

$\log(\Delta Y)$

CIELABu7

Normfarbwertdifferenz

$$Y_{nc} = L^* W_{RGB} B_{nc} = 100, 52, 87, 31$$

$$T^*_{CIELABu7} = 59 (Y/Y_u)^{1/2,5} - 9 \quad (Y_u = 18, Y_{nc}/100 < Y \leq Y_{nc})$$

$$\log(dY) = (1/2,5) \log[2,5(Y_u/58)] + [1 - (1/2,5)] \log(Y)$$

2  
1  
0  
-1

$\Delta Y$

100  
10  
1  
0  
-1

$$T^*_u = 50, dY_u = 4,27, dY_u/Y_u = 0,2377$$

$$\log(dY) = 4,27, m_u = 0,59$$

Anwendungsbereich

0,1

1

10

100

$Y_u = 18$

$Y_w = 90$

100

$Y$

-2

-1

0

$Y_N = 3,6$

1

10

100

1000

10000

100000

1000000

10000000

100000000

1000000000

10000000000

$\log(Y)$