

log (Y/ΔY)

LABJNDu9

tristimulus value contrast

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

$C_r = (Y/\Delta Y)$

4 10000

$$t^*_{LABJNDu9} = \ln(A_{1n} + A_{2n}Y) / (A_{2n}A_{0n}) \quad (Y_{nc}/100 < Y \leq Y_{nc})$$

$$t^*_{LABJNDu9} = \ln(A_{1n} + A_{2u}x) / (A_{2u}A_{0n}) \quad (x = Y/Y_u)$$

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

3 1000

$$(Y/dY)_{90} = 113,39, A_{0n} = 1,5, A_{2u} = 0,1044, c_x = 0,42$$

$$(Y/dY)_{18} = 107,58, A_{1n} = 0,007, A_{2n} = 0,0058$$

$$(Y/dY)_{3,6} = 85,65, Y_u = 18, dY_u = 0,16$$

2 100

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

$$\log(Y/dY) = 2,03, m_u = 0,06$$

application
range

1

0,1

1

10

100

Y

$x_u = 1$

$x_w = 5$

$x_n = 0,2$

log(Y)