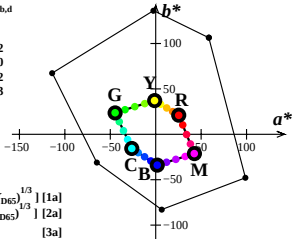


# Ostw-Daten $rgb^*$ , $XYZ_{xy}$ und $LabC^*h_{ab}$ im CIELAB-Farbraum

Normfarbwerte von Schwarz und Weiß:  $Y_{Nn}=40,3$ ,  $Y_{Wn}=88,6$ ,  $Y_{Wa}=88,6$ .

|       | $rgb_d^*$ | $L_d^*$ | $a_d^*$ | $b_d^*$ | $C_{ab,d}^*$ | $h_{ab,d}$ |
|-------|-----------|---------|---------|---------|--------------|------------|
| $R_d$ | 1 0 0     | 82      | 25      | 20      | 32           | 39         |
| $Y_d$ | 1 1 0     | 91      | -1      | 37      | 37           | 91         |
| $G_d$ | 0 1 0     | 87      | -44     | 23      | 50           | 152        |
| $C_d$ | 0 1 1     | 86      | -26     | -15     | 30           | 210        |
| $B_d$ | 0 0 1     | 75      | 1       | -33     | 34           | 272        |
| $M_d$ | 1 0 1     | 80      | 42      | -21     | 47           | 333        |
| $N_d$ | 0 0 0     | 69      | 0       | 0       | 0            | 0          |
| $W_d$ | 1 1 1     | 95      | 0       | 0       | 0            | 0          |



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

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

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

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