COLOR

2nd Grade Art = Color Wheel

Physics

Neuroscience

Perception

Design

What is Color (559 review) physics (distribution)

Cones, metames... = TRICHRONOMICITY

non-spectral colors: white, black, gray, purple

Measuring Color

RGB (non-linear)

XYZ (imaginary primaries) xy Y \( x = \frac{x}{x+y+z} \)

Perceptual Color spaces

Luminance Factoring

LAB

Display Color Spaces

ARTIST FRIENDLY Color Spacess

HSV HLS

hexcone / angle
What is color good for:

unordered / categorical
  how many categories?  \rightarrow \text{perceptual distance}
  how distinctive?

Color as landmarks on a scale

Color for continuous scales

Connotations of Color \leftarrow \text{culture, mood, aesthetics (emotional response)}

Contrast \leftarrow \text{what colors work}

Working with Luminance

Iso Luminance

Contrast Needs vs. Size

Color Interaction effects