Colour Perception and Design Notes

**Slide 6**

In V1, the raw signals from the cones in the retina are transformed. Some neurons compute differences between red- and green-sensitive cone signals. Some neurons compute the sum of red- and green-sensitive cones. Still others compute yellow-blue differences. The result is three kinds of colour signals that are called colour-opponent channels.

**Slide 7**

The two grey bars are exactly the same shade, but because of simultaneous lightness contrast the bar on the left seems darker than the one on the right.

In the right-hand figure, the two yellowish bars have the same hue, but because of simultaneous chromatic contrast the one on the left seems more yellow and the one on the right greener.