

Beziehung CIELAB (L^* , a^* , b^*) und *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*)

System: GG82_HRS16_96_D65_00%_O0

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

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

$$b^*_{\text{a}} = b^* - b^*_N - I^*_{lab^*} [b^*_W - b^*_N]$$

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

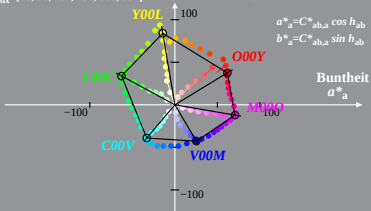
CIELAB-Bunttonwinkel:

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

$h_{ab,dx} = [38, 96, 151, 236, 305, 354]$

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

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



Beziehung CIELAB (L^* , a^* , b^*) und *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*)

System: GG82_HRS16_96_D65_00%_O1

CIELAB-Bunttonwinkel:

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

$h_{ab,dx} = [38, 96, 151, 236, 305, 354]$

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

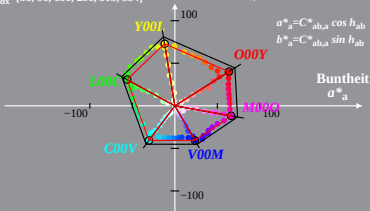
$$a^*_{*a} = a^* - a^*_N - I^*_{lab*} [a^*_W - a^*_N]$$

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

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

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

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



Beziehung CIELAB (L^* , a^* , b^*) und *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*)

System: GG82_HRS16_96_D65_25%_O0

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

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

$$b^*_{\text{a}} = b^* - b^*_N - I^*_{lab^*} [b^*_W - b^*_N]$$

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

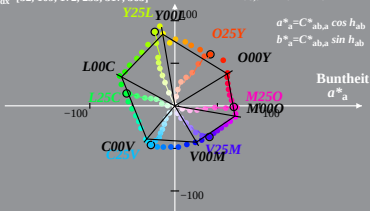
CIELAB-Bunttonwinkel:

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

$h_{ab,dx} = [52, 109, 172, 253, 317, 365]$

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

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



Beziehung CIELAB (L^* , a^* , b^*) und *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*)

System: GG82_HRS16_96_D65_25%_O1

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

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

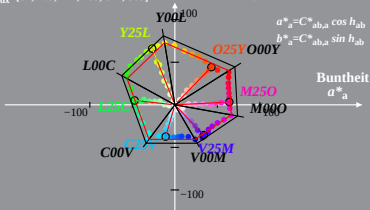
$$b^*_{\text{a}} = b^* - b^*_N - l^*_{lab^*} [b^*_W - b^*_N]$$

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

CIELAB-Bunttonwinkel:

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

$h_{ab,dx} = [52, 109, 172, 253, 317, 365]$



Beziehung CIELAB (L^* , a^* , b^*) und *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*)

System: GG82_HRS16_96_D65_50%_O0

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

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

$$b^*_{\text{a}} = b^* - b^*_N - I^*_{lab^*} [b^*_W - b^*_N]$$

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

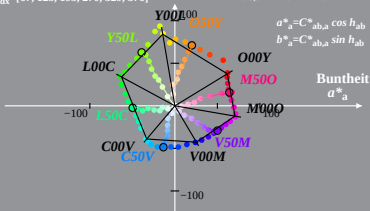
CIELAB-Bunttonwinkel:

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

$h_{ab,dx} = [67, 123, 193, 270, 329, 376]$

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

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



Beziehung CIELAB (L^* , a^* , b^*) und *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*)

System: GG82_HRS16_96_D65_50%_O1

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

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

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

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

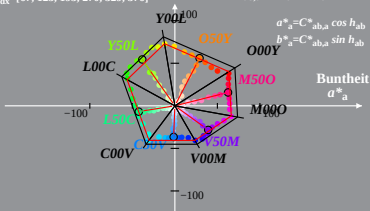
CIELAB-Bunttonwinkel:

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

$h_{ab,dx} = [67, 123, 193, 270, 329, 376]$

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

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



Beziehung CIELAB (L^* , a^* , b^*) und *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*)

System: GG82_HRS16_96_D65_75%_O0

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

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

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

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

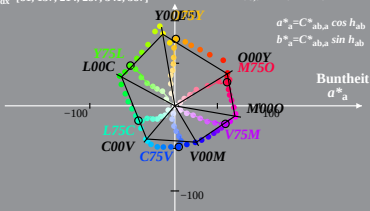
CIELAB-Bunttonwinkel:

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

$h_{ab,dx} = [81, 137, 214, 287, 341, 387]$

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

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



Beziehung CIELAB (L^* , a^* , b^*) und *adaptiertes* (a) CIELAB ($C^*_{ab,a}$, L^*)

System: GG82_HRS16_96_D65_75%_O1

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

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

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

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

CIELAB-Bunttonwinkel:

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

$h_{ab,dx} = [81, 137, 214, 287, 341, 387]$

