

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

System: JE29_sRGB display 0%_G0

CIELAB hue angles:

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

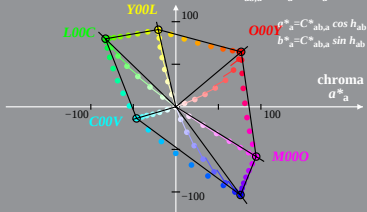
$h_{ab,dx}=[40, 102, 136, 196, 306, 328]$

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

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

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

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



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

System: JE29_sRGB display 0,6%_G0

CIELAB hue angles:

$h_{ab,d}=[38, 102, 136, 196, 305, 328]$

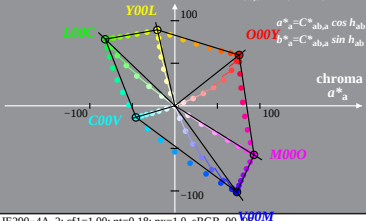
$h_{ab,dx}=[38, 102, 136, 196, 305, 328]$

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

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

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

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



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

System: JE29_sRGB display 1,3%_G0

CIELAB hue angles:

$h_{ab,d}=[36, 103, 136, 196, 305, 328]$

$h_{ab,dx}=[36, 103, 136, 196, 305, 328]$

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

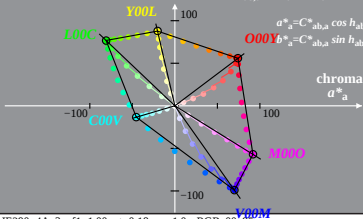
$$a^*_{^*a}=a^*-a^*_N-L^*_{lab^*}[a^*_W-a^*_N]$$

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

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

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

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



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

System: JE29_sRGB display 2,5%_G0

CIELAB hue angles:

$h_{ab,d}=[34, 103, 136, 196, 304, 328]$

$h_{ab,dx}=[34, 103, 136, 196, 304, 328]$

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

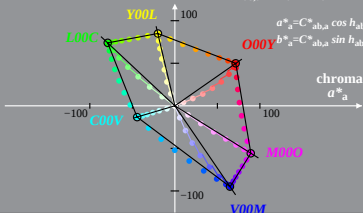
$$a^*_{\text{a}}=a^*-a^*_N-l^*_{lab^*}[a^*_W-a^*_N]$$

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

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

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

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



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

System: JE29_sRGB display 5%_G0

CIELAB hue angles:

$h_{ab,d}=[31, 103, 137, 196, 302, 327]$

$h_{ab,dx}=[31, 103, 137, 196, 302, 327]$

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

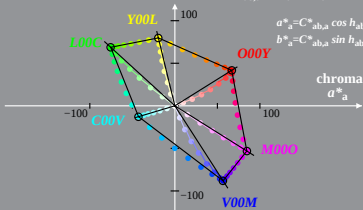
$$a^*_{*a}=a^*-a^*_N-l^*_{lab*}[a^*_W-a^*_N]$$

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

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

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

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



Linear relation CIELAB (L^* , a^* , b^*) and adapted (a) CIELAB ($C^*_{ab,a}$, L^*)
 System: JE29_sRGB display 10%_G0

CIELAB hue angles:

$h_{ab,d}=[28, 104, 138, 196, 300, 327]$

$h_{ab,dx}=[28, 104, 138, 196, 300, 327]$

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

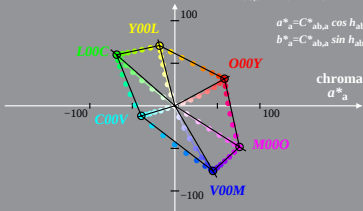
$$a^*_{*a}=a^*-a^*_N-l^*_{lab*}[a^*_W-a^*_N]$$

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

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

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

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



Linear relation CIELAB (L^* , a^* , b^*) and *adapted* (a) CIELAB ($C^*_{ab,a}$, L^*)
 System: JE29_sRGB display 20%_G0

CIELAB hue angles:

$h_{ab,d}=[24, 105, 140, 197, 297, 327]$

$h_{ab,dx}=[24, 105, 140, 197, 297, 327]$

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

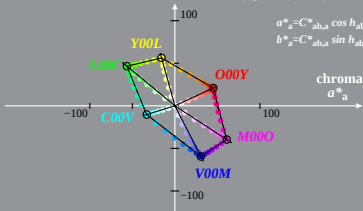
$$a^*_{\text{a}}=a^*-a^*_N-I^*_{lab^*}[a^*_W-a^*_N]$$

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

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

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

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



Linear relation CIELAB (L^* , a^* , b^*) and adapted (a) CIELAB ($C^*_{ab,a}$, L^*)
 System: JE29_sRGB display 40%_G0

CIELAB hue angles:

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

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

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

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

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

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

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

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

