

Today	
A Touch of Color	



The sensation of color is caused by the brain.

Some ways to get this sensation include:

- Pressure on the eyelids
- Dreaming, hallucinations, etc.

Main way to get it is the response of the visual system to the **presence of light at various** wavelengths.

What causes this?

•Light could be produced in different amounts at different wavelengths (compare the sun and a fluorescent light bulb). •Light could be differentially

reflected (e.g. some pigments).

It could be differentially refracted - (e.g. Newton's prism)
Wavelength dependent specular reflection - e.g. shiny copper penny (actually most metals).

•Flourescence - light at invisible wavelengths is absorbed and reemitted at visible wavelengths.

























