

log (Y/ΔY)

LABJNDu4

Normfarbwertkontrast

$Y_{nc} = L^*_{wRGBnc} = 100, 52, 87, 31$

$$C_r = (Y/\Delta Y)$$

4
10000

$$L^*_{LABJNDu4} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$L^*_{LABJNDu4} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

$$Y/dY = Y/[A_{0n}(A_{1n} + A_{2n}Y)] = x Y_u/[A_{0n}(A_{1n} + A_{2u}x)]$$

3
1000

$$L^*_u = 332, dY_u = 0,16, Y_u/dY_u = 107$$

$$\log(Y/dY) = 2,03, m_u = 0,05$$

Anwendungs-
bereich

1
-2 0,1 1 10 100
x_N=0,2 x_u=1 x_w=5 Y
log(Y)