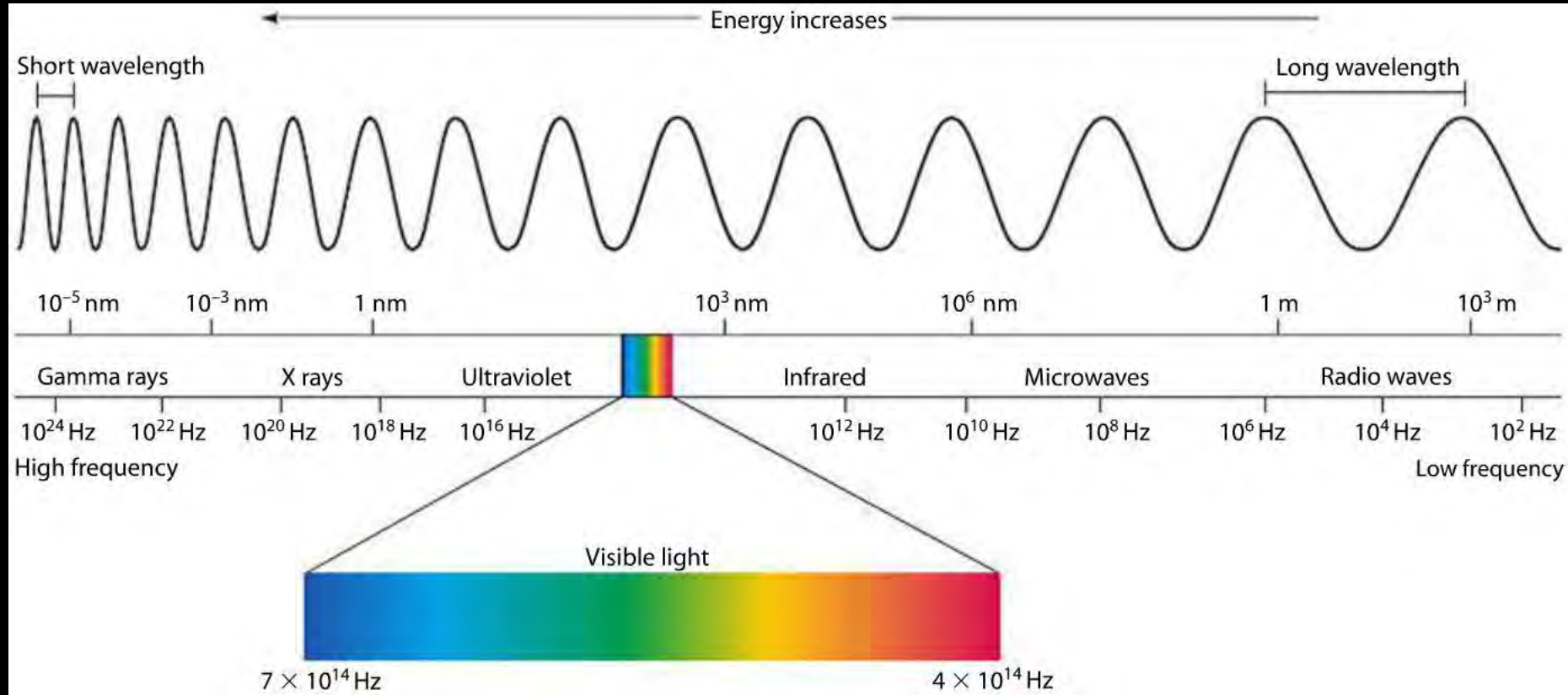


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Class 6: 6/24/21

Color I:

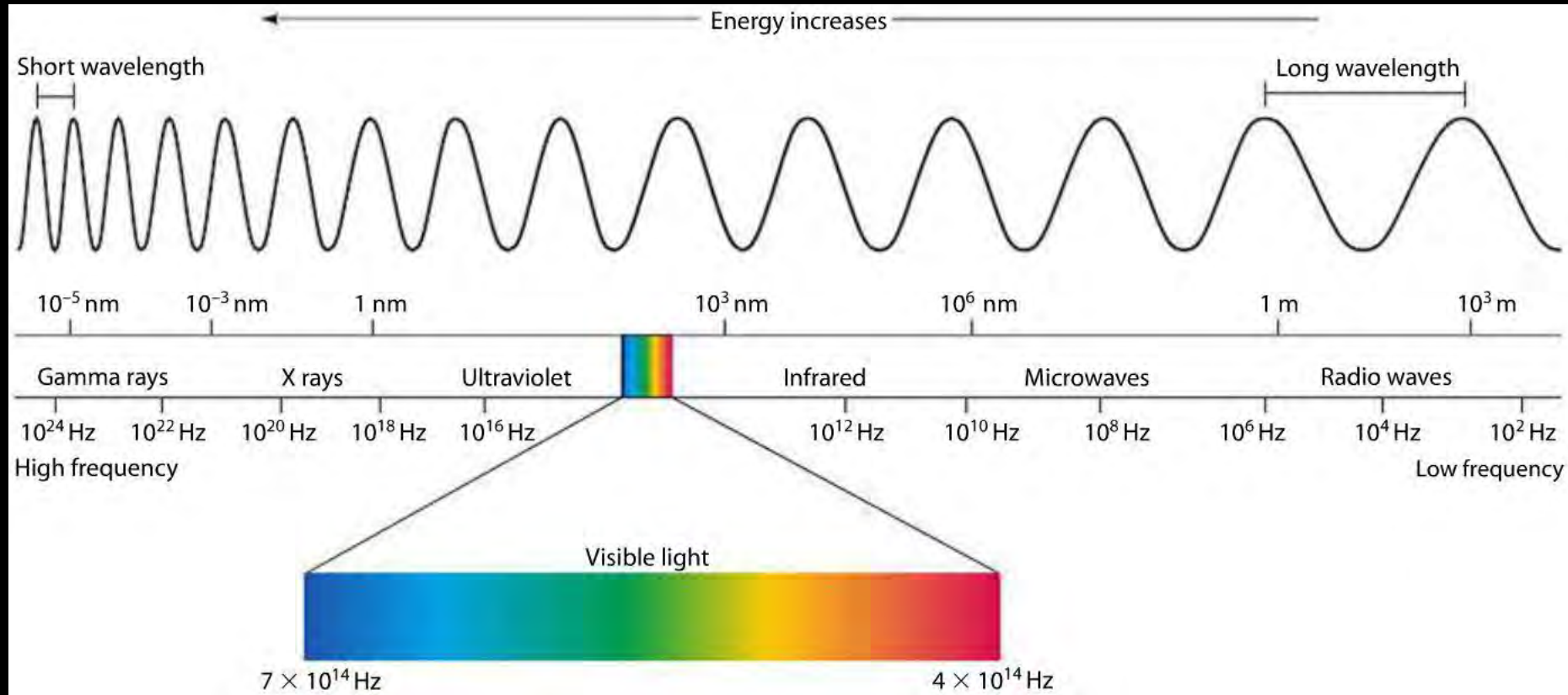
# *The Color of Light*

# The Color of Light



Light is the visible portion of the Electromagnetic Spectrum

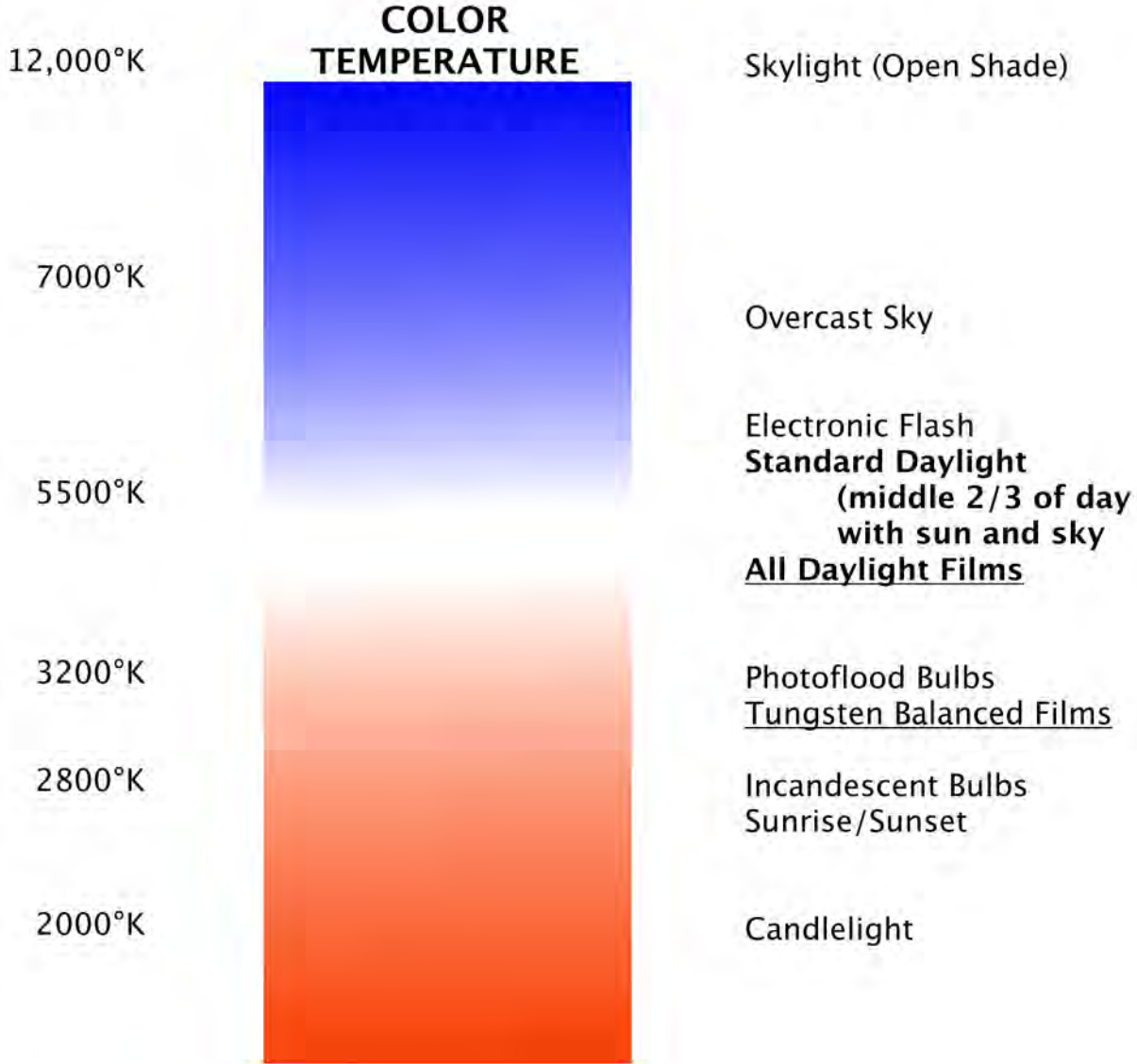
# The Color of Light



Light is the visible portion of the Electromagnetic Spectrum

When all of the colors of the visible spectrum are *mixed in relatively equal proportions*, that is **WHITE LIGHT**.

# COLOR TEMPERATURE



# Non-Continuous Spectrum Emitters (Non-White Light)



Sodium and Mercury Vapor Street lamps

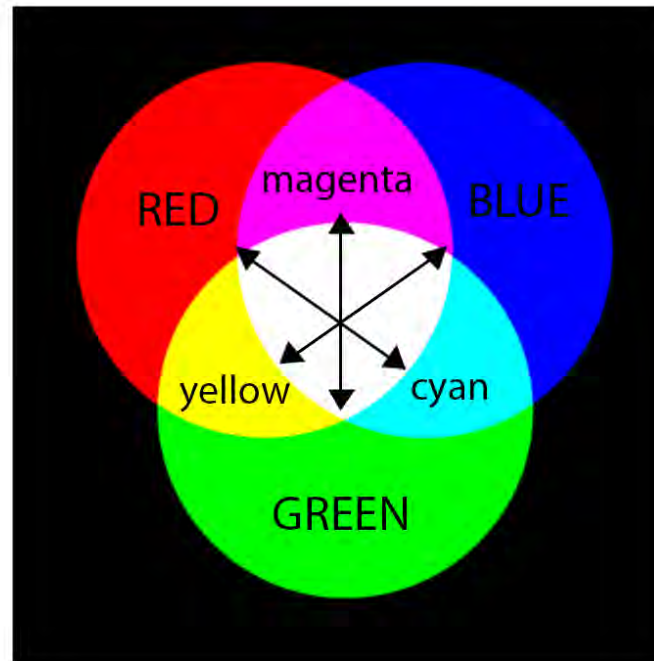


Green Fluorescents

Non-continuous spectrum emitters are NOT white light,  
as they are missing one or more wavelength(s) of the visible spectrum

# The Color Wheel of Light

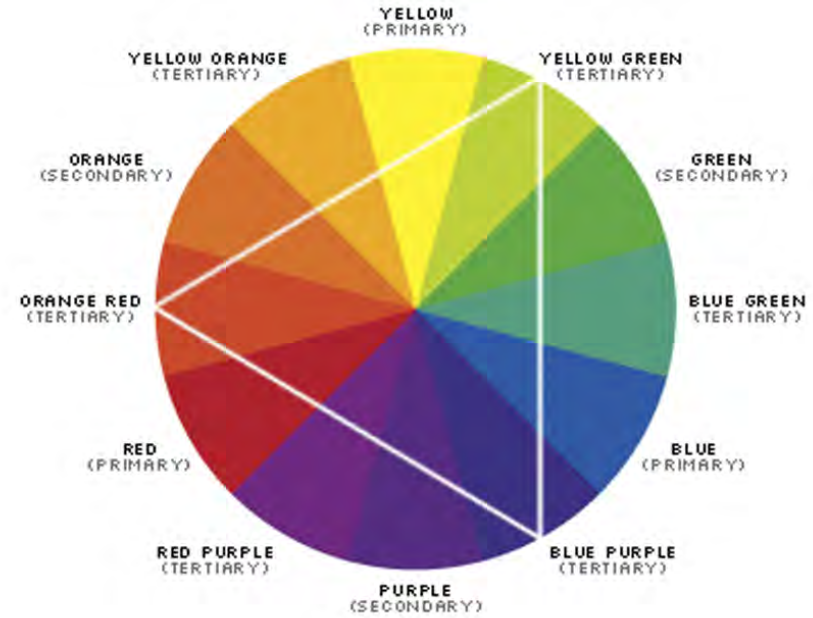
Each color here is pointing at its opposite, or complement.  
The circles--RED, GREEN, and BLUE---are the primary colors of light.  
The points of intersection show the combinations of two primary colors.  
All the colors of light combined together---as indicated in the center---make WHITE LIGHT.



# Light vs. Pigment



**LIGHT**



**PIGMENT**

## Color Temperature and Tint

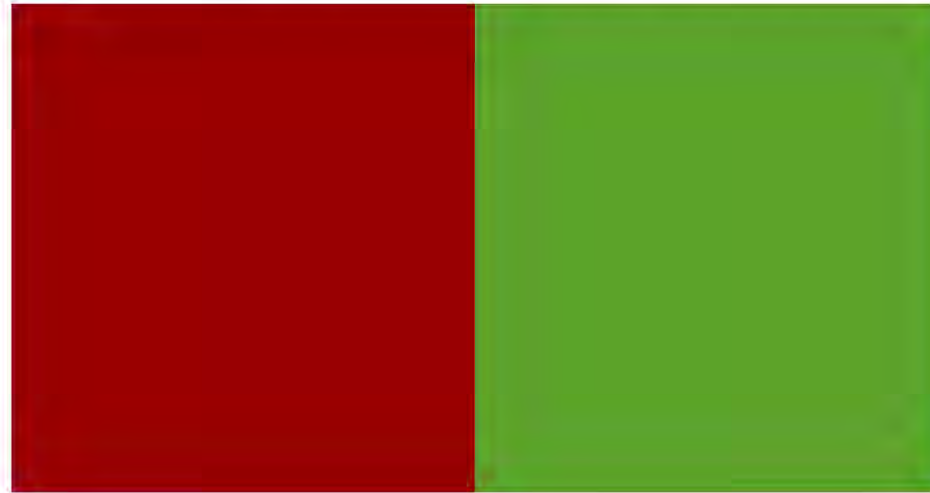


**LIGHT**

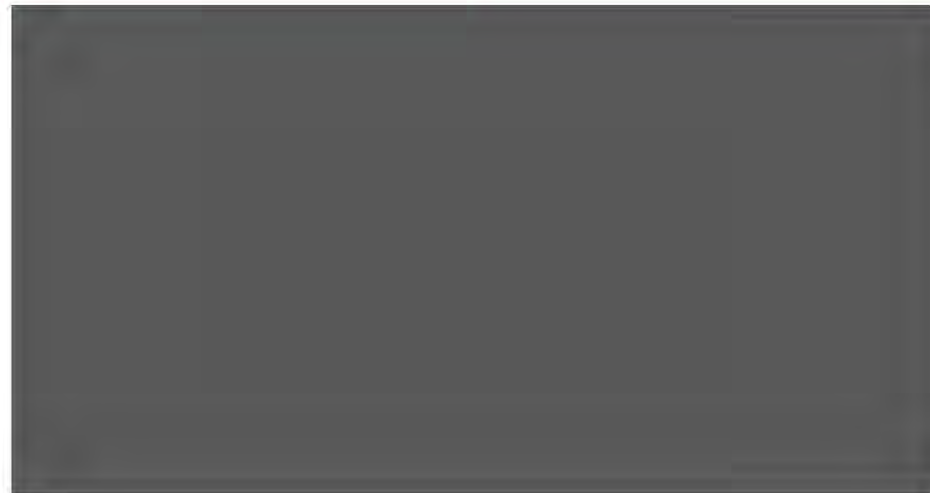




# Color Contrast vs. Tonal Contrast

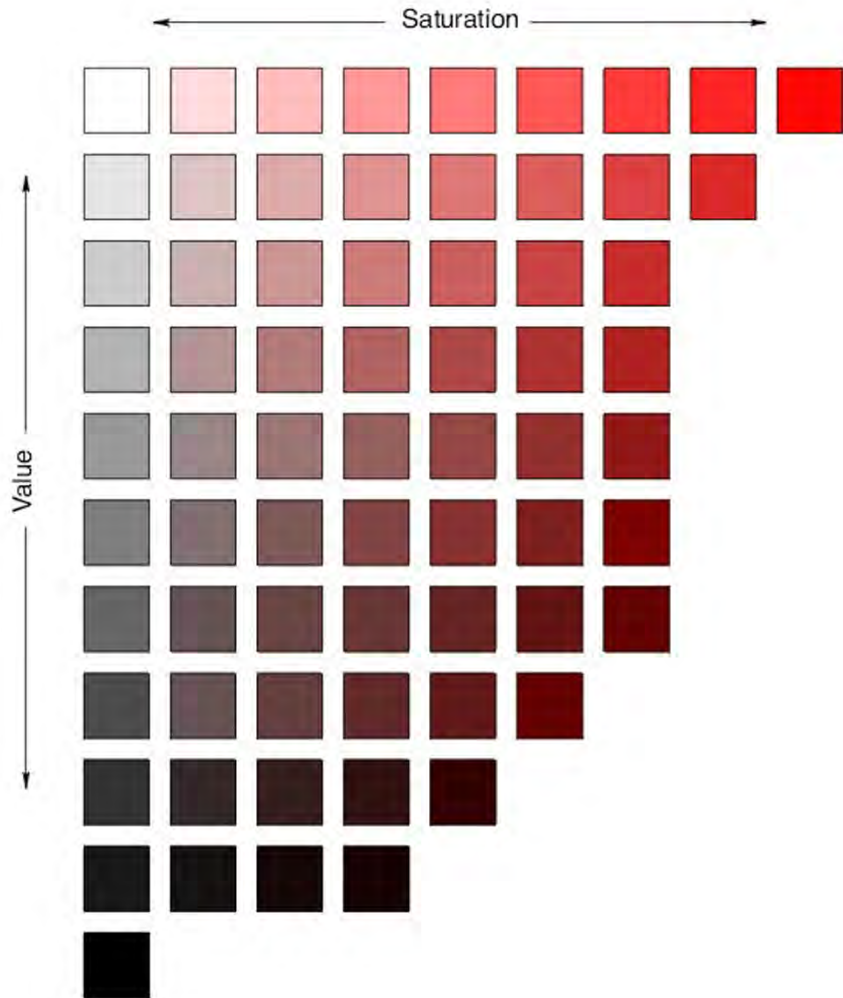


COLOR



GRAYSCALE

# HSL



## **H**UE

The name of the color

## **S**ATURATION

The purity of the color  
(NO saturation = B&W)

## **L**UMINANCE (**Value**)

The lightness or darkness of the color, on a scale from black to white  
(Think SONE SYSTEM, but in color)

# HSL (Hue, Saturation, Luminance in Lightroom)

The screenshot displays the Adobe Lightroom interface, specifically the HSL/Color panel. At the top, a histogram shows the distribution of colors in the image, with a peak in the blue and yellow regions. Below the histogram, the camera settings are listed: ISO 100, 50 mm, f/5.6, and 0.6 sec. A checkbox labeled "Original Photo" is visible. The panel is divided into sections: "Basic", "Tone Curve", "HSL/Color", and "Split Toning". The "HSL/Color" section is currently selected, and the "Saturation" tab is active. The sliders for Saturation are set to 0 for all colors: Red, Orange, Yellow, Green, Aqua, Blue, Purple, and Magenta.

Histogram ▼

ISO 100 50 mm f/5.6 0.6 sec

Original Photo

Basic ◀







Tone Curve ◀

HSL/Color ▼

	Hue	Saturation	Luminance	All
⊙ Saturation				
Red		0		0
Orange		0		0
Yellow		0		0
Green		0		0
Aqua		0		0
Blue		0		0
Purple		0		0
Magenta		0		0

Split Toning ◀

# PSYCHOLOGICAL IMPLICATIONS OF COLOR: (Euro-American Societies)

HUE	POSITIVE	NEGATIVE
	* <b>BLOOD</b> , passion, energy, eroticism	* <b>BLOOD</b> , anger, aggression
	* <b>HUMAN FLESH</b> , warmth, (Hearth fire), accessibility	* <b>HUMAN FLESH</b> , weakness, lack of discrimination
	<b>SUNSHINE</b> , energy, happiness	Overwhelming energy
	Life, nature, restfulness (Foliage, green forests)	Toxicity, Artificiality decay (fungus, mold)
	“Coolness” (elegance) spirituality, sky	“Coolness” (distance) sadness, depression (“blues”)
	Fantasy, playfulness, dream states (also royalty)	Madness, Nightmares