

$\log(\Delta Y/\Delta Y_n)$

CIELABn1 relative
tristimulus value difference

$Y_{nc}=Y_{W\text{RGB}nc}=100, 21, 72, 7$

$\Delta Y/\Delta Y_u$

2 100

$l^*_{\text{CIELABn1}}=116(Y/Y_n)^{1/3,0}-16 \quad (Y_n=100, Y_{nc}/100<Y\leq Y_{nc})$

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

1 10

$dY_{90}/dY_u=2,92, \gamma=3,0, 1/\gamma=1/3,0=0,33$

$dY_{18}/dY_u=1,00, S_n=115,49, D_n=-15,49$

$dY_{3,6}/dY_u=0,34, Y_n=100, dY_n=4,60$

0 1

$l^*_u=50, dY_u=4,60, dY_u/Y_u=0,2555$

$\log[(dY)/(dY)_u]=0, m_u=0,66$

application
range

0,1

10

$Y_u=18$

100

Y

-2

-1

0

$Y_N=3,6$

1

$Y_W=90$

2

$\log(Y)$