

sRGB-Daten rgb^* , XYZxy und LabC*h_{ab} im CIELAB-Farbraum

Normfarbwerte von Schwarz und Weiß: $Y_N=0,0$, $Y_W=88,6$

LabC*h_{ab}-Daten

	rgb_d^*	L_d^*	a_d^*	b_d^*	$C_{ab,d}^*$	$h_{ab,d}$
R_d	1 0 0	50	76	64	100	40
Y_d	1 1 0	97	-21	94	96	102
G_d	0 1 0	87	-86	83	119	136
C_d	0 1 1	91	-48	-14	50	196
B_d	0 0 1	32	79	-107	133	306
M_d	1 0 1	60	98	-60	115	328
N_d	0 0 0	0	0	0	0	0
W_d	1 1 1	95	0	0	0	0

$$a^* = 500 \left[\left(\frac{X}{X_{D65}} \right)^{1/3} - \left(\frac{Y}{Y_{D65}} \right)^{1/3} \right] \quad [1a]$$

$$b^* = 200 \left[\left(\frac{Y}{Y_{D65}} \right)^{1/3} - \left(\frac{Z}{Z_{D65}} \right)^{1/3} \right] \quad [2a]$$

$$C_{ab}^* = \left[a^{*2} + b^{*2} \right]^{0,5} \quad [3a]$$

$$h_{ab} = \text{atan} \left[b^* / a^* \right] \quad [4a]$$

