

$\log(Y/\Delta Y)$

CIE Y contrast

$0,1C_{r,LABJND}$ and $C_{r,CIEDE2000}$

$C_r = Y/\Delta Y$

Y contrast according to CIEDE2000

$$\begin{aligned}\log(Y/dY) &= \log[(1/3) (116/Y_n)] + (1/3) \log(Y/Y_n) \\ &= \log[(1/3) (116/(Y_n^{1/3}))] + (1/3) \log(Y)\end{aligned}$$

