

$\log(\Delta Y)$

CIELABu4

tristimulus value difference

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

$$L^*_{CIELABu4} = 37 (Y/Y_u)^{1/1,5} + 13 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\log(dY) = (1/1,5) \log[1,5(Y_u/36)] + [1 - (1/1,5)] \log(Y)$$

ΔY

2 100

1 10

0 1

-1

0,1

1

10

100

Y

-2

-1

0

Y_N=3,6

1

Y_W=90

2

log(Y)

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

$$\log(dY) = 4,05, m_u = 0,33$$

application range