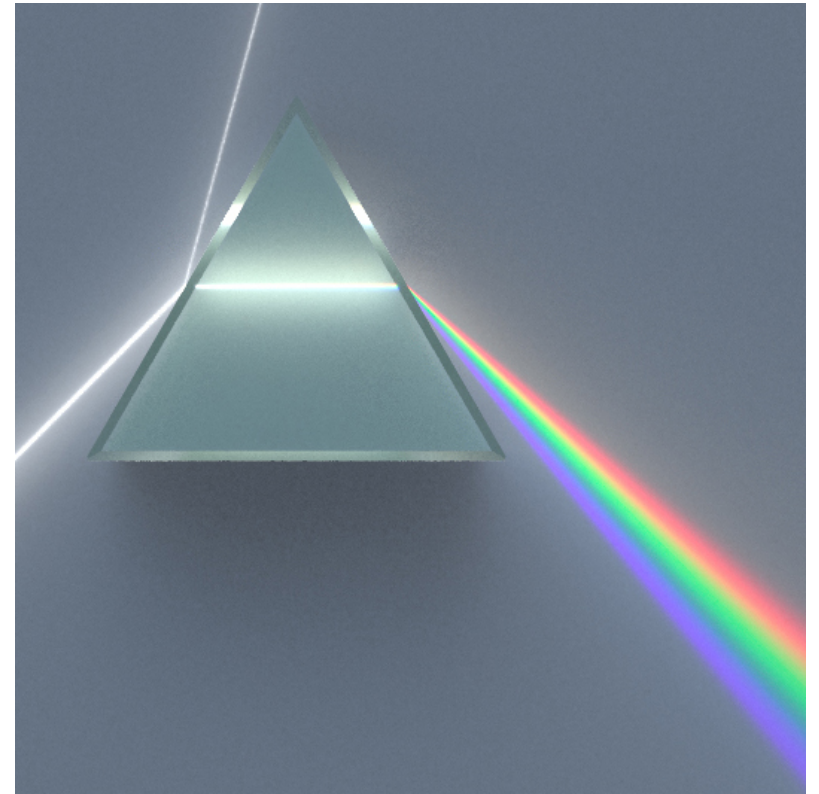
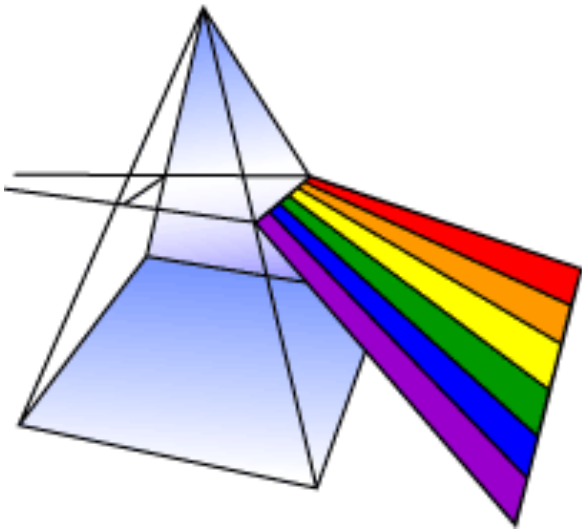
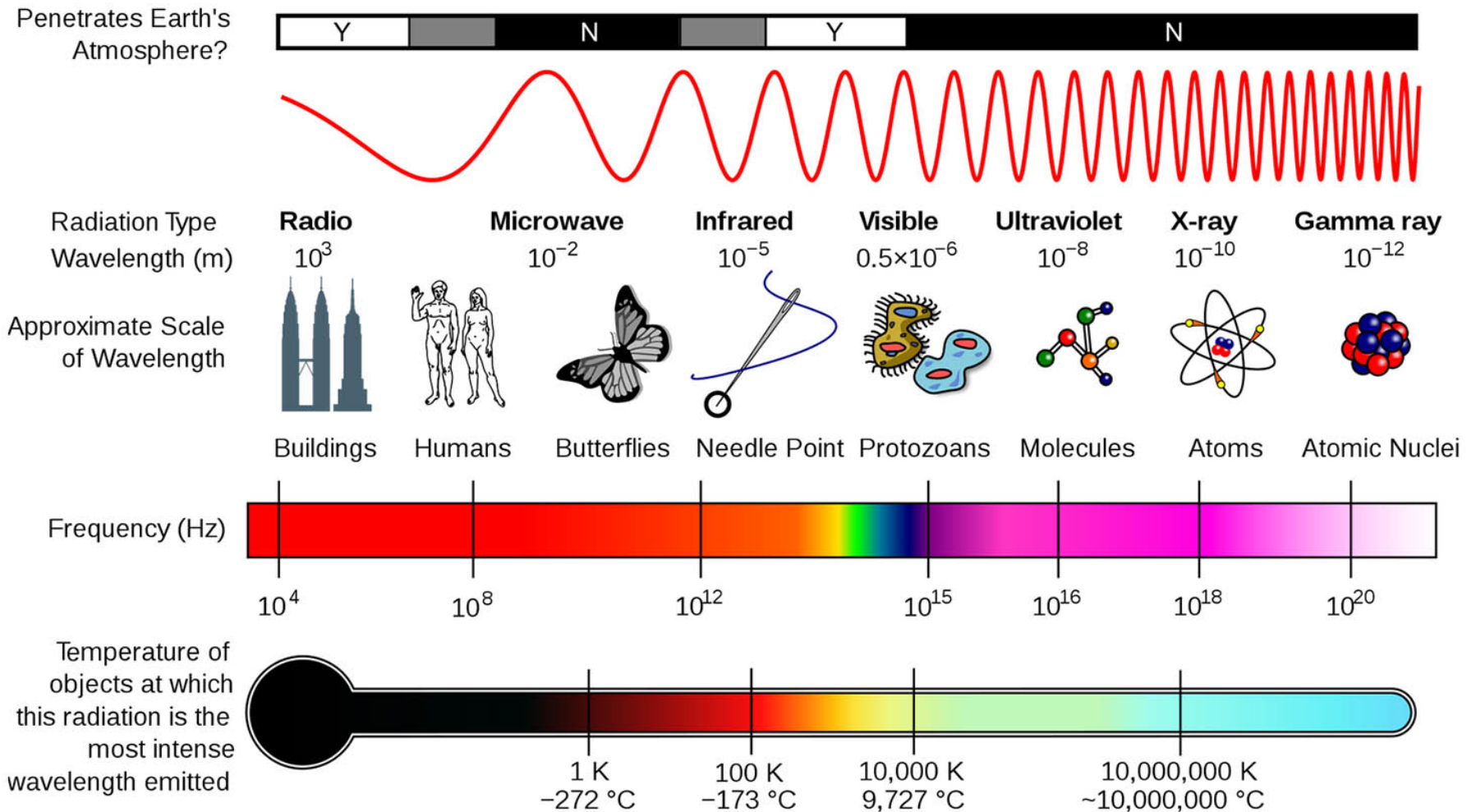


# Light and Color

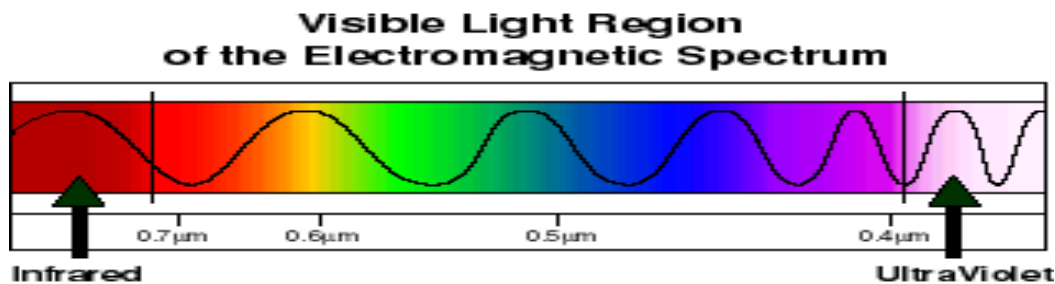


# Light Travels as a **TRANSVERSE** wave

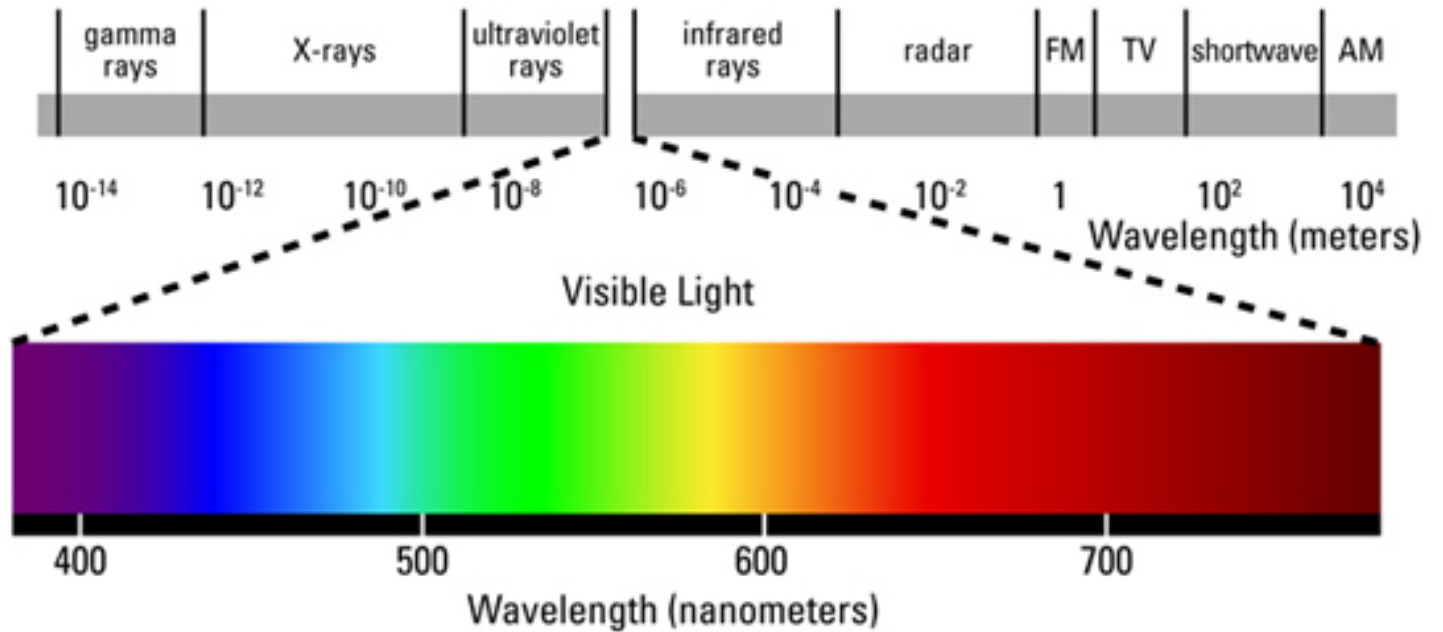
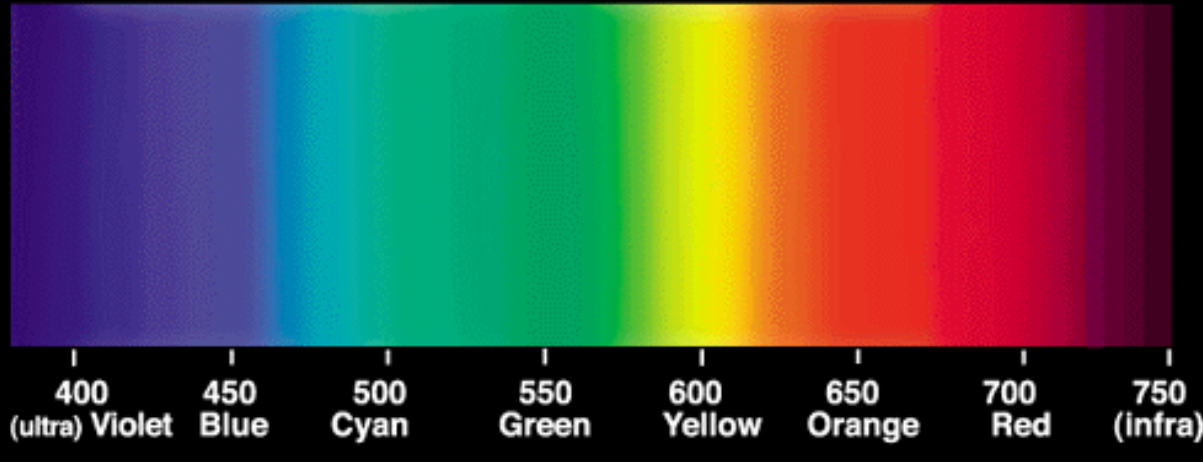


**Visible light** waves are the only electromagnetic waves we can see. Each color has a different wavelength.

**Red** has the **longest** wavelength and **violet** has the **shortest** wavelength.



# THE VISIBLE SPECTRUM • Wavelength in Nanometers

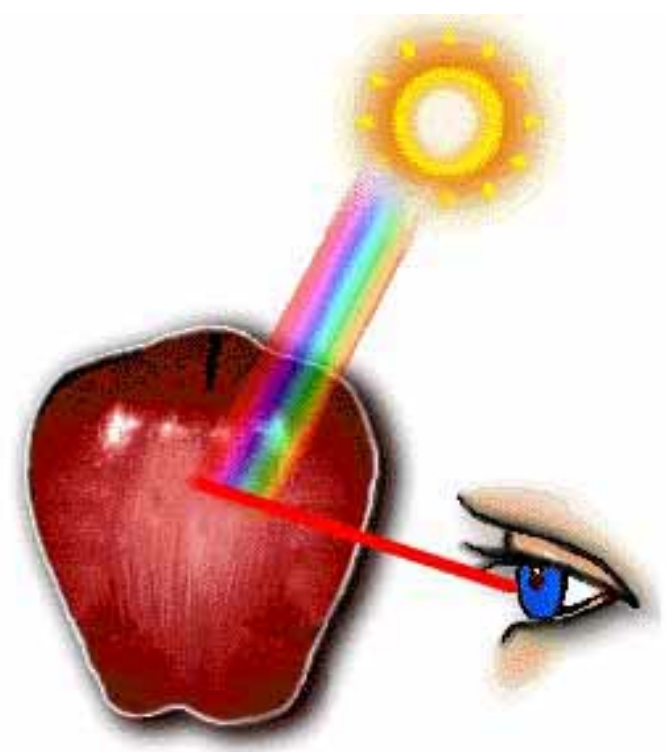
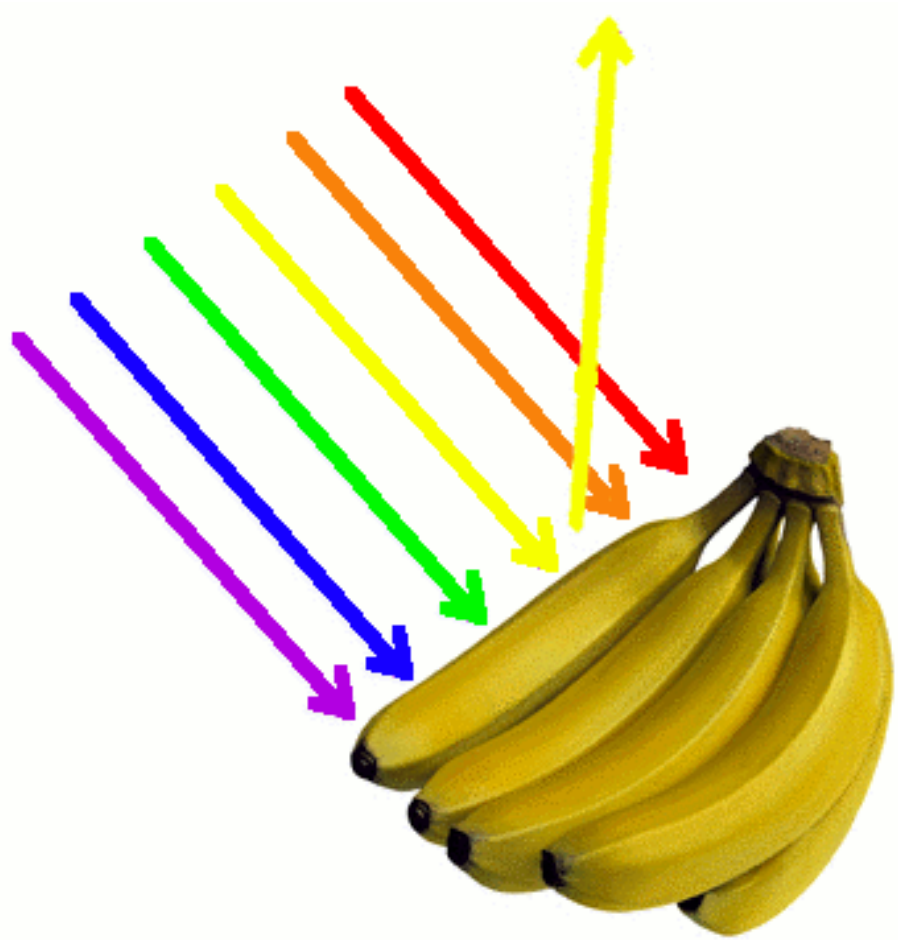


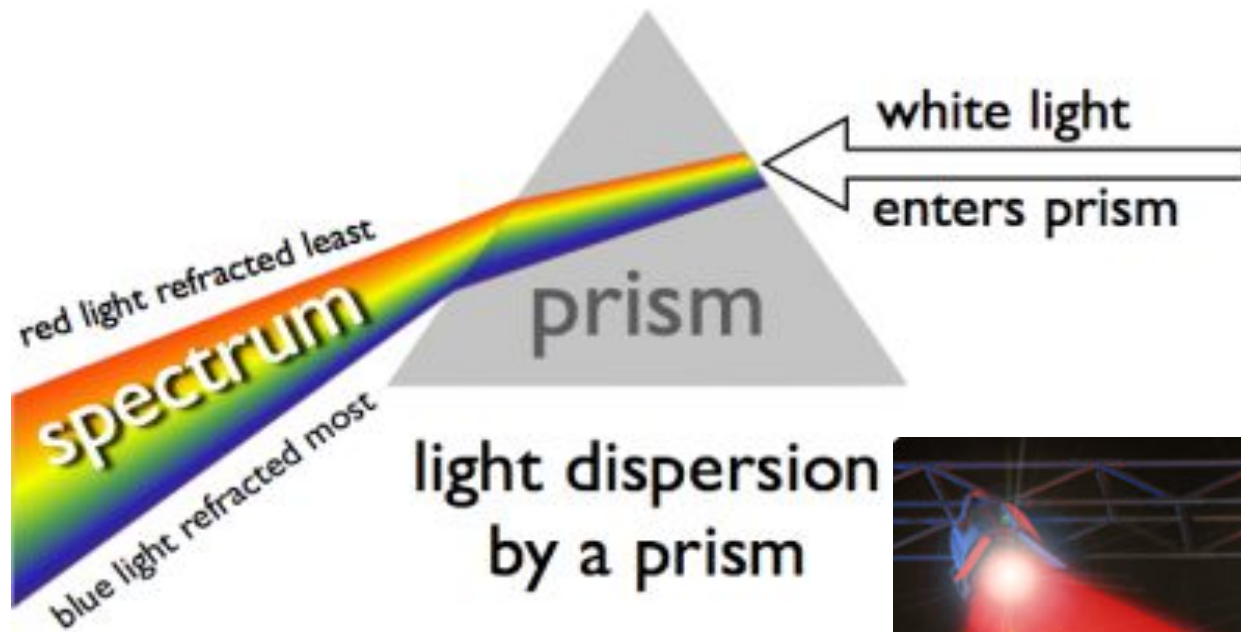


ROY G. BIV



- Visible color spectrum: Red, Orange, Yellow, Green, Blue, Indigo, and Violet
- A rainbow spans a continuous spectrum of colors; the distinct bands are artificially determined by humans.
- In *Roy G. Biv*, the colors are arranged in the order of *decreasing wavelengths* with red being 650 nm and violet being about 400 nm.





light dispersion  
by a prism

