

$\log(\Delta Y)$

CIELABn5

tristimulus value difference

$$Y_{nc} = L^* W_{RGBnc} = 100, 52, 87, 31$$

$$T^*_{CIELABn5} = 116(Y/Y_n)^{1/3,0} - 16 \quad (Y_n = 100, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\log(dY) = (1/3,0) \log[3,0(Y_u/115)] + [1 - (1/3,0)] \log(Y)$$

2
1
0
-1

ΔY
100
10
1

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

$$\log(dY) = 4,60, m_u = 0,66$$

$$\begin{aligned} dY_{90} &= 13,45, \gamma = 3,0, \gamma = 1/3,0 = 0,33 \\ dY_{18} &= 4,60, S_n = 15,49, D_n = -15,49 \\ dY_{3,6} &= 1,56, Y_n = 100, dY_n = 4,60 \end{aligned}$$

application range

0,1

1

10

100

$Y_u = 18$

100

Y

-2

-1

0

$Y_N = 3,6$

1

100

$Y_W = 90$

2

$\log(Y)$