

$\log [(Y/\Delta Y) / (Y/\Delta Y)_u]$

CIE LABu9 relative
tistimulus value contrast

$$C_r/C_{ru} = (Y/\Delta Y) / (Y/\Delta Y)_u$$

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

2 100

$$t^*_{CIE LABu9} = 37 (Y/Y_u)^{1/1,5} + 13 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\log [(Y/dY) / (Y/dY)_u] = (1/1,5) \log (Y/Y_u)$$

1 10

0 1

$$\log [(Y/dY) / (Y/dY)_u] = 0, m_u = 0,66$$

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

application
range

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