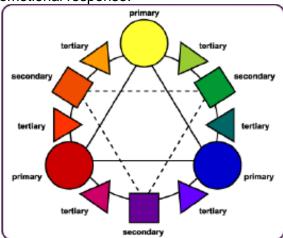
Color Theory PNWD Arrangement Seminar, Oct 28, 2016

By JoAnn Brehm

<u>Color Theory</u> is a set of principles used to create harmonious color combinations. Color relationships can be visually represented with a color wheel — the color spectrum wrapped onto a circle. **Color** is the most important and influential element of design. Color is the visual response to reflected light rays and triggers emotional response.



There are three **Primary Colors**: Red, Yellow, & Blue

There are three **Secondary Colors** (made of an equal mixture of two primary colors):

Red & Yellow = Orange, Yellow & Blue = Green, Red & Blue = Violet

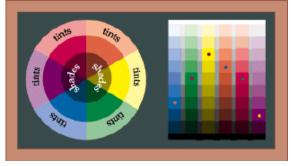
There are six **Tertiary/Intermediate Colors** (made of an equal mixture of a primary and secondary color):

Example: Red & Orange = Red Orange

FACTORS OF COLOR

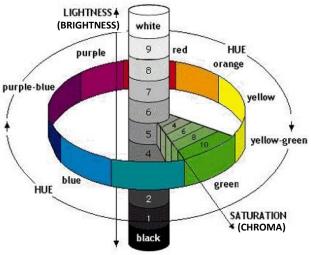
- 1. <u>Hue</u>, which is synonymous with the word color, is the name of a color. Each color has the physical properties of **value** and **chroma**.
- 2. **Value** is a color's lightness or darkness.
 - a. Tint is a light value and is achieved by adding white to the hue. Pink is a tint of red.
 - b. Shade is a dark value, achieved by adding black to the hue. Burgundy is a shade of red.
- 3. **Chroma** is the brightness or dullness of a hue, the degree of intensity or grayness, the purity of a color.
 - a. **Tone** is a color with neutral gray or a complementary color added, to make it dull. Dusty rose is a **tone** of pink. A color of high intensity has no gray or complementary color added.





THE THREE AXIS OF COLOR (contributed by John Moe)

Note: Judging guidelines use the term brightness vs. lightness and chroma vs. saturation on this diagram



Related Color Harmonies are Monochromatic and Analogous.

- Monochromatic harmonies are one color (a single hue) only but can include value and chroma of that color. Example: red and its varying tints and shades.
- Analogous harmonies are neighboring or adjacent hues/colors. Technically includes one primary color with adiacent colors on the color wheel, which forms a 90° angle.









Monochromatic

Analogous, cool & warm

Unrelated Color Harmonies are <u>Direct Complementary</u>, <u>Split Complementary</u> and <u>Triadic</u>.

This harmony uses two hues that are opposite each other on the color wheel. When used together in a design they make each other seem brighter and more intense.

- Direct Complementary color harmonies are two colors that are directly opposite each other on the color wheel.
- **Split Complementary** color harmonies are colors on either side adjacent to the direct complementary color. If green is the color, the split complementary colors would be redviolet and red-orange that are adjacent to the direct complementary color red. This color harmony is often found in nature.

Triadic color harmonies are composed of three hues equally spaced on the color wheel, for example red, yellow and blue.



Red & Green

Orange & Blue



Yellow & Purple

A word about Foliage & Color - The green in foliage is often considered neutral in floral design. Foliage used as a focal point or accent should adhere to a color harmony.

A word about Cool & Warm Colors – Warm colors are orange and yellow (advancing colors). The cool colors are green, blue and violet (receding colors).

COLOR IS INVOLVED IN ALL PRINCIPLES OF DESIGN

Color dominance may be used to create unity in an arrangement.

Color rhythm is achieved by repeating colors throughout a design.

Color balance involves distributing the visual weight of a color to add interest.

Color proportion is good if unequal amounts of different colors, light and dark values, cool and warm colors and weak and strong colors are used.

Color contrast creates interest.

Scale within color may deal with the size of one component of the design and its color relationship to the size of another component of the same color intensity.

THEN THERE IS THE DESIGN TYPE - Modern Bold, Traditional Subdued...