

$\log(\Delta Y)$

CIELABu3

tristimulus value difference

$Y_{nc} = L^*_{WRGBnc} = 100, \textcolor{red}{52}, \textcolor{blue}{87}, \textcolor{green}{31}$

$\Delta Y$

2  
100

$L^*_{CIELABu3} = 50(Y/Y_u)^{1/2,0} + 1 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$

$\log(dY) = (1/2,0) \log[2,0(Y_u/49)] + [1 - (1/2,0)] \log(Y)$

1  
10

$L^*_{u} = 50, dY_u = 4,06, dY_u/Y_u = 0,2257$

0  
-1

$\log(dY) = 4,06, m_u = 0,50$



application  
range

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