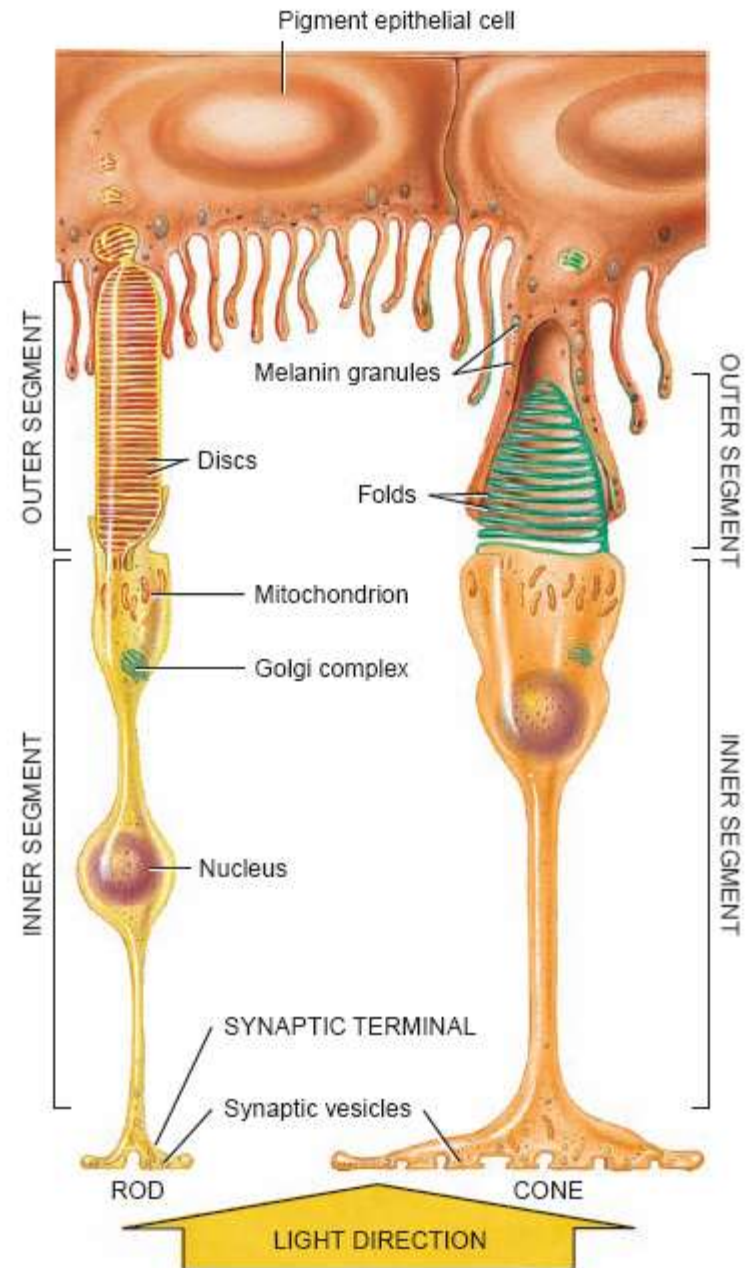
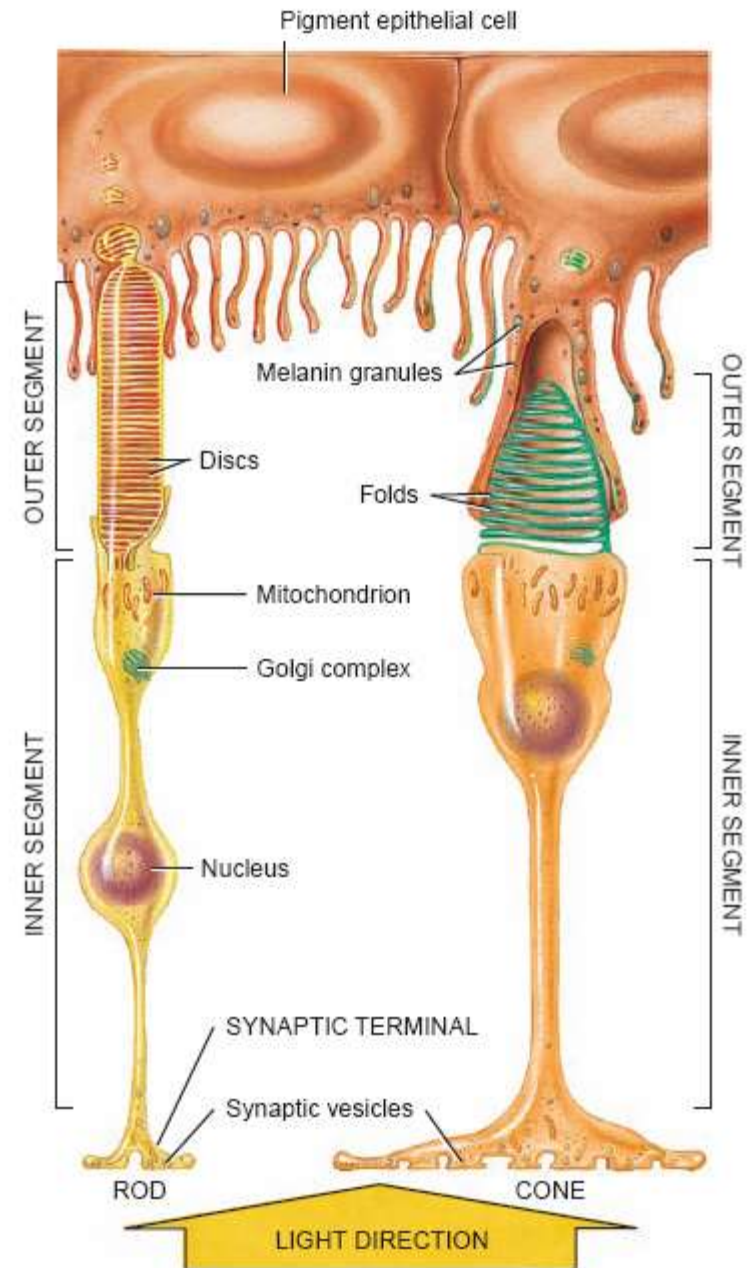
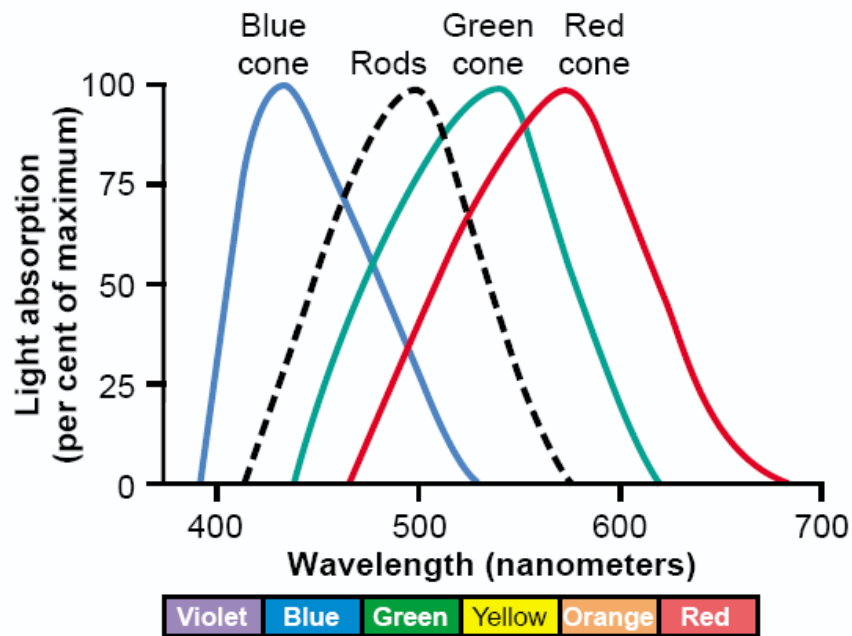


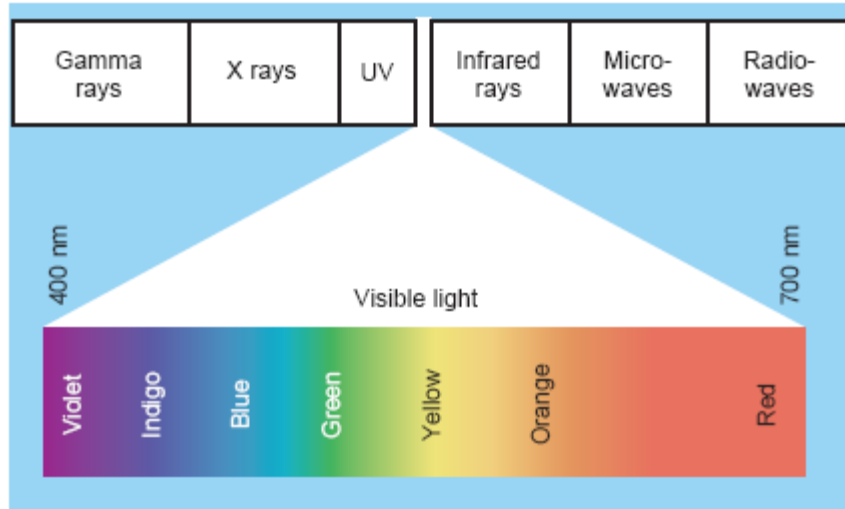
Photoreceptors

- Cones
- Rods

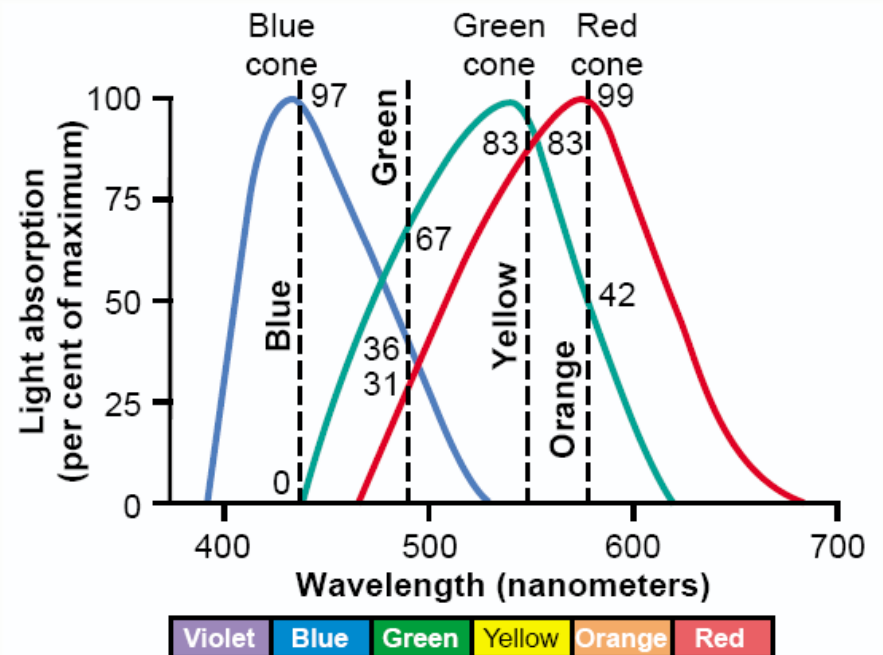
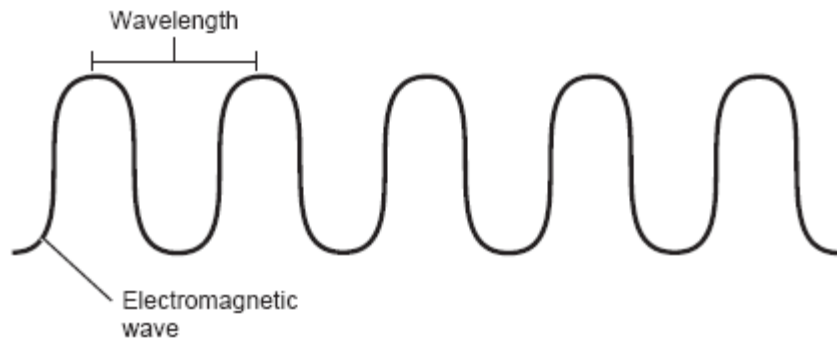


Photoreceptors





(a) Electromagnetic spectrum



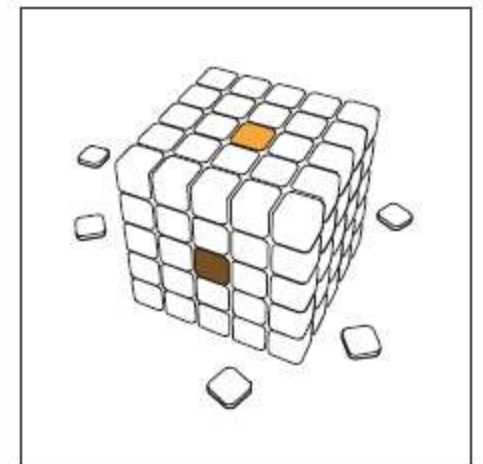
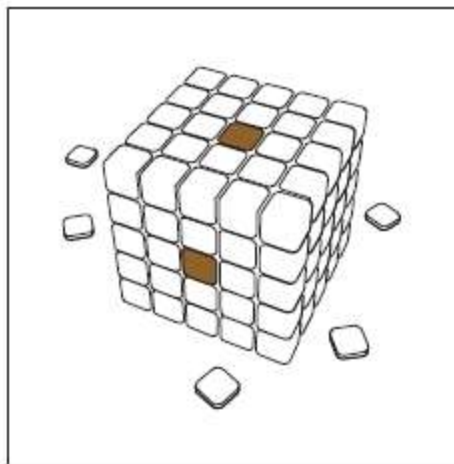
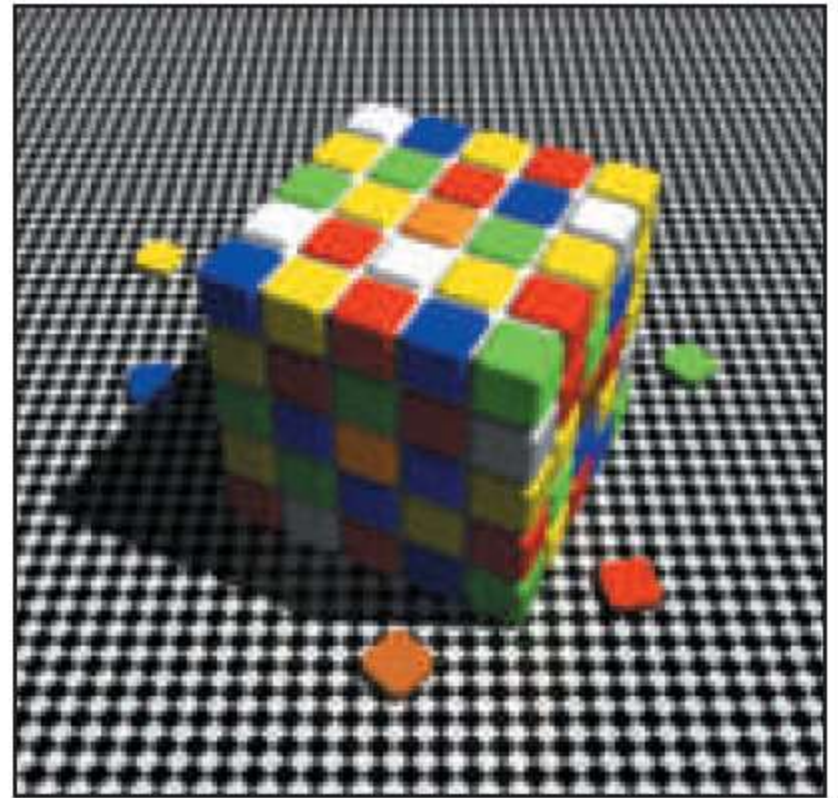
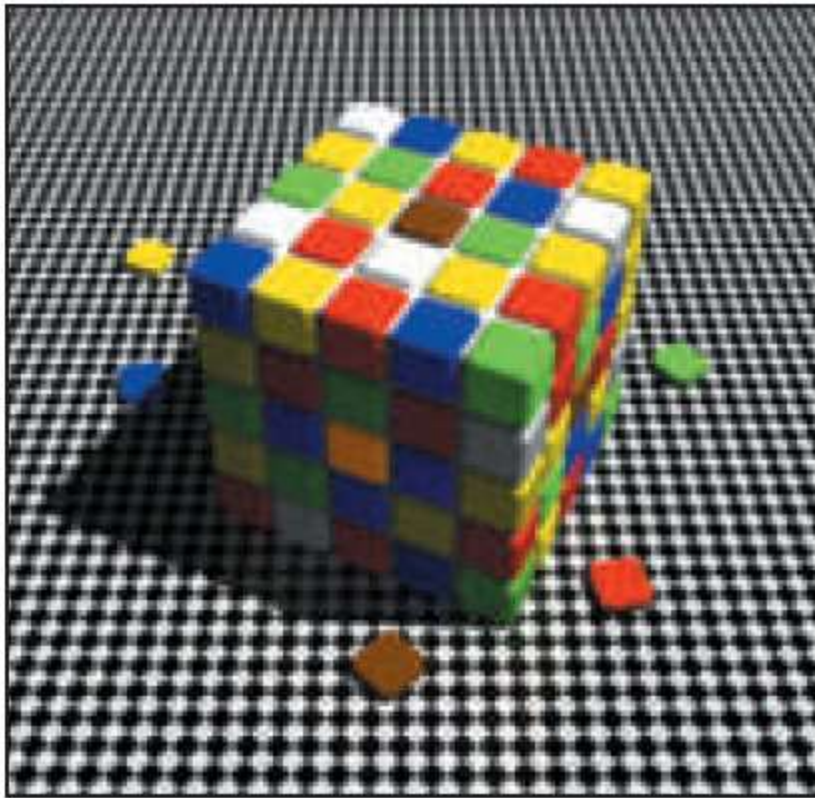
Color names if
you're a girl...

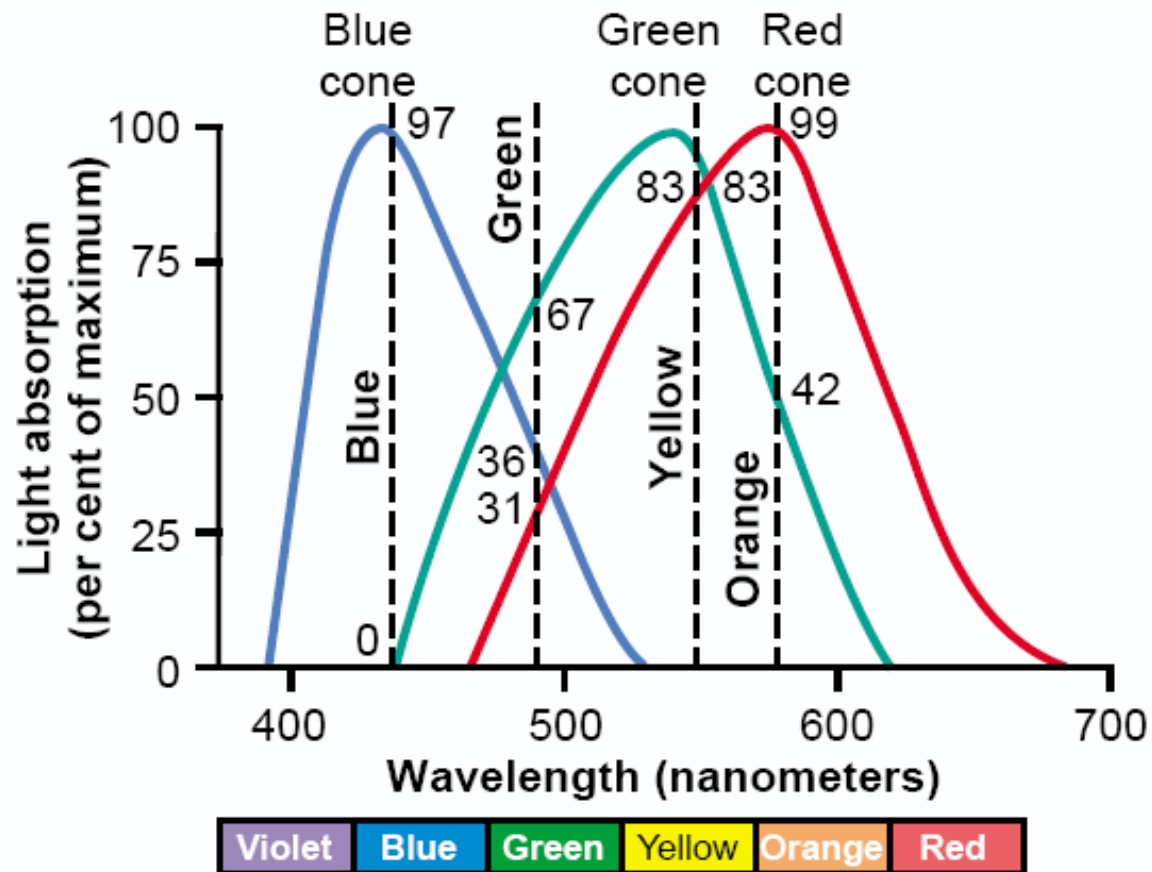
Maraschino		Red
Cayenne		Purple
Maroon		
Plum		
Eggplant		
Grape		
Orchid		Pink
Lavender		
Carnation		
Strawberry		
Bubblegum		
Magenta		Orange
Salmon		
Tangerine		
Cantaloupe		Yellow
Banana		
Lemon		Green
Honeydew		
Lime		
Spring		
Clover		
Fern		Blue
Moss		
Flora		
Sea Foam		
Spindrift		
Teal		
Sky		
Turquoise		

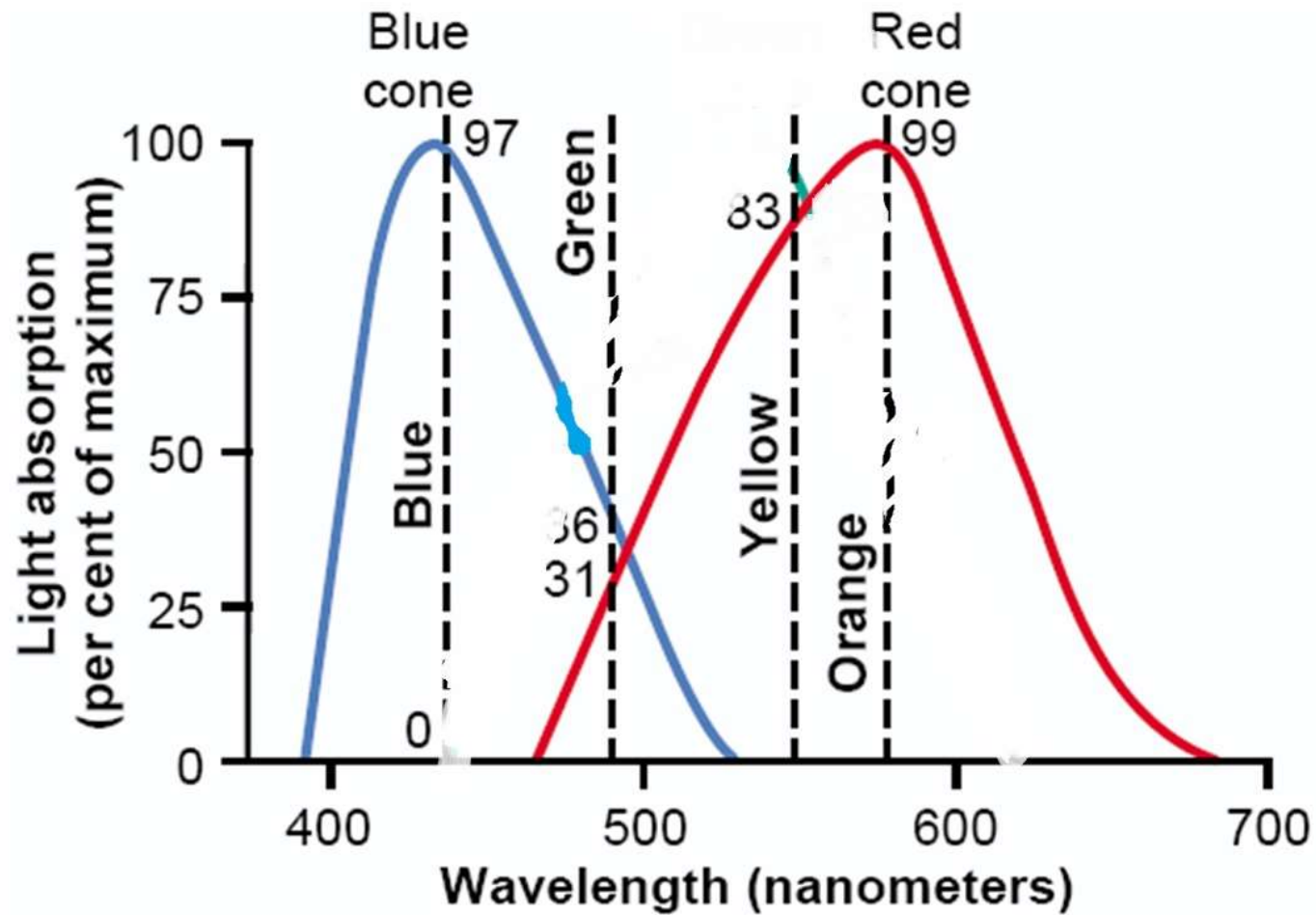
Color names if
you're a guy...

Color Blindness

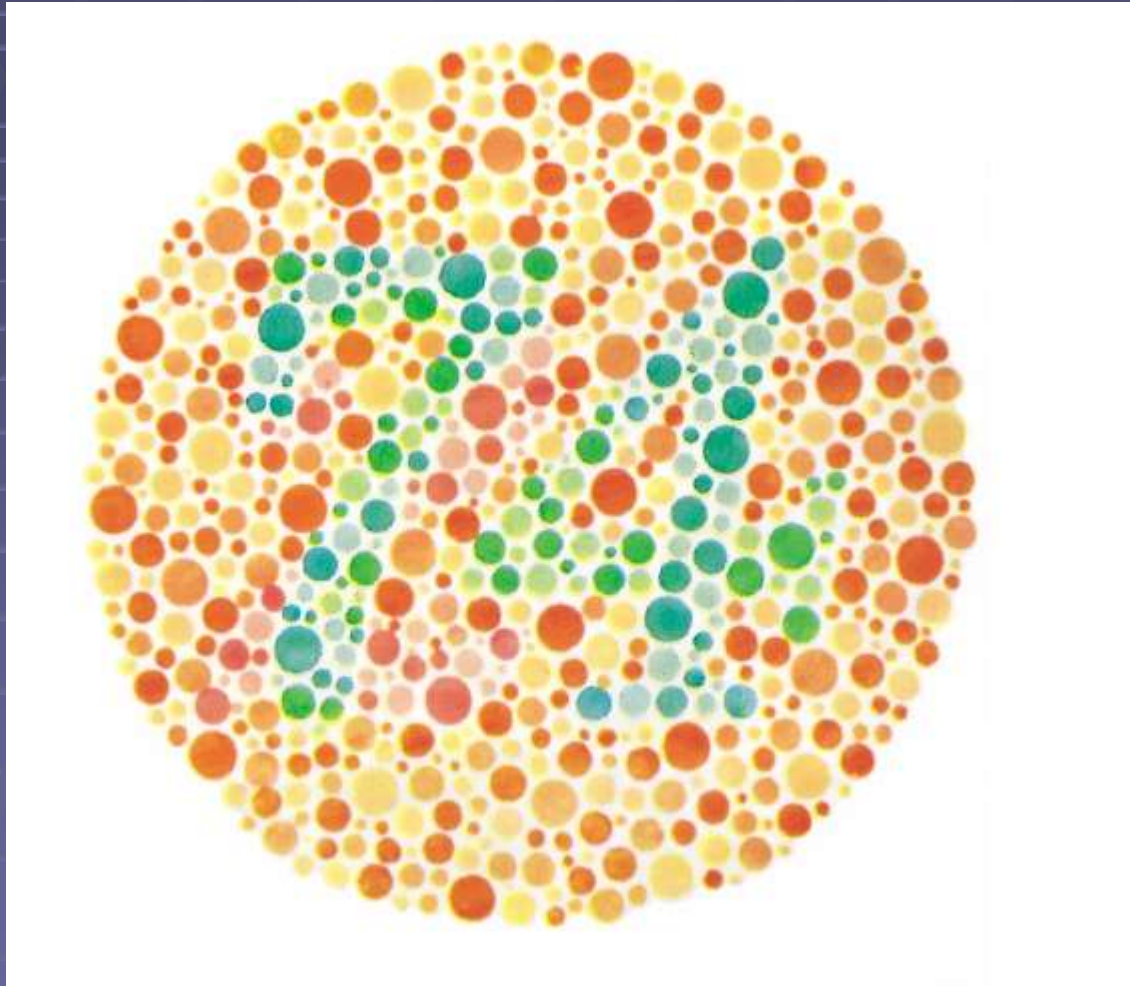
- Red-green color blindness
 - X linked
 - Deuteranope >>> green
 - Protanope >>> red
- Tritanopia >>> Blue Chromosome 7
- ***anomaly : shift in the spectrum of one of the proteins i.e. Deuteranomaly, Protanomaly, Tritanomaly





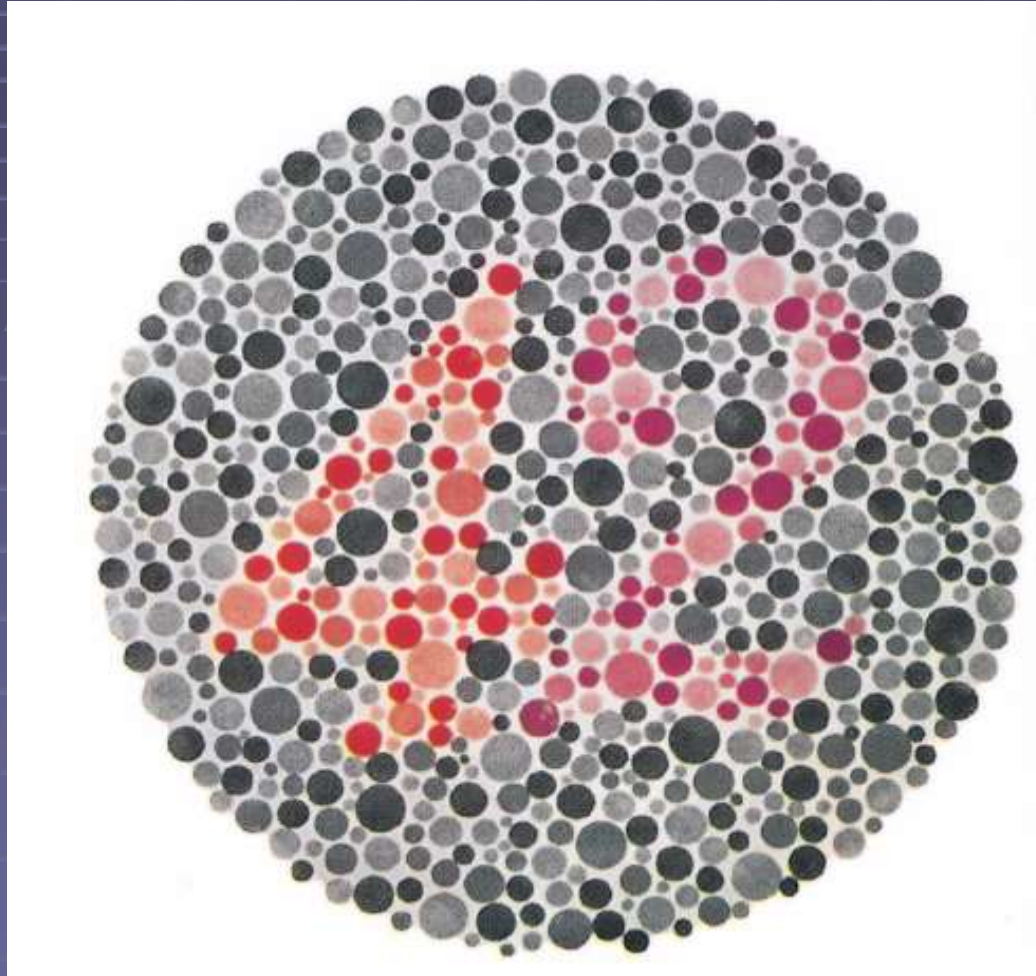


Color Test Chart



74 VS 21

Color Test Chart



42 VS 4 “green” / 2 “red”

Color Blindness

Type	Prevalence
Deuteranomaly (green)	%4.63
Deuteranopia (green)	%1.27
Protanomaly (red)	%1.08
Protanopia (red)	%1.01
Tritanomaly (blue)	%0.02
Tritanopia (blue)	%0.03