

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

System: GG80_HRS16_96_D65_00%_O0

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

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

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

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

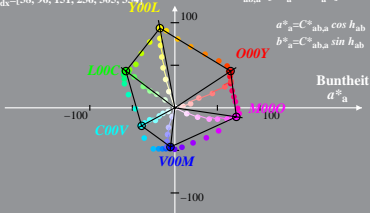
CIELAB-Bunttonwinkel:

$h_{ab,d} = [32, 100, 145, 206, 265, 348]$

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

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

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



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

System: GG80_HRS16_96_D65_00%_O1

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

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

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

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

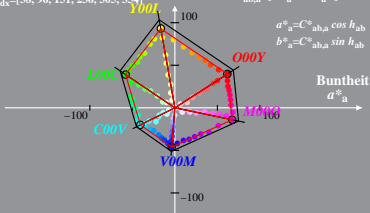
CIELAB-Bunttonwinkel:

$h_{ab,d} = [32, 100, 145, 206, 265, 348]$

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

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

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



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

System: GG80_HRS16_96_D65_25%_O0

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

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

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

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

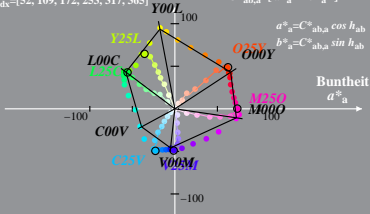
CIELAB-Buntonwinkel:

$h_{ab,d} = [32, 100, 145, 206, 265, 348]$

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

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

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



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

System: GG80_HRS16_96_D65_25%_O1

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

CIELAB-Bunttonwinkel:

$$h_{ab,d} = [32, 100, 145, 206, 265, 348]$$

$$h_{ab,dx} = [52, 109, 172, 253, 317, 365] \quad Y00L$$

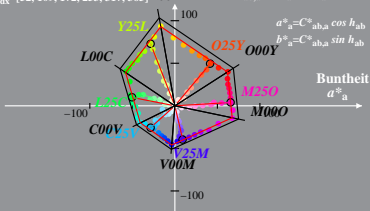
$$a^*_{\bar{a}} = a^* - a^*_N - l^*_{lab*} [a^*_W - a^*_N]$$

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

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

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

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



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

System: GG80_HRS16_96_D65_50%_O0

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

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

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

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

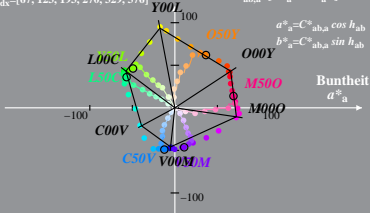
CIELAB-Bunttonwinkel:

$h_{ab,d} = [32, 100, 145, 206, 265, 348]$

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

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

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



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

System: GG80_HRS16_96_D65_50%_O1

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

CIELAB-Bunttonwinkel:

$h_{ab,d} = [32, 100, 145, 206, 265, 348]$

$h_{ab,dx} = [67, 123, 193, 270, 329, 376]$ **Y00L**

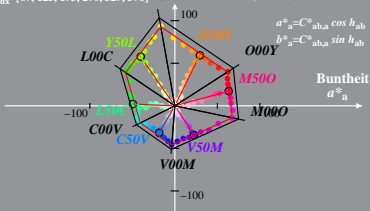
$$a^*_{\bar{a}} = a^* - a^*_N - l^*_{lab*} [a^*_W - a^*_N]$$

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

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

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

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



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

System: GG80_HRS16_96_D65_75%_O0

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

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

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

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

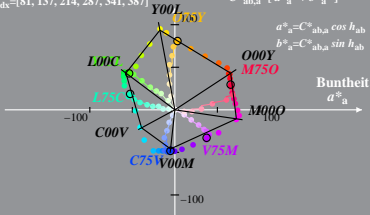
CIELAB-Bunttonwinkel:

$$h_{ab,d} = [32, 100, 145, 206, 265, 348]$$

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

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

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



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

System: GG80_HRS16_96_D65_75%_O1

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

CIELAB-Bunttonwinkel:

$$h_{ab,d} = [32, 100, 145, 206, 265, 348]$$

$$h_{ab,dx} = [81, 137, 214, 287, 341, 387] \quad Y00L$$

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

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

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

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

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

