Linear relation CIELAB (L^*, a^*, b^*) and *adapted (a)* CIELAB ($C^*_{ab,a}$, L^*)

System: JE28_sRGB display 0%_G0

CIELAB hue angles:

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

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

b^*_a

$l^*_{lab^*}=(L^* - L^*_N) / (L^*_W - L^*_N)$

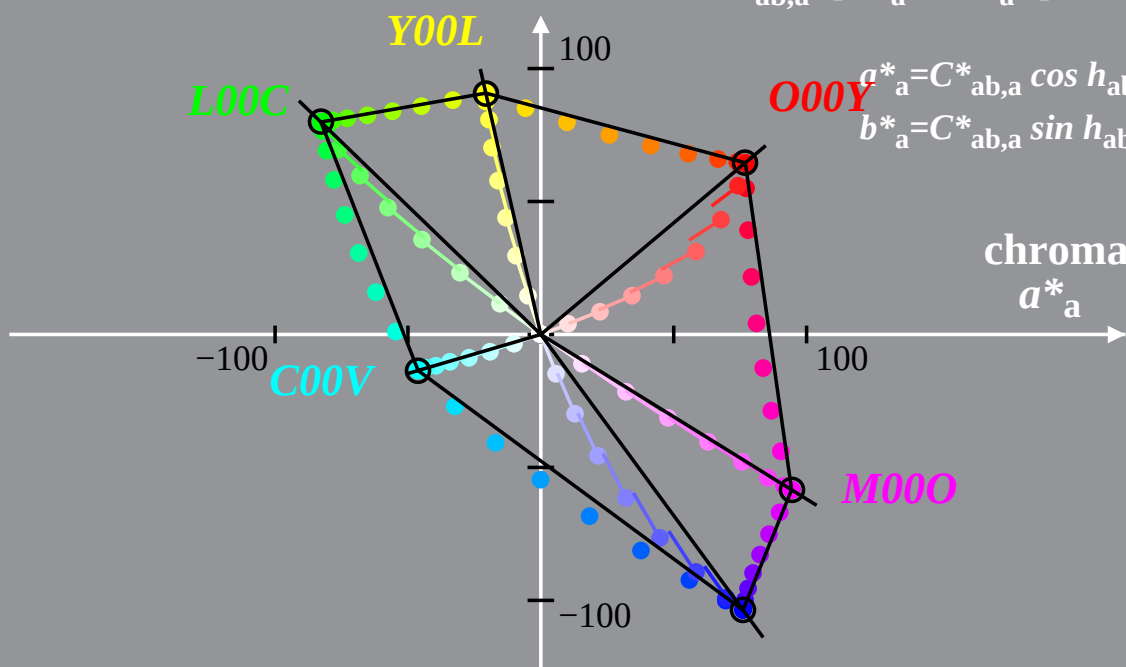
$a^*_a=a^* - a^*_N - l^*_{lab^*} [a^*_W - a^*_N]$

$b^*_a=b^* - b^*_N - l^*_{lab^*} [b^*_W - b^*_N]$

$C^*_{ab,a}=[a^{*2}_a + b^{*2}_a]^{1/2}$

$a^*_a=C^*_{ab,a} \cos h_{ab}$

$b^*_a=C^*_{ab,a} \sin h_{ab}$



JE280−4A, 1; cf1=1.00; nt=0.18; nx=1.0, sRGB_00_95

Linear relation CIELAB (L^*, a^*, b^*) and *adapted (a)* CIELAB ($C^*_{ab,a}$, L^*)

System: JE28_sRGB display 40%_G0

CIELAB hue angles:

$h_{ab,d}$=[21, 107, 142, 197, 293, 326]

$h_{ab,dx}$=[21, 107, 142, 197, 293, 326]

b^*_a

$$l^*_{lab^*}=(L^* - L^*_N) / (L^*_W - L^*_N)$$

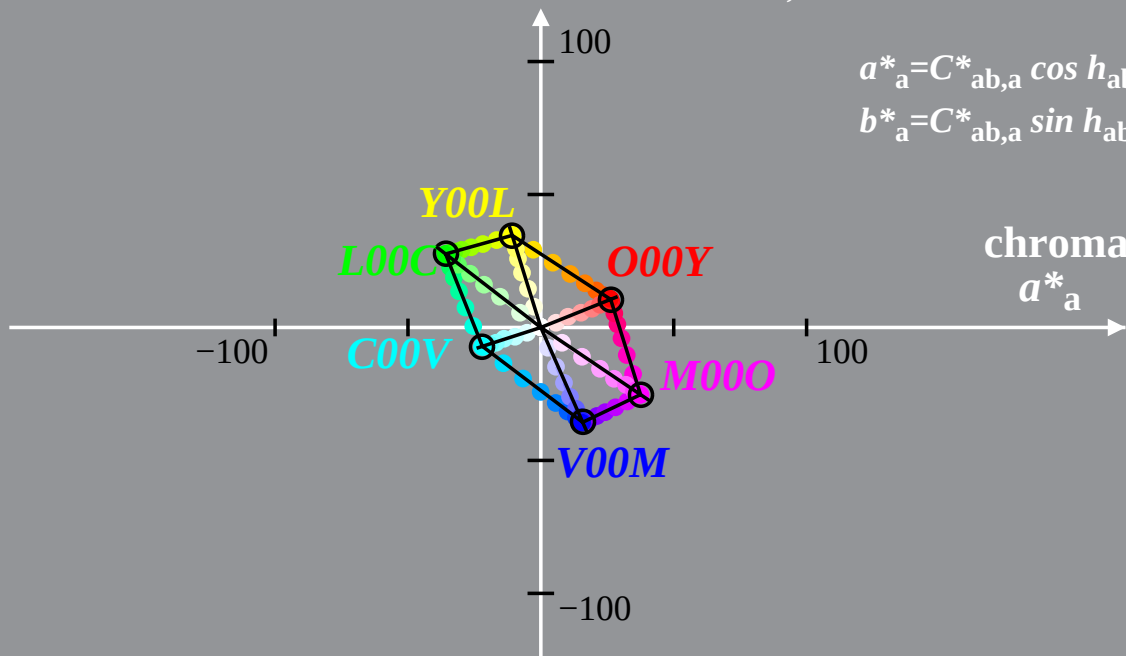
$$a^*_a=a^* - a^*_N - l^*_{lab^*} [a^*_W - a^*_N]$$

$$b^*_a=b^* - b^*_N - l^*_{lab^*} [b^*_W - b^*_N]$$

$$C^*_{ab,a}=[a^{*2}_a + b^{*2}_a]^{1/2}$$

$$a^*_a=C^*_{ab,a} \cos h_{ab}$$

$$b^*_a=C^*_{ab,a} \sin h_{ab}$$



JE280−4A, 2; cf1=1.00; nt=0.18; nx=1.0, sRGB_00_95