

$\log \Delta Y$

CIE tristimulus value difference

$10 \Delta Y_{\text{LABJND}}$ and $\Delta Y_{\text{CIEDE2000}}$

ΔY

$$L^* = 116 (Y/Y_n)^{1/3} - 16$$

tristimulus value difference according to CIEDE2000

$$\begin{aligned} \log(dY) &= \log(3 (Y_n/116)) + (2/3) \log(Y/Y_n) \\ &= \log(3(Y_n^{1/3})/116) + (2/3) \log(Y) \end{aligned}$$

1

10

0

$Y_u=18, dY_u=0,83, (dY/Y_u)=0,045$

$\log dY = -0,07, m_u = 0,81$

$m_{u+} = 0,86$

$m_{u-} = 0,85$

application range

0,1

1

10

$Y_u=18 \ 100 \ Y$

-1

-2

-1

0

1

2

$\log Y$