

$\log[(Y/\Delta Y) / (Y/\Delta Y)_u]$

IECsRGB-Y contrast

normalized to $(Y/\Delta Y)_u$

$C_r/C_{ru} = (Y/\Delta Y)/(Y/\Delta Y)_u$

$100 L^* = s(Y/Y_n)^n - d \quad (Y_n=100, Y_u=18, s=100, 0, n=1/2, 4, d=0, 0) \quad [1a]$

$L^* = r(Y/Y_u)^n - d \quad (r = s(Y_u/Y_n)^n = 48, 94, L^*_u = r - d = 48, 9) \quad [1b]$

$Y/dY = Y / \{ [(Y_n / (n s))] (Y / Y_n)^{1-n} \} \quad [4c]$

$(Y/Y)_u = Y_u / \{ [(Y_n / (n s))] (Y_u / Y_n)^{1-n} \} \quad [4d]$

$10 (Y/dY) / (Y/dY)_u = (Y/Y_u)^n \quad [4e]$

$\log [(Y/dY) / (Y/dY)_u] = (n) \log(Y/Y_u) \quad [4f]$

