

An exercise in color, (or "reinventing the wheel")



PRIMARY pure colors (red, yellow, blue)

- □ □ □ "first," "principal colors,"
- □ □ □ made by manufacture, not mixing

SECONDARY mix any two primary colors

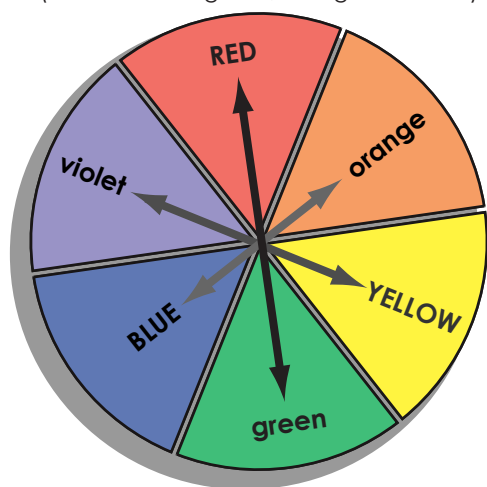
- □ □ □ red + yellow = orange
- □ □ □ yellow + blue = green
- □ □ □ blue + red = violet

TERTIARY "intermediate" colors

- □ □ □ mix together a primary color with
- □ □ □ an equal amount of the secondary
- □ □ □ color next to it on the color wheel
- □ □ □ (red-orange, yellow-green,
- □ □ □ blue-green, blue-violet, red-violet)

COMPLEMENTARY PAIRS

- (such as red & green, orange and blue)



INTENSIFY VS. NEUTRALIZE

"simultaneous contrast" - seen side by side, complementary colors **intensify** each other,

Mixed together as a "shade," they subdue or **neutralize** intensity

TINTS AND SHADES

- Tint** □ □ a color **mixed with white**, ranging from pure color at □ □ maximum intensity through to white
- Tinting**
- Strength** □ ease or degree to which a color will **tint white** (high strength □ □ means little is necessary to tint white)
- Shade** □ □ a color **darkened by mixing with a dark color**, such as □ □ **black**, or a second color, usually its **complementary**.

- Hue** □ □ another name for color, (for ex. Phthalo blue, Ultramarine blue □ □ and Prussian blue, are all close in "hue" to each other)

- Tone** □ □ describes the **relative lightness or darkness** of a color □ □ □ □ (light, mid, dark) -the tone can lighten if white is added □ □ to a tint

- Value** □ □ describes the **lightness or darkness** of a color, such as □ □ light value (lemon yellow) or dark value (indigo) □ □ (not the same as brightness or intensity!)

- Saturation** □ □ describes the relative purity of a hue, aka. "**chroma**" or "**intensity**" - the pure colors of red, blue and yellow, are all "**fully saturated**" colors.

- Color intensity** □ the relative **chroma (saturation or intensity)** of □ □ □ □ secondary and tertiary mixes is a measure of their **purity or brightness**, which depends on the quality of the □ □ primary colors used to create them. (Most paint manufacturers produce multiple versions of each hue)

- Lightfastness** □ the grade of lightfastness is an indicator of the paint's □ □ **ability to resist fading** when exposed to light

- Undertone** □ the **bias of a color toward another color**, best seen □ □ □ □ when the color is brushed out thinly on a white surface (those colors with a **bias towards each other** will make the most **intense mixes**)

TRANSPARENCY VS. OPACITY

- Transparency** □ the degree to which a color allows light to pass □ □ □ □ through it and reflect back from the color beneath - used in glazing techniques □ □ (adding white to a color can reduce transparency!)

- Opacity** □ □ opposite of transparency, describes the degree to which light is prevented from passing through the color (aka. "**covering power**")

WARM VS. COLD COLOR

- Temperature** □ describes a color as "**warm**" (red, orange, yellow) □ □ or "**cool**" (green, blue, violet) - All colors have warm □ □ or cool variants, such as alizarin crimson (blue bias, □ □ "**cool**" red) or cadmium red (orange bias, "**warm**" red)