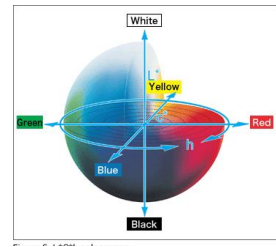
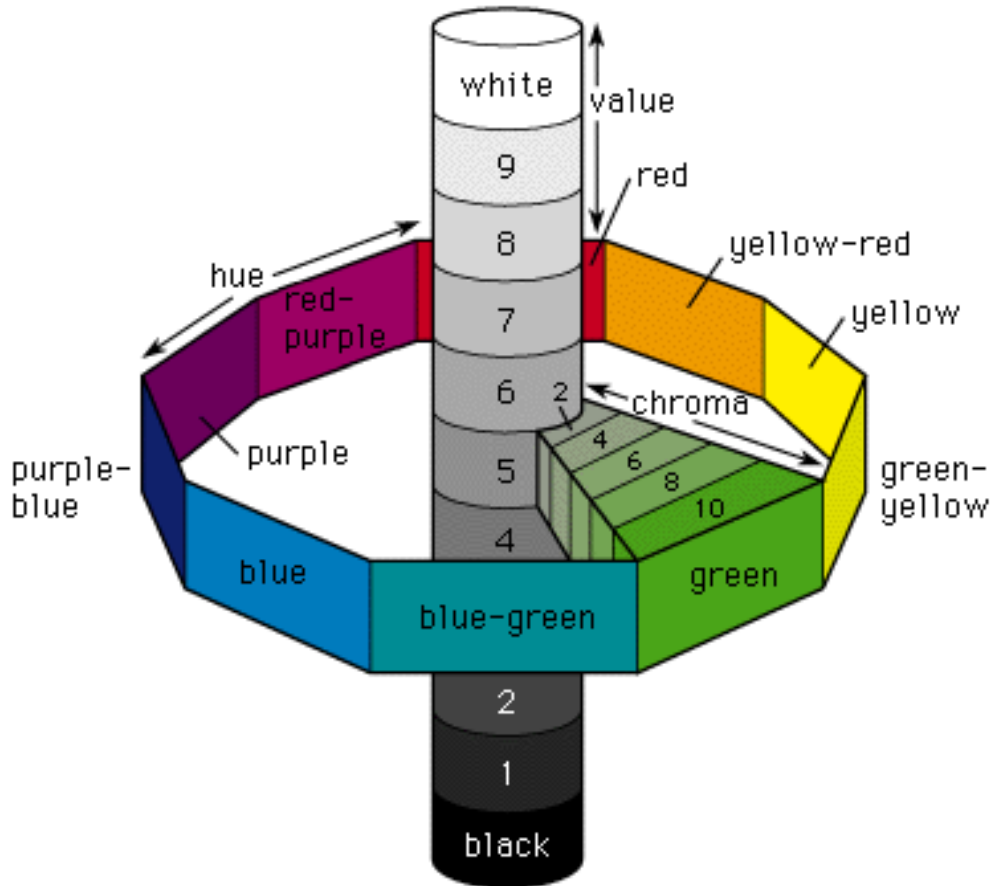




# prime colorants



[www.primecolorants.com](http://www.primecolorants.com)



$$\text{CIE } L^*a^*b^* = DE = \text{CIE } L^*C^*H^*$$

$L^*$  - the lightness coordinate.

$a^*$  - the red/green coordinate, with  $+a^*$  indicating red, and  $-a^*$  indicating green.

$b^*$  - the yellow/blue coordinate, with  $+b^*$  indicating yellow, and  $-b^*$  indicating blue.

$D L^*$  being the lightness difference.  
 $D a^*$  being the red/green difference.  
 $D b^*$  being the yellow/blue difference

$$\Delta E^* = \left[ \Delta L^{*2} + \Delta a^{*2} + \Delta b^{*2} \right]^{1/2}$$



$L^*$  - the lightness coordinate (the same as in  $L^*a^*b^*$ ).

$C^*$  - the chroma coordinate, the perpendicular distance from the lightness axis.

$h^*$  - the hue angle, expressed in degrees, with 00 being a location on the  $+a^*$  axis, continuing to 900 for the  $+b^*$  axis, 1800 for  $-a^*$ , 2700 for  $-b^*$ , and back to 3600 = 00.

$$\Delta E^* = \left[ \Delta L^{*2} + \Delta C^{*2} + \Delta H^{*2} \right]^{1/2}$$