A Survey of Color for Computer Graphics

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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

Overview

Color vision and appearance
Color media
- Color production & reproduction
- Color management systems

Computer graphics
- Representations
- Systems issues

To RGB or not RGB?
That is the question
Topics for later

Color selection
  - Interactive tools
  - Color names

Color design
  - Visual design
  - Information design