

$\log(Y/\Delta Y)$

CIELABu4

tristimulus value contrast

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

$C_r = (Y/\Delta Y)$

2 100

$L^*_{CIELABu4} = 37(Y/Y_u)^{1/1,5} + 13 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$

$\log(Y/dY) = -\log[1,5(Y_u/36)] + (1/1,5) \log(Y/Y_u)$
 $= -(1/1,5) \log[1,5(Y_u/36)] + (1/1,5) \log(Y)$

1 10

$L^*_u = 50, dY_u = 4,05, Y_u/dY_u = 4$

$\log(Y/dY) = 0,64, m_u = 0,66$

0 1

$(Y/dY)_{90} = 12,97, \gamma = 1,5, 1/\gamma = 1/1,5 = 0,66$

$(Y/dY)_{18} = 4,43, D_n = 36,98, D_n = 13,01$

$(Y/dY)_{3,6} = 1,52, Y_u = 18, dY_u = 4,05$

application
range

0,1

1

10

100

Y

-1

0

1

2

$\log(Y)$