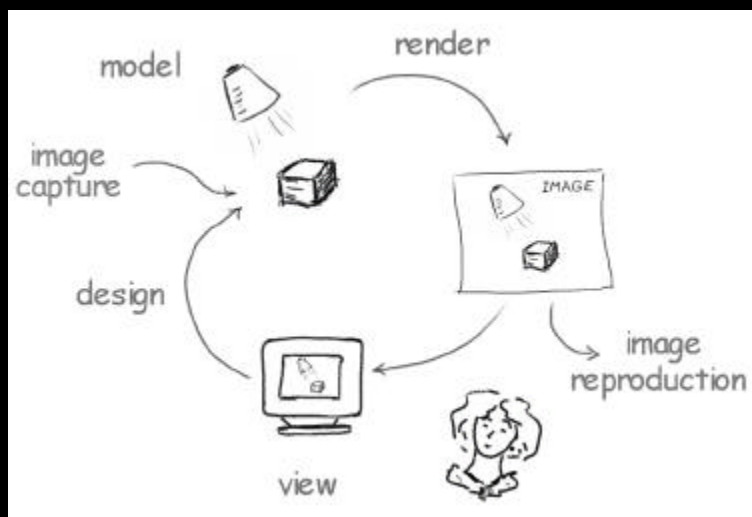
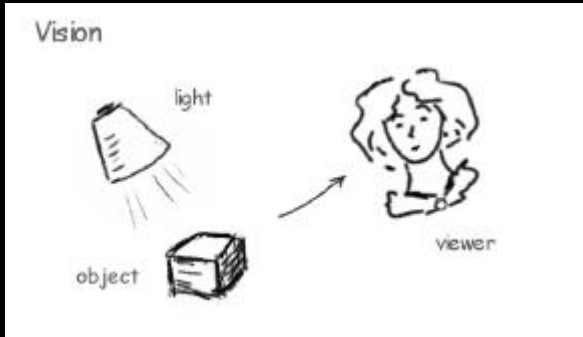


# A Survey of Color for Computer Graphics

Maureen Stone  
StoneSoup Consulting

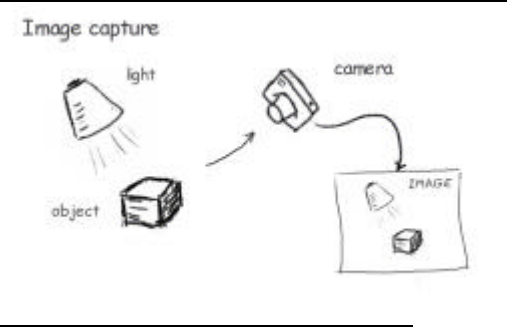
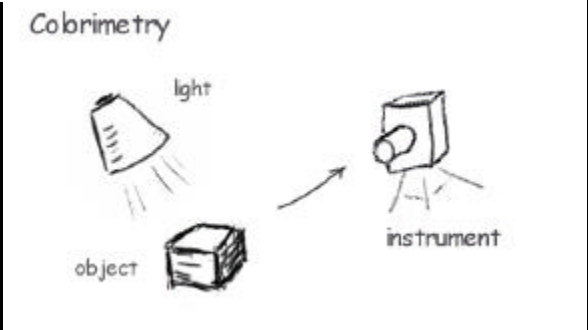
## Color in Computer Graphics





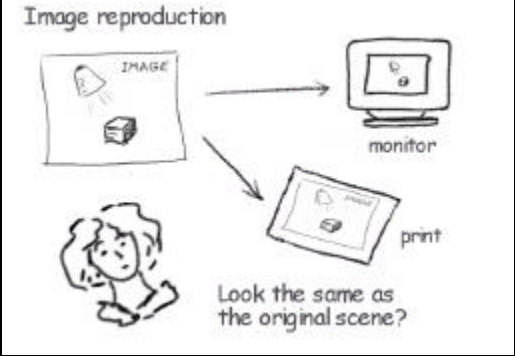
**Color Vision**  
How we see color

**Colorimetry**  
How to measure color



**Image Capture**  
2D "picture" of scene  
Array of pixels

**Image Reproduction**  
Display picture  
Match original scene  
Reproductions match too



# Models and Systems

## Rendering and representation

- Physical vs. designed
- Spectral vs. RGB

## Color selection and design

- Models and tools
- Visual design
- Information design

To RGB or not RGB?  
That is the question

# Overview

## Color vision and appearance

### Color media

- Color production & reproduction
- Color management systems

### Computer graphics

- Representations
- Systems issues

# Topics for later

## Color selection

- Interactive tools
- Color names

## Color design

- Visual design
- Information design