

$\log(Y/\Delta Y)$

$\log(S_r)$ $S_r = (Y/\Delta Y)$

CIELAB-

tristimulus value contrast

2-100

$$L^*_{\text{CIELAB}} = s(Y/Y_n)^{1/3} - 16 \quad (s=100, Y_n=100, 1 < Y \leq 100)$$

CIELAB-tristimulus value contrast

1-10

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

0-1

$$L^*_u = 50, Y_u = 18, dY_u = 0,83, Y_u/dY_u = 21$$

$$\log(Y/dY) = 1,33, m_u = 0,33$$

application
range

-2

0,1
-1

1

$Y_N = 4$ 10

1

$Y_u = 18$ 100

2

$\log(Y)$