

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

System: Laser printer

CIELAB hue angles:

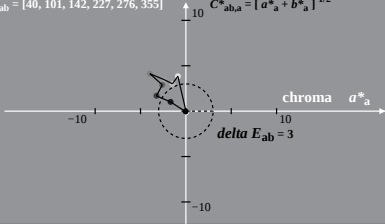
$h_{ab} = [40, 101, 142, 227, 276, 355]$

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

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

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

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



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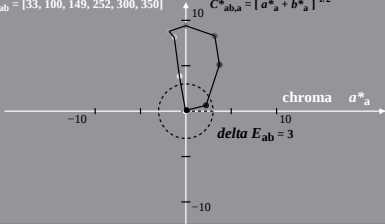
$$a^*_a = a^* - a^*_N - l^*_{lab^*} [a^*_W - a^*_N]$$

CIELAB hue angles:

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

$h_{ab} = [33, 100, 149, 252, 300, 350]$

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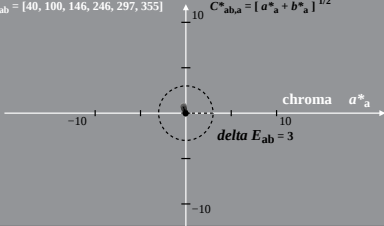
$h_{ab} = [40, 100, 146, 246, 297, 355]$

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CIELAB hue angles:

$h_{ab} = [39, 100, 147, 246, 297, 355]$

b^*_a

10

-10

chroma

a^*_a

-10

10

$\delta E_{ab} = 3$

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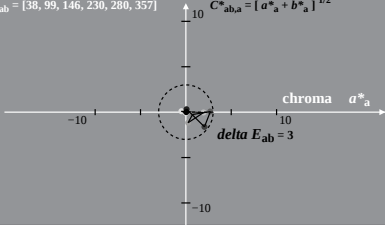
$h_{ab} = [38, 99, 146, 230, 280, 357]$

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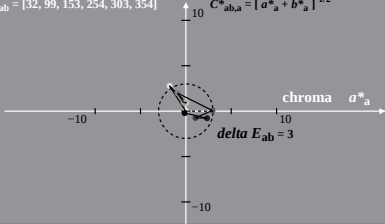
$h_{ab} = [32, 99, 153, 254, 303, 354]$

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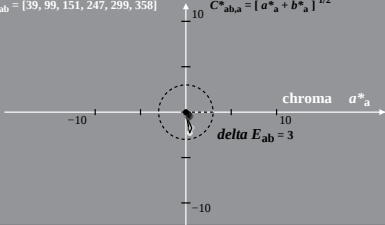
$h_{ab} = [39, 99, 151, 247, 299, 358]$

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