

$\log(Y/\Delta Y)$

LABJNDu4

Normfarbwertkontrast

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

$C_r = (Y/\Delta Y)$

4 10000

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

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

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

3 1000

$I_u^* = 1780, dY_u = 0,03, Y_u/dY_u = 529$

$\log(Y/dY) = 2,72, m_u = 0,13$

2 100

$(Y/dY)_{90} = 595,34, A_{0n} = 0,6666, A_{2n} = 0,0429, x_N = 0,42$

$(Y/dY)_{18} = 529,53, A_{1n} = 0,007, A_{2n} = 0,0024$

$(Y/dY)_{3,6} = 339,41, Y_u = 18, dY_u = 0,03$

Anwendungsbereich

1

-2

-1

0

$x_N = 0,2$

1

10

$x_u = 1$

$x_W = 5$

100

Y

2

$\log(Y)$