

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

System: Laser printer

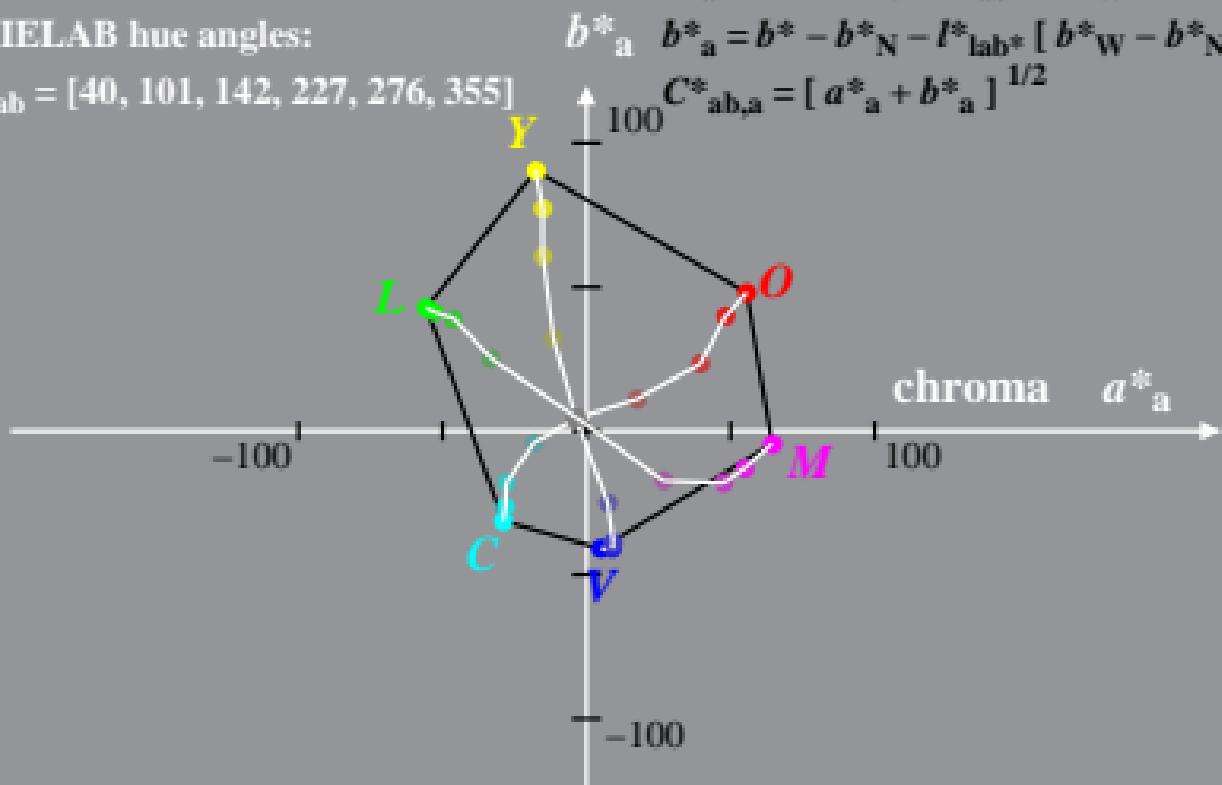
$$l^*_{lab*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

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

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

CIELAB hue angles:

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



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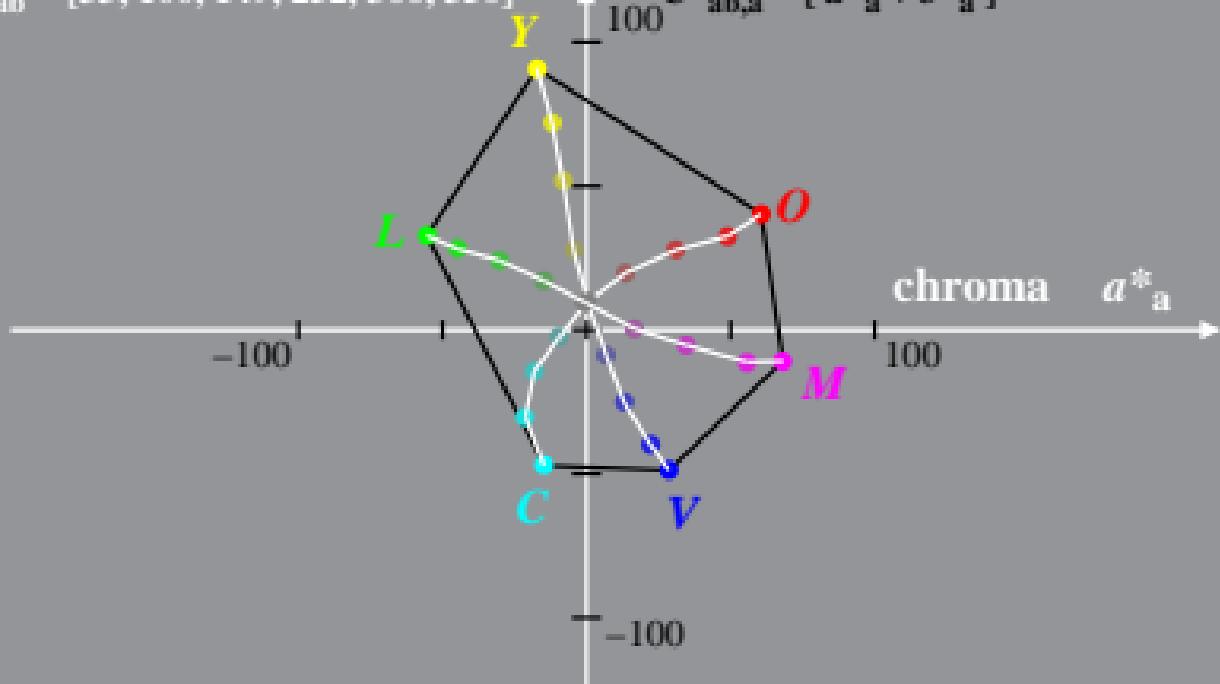
$$l^*_{lab*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

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

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CIELAB hue angles:

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



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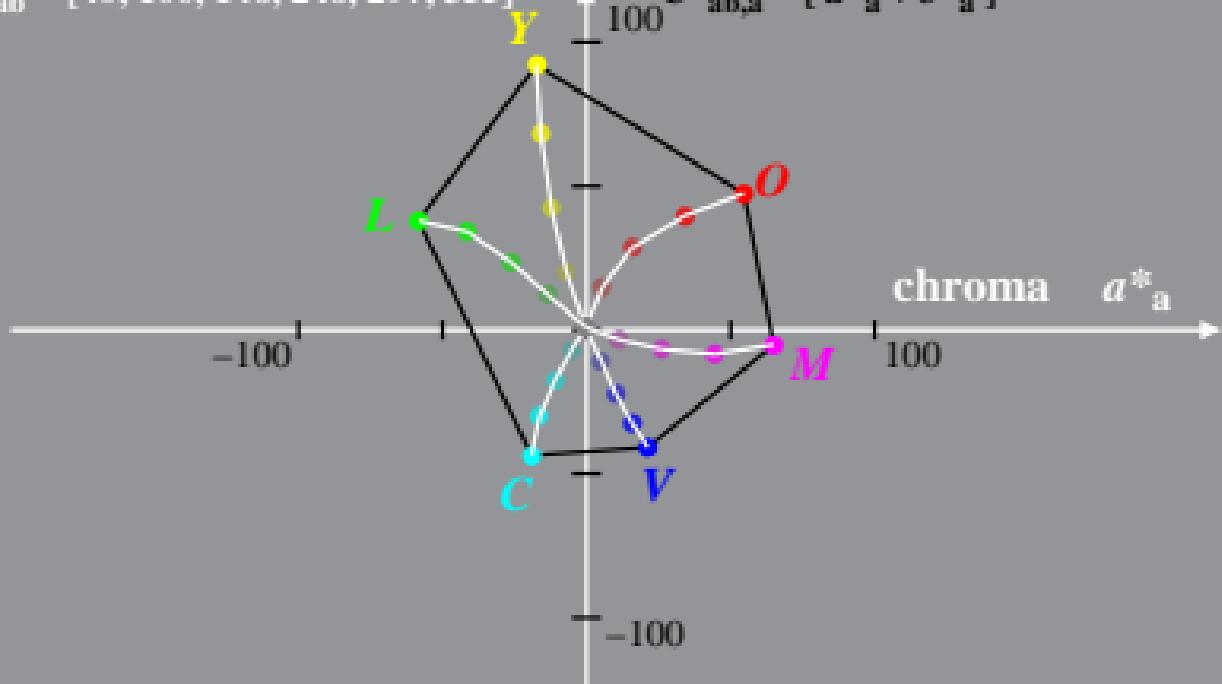
$$l^*_{lab*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

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

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

CIELAB hue angles:

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



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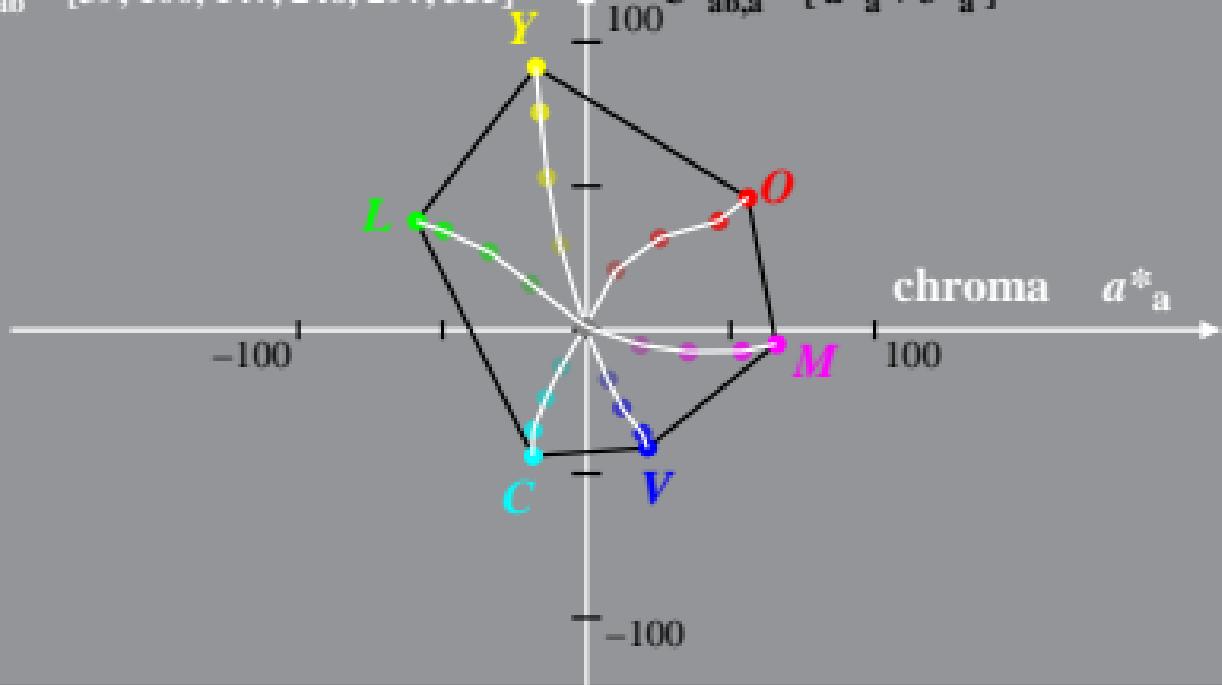
$$l^*_{lab*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

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

CIELAB hue angles:

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



Linear relation CIELAB (L^*, a^*, b^*) and adapted (a) CIELAB (C_{shg}^*, L^*)

System: Laser printer

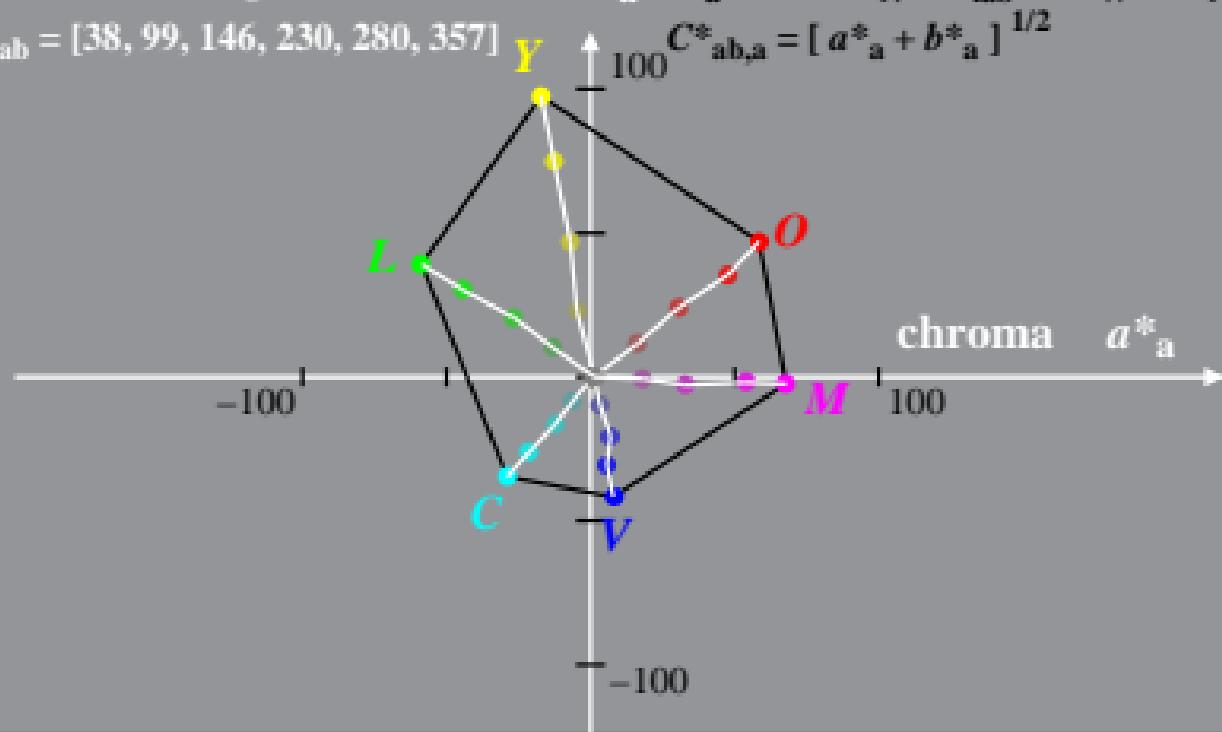
$$I^*_{\text{lab}*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

$$a^*_{-i} = a^* - a^*_N - l^*|_{\partial B^*} [a^*_W - a^*_N]$$

CIELAB hue angles:

$$b^*_{\text{S}_2} - b^*_{\text{S}_1} = b^* - b^*_{\text{N}} - l^*_{\text{S}_2 \text{S}_1} [b^*_{\text{W}} - b^*_{\text{N}}]$$

$$h_{ab} = [38, 99, 146, 230, 280, 357] \quad \mathbf{v} \quad \leftarrow \quad C^*_{ab,3} = [a^*_{ab} + b^*_{ab}]^{1/2}$$



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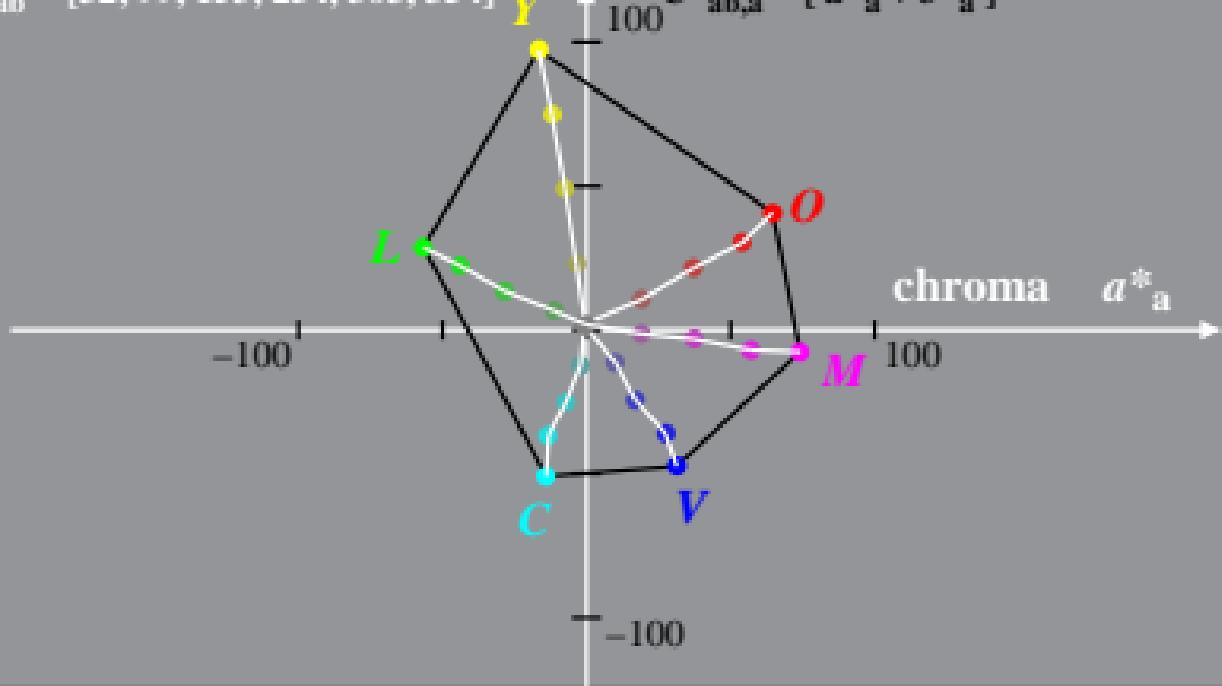
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CIELAB hue angles:

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



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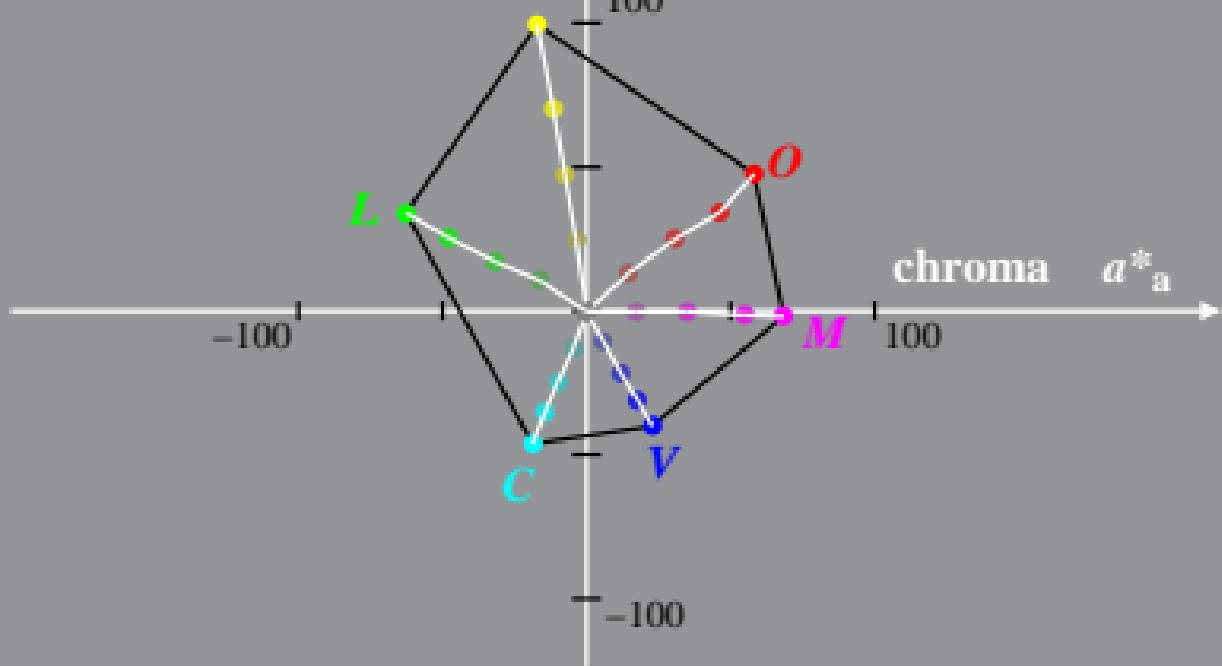
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CIELAB hue angles:

$$h_{ab} = [39, 99, 151, 247, 299, 358] \quad Y \quad 100 \quad C^*_{ab,a} = [a^*_{ab} + b^*_{ab}]^{1/2}$$



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