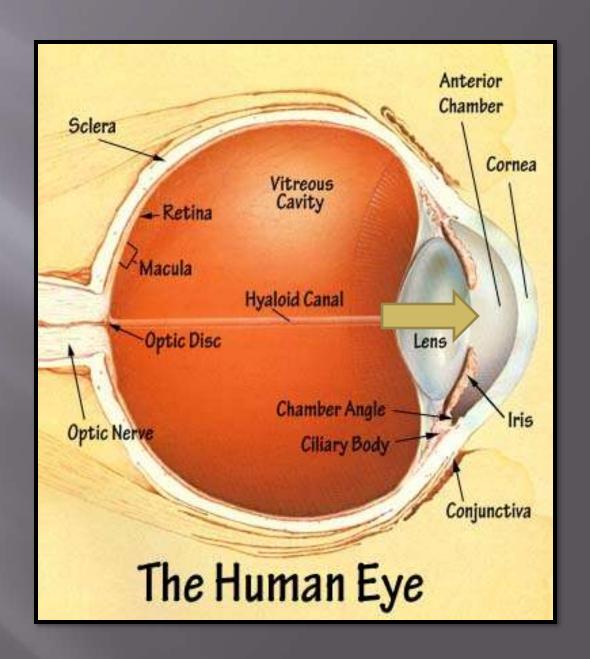


### Anterior Chamber

The chamber between the Cornea and the Iris.

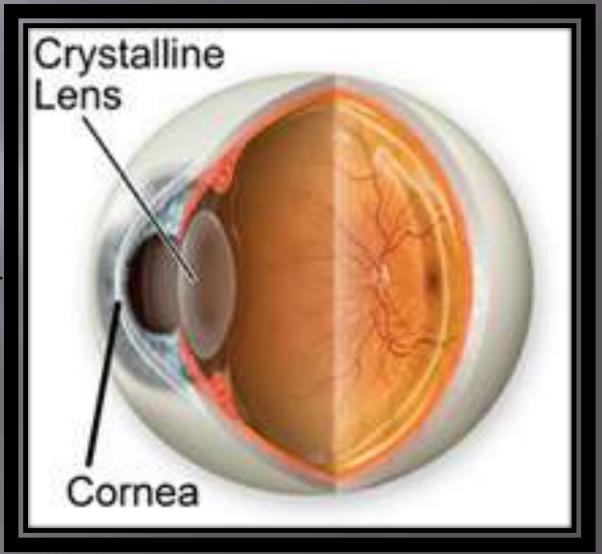
Filled with a watery fluid called Aqueous Humor.

Helps the front part of the eye maintain it's shape



### The Crystalline Lens

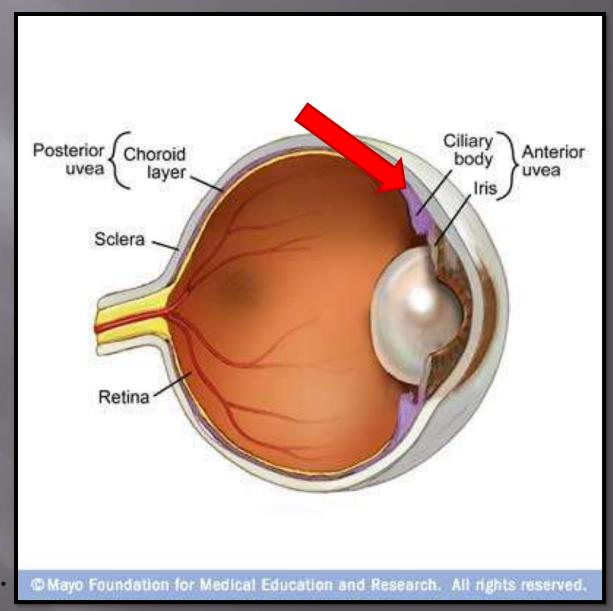
- Located immediately behind the pupil.
- Sometimes referred to as just the "Lens"
- Pliable and consists of layers much like an onion. It's transparent. It can change shape to a relatively thick or thin lens. Bi-convex in shape.
- When looking at close objects the "lens" will plump up giving more plus power approximately +17.00



### The Ciliary Body

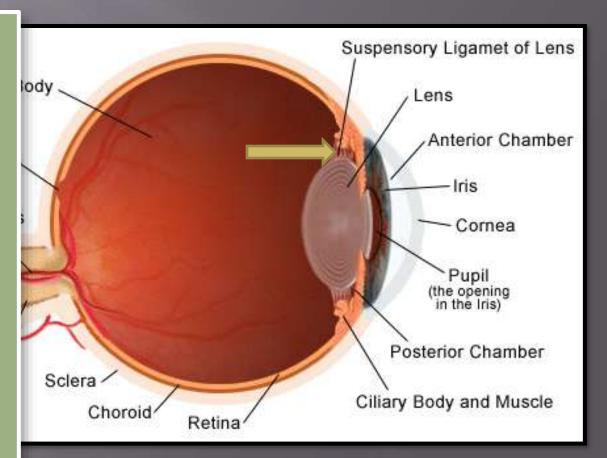
Muscles in the Ciliary body ring the inside of the eye, just behind the Iris.

The Ciliary body produces aqueous humor filling the anterior chamber.



### Suspensory Ligaments

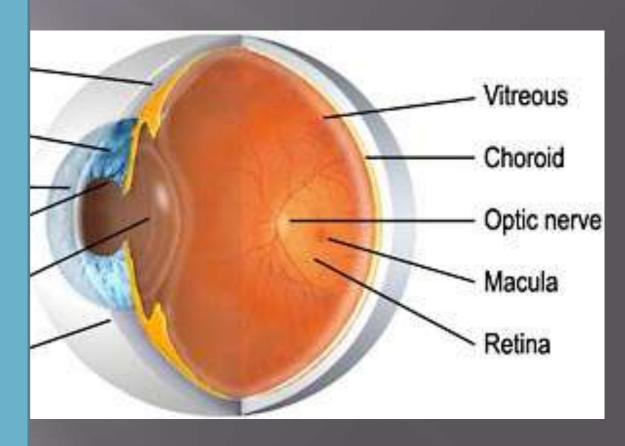
- Attached to Ciliary muscles they are the Suspensory Ligaments, also known as zonular fibers.
- Which attach to all around the crystalline lens and cause the change of shape of the lens.



### Vitreous Chamber

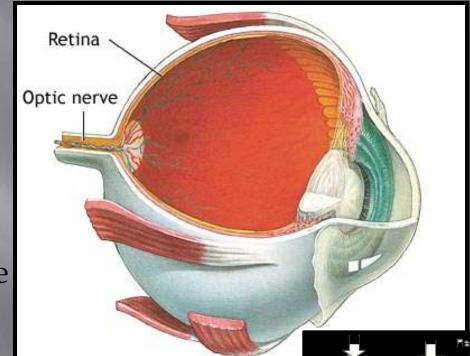
Located behind the Crystalline Lens.

Filled with a jelly-like substance called Vitreous Humor (gives the eye much of its shape.)



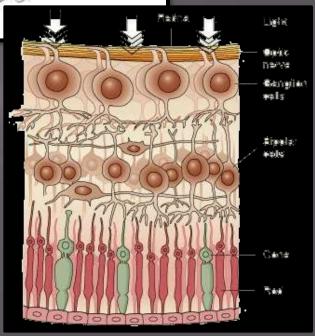
### Retina

Surrounds the vitreous chamber from the Ciliary body and covers the rest of the inside of the eye.



Contains a layer of Layers of the retina nerve cells(rods and 1. Optic Nerve cones) that are sensitive to light.

- 2. Ganglion Cells
- 3. Bipolar Cells
- 4. Rods/Cones

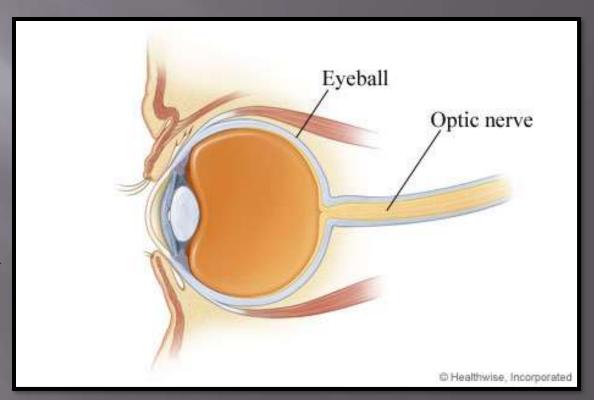


### Optic Nerve

The nerve cells line the surface of the retina, picking up the information from the rods and cones.

These nerves bundle together into a cord at an area know as the optic disk

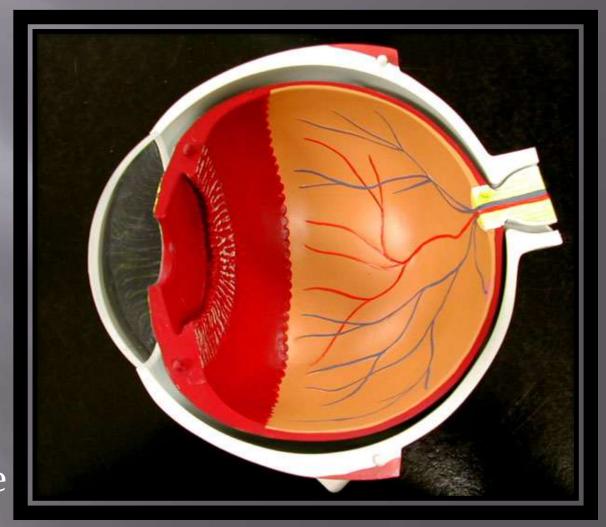
This bundle of nerves then travel to the brain.



### Choroid

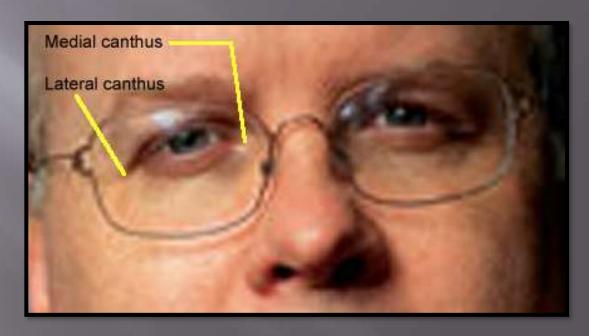
•Located between the retina and the sclera.

·Vascular coat for the eye and provides nutrients for the retina.



## Canthi/Canthus

·Basically this is the corners of our eyes, where are upper and lower eyelids



#### Conjunctiva

The moist transparent membrane that lines the inside of the eyelids and covering the visible sclera.

#### ·Two types;

- Bulbar(eyelid)
- Palpebral(eye ball)

