

Linear relation CIELAB (L^*, a^*, b^*) and adapted (a) CIELAB ($C^*_{ab,a}, L^*$)
 Television Luminous System: TLS18a

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

$$a^*_{ab} = a^*$$

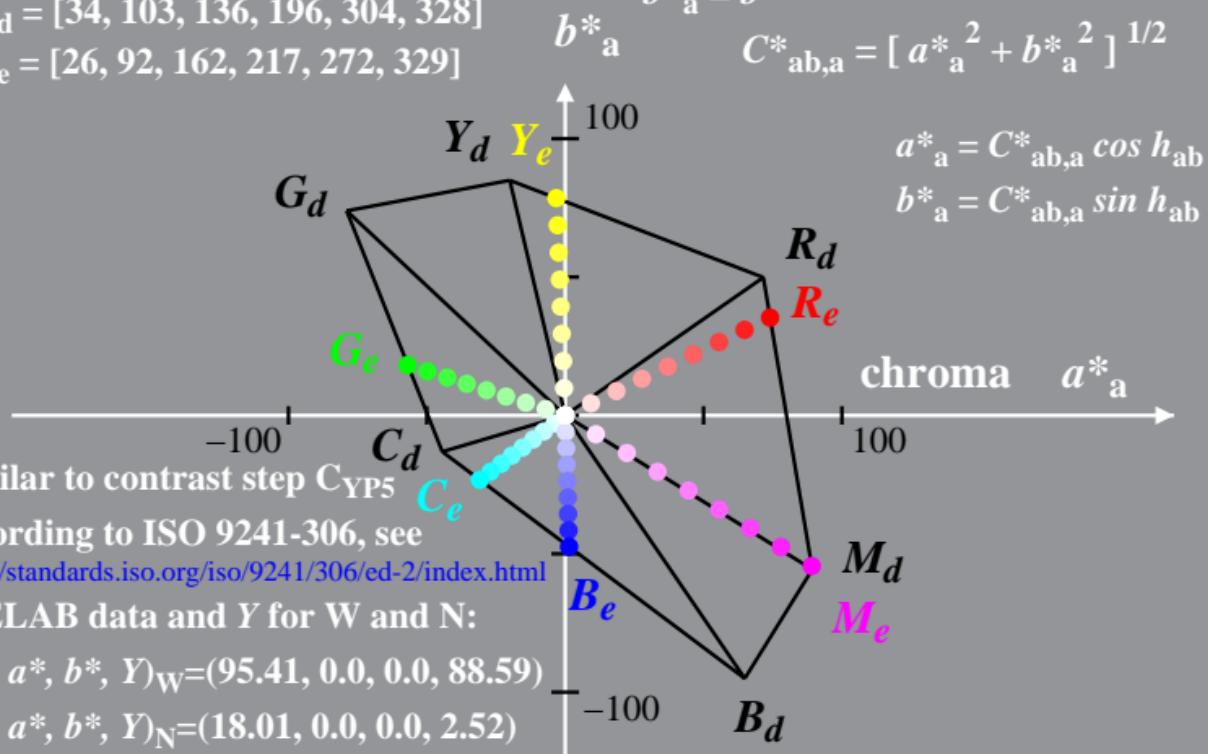
$$b^*_{ab} = b^*$$

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

CIELAB hue angles RYGCBM:

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

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



Similar to contrast step C_{YPS}
 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:

$$(L^*, a^*, b^*, Y)_W = (95.41, 0.0, 0.0, 88.59)$$

$$(L^*, a^*, b^*, Y)_N = (18.01, 0.0, 0.0, 2.52)$$