

$\log(\Delta Y/\Delta Y_u)$

CIELABu9 relative
Normfarbwertdifferenz

$Y_{nc} = L^* \cdot W_{RGBnc} = 100, 52, 87, 31$

$T^*_{CIELABu9} = 37 (Y/Y_u)^{1/1,5} + 13 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$

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

$\Delta Y/\Delta Y_u$
2
100
1
10
0
1

$dY_{90}/dY_u = 1,70, \gamma = 1,5, 1/\gamma = 1/1,5 = 0,66$
 $dY_{18}/dY_u = 1,00, S_n = 36,98, D_n = 13,01$
 $dY_{3,6}/dY_u = 0,58, Y_u = 18, dY_u = 4,05$

$T^*_u = 50, dY_u = 4,05, dY_u/Y_u = 0,2253$

$\log[(dY)/(dY)_u] = 0, m_u = 0,33$

Anwendungs-
bereich

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