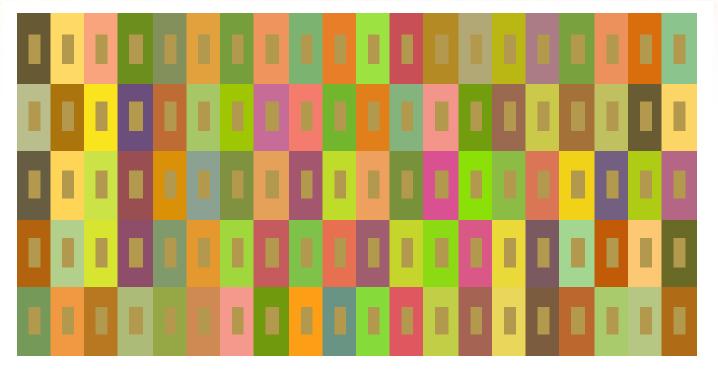
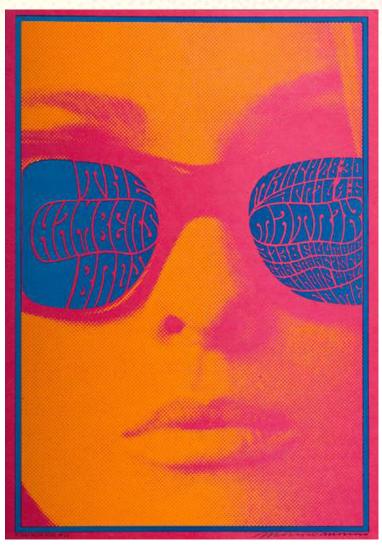
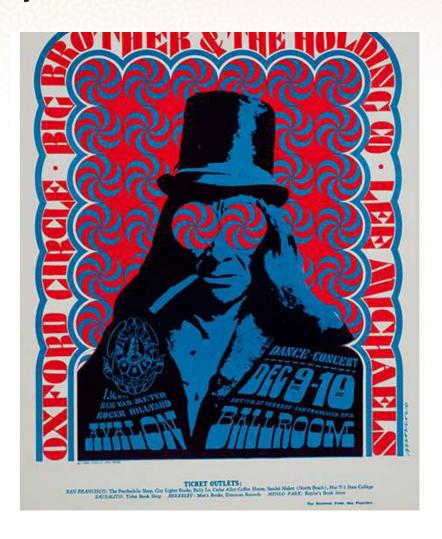
# **Color Interaction**



### What is color interaction?

- the illusion that occurs within our perception
- this is a constant we rarely see color in isolation





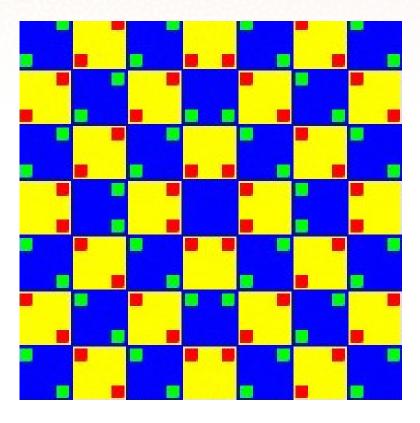
#### **Simultaneous Contrast**

When colors interact, the appearance

changes

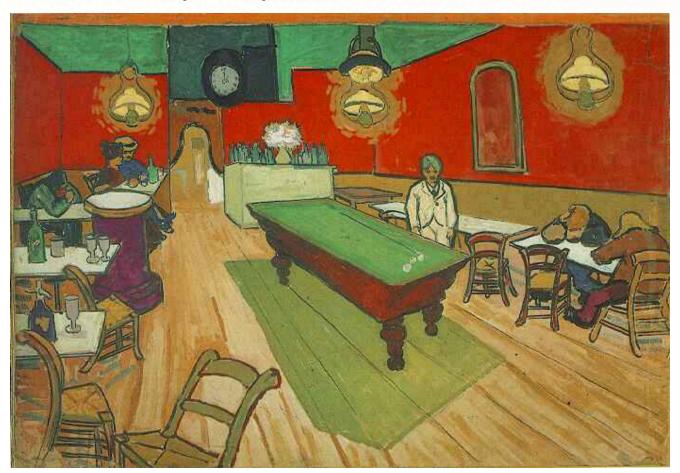
adjacent colors

• surfaces cause interaction



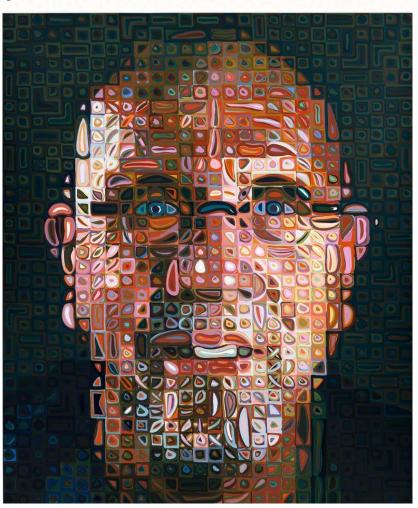
### **After Image (Successive Contrast)**

- Occurs when the color sensors in our eye fatigue
  - forces eye to revert to compliment
- Sometimes it works in reverse (contrast reversal)
- Can alter our perception of neutrals



## **3 Principles of Color Interaction**

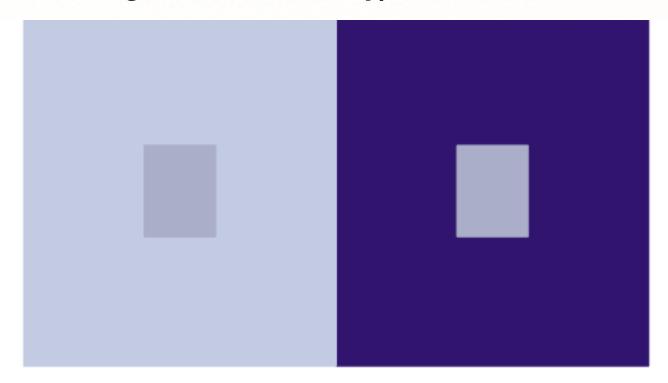
- 1. Light/Dark Value Contrast
- 2. Complimentary Reaction or Effect
- 3. Subtraction



#### **Light/Dark Value Contrast**

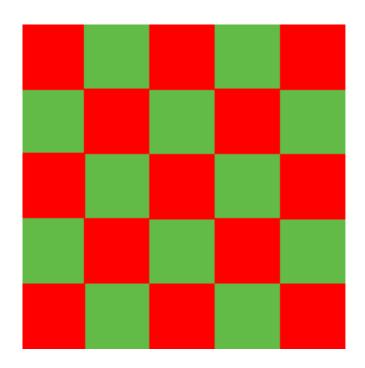
Color will appear lighter on a dark background

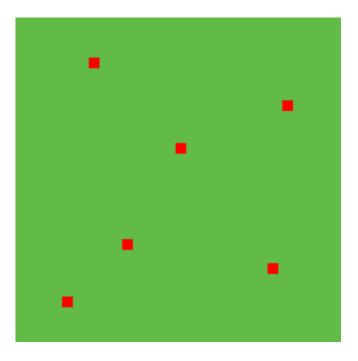
called comparitive relationship
 So that means what on a light background?
 (Contrasting Value Relationship)



### **Complimentary Reaction or Effect**

- Our eye seeks compliments even more when color is intense
- Compliment Effect causes color to bend toward compliment (green surrounded by red seems more green)

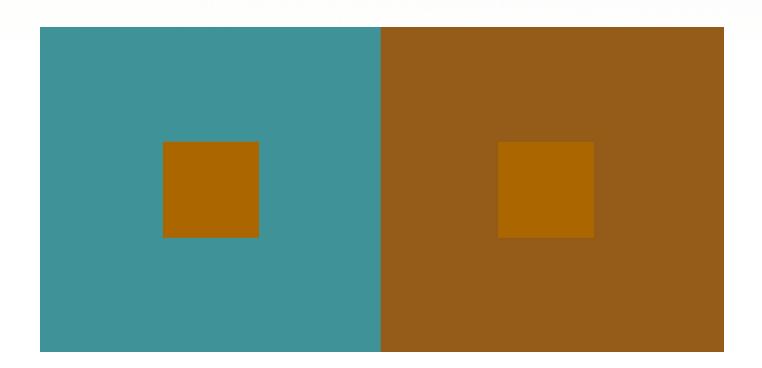




#### **Subtraction**

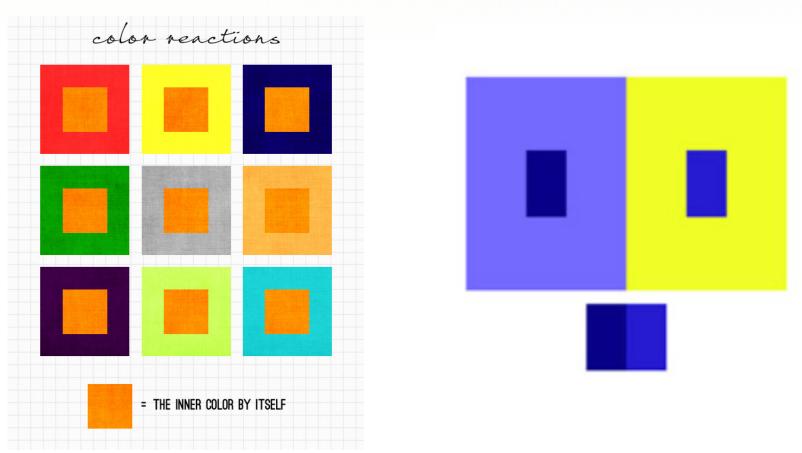
A strong dominant color will subtract itself from a smaller or less dominant color.

**Example:** YO on an orange background will seem less orange than it would against a neutral background



#### **Subtraction – continued**

- Careful manipulation of surroundings can alter the base hue
- Two different colors can appear the same based on the effect of surrounding color

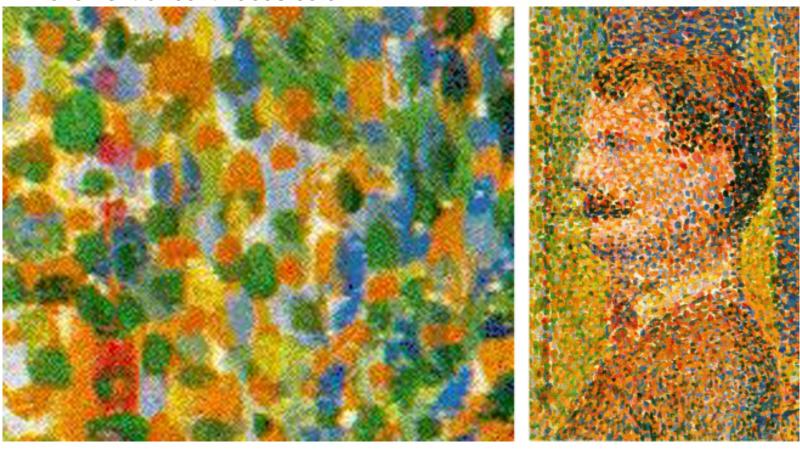


### **Optical Mixtures**

Types of color interactions that cause our eye to create a third color when two colors are in particular relationships.

• Two or more colors blend to create a third

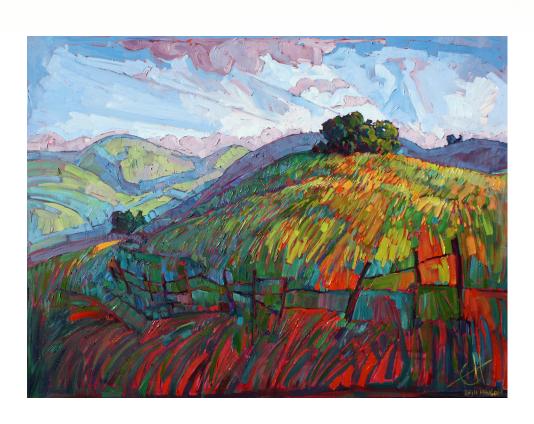
**Persistence of vision** – we blend images together to create the illusion of movement or continuous color



#### **Broken Color**

#### Static juxtaposition of 2 colors that produce a third

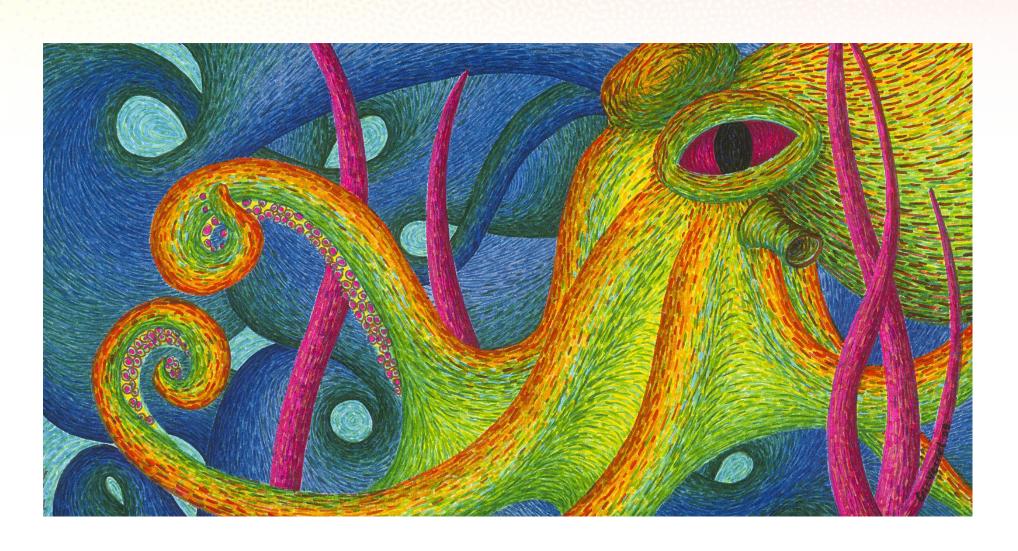
- Impressioninsts felt small marks of adjacent color created more vibrant sense of light than flat color or continuous tone
- Most famous example of broken color = Pointilism





# Optical Mixtures of Pigmented Color Sympathetic Analogous Mixture

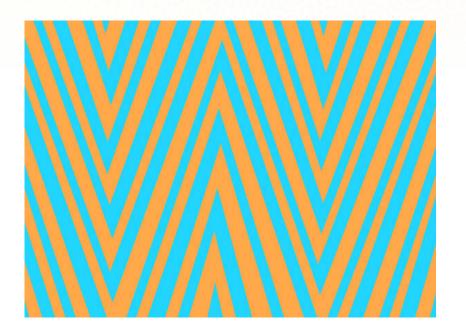
Color similarity allows for easy visual blending



# Optical Mixtures of Pigmented Color Complimentary Vibration

Compliments in an optical mixture vibrate

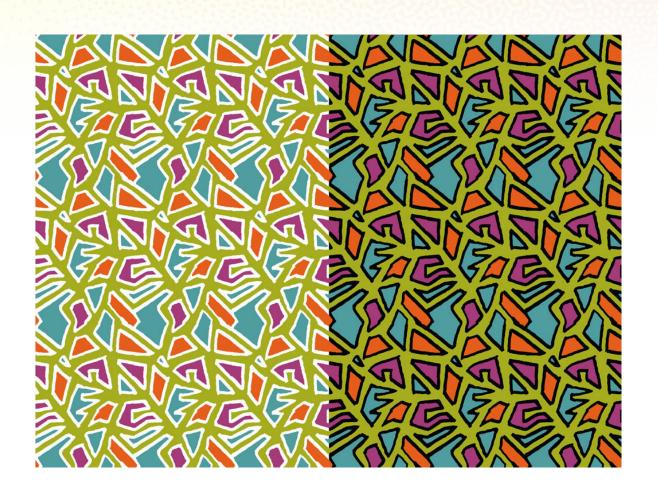
as if repelling each other





# Optical Mixtures of Pigmented Color Bezold Effect

A single color change can completely change a pattern

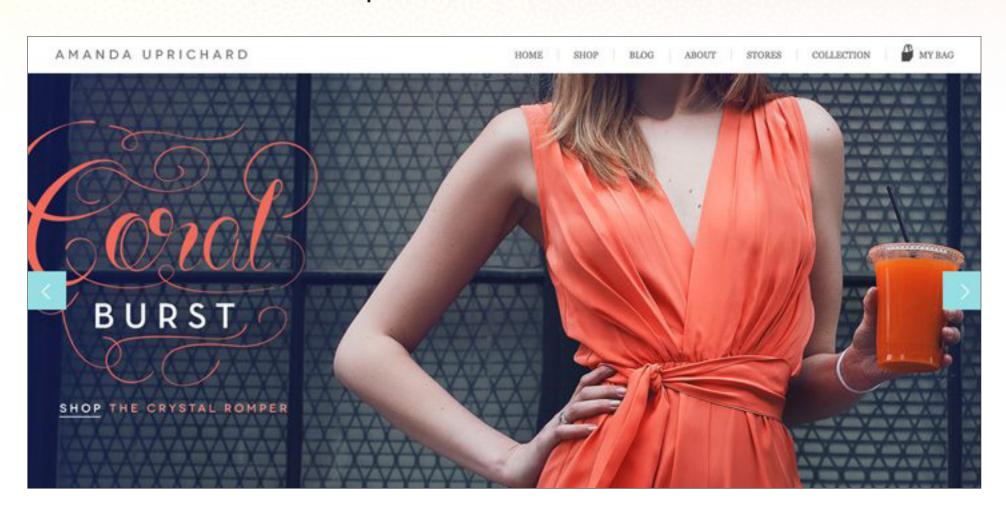






# Optical Mixtures of Pigmented Color Color Dominance

when a single hue, value, saturation is the most dominant in a composition



# Optical Mixtures of Pigmented Color Color Transparency

Actual Color Transparency – use or percetpion of transparent materials

Simulated Transparency – Color interactions that create the illusion of actual transparency

Watercolor is the only transparent medium



