

Surface color perception and equivalent illumination models

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Vision provides information about the properties and identity of objects. The ease with which we perceive object properties belies the difficulty of the underlying information-processing task. In the case of object color, retinal information about object reflectance is confounded with information about the illumination as well as about the object's shape and pose. There is no obvious rule that allows transformation of the retinal image to a color representation that depends primarily on object surface reflectance. Under many circumstances, however, object color appearance is remarkably stable across scenes in which the object is viewed. Here, we review a line of experiments and theory that aim to understand how the visual system stabilizes object color appearance. Our emphasis is on models derived from explicit analysis of the computational problem of estimating the physical properties of illuminants and surfaces from the retinal image, and experiments that test these models. We argue that this approach has considerable promise for allowing generalization from simplified laboratory experiments to richer scenes that more closely approximate natural viewing. We discuss the relation between the work we review and other theoretical approaches available in the literature.

Keywords: object surface perception, surface color perception, surface lightness perception, equivalent illumination model, color constancy, lightness constancy, computational models

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Introduction

Vision provides information about the properties and identity of objects—a glance at Figure 1, for example, leads effortlessly to the impression of a blue mug. The ease with which we make this judgment, however, belies the difficulty of the information-processing task that accomplishes it. In the case of the mug's color, examination of the image pixel by pixel reveals enormous variation in the spectral properties of the reflected light across the mug's surface. This variation occurs because the reflected light depends not only on the intrinsic reflectance of the mug but also on the geometric properties of the illumination, the object's shape, and the viewpoint of the observer. Because of these factors, there is no obvious rule that allows transformation of the left and right eye retinal images of an object to a stable perceptual representation of its surface reflectance properties. More generally, object recognition is difficult precisely because the same object or class of objects corresponds to a vast number of images. Processing the retinal images to produce representations that are *invariant* to object-extrinsic variation is a fundamental task of visual information processing (DiCarlo & Cox, 2007; Rust & Stocker, 2010; Ultman, 1989).

The same considerations that make object perception a difficult information-processing problem also make it

difficult to study. There are simply too many image configurations to allow direct measurement of what we see for every possible image. To make progress, it is necessary to choose a restricted domain that enables laboratory study, but to formulate theories that can be readily generalized to more complex domains. In this paper, we review work from our laboratories that illustrates how computational models clarify the perception of object surface properties.

The rest of this review is organized as follows. First, we introduce a simplified description of a subset of possible scenes, which we refer to as *flat-matte-diffuse* conditions, and specify the computational problem of recovering descriptions of illuminant and surface properties from photoreceptor responses for these scenes. Although such recovery cannot be performed with complete accuracy, we show how the structure of the computational analysis leads to a class of candidate models for human performance. We call these *equivalent illumination models* (EIMs). We show that such models provide a compact description of how changing the spectrum of the illumination affects perceived color appearance for human observers.

We then turn to more complex viewing conditions, ones that include variations in depth, and show that the same principles that allowed model development for flat-matte-diffuse conditions also allow generation of models for this case. Indeed, the major theme of this article is that the principles underlying equivalent illumination models provide

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remaining areas if the edge information is consistent with that from a uniform surface These ideas have been put forth to explain striking visual illusions such as the Cornsweet Illusion neon color spreading and the watercolor effect All of these illusions exist in both color and brightness domains Thus even though it may not be intuitively obvious edges play a key role in our final percept of what color we see when viewing an object It is said that we perceptually fill in color from edges similarly to how our visual system fills in the blind spot in our eye Of course it should be noted that spectral information may also be available from within the regions away from the edges and this information may also play an important role in the perception of surface color The theory that edge information alone determines color and that internal surface information is discarded implies that there is no difference in neural computation of physical surface color and edge induced color spreading Initial studies of this question suggest that illusory colors and actual surface colors may in fact show important differences One goal of the present study is to employ both psychophysics and electrophysiology to determine under what conditions illusory colors and surface colors are differentiated to provide insights into the fundamental processes involved in surface color perception If filling in is indeed important for surface color perception then how might color filling in occur One possibility is that information from the edges might be propagated in a feedforward manner that passively spreads until another edge or contradicting information is encountered Another possibility is that edge information could be relayed to higher order form centers and then surface colors reconstructed from feedback from those higher regions The question of feed forward vs feedback mechanisms of perception has been debated by scientists since at least the time of Hering and Helmholtz Hering favoring a bottom up interpretation while Helmholtz argued that our visual system performs unconscious inferences It is currently appreciated that a relatively sparse sampling of visual information from the world results in a rich visual percept supporting the idea that much of our vision is actually reconstructed from past experience Another goal of the present study is to apply electrophysiological methods hdEEG to determine the relative importance of feed forward and feedback mechanisms in surface color perception This work expands on previous research which developed a method of measuring the watercolor illusion with single channel VEP This dissertation provides a literature review of the background and significance of the problems presents preliminary data outlines the series of proposed experiments and lastly the results of the proposed experiments

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