

$\log(Y/\Delta Y)$

CIELABn3

tristimulus value contrast

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

$C_r = (Y/\Delta Y)$

2 100

$L^*_{CIELABn3} = 100(Y/Y_u)^{1/2,0} + 1 \quad (Y_u = 100, Y_{nc}/100 < Y \leq Y_{nc})$

$\log(Y/dY) = -\log[2,0(Y_u/99)] + (1/2,0) \log(Y/Y_u)$

$= -(1/2,0) \log[2,0(Y_u/99)] + (1/2,0) \log(Y)$

1 10

$L^*_u = 43, dY_u = 4,75, Y_u/dY_u = 3$

$\log(Y/dY) = 0,57, m_u = 0,50$

0 1

$(Y/dY)_{90} = 8,47, \gamma = 2,0, 1/\gamma = 1/2,0 = 0,50$

$(Y/dY)_{18} = 3,78, S_n = 99,21, D_n = 0,78$

$(Y/dY)_{3,6} = 1,69, Y_n = 100, dY_n = 4,75$

application range

0,1

1

10

18

100

$Y_u = 18$

100

$Y$

-1

0

1

10

18

100

$Y_N = 3,6$

1

$Y_W = 90$

2

$\log(Y)$