

$\log(\Delta Y)$

CIELABn8

tristimulus value difference

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

ΔY
2
100

$$t^*_{\text{CIELABn8}}=100(Y/Y_n)^{1/2,0}+1 \quad (Y_n=100, Y_{nc}/100 < Y \leq Y_{nc})$$

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

1
10

$$t^*_{u}=43, dY_u=4,75, dY_u/Y_u=0,2639$$

$$\log(dY)=4,75, m_u=0,49$$

0
-1

$$dY_{90}=10,62, \gamma=2,0, 1/\gamma=1/2,0=0,50$$

$$dY_{18}=4,75, S_r=0,921, D_n=0,78$$

$$dY_{3,6}=2,11, Y_p=100, dY_n=4,75$$

application range

0,1

1

10

-1
-2

0

$Y_u=18 \quad 100 \quad Y_W=90 \quad 2 \quad \log(Y)$