

$\log(Y/\Delta Y)$

CIELABn7

tristimulus value contrast

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

$C_r = (Y/\Delta Y)$

2 100

$t^*_{CIELABn7} = 109 (Y/Y_u)^{1/2,5} - 9 \quad (Y_u = 100, Y_{nc}/100 < Y \leq Y_{nc})$

$\log(Y/dY) = -\log[2,5(Y_u/108)] + (1/2,5) \log(Y/Y_u)$

$= -(1/2,5) \log[2,5(Y_u/108)] + (1/2,5) \log(Y)$

1 10

$t^*_u = 46, dY_u = 4,57, Y_u/dY_u = 2$

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

0 1

$(Y/dY)_{90} = 7,48, \gamma = 2,5, 1/\gamma = 1/2,5 = 0,40$

$(Y/dY)_{18} = 3,93, S_n = 108,42, D_n = -8,42$

$(Y/dY)_{3,6} = 2,06, Y_n = 100, dY_n = 4,57$

application range

0,1

1

10

100

$Y_u = 18$

100

Y

-1

-2

-1

0

$Y_N = 3,6$

1

10

100

$Y_W = 90$

2

$\log(Y)$