

$\log \Delta Y$

CIE tristimulus value difference

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

ΔY

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

tristimulus value difference according to CIEDE2000

10

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

0

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

$$\log(dY) = 0,84, m_u = 0,81$$

-1

$$m_{u-} = 0,85$$

0,1

10

100

Y

0

1

2

$\log(Y)$

$$m_{u+} = 0,86$$

application range

range