

$\log(Y/\Delta Y)$

CIELABn4

tristimulus value contrast

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

$C_r = (Y/\Delta Y)$

2 100

$L^*_{CIELABn4} = 87(Y/Y_n)^{1/1,5} + 13 \quad (Y_n = 100, Y_{nc}/100 < Y \leq Y_{nc})$

$\log(Y/dY) = -\log[1,5(Y_u/86)] + (1/1,5) \log(Y/Y_u)$

$= -(1/1,5) \log[1,5(Y_u/86)] + (1/1,5) \log(Y)$

1 10

$L^*_u = 41, dY_u = 5,40, Y_u/dY_u = 3$

$\log(Y/dY) = 0,52, m_u = 0,66$

0 1

$(Y/dY)_{90} = 9,72, \gamma = 1,5, 1/\gamma = 1/1,5 = 0,66$

$(Y/dY)_{18} = 3,32, S_n = 86,98, D_n = 13,01$

$(Y/dY)_{3,6} = 1,1, Y_n = 100, dY_n = 5,40$

application
range

0,1

1

10

$Y_u = 18$

100 Y

-1

0

$Y_N = 3,6$

$Y_W = 90$

2 $\log(Y)$