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$$R' = R/255$$

$$G' = G/255$$

$$B' = B/255$$

$$Cmax = \max(R', G', B')$$

$$Cmin = \min(R', G', B')$$

$$\Delta = Cmax - Cmin$$

dacă dă <0 mai adunăm 6

Hue calculation:

$$H = \begin{cases} 0^\circ & , \Delta = 0 \\ 60^\circ \times \left(\frac{G'-B'}{\Delta} \bmod 6\right) & , C_{max} = R' \\ 60^\circ \times \left(\frac{B'-R'}{\Delta} + 2\right) & , C_{max} = G' \\ 60^\circ \times \left(\frac{R'-G'}{\Delta} + 4\right) & , C_{max} = B' \end{cases}$$

Saturation calculation:

$$S = \begin{cases} 0 & , \Delta = 0 \\ \frac{\Delta}{1-\lvert 2L-1 \rvert} & , \Delta <> 0 \end{cases}$$

Lightness calculation:

$$L = (Cmax + Cmin) / 2$$

R = 30
G = 80
B = 200

H = 148

R = 123
G = 200
B = 100

H = 71

R 244
G 80
B 30

→ H = 9