

$\log(Y/\Delta Y)$

CIE LABu4

tristimulus value contrast

$Y_{nc} = L^*_{wRGBnc} = 100, 52, 87, 31$

$C_r = (Y/\Delta Y)$

2 100

$L^*_{CIE LABu4} = 37(Y/Y_u)^{1/1,5} + 13 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$

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

1 10

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

$\log(Y/dY) = 0,64, m_u = 0,66$

0 1

application range

-1 0,1 1 10 100 $Y_u = 18$ 100 Y
-2 -1 0 $Y_N = 3,6$ 1 $Y_W = 90$ 2 $\log(Y)$