

$\log(\Delta Y/Y)$

$\log(C_r) \quad C_r=(\Delta Y/Y)$

CIE tristimulus  
value  $Y$  contrast

$$L^* = (t/a) \ln(1 + a \cdot Y) \quad a=0.3411 \quad t/a=258.6$$

tristimulus value contrast

$$\begin{aligned} \log(dY/Y) &= \log[(1 + a \cdot Y) / (t \cdot Y)] \\ &= \log[(1 + b \cdot (Y/Y_u)) / (t \cdot Y)] \end{aligned}$$

application  
range

$$\log(dY/Y) = -2.34, \quad m_u = -0.13$$

$$Y_u = 18, \quad dY_u = 0.08, \quad dY_u/Y_u = 0.004$$

$Y_u = 18 \quad 100 \quad Y$

