

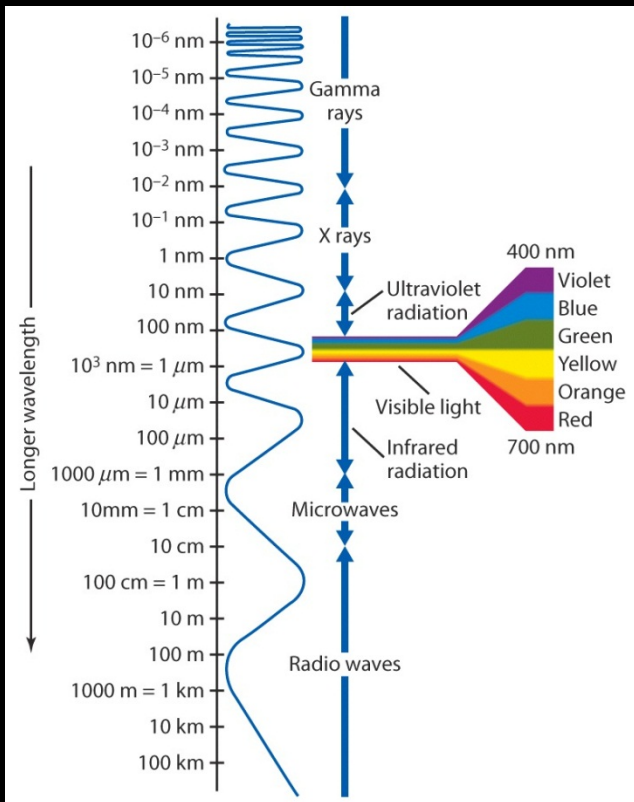
Elements of Design: Color I

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2D Design – Art 112

Color

Property of Light



Color

Color = perception of wavelength.

Hue = position in the spectrum.

Chroma = how pure a hue is in relation to gray.

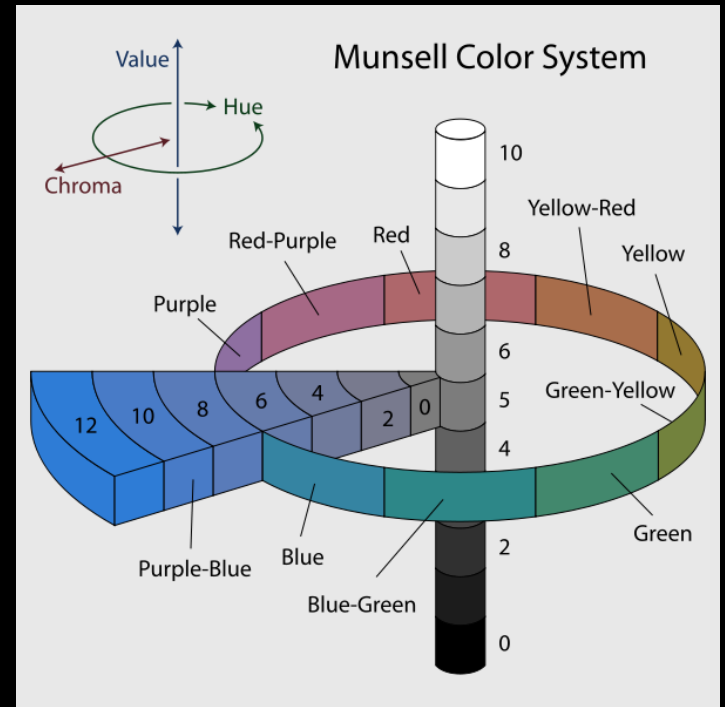
Saturation = degree of purity of a hue.

Shade = A hue produced by the addition of black.

Tint = hue produced by the addition of white.

Intensity = hue brightness or dullness of a hue.
One may lower the intensity by adding white or black.

Luminance | Value = Amount of light reflected from a hue.
Hues with a high content of white have a higher luminance or value.



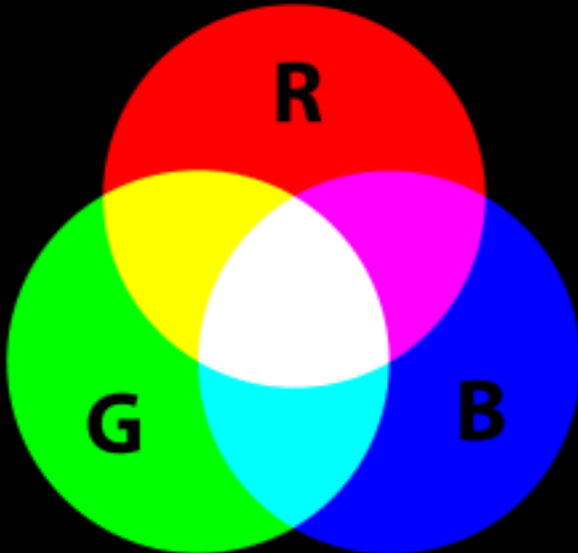
Color Source

Origin: **Light**

Additive System

Combining Light

Model: **RGB**

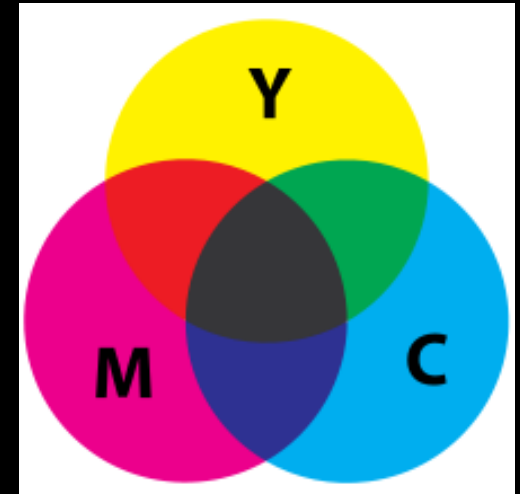
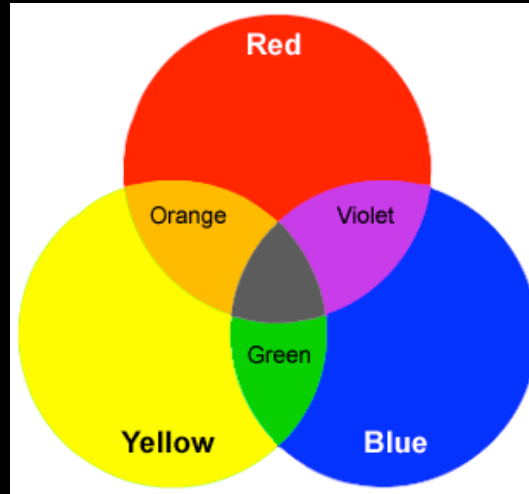


Origin: **Paints + Dyes + Pigments**

Subtractive System

combining pigment

Model: **RYB | CMYK**



Color Wheel

Source: **Pigments**

Subtractive Color System

Model: **Red** - **Yellow** - **Blue**



Color Wheel



Primary Colors



Secondary Colors



Tertiary Colors

Primary Colors:
Red | Yellow | Blue

Secondary Colors:
Green | Orange | Purple
Mix: primary + primary

Tertiary Colors:
Yellow-orange,
Red-Orange
Red-Purple
Blue-Purple
Blue-Green
Yellow-Green
Mix: primary + secondary

Color Wheel

Primary Colors:

Red | Yellow | Blue

Secondary Colors:

Green | Orange | Purple

Mix: primary + primary

Tertiary Colors:

Yellow-orange,

Red-Orange

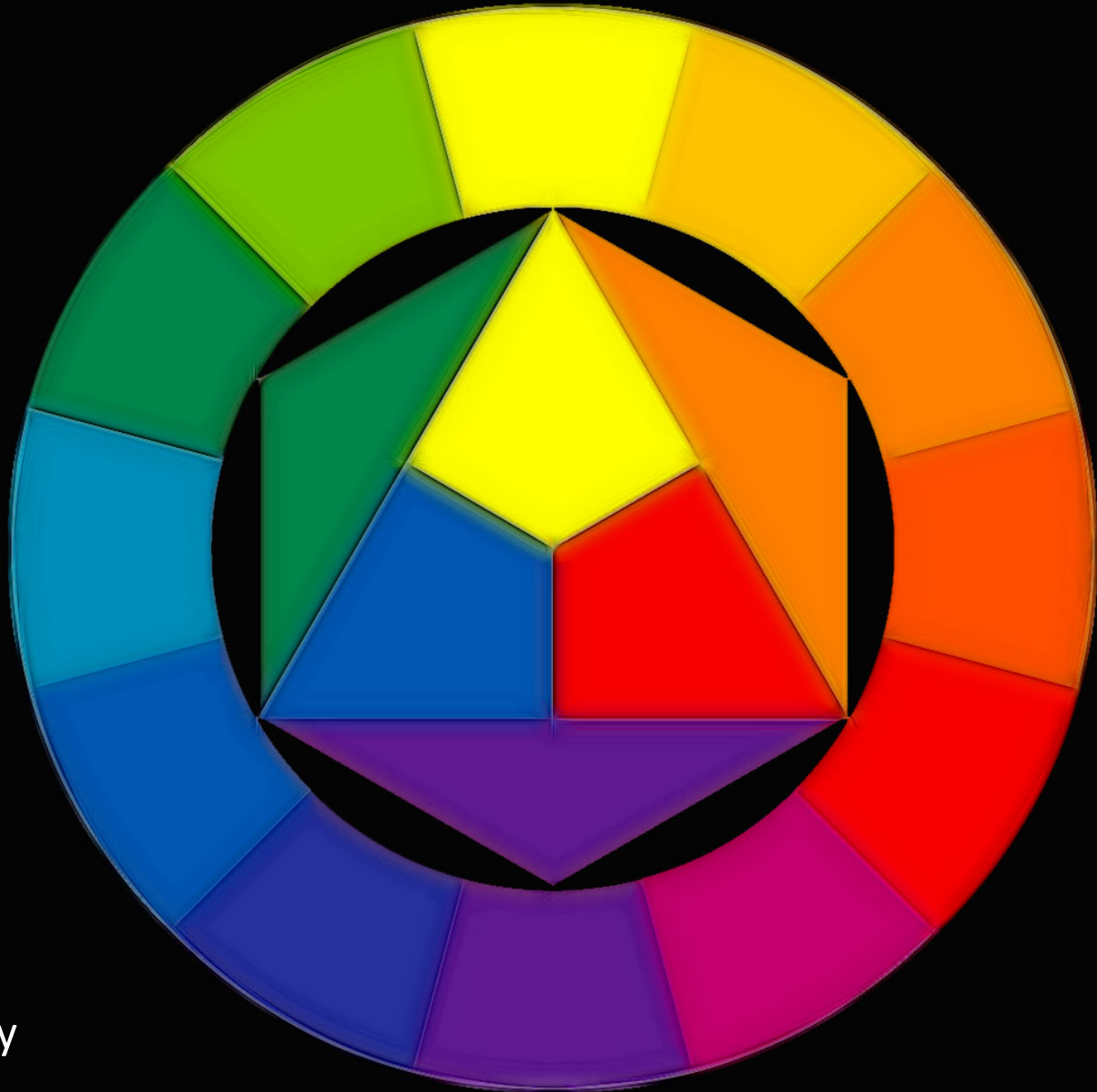
Red-Purple

Blue-Purple

Blue-Green

Yellow-Green

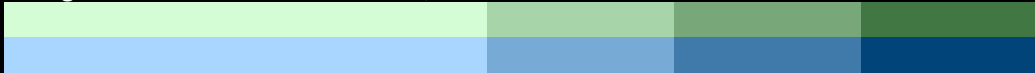
Mix: primary + secondary



Color Scheme | Harmony

Monochromatic

A single hue and a selection of tints, tones and shades.



Analogous

Colors that are side by side, or very near each other on a color wheel.



Complementary

Colors appearing across from one another on a color wheel. These color combinations offer the maximum amount of contrast.



Split-Complementary

One hue plus two colors on either side of its complement. These provide less contrast than straight complements.



Triad

Three colors that are equidistant on a color wheel.



Tetrad

Two pairs of complimentary colors.



Color Scheme | Harmony | **Monochromatic**



- Colors that are shade or tint variations of the same hue.
- Clean and elegant.
- Colors go well together.
- Produce a soothing effect.
- Easy on the eyes, especially with blue or green hues.



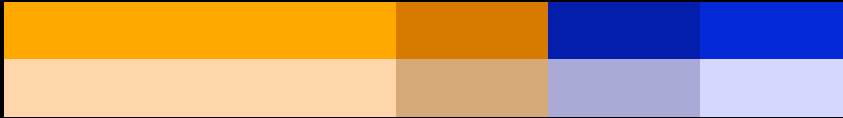
Color Scheme | Harmony | Analogous



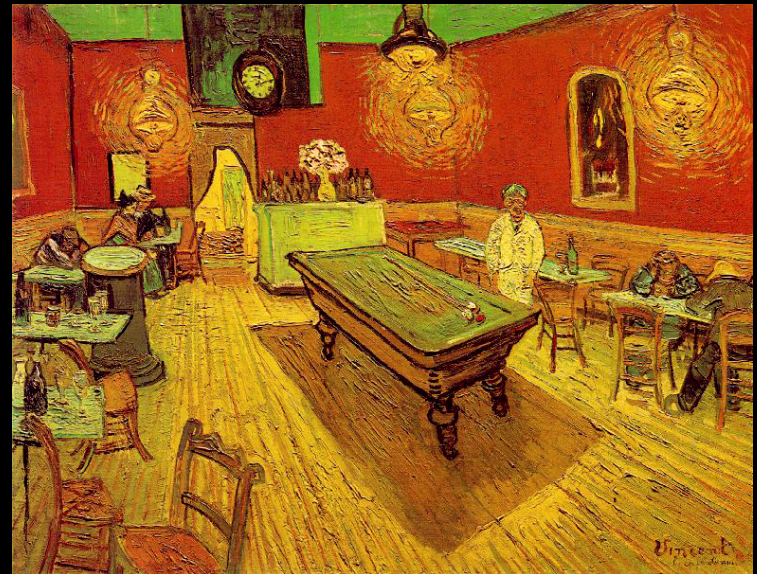
- Colors located adjacent (next) to each other on a color wheel.
- One color is used as a dominant color.
- Other colors are used to enrich the scheme.



Color Scheme | Harmony | Complementary

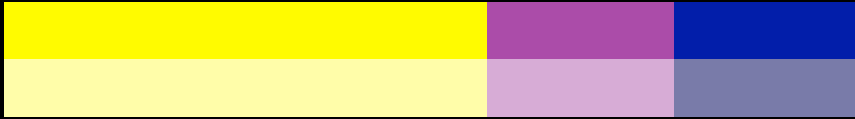


- Colors across from each other on a color wheel.
- Best when warm color against a cool color.
- High contrast.



http://en.wikipedia.org/wiki/File:Vincent_Willem_van_Gogh_076.jpg

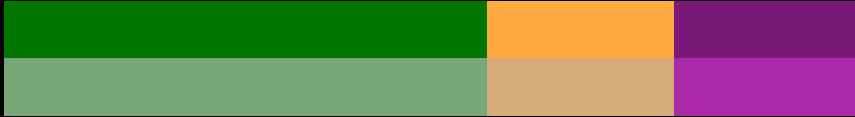
Color Scheme | Harmony | **Split Complementary**



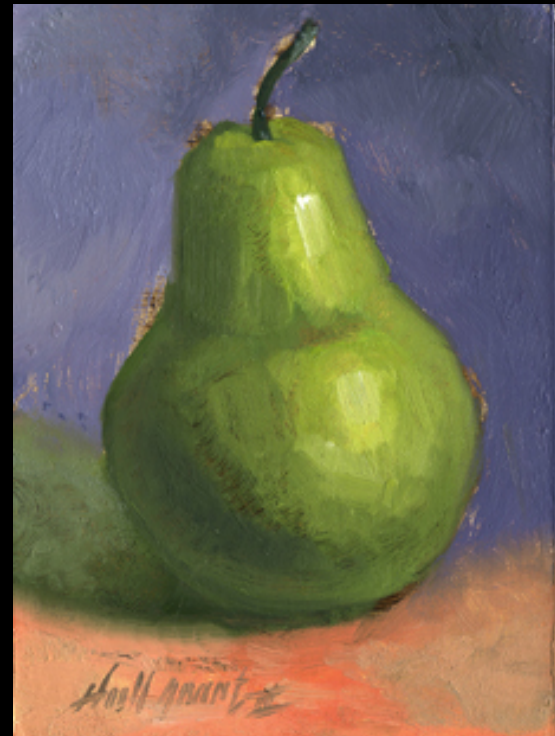
- One hue plus two others equally spaced from its complement.
- High contrast without tension.



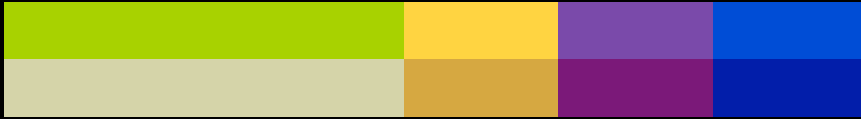
Color Scheme | Harmony | **Triadic**



- Three hues equally distanced on a color wheel.
- Strong visual contrast.
- Retains harmony and color richness.



Color Scheme | Harmony | Tetrad



Tetrad | Double Complementary

- Two complementary color sets; the distance between selected complementary pairs will effect the overall contrast of the final composition.
- Hard to harmonize.



Review

Color:

- It's an element of design.
- Property of light
- Paint RYB | CMYK = Subtractive System
- Monitor/Screen RGB = Additive System
- Color Schemes | Harmony
 - Monochromatic
 - Analog
 - Complementary
 - Triadic
 - Split Complementary
 - Tetrad | Double Complementary

<http://www.worqx.com/color/combinations.htm>

<http://www.wiu.edu/art/courses/design/color.htm>

<http://www.colormatters.com/color-and-design/basic-color-theory>

<http://elizabeth-martinez.wikispaces.com/Color+Schemes+Downloaded>

http://www.tigercolor.com/color-lab/color-theory/color-theory-intro.htm#Primary_colors