

$\log(\Delta Y)$

CIELABu7

tristimulus value difference

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

$$T^*_{CIELABu7} = 59 (Y/Y_u)^{1/2,5} - 9 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\log(dY) = (1/2,5) \log[2,5(Y_u/58)] + [1 - (1/2,5)] \log(Y)$$

2
1
0
-1

ΔY
100
10
1

$$T^*_u = 50, dY_u = 4,27, dY_u/Y_u = 0,2377$$

$$\log(dY) = 4,27, m_u = 0,59$$

application range

0,1

1

10

100

$Y_u = 18$

Y

-2

-1

0

$Y_N = 3,6$

1

10

$Y_W = 90$

2

$\log(Y)$