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Cover picture: There are many schemes for ordering colors, but one that organizes them along the dimensions of redness-greenness, yellowness-blueness and lightness-darkness seems to be closely tied to the underlying physiology of color vision. The dimensions of color can be represented in a space that is conveniently viewed as a sphere. The 3 axes of the space intersect at a neutral (grey) point that lies at the center of the sphere. The light-dark axis passes vertically through the neutral point, and the orthogonal red-green and yellow-blue axes pass horizontally through it, defining a plane in which color varies without change in lightness. Within that plane, hue is constant along any radius but becomes more saturated with increasing distance from the neutral point. The series of equatorial views shows the progression of colors round the surface of the sphere, from red (top left) through blue, green and yellow, returning to red (bottom right). Figure made by P. William Haake, using a Pixar image computer, and provided by the authors, P. Lennie, J. Krauskopf, and G. Sclar, from their paper (pp. 649–669).

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