

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

CIELABn2 relative
tristimulus value difference

$Y_{nc} = L^* \mathbf{wRGB}_{nc} = 100, \mathbf{52, 87, 31}$

$L^*_{CIELABn2} = 109(Y/Y_n)^{1/2,5} - 9 \quad (Y_n = 100, Y_{nc}/100 < Y \leq Y_{nc})$

$\log(dY/dY_u) = [1 - (1/2,5)] \log(Y/Y_u)$

$\Delta Y/\Delta Y_u$

2 100

1 10

0 1

-1

-2

$dY_{90}/dY_u = 2,62, \gamma = 2,5, 1/\gamma = 1/2,5 = 0,40$

$dY_{18}/dY_u = 1,00, S_n = 108,42, D_n = -8,42$

$dY_{3,6}/dY_u = 0,37, Y_n = 100, dY_n = 4,57$

$L^*_u = 46, dY_u = 4,57, dY_u/Y_u = 0,2543$

$\log[(dY)/(dY)_u] = 0, m_u = 0,59$

application
range

0,1

-1

0

$Y_N = 3,6$

10

1

100

2

$Y_u = 18$

1

$Y_W = 90$

2

100

2

Y

$\log(Y)$