

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

CIELABu9 relative
tristimulus value difference

$$Y_{nc} = L^* \mathbf{w} \mathbf{R} \mathbf{G} \mathbf{B}_{nc} = 100, \text{ 52, 87, 31}$$

$$T^*_{\text{CIELABu9}} = 37 (Y/Y_u)^{1/1,5} + 13 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

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

2
100

2

1

0

-1

-2

10

1

0,1

-1

$$T^*_u = 50, dY_u = 4,05, dY_u/Y_u = 0,2253$$

$$\log[(dY)/(dY)_u] = 0, m_u = 0,33$$

application
range

0,1

-1

1

0

10

1

100

2

Y

log(Y)

$Y_N = 3,6$

$Y_W = 90$

$Y_u = 18$