

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

System: GE93_HRS16_96_D65_00%_G0 $I^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$

CIELAB hue angles:

$h_{ab,d} = [34, 99, 152, 232, 299, 349]$

$h_{ab,dx} = [32, 99, 151, 229, 299, 349]$

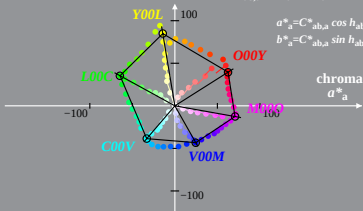
$$a^*_a = a^* - a^*_N - I^*_{lab^*} [a^*_W - a^*_N]$$

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

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

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

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



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

System: GE93_HRS16_96_D65_00%_G1 $I^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$

CIELAB hue angles:

$h_{ab,d} = [34, 99, 152, 232, 299, 349]$

$h_{ab,dx} = [34, 99, 152, 232, 299, 349]$

$$a^*_{ab} = a^* - a^*_N - I^*_{lab^*} [a^*_W - a^*_N]$$

$$b^*_{ab} = b^* - b^*_N - I^*_{lab^*} [b^*_W - b^*_N]$$

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

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

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

