

Lecture 13: Color – Review Questions

- Why do we use just three colors (red, green, blue) for display purposes?
- What are color matching functions and how are they used to determine rgb values to match a particular color spectrum?
- How can these color matching functions be derived through experiments with human observers? (Describe the experimental protocol.)
- Metamers are two colors that have different spectral distributions but are perceived as the same color. Explain how this situation can happen.
- What is the difference between a linear encoding of rgb intensity values and a perceptually based encoding? Which do we typically work with in the framebuffer and why?
- What is the CIE color space?