

Linear relation CIELAB (L^* , a^* , b^*) and adapted (a) CIELAB ($C_{ab,a}^*$, L^*)
System: ORS18a

$$l_{lab}^* = (L^* - L_N^*) / (L_W^* - L_N^*)$$

$$a_{ab}^* = a^* - a_N^* - l_{lab}^* [a_W^* - a_N^*]$$

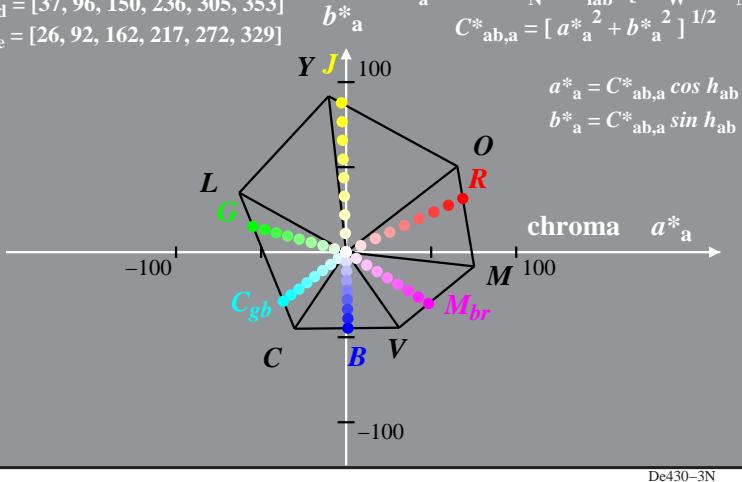
$$b_{ab}^* = b^* - b_N^* - l_{lab}^* [b_W^* - b_N^*]$$

$$C_{ab,a}^* = [a_{ab}^{*2} + b_{ab}^{*2}]^{1/2}$$

CIELAB hue angles:

$$h_{ab,d} = [37, 96, 150, 236, 305, 353]$$

$$h_{ab,e} = [26, 92, 162, 217, 272, 329]$$



$$a_{ab}^* = C_{ab,a}^* \cos h_{ab}$$

$$b_{ab}^* = C_{ab,a}^* \sin h_{ab}$$

Linear relation CIELAB (L^* , a^* , b^*) and adapted (a) CIELAB ($C_{ab,a}^*$, L^*)
System: TLS00

$$l_{lab}^* = (L^* - L_N^*) / (L_W^* - L_N^*)$$

$$a_{ab}^* = a^* - a_N^* - l_{lab}^* [a_W^* - a_N^*]$$

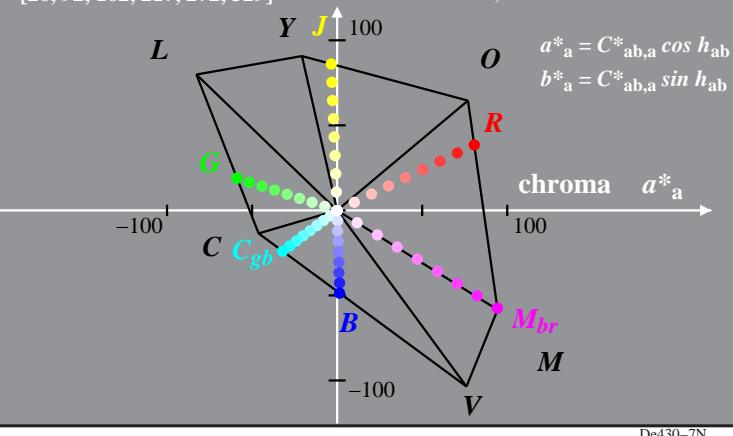
$$b_{ab}^* = b^* - b_N^* - l_{lab}^* [b_W^* - b_N^*]$$

$$C_{ab,a}^* = [a_{ab}^{*2} + b_{ab}^{*2}]^{1/2}$$

CIELAB hue angles:

$$h_{ab,d} = [40, 102, 136, 196, 306, 328]$$

$$h_{ab,e} = [26, 92, 162, 217, 272, 329]$$



$$a_{ab}^* = C_{ab,a}^* \cos h_{ab}$$

$$b_{ab}^* = C_{ab,a}^* \sin h_{ab}$$

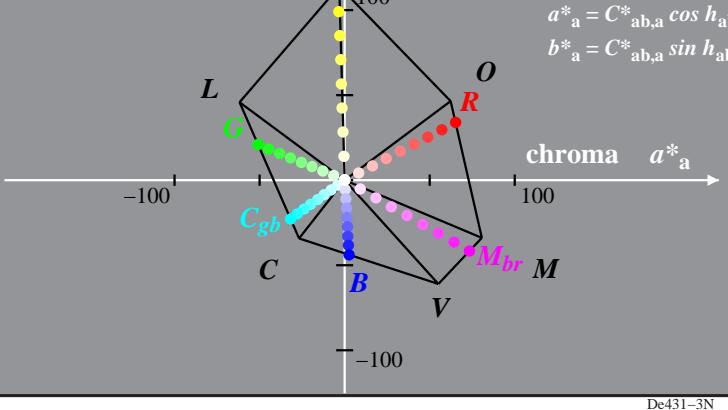
Linear relation CIELAB (L^* , a^* , b^*) and adapted (a) CIELAB ($C_{ab,a}^*$, L^*)
System: PRS06a

$$l_{lab}^* = (L^* - L_N^*) / (L_W^* - L_N^*)$$

$$a_{ab}^* = a^* - a_N^* - l_{lab}^* [a_W^* - a_N^*]$$

$$b_{ab}^* = b^* - b_N^* - l_{lab}^* [b_W^* - b_N^*]$$

$$C_{ab,a}^* = [a_{ab}^{*2} + b_{ab}^{*2}]^{1/2}$$



$$a_{ab}^* = C_{ab,a}^* \cos h_{ab}$$

$$b_{ab}^* = C_{ab,a}^* \sin h_{ab}$$

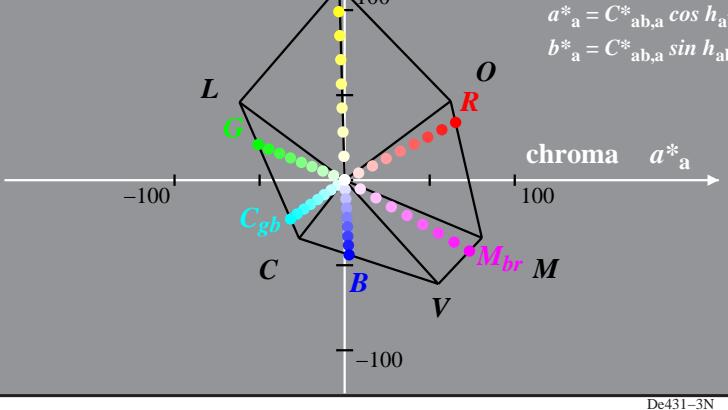
Linear relation CIELAB (L^* , a^* , b^*) and adapted (a) CIELAB ($C_{ab,a}^*$, L^*)
System: NRS11a

$$l_{lab}^* = (L^* - L_N^*) / (L_W^* - L_N^*)$$

$$a_{ab}^* = a^* - a_N^* - l_{lab}^* [a_W^* - a_N^*]$$

$$b_{ab}^* = b^* - b_N^* - l_{lab}^* [b_W^* - b_N^*]$$

$$C_{ab,a}^* = [a_{ab}^{*2} + b_{ab}^{*2}]^{1/2}$$



$$a_{ab}^* = C_{ab,a}^* \cos h_{ab}$$

$$b_{ab}^* = C_{ab,a}^* \sin h_{ab}$$

BAM-test chart De43; Colour image reproduction
4 device systems and elementary hues in diagram (a^* , b^*)

input: `rgb (-> olv*) setrgbcOLOR`
output: no change compared to input

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