

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

CIE Y contrast
normalized to $(Y/\Delta Y)_u$

$C_r/C_{ru}=(Y/\Delta Y)/(Y/\Delta Y)_u$ LABJND & CIEDE2000

Y contrast according to CIEDE2000

$$\log[(Y/\Delta Y)/(Y/\Delta Y)_u] = (1/3) \log((Y/Y)_u)$$

$$L^*_u=50, Y_u=18, dY_u=0,83$$

1

10

$$L^*_u=50, Y_u=18, dY_u=0,83, (Y/dY)_u=22$$

$$\log[(Y/dY)_u/(Y/dY)_u]=0, m_u=0,18$$

$m_{u+}=$

0,13

0

application
range

$m_{u-}=0,14$

0,1

1

10

$Y_u=18$ 100 Y

-1

-2

-1

0

1

2

log Y