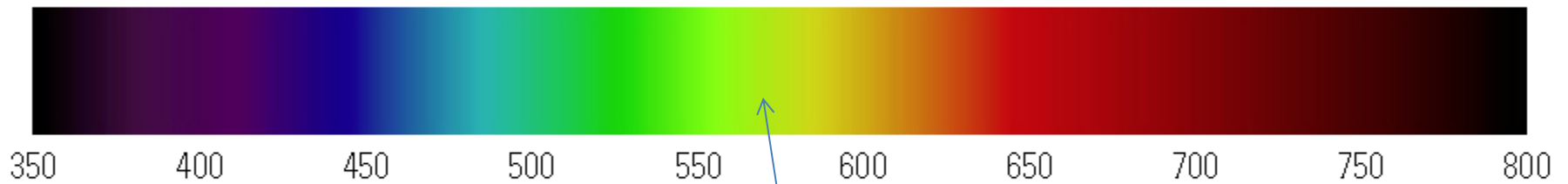


Color

# Visible Light Spectrum



*Wavelength (nm)*

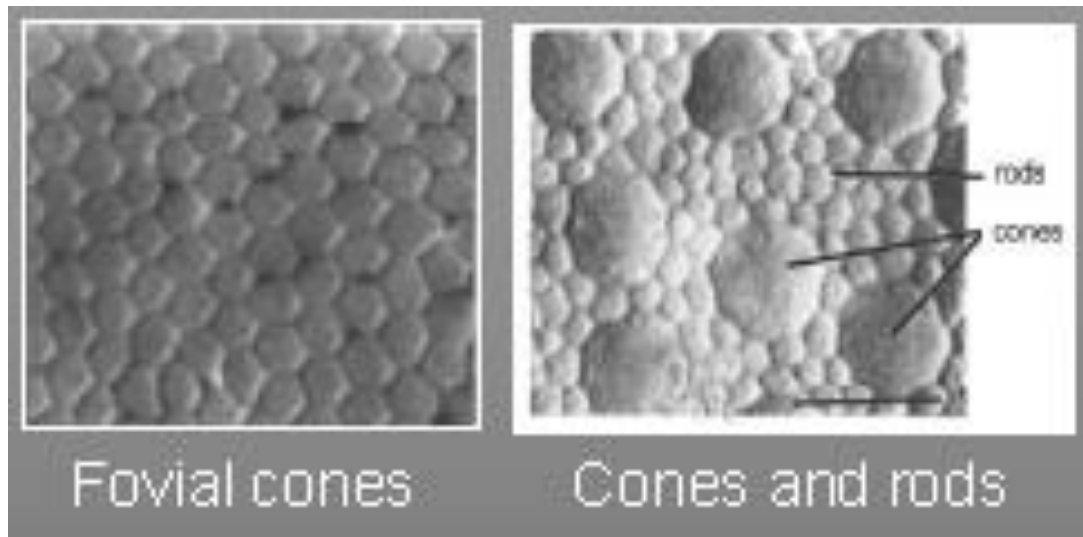
Perceived as most luminous

# Visible Light Spectrum



Spectroradiometers accurately measure the visible light spectrum

# Human Vision



Human vision is three-dimensional

Our display systems are also three-dimensional

How do we find a display color that matches a person's perception of a real-world object?

# Notes on Color

Brown University Color Exploratory (including metamers app)

[http://cs.brown.edu/exploratories/freeSoftware/catalogs/color\\_theory.html](http://cs.brown.edu/exploratories/freeSoftware/catalogs/color_theory.html)

Maureen Stone has a number of links, talks, etc. related to color, especially for information visualization <http://www.stonesc.com/>

We followed her SIGGRAPH 2001 course notes, which can be downloaded from the course web page.

Her SIGGRAPH 2004 course notes are here: <http://www.stonesc.com/signotes/>

Also of possible interest:

Cinematic Color: From Your Monitor to the Big Screen (SIGGRAPH 2012)

<http://s2012.siggraph.org/attendees/sessions/cinematic-color-your-monitor-big-screen>