

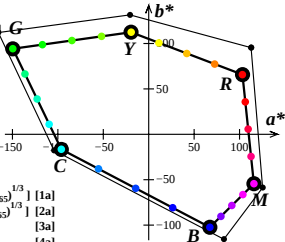
WCGa-Daten rgb^* , XYZ_{xy} und $LabC^*h_{ab}$ im CIELAB-Farbraum

Normfarbwerte von Schwarz und Weiß: $Y_{Nn}=2,2$, $Y_{Wn}=79,9$, $Y_{Za}=18$.

$LabC^*h_{ab}$ -Daten

rgb^*_d L^*_d a^*_d b^*_d $C^*_{ab,d}$ $h_{ab,d}$

R_d	1	0	0	54	103	65	122	32
Y_d	1	1	0	89	-19	112	114	99
G_d	0	1	0	78	-149	94	176	147
C_d	0	1	1	82	-96	-16	97	189
B_d	0	0	1	31	67	-102	122	303
M_d	1	0	1	59	115	-54	127	334
N_d	0	0	0	16	0	0	0	19
W_d	1	1	1	91	0	0	0	0



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

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

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

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