

$\log(\Delta Y)$

CIELABn7

tristimulus value difference

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

ΔY
2
100

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

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

1·10

$$t^*_{u}=46, dY_u=4,57, dY_u/Y_u=0,2543$$

$$\log(dY)=4,57, m_u=0,60$$

0·1

$$dY_{90}=12,02, \gamma=2,5, 1/\gamma=1/2,5=0,40$$

$$dY_{18}=4,57, S_n=105,42, D_n=-8,42$$

$$dY_{3,6}=1,73, Y_n=100, dY_n=4,57$$

application range

0,1

1

10

$Y_N=3,6$

$Y_u=18$

100

$Y_W=90$

2

1

10

2

log(Y)