

log (Y/ΔY)

LABJNDu1

Normfarbwertkontrast

$Y_{nc} = Y_{wRGBnc} = 100, 21, 72, 7$

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

4
10000

$$l^*_{LABJNDu1} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$l^*_{LABJNDu1} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

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

3
1000

$$(Y/dY)_{90} = 166,97, A_{0n} = 1,0, A_{2u} = 0,1044, c_x = 1,00$$

$$(Y/dY)_{18} = 148,27, A_{1n} = 0,017, A_{2n} = 0,0058$$

$$(Y/dY)_{3,6} = 95,03, Y_u = 18, dY_u = 0,12$$

$$l^*_u = 498, dY_u = 0,12, Y_u/dY_u = 148$$

2
100

$$\log(Y/dY) = 2,17, m_u = 0,13$$

--- Anwendungs-
bereich

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