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

System: GE92_HRS16_96_D65_00%_G0

CIELAB hue angles:

$h_{ab,d}$=[32, 99, 151, 233, 300, 349]

$h_{ab,dx}$=[31, 99, 151, 229, 300, 350]

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

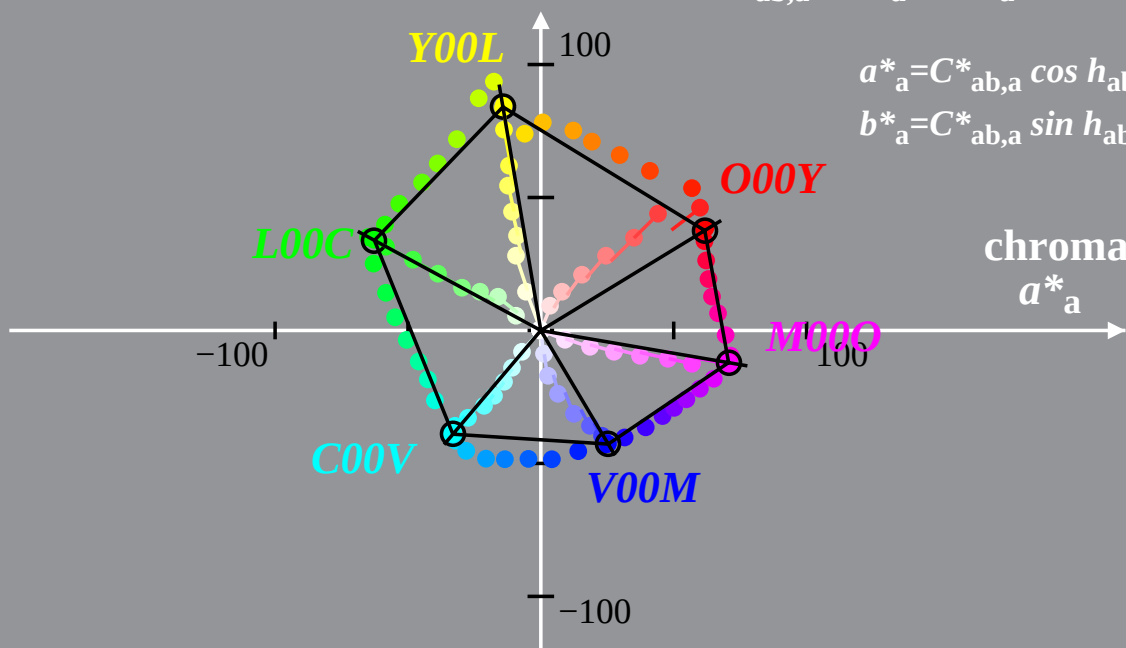
$a^*_a=a^* - a^*_N - l^*_{lab^*} [a^*_W - a^*_N]$

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

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

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

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



GE920−4A, 1; cf1=0.90; nt=0.18; nx=1.0

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

System: GE92_HRS16_96_D65_00%_G1

CIELAB hue angles:

$h_{ab,d}$=[32, 99, 151, 233, 300, 349]

$h_{ab,dx}$=[32, 99, 151, 233, 300, 349]

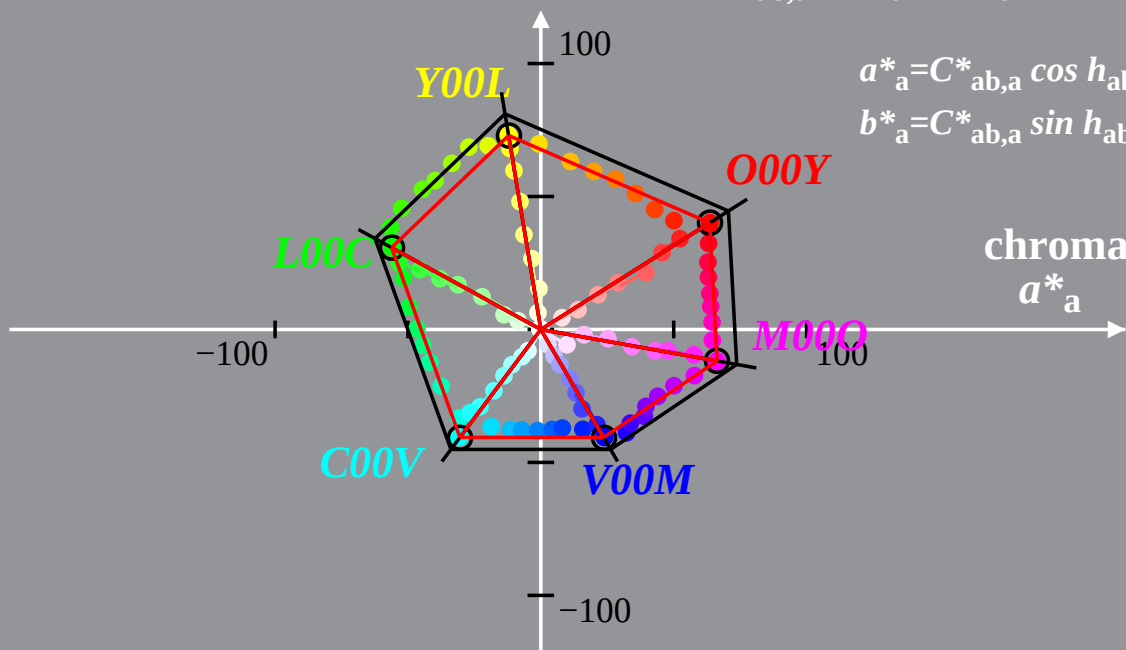
$$l^*_{lab^*}=(L^* - L^*_N) / (L^*_W - L^*_N)$$

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

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

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

b^*_a



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

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

GE920−4A, 2; cf1=0.90; nt=0.18; nx=1.0