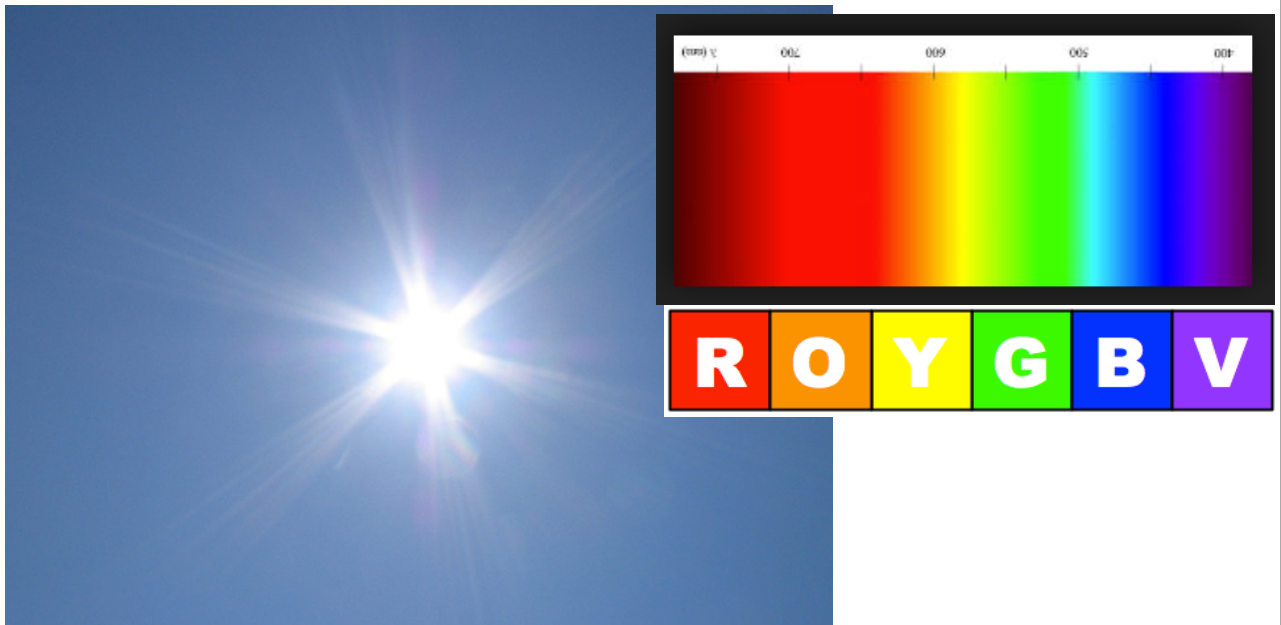
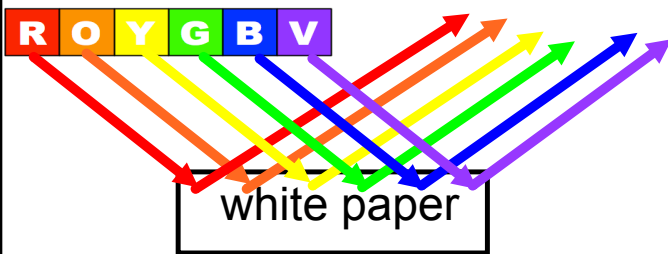


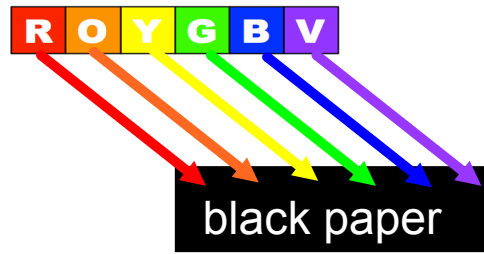
**ROYGBV is an approximation  
for the colors of the sun**



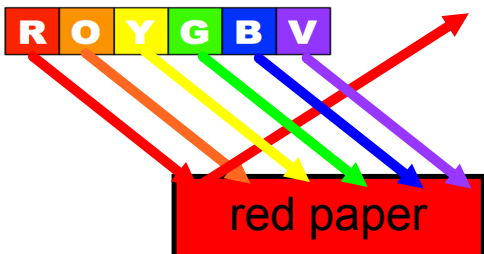
### All color starts at the light source



If ALL of the colors  
BOUNCE you see WHITE.



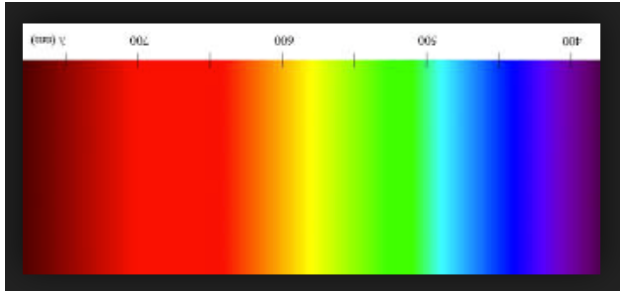
If ALL of the colors get  
ABSORBED you see BLACK.



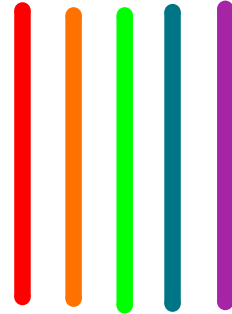
If some get absorbed & some bounce,  
YOU SEE WHAT BOUNCES.

**Inks & dyes work by  
subtracting colors out.**

## Sunlight



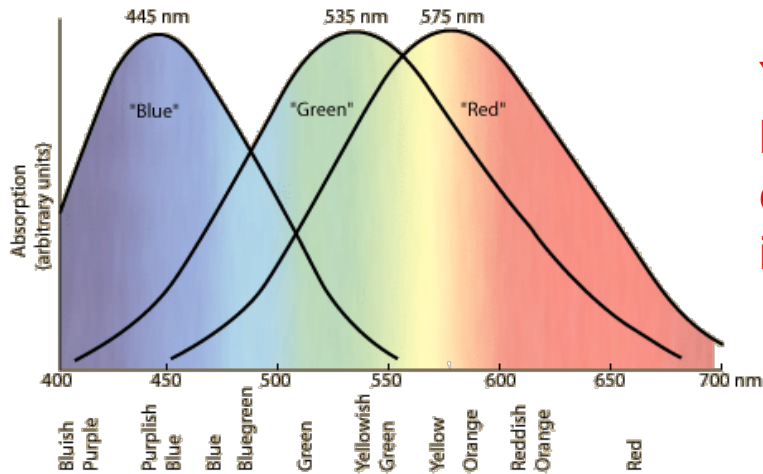
## Fluorescent Lights Cheat



# Do Screens Cheat?

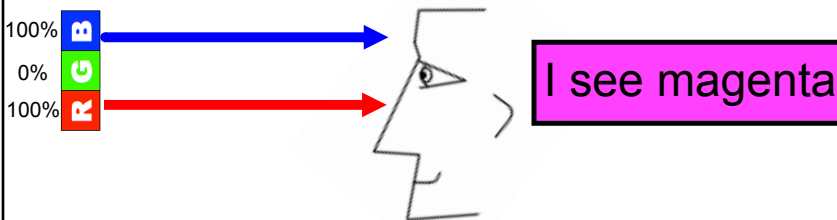
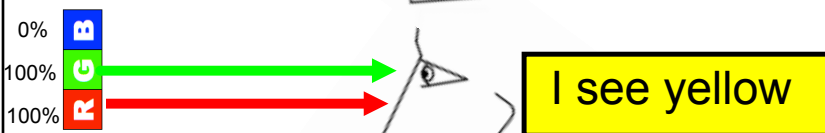
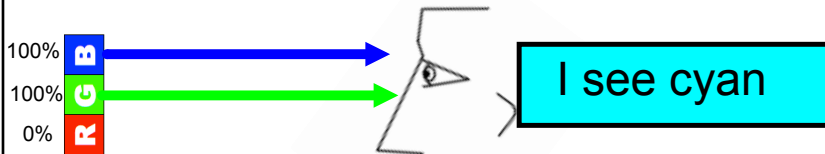


The reason **R G B** works is  
because evolution cheated, too.



You have only three kinds of cones (the color-sensitive cells in your retina)

# Screens Cheat! They only use **R G B**

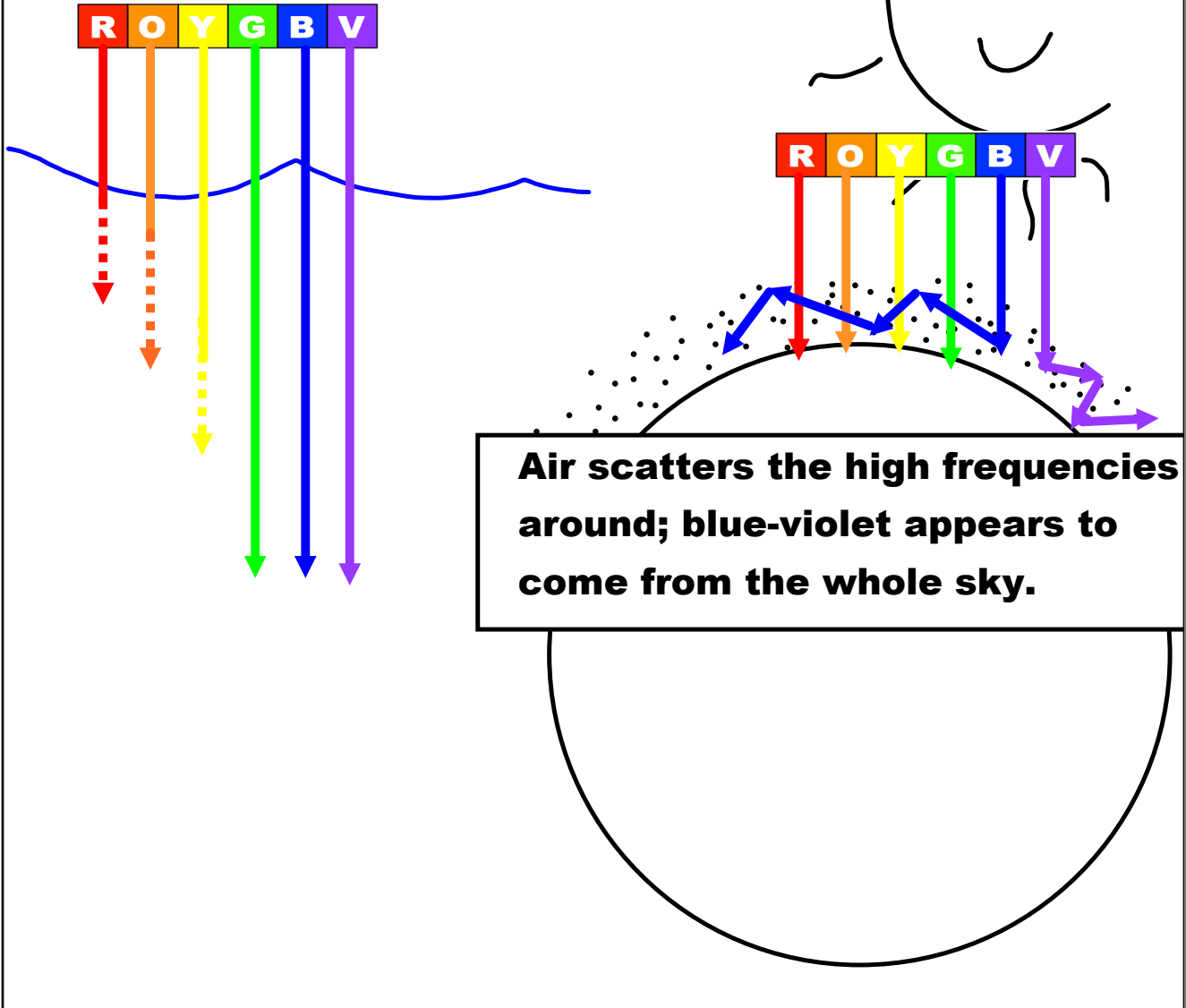


By adjusting the brightness of the



your brain can be fooled into thinking it sees any color!

**Water absorbs the low frequencies first, leaving blue-green when deep.**



**Air scatters the high frequencies around; blue-violet appears to come from the whole sky.**

