

$\log(Y/\Delta Y)$

CIELABn3

tristimulus value contrast

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

$C_r=(Y/\Delta Y)$

2 100

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

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

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

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

100

$Y_u=18$

Y

-1

0

1

2

$Y_N=3,6$

$Y_W=90$

$\log(Y)$