Images and Hardware
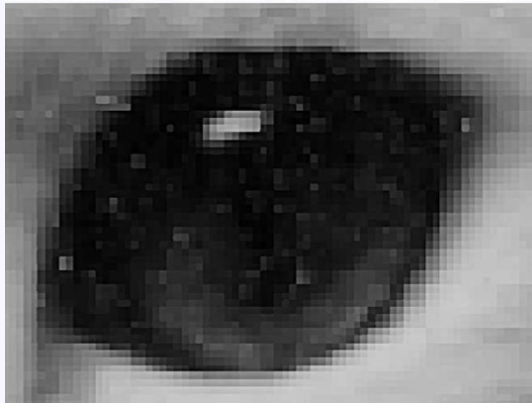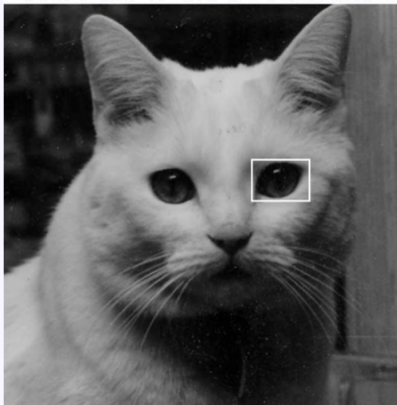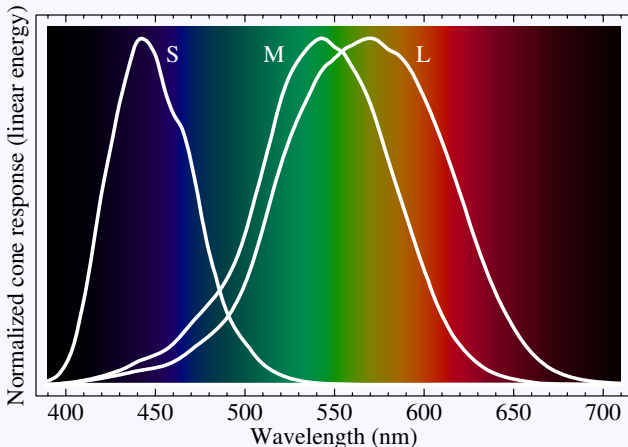
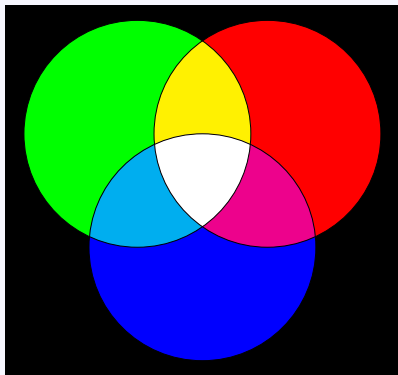University of California Riverside

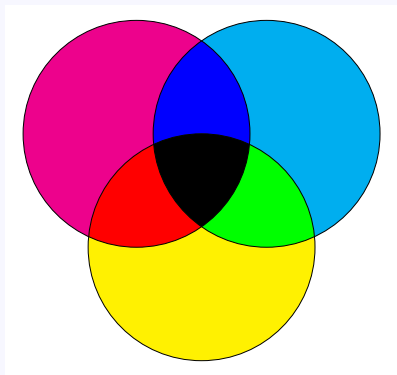# Raster image

Human vision

- Eye contains three types of cells ("cones")
- Sensitive to red, green, and blue
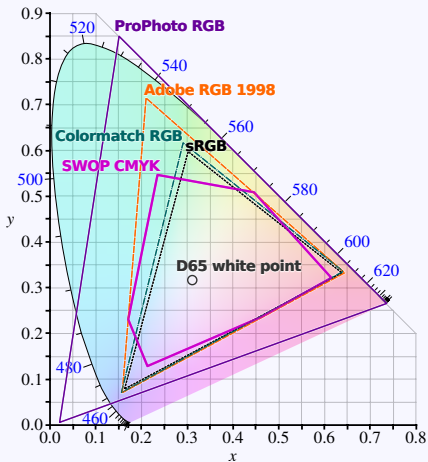- Other colors seen as mixtures of these

Color representation
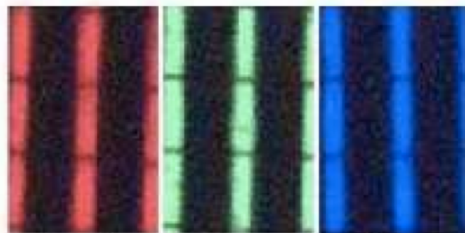

Additive
RGB

Subtractive
CYMK

Human vision

- RGB cannot represent everything
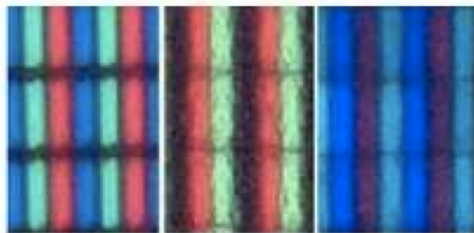
Raster devices

Raster display

Red   Green   Blue

60 x Magnification

White   Yellow   Image

60 x Magnification

Attribution

[1] BenRG. Cone-fundamentals-with-srgb-spectrum.svg.
     https://commons.wikimedia.org/wiki/File:Cone-fundamentals-with-srgb-spectrum.svg. public
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[2] BenRG and cmglee. Cie1931xy_gamut_comparison.svg.
     https://commons.wikimedia.org/wiki/File:CIE1931xy_gamut_comparison.svg. CC BY-SA 3.0.