

$\log(Y/\Delta Y)$

CIELABu3

tristimulus value contrast

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

$C_r = (Y/\Delta Y)$

2 100

$l^*_{CIELABu3} = 50(Y/Y_u)^{1/2,0} + 1 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$

$\log(Y/dY) = -\log[2,0(Y_u/49)] + (1/2,0) \log(Y/Y_u)$
 $= -(1/2,0) \log[2,0(Y_u/49)] + (1/2,0) \log(Y)$

1 10

$l^*_u = 50, dY_u = 4,06, Y_u/dY_u = 4$

$\log(Y/dY) = 0,64, m_u = 0,50$

0 1

$(Y/dY)_{90} = 9,99, \gamma = 2,0, 1/\gamma = 1/2,0 = 0,50$

$(Y/dY)_{10} = 4,42, S_n = 49,21, D_n = 0,78$

$(Y/dY)_{3,6} = 1,98, Y_u = 18, dY_u = 4,06$

application
range

0,1

1

10

$Y_u = 18$

100

Y

-1

-1

0

$Y_N = 3,6$

1

$Y_W = 90$

2

$\log(Y)$