


## Tristimulus Theory of Color

Important principle:
Any color spectra is perceived by sensors with 3 different response frequencies!

Tristimulus theory of color:
Color is inherently a three-dimensional space

## Metamers:

If two colors produce the same tristimulus values, then they are visually indistinguishable


## Color Spectra

## Important principle:

Any color spectra is perceived as:

- a single dominant wavelength - its hue
- mixed with a certain amount of white light (saturation)
- of a certain intensity or brightness



## RGB Primary Colors





