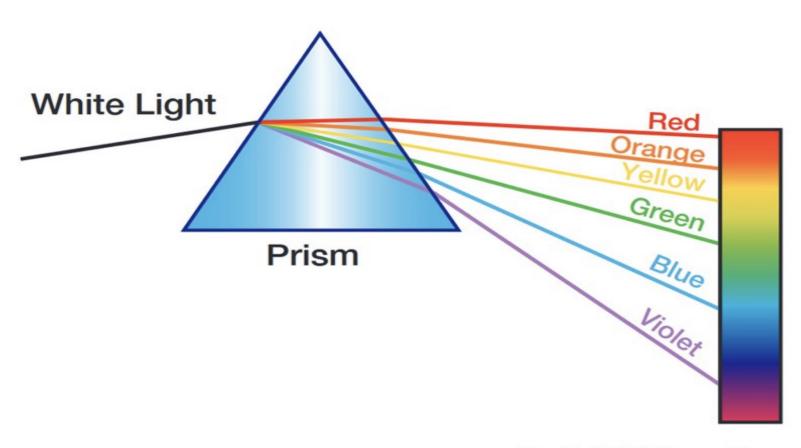
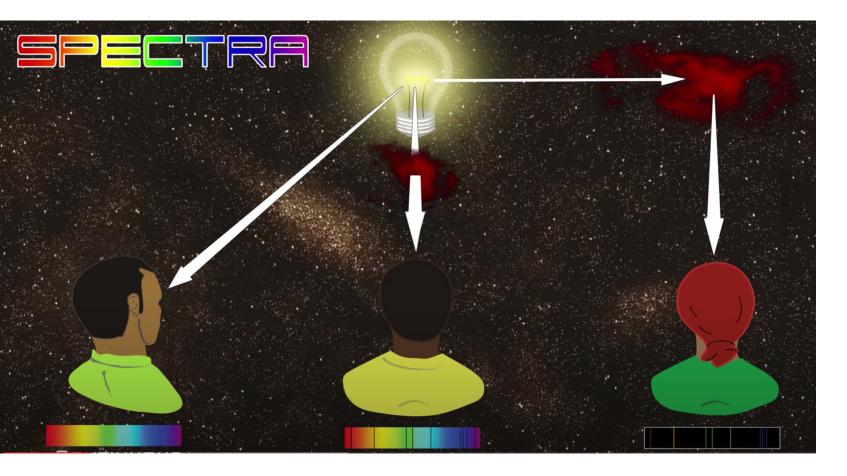
# **Light Spectrum**



Credit: NASA Space Place



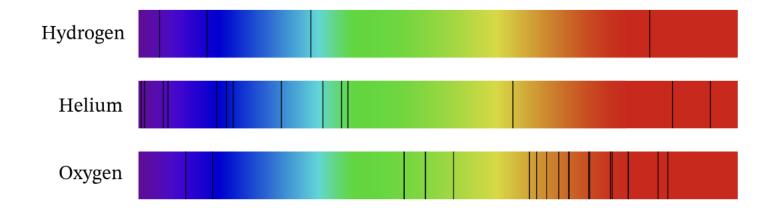
### Continuous

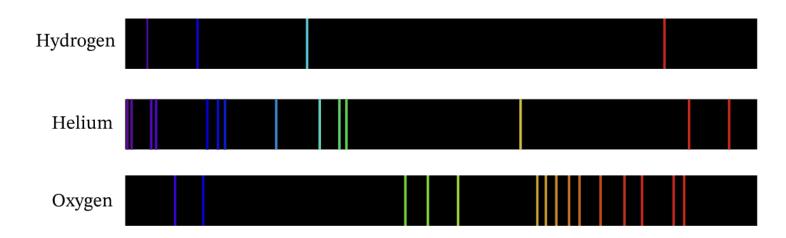
## Absorption

Foucault, the French physicist, observed in 1848 that a flame containing sodium would absorb the yellow light emitted by a strong arc placed behind it. This was the first demonstration of a laboratory absorption spectrum. These facts were brought together in 1859 by G.

### **Emission**

In 1756 Thomas Melvill observed the emission of distinct patterns of colour when salts were added to alcohol flames. <sup>[2]</sup> By 1785 James Gregory discovered the principles of diffraction grating and American astronomer David Rittenhouse made the first engineered diffraction grating. <sup>[3][4]</sup> In 1821 Joseph von Fraunhofer solidified this significant experimental leap of replacing a prism as the source of wavelength dispersion improving the spectral resolution and allowing for the dispersed wavelengths to be quantified. <sup>[5]</sup>





## **Continuous Radiation**

