

$\log(\Delta Y / \Delta Y_u)$

CIE tristimulus value difference
 ΔY normalized to ΔY_u
for LABJND and CIEDE2000

$\Delta Y / \Delta Y_u$

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

tristimulus value difference according to CIEDE2000

10

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

$m_{u+} = 0,86$

0

$$Y_u = 18, dY_u = 0,83, dY_u/Y_u = 0,045$$

$$\log[(dY)/(dY_u)] = 0, m_u = 0,81$$

-1

0,1

$m_{u-} = 0,85$

0

10

1

2

$Y_u = 18$

100

Y

application

range