

$\log(Y/\Delta Y)$

CIELABu1

tristimulus value contrast

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

$C_r = (Y/\Delta Y)$

2 100

$L^*_{CIELABu1} = 66(Y/Y_u)^{1/3,0} - 16 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$

$\log(Y/dY) = -\log[3,0(Y_u/65)] + (1/3,0) \log(Y/Y_u)$

$= -(1/3,0) \log[3,0(Y_u/65)] + (1/3,0) \log(Y)$

1 10

$L^*_u = 50, dY_u = 4,58, Y_u/dY_u = 3$

$\log(Y/dY) = 0,59, m_u = 0,33$

0 1

$(Y/dY)_{90} = 6,71, \gamma = 3,0, 1/\gamma = 1/3,0 = 0,33$

$(Y/dY)_{18} = 3,92, S_n = 65,49, D_n = -15,49$

$(Y/dY)_{3,6} = 2,30, Y_u = 18, dY_u = 4,58$

application
range

0,1

1

10

100

$Y_u = 18$

Y

-1

0

1

2

$Y_N = 3,6$

$Y_W = 90$

$\log(Y)$