

log (Y/ΔY)

LABJNDu3

Normfarbwertkontrast

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

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

4
10000

$$L^*_{LABJNDu3} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$L^*_{LABJNDu3} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

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

3
1000

$$(Y/dY)_{90} = 249,21, A_{0n} = 1,0, A_{2u} = 0,0699, c_x = 0,67$$

$$(Y/dY)_{18} = 221,29, A_{1n} = 0,011, A_{2n} = 0,0038$$

$$L^*_u (\pm 7,44)_{3,0} = 40,68, Y_u/dY_u = 224 \pm 0,08$$

2
100

$$\log(Y/dY) = 2,34, m_u = 0,13$$

Anwendungsbereich

1

0,1

1

10

$x_u = 1$

100

y

-2

-1

0

$x_N = 0,2$

1

$x_W = 5$

2

log(Y)