

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

CIE LABu3 relative
tistimulus value contrast

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

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

$$L^*_{CIE LABu3} = 50 (Y/Y_u)^{1/2,0} + 1 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

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

2
100

1
10

0
1

$$\log[(Y/dY)/(Y/dY)_u] = 0, m_u = 0,49$$

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

application
range

