

Linear relation CIELAB (L^*, a^*, b^*) and adapted (a) CIELAB ($C^*_{ab,a}, L^*$) Offset Reflective System: ORS18a

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

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

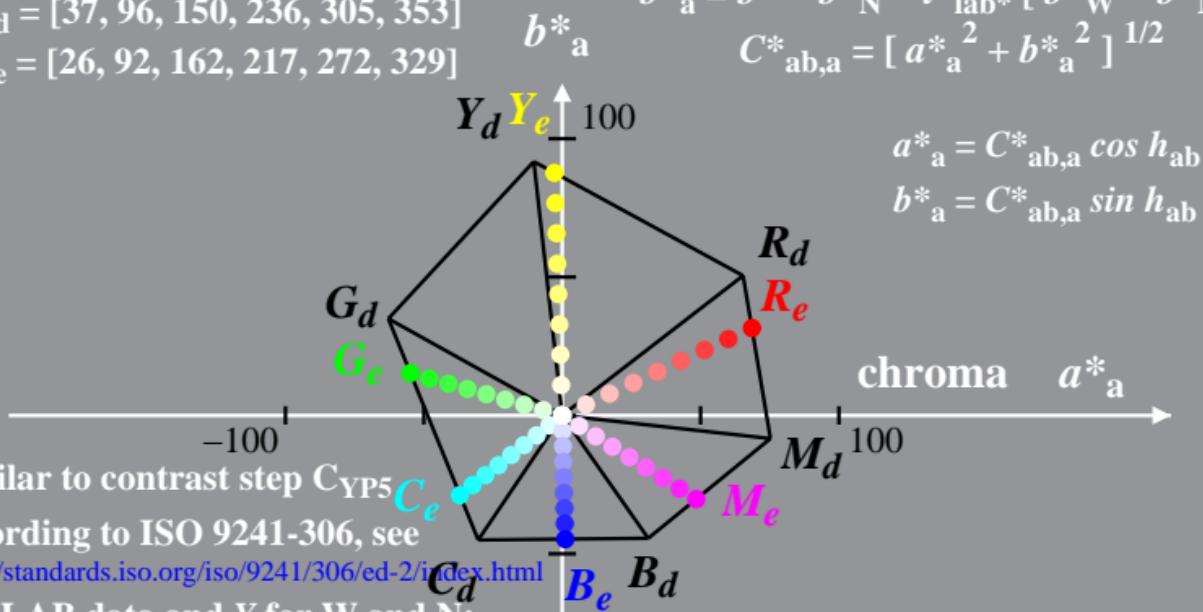
$$b^*_{ab} = b^* - b^*_N - l^*_{lab^*} [b^*_W - b^*_N]$$

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

CIELAB hue angles RYGCBM:

$$h_{ab,d} = [37, 96, 150, 236, 305, 353]$$

$$h_{ab,e} = [26, 92, 162, 217, 272, 329]$$



Similar to contrast step C_{YP5}

according to ISO 9241-306, see

<http://standards.iso.org/iso/9241/306/ed-2/index.html>

CIELAB data and Y for W and N:

$$(L^*, a^*, b^*, Y)_W = (95.41, -0.99, 4.76, 88.59)$$

$$(L^*, a^*, b^*, Y)_N = (18.01, 0.5, -0.47, 2.52)$$