

$\log(\Delta Y/Y)$

CIELABn1

tristimulus value sensitivity

$Y_{nc} = Y_{WRGBnc} = 100, 21, 72, 7$

$S_r = (\Delta Y/Y)$

2-100

$$l^*_{CIELABn1} = 116(Y/Y_n)^{1/3,0} - 16 \quad (Y_n = 100, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\log(dY/Y) = \log[3,0(Y_u/115)] - (1/3,0) \log(Y/Y_u)$$

$$= (1/3,0) \log[3,0(Y_u/115)] - (1/3,0) \log(Y)$$

1-10

$$\log(dY/Y) = -0,59, m_u = -0,33$$

$$l^*_u = 50, dY_u = 4,60, dY_u/Y_u = 0,2555$$

application  
range

0-1

$$(dY/Y)_{90} = 0,1494, \gamma = 3,0, 1/\gamma = 1/3,0 = 0,33$$

$$(dY/Y)_{18} = 0,2555, S_n = 115,49, D_n = 15,49$$

$$(dY/Y)_{3,6} = 0,4361, Y_n = 100, dY_n = 4,60$$

0,1

1

10

100

18

90

100

Y

-1

0

1

2

log(Y)

Y<sub>N</sub> = 3,6

Y<sub>W</sub> = 90