

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

System: GE87\_FRS09\_92\_D65\_00%\_00

$$l^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$$

$$t^*_{lab} = l^*_{lab} - c^*_{lab} [ l^*_M - 0,5 ]$$

CIELAB hue angles:

$$h_{ab,d} = [34, 92, 143, 226, 312, 337]$$

$$b^*_{lab}$$

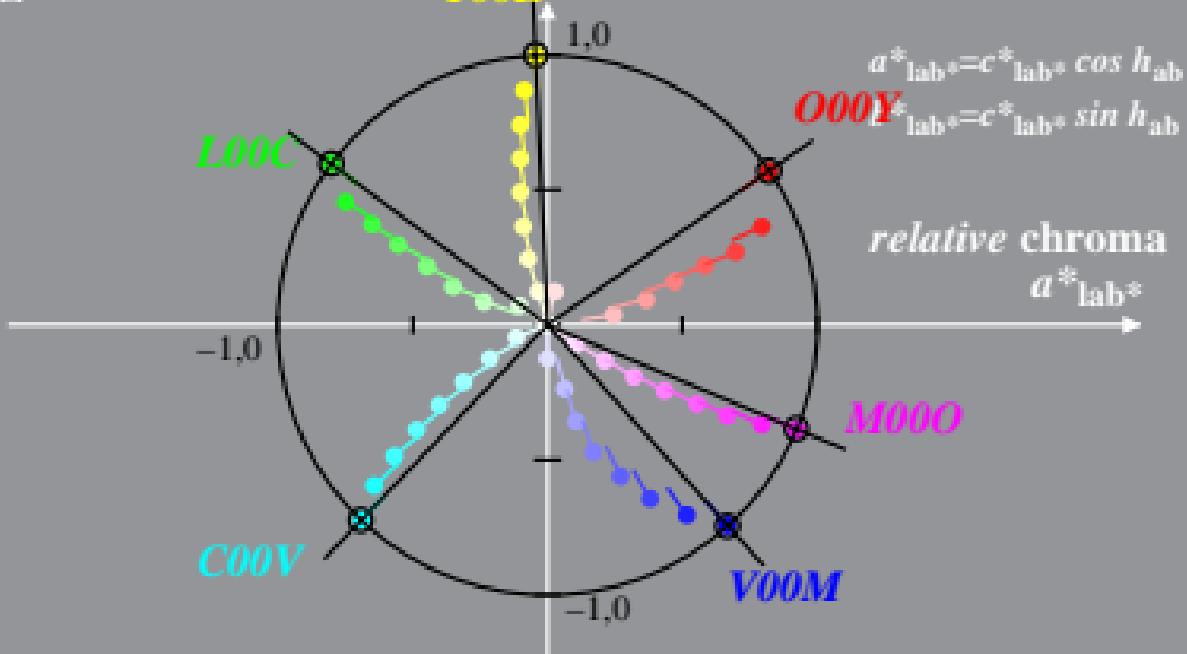
$$c^*_{lab}$$

$$C^*_{ab,a} / C^*_{ab,a,M}$$

$M$ =Maximum colour

$$h_{ab,dx} = [38, 96, 151, 236, 305, 354]$$

Y00L



Linear relation adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*$ ,  $t^*$ )  
 System: GE87\_FRS09\_92\_D65\_00%\_01       $I^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$

CIELAB hue angles:

$$h_{ab,d} = [34, 92, 143, 226, 312, 337]$$

$$h_{ab,dx} = [38, 96, 151, 236, 305, 354] \text{ Y00L}$$

$$b^*_{lab^*}$$

$$c^*_{lab^*}$$

$$t^*_{lab^*} = I^*_{lab^*} - c^*_{lab^*} [ I^*_M - 0,5 ]$$

$$C^*_{ab,a} / C^*_{ab,a,M}$$

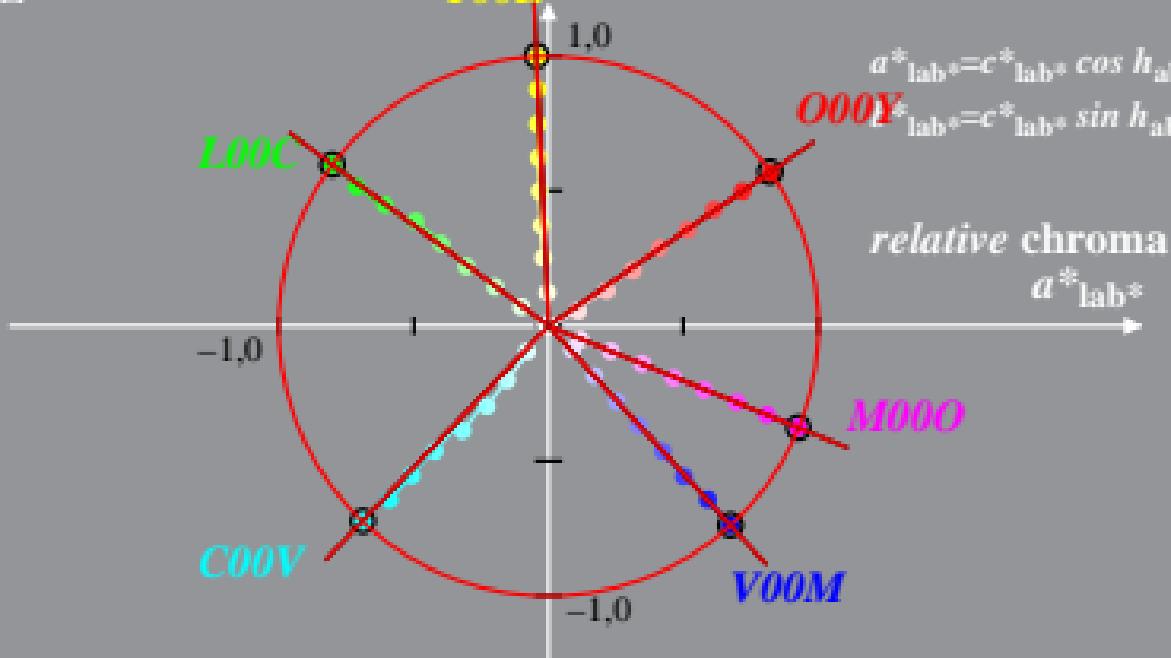
$M$ =Maximum colour

$$a^*_{lab^*} = c^*_{lab^*} \cos h_{ab}$$

$$O00Y_{lab^*} = c^*_{lab^*} \sin h_{ab}$$

relative chroma

$$a^*_{lab^*}$$



Linear relation adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*$ ,  $t^*$ )  
 System: GE87\_FRS09\_92\_D65\_25%\_O0

$$l^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$$

$$t^*_{lab^*} = l^*_{lab^*} - c^*_{lab^*} [ l^*_M - 0,5 ]$$

CIELAB hue angles:

$$h_{ab,d} = [34, 92, 143, 226, 312, 337]$$

$$b^*_{lab^*}$$

$$c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$$

$M$ =Maximum colour

$Y25Y00L$

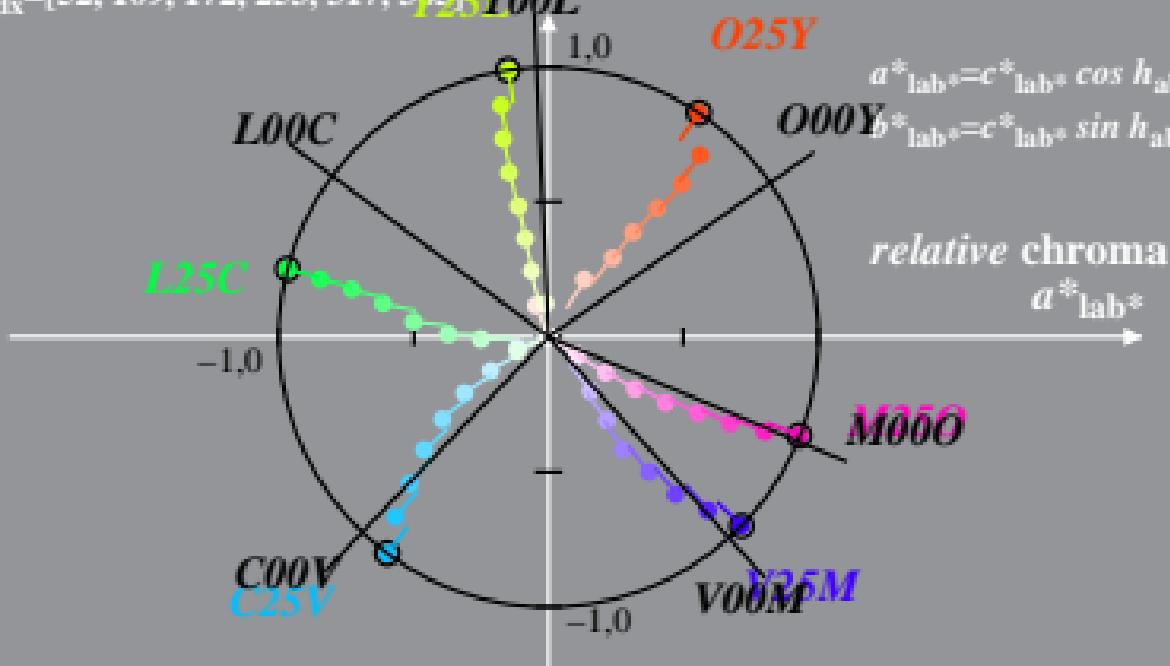
$O25Y$

$$a^*_{lab^*} = c^*_{lab^*} \cos h_{ab}$$

$$b^*_{lab^*} = c^*_{lab^*} \sin h_{ab}$$

relative chroma

$$a^*_{lab^*}$$



Linear relation adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*$ ,  $t^*$ )  
 System: GE87\_FRS09\_92\_D65\_25%\_O1       $I^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$

CIELAB hue angles:

$$h_{ab,d} = [34, 92, 143, 226, 312, 337]$$

$$h_{ab,dx} = [52, 109, 172, 253, 317, 365]$$

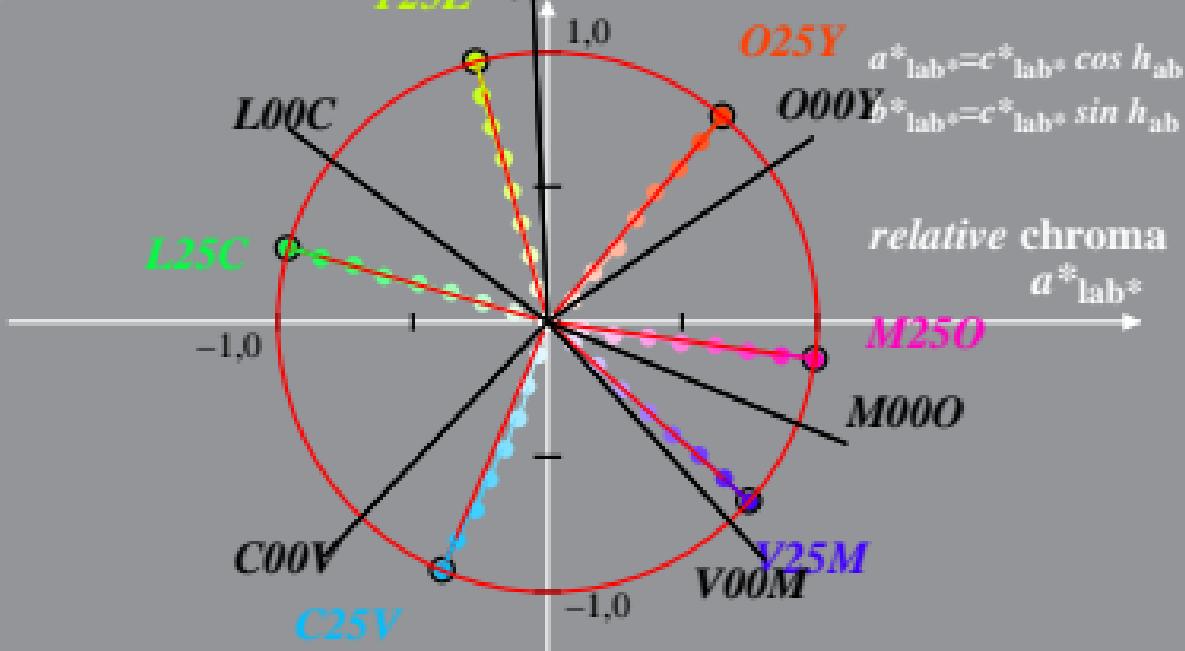
$$b^*_{lab^*}$$

$$t^*_{lab^*} = I^*_{lab^*} - c^*_{lab^*} [ I^*_M - 0,5 ]$$

$$c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$$

$M$ =Maximum colour

$Y25L$



Linear relation adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*$ ,  $t^*$ )  
 System: GE87\_FRS09\_92\_D65\_50%\_O0

$$l^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$$

$$t^*_{lab^*} = l^*_{lab^*} - c^*_{lab^*} [ l^*_M - 0,5 ]$$

CIELAB hue angles:

$$h_{ab,d} = [34, 92, 143, 226, 312, 337]$$

$$h_{ab,dx} = [67, 123, 193, 270, 329, 376] \quad Y00L \quad O50Y = \text{Maximum colour}$$

$$b^*_{lab^*} \quad c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$$

**Y50L**

**Y00L**

**O50Y**

**L00C**

**O00Y**

**M50O**

**M00O**

**L50C**

$a^*_{lab^*}$

**C00V**

$b^*_{lab^*}$

**C50V**

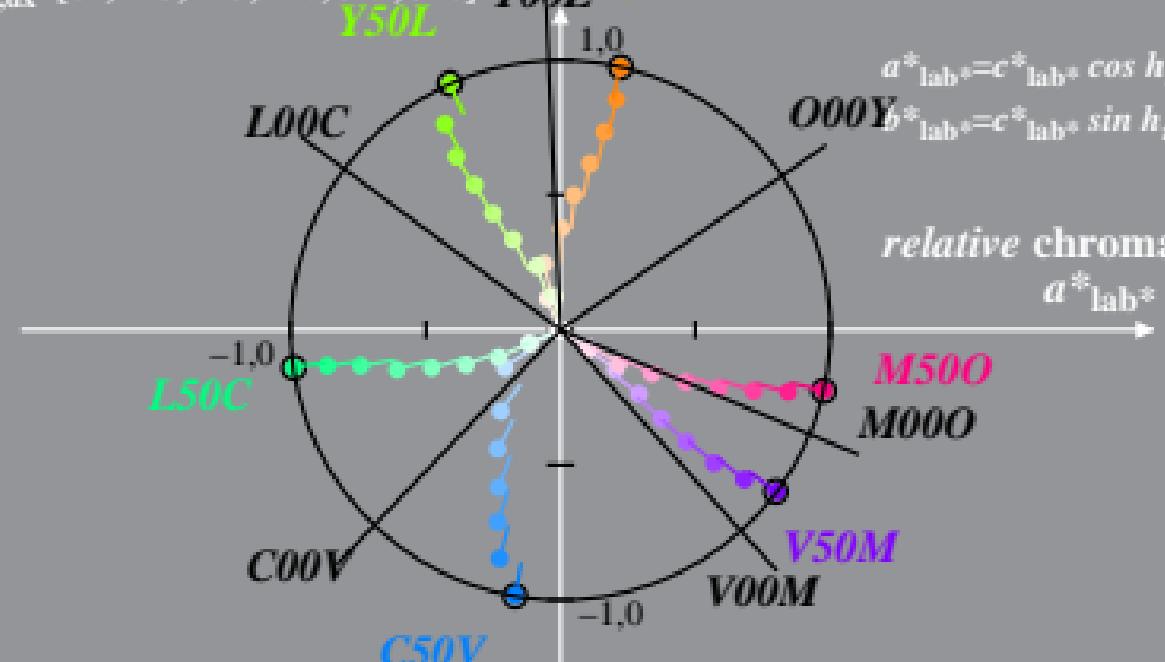
**V50M**

**V00M**

$$a^*_{lab^*} = c^*_{lab^*} \cos h_{ab}$$

$$b^*_{lab^*} = c^*_{lab^*} \sin h_{ab}$$

*relative chroma*



Linear relation adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*$ ,  $t^*$ )  
 System: GE87\_FRS09\_92\_D65\_50%\_O1       $I^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$

CIELAB hue angles:

$$h_{ab,d} = [34, 92, 143, 226, 312, 337]$$

$$h_{ab,dx} = [67, 123, 193, 270, 329, 376]$$

$$b^*_{lab^*}$$

$$t^*_{lab^*} = I^*_{lab^*} - c^*_{lab^*} [ I^*_M - 0,5 ]$$

$$c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$$

$M$ =Maximum colour

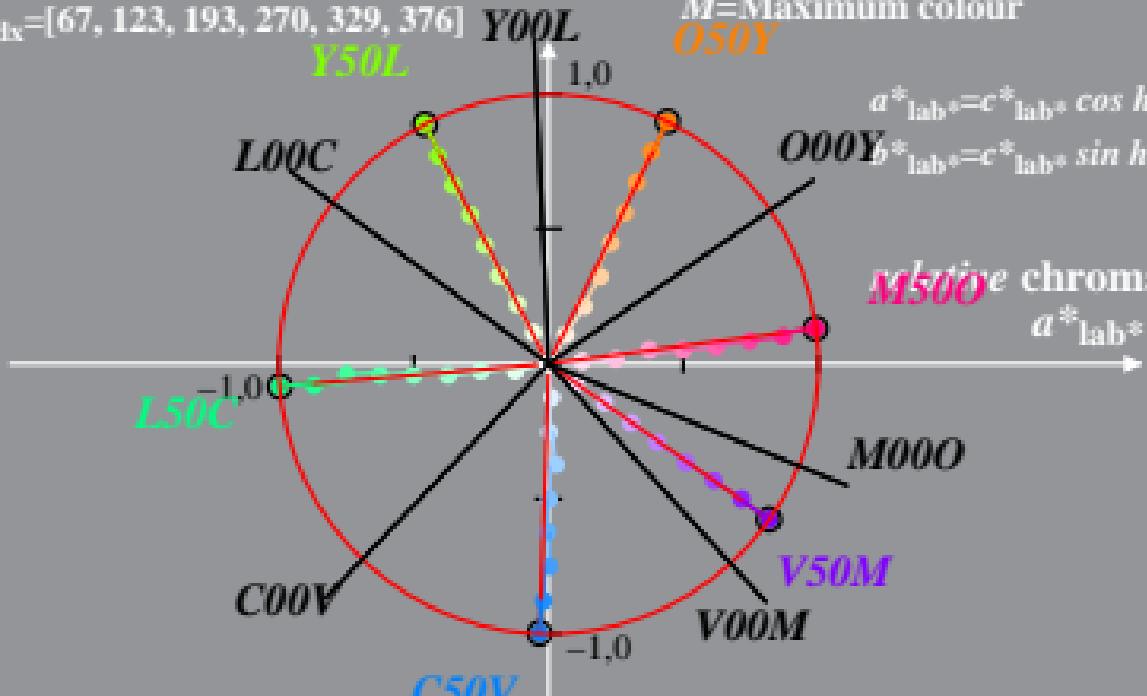
$O50Y$

$$a^*_{lab^*} = c^*_{lab^*} \cos h_{ab}$$

$$b^*_{lab^*} = c^*_{lab^*} \sin h_{ab}$$

$M500e$  chroma

$$a^*_{lab^*}$$



Linear relation adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*$ ,  $t^*$ )  
 System: GE87\_FRS09\_92\_D65\_75%\_O0

$$l^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$$

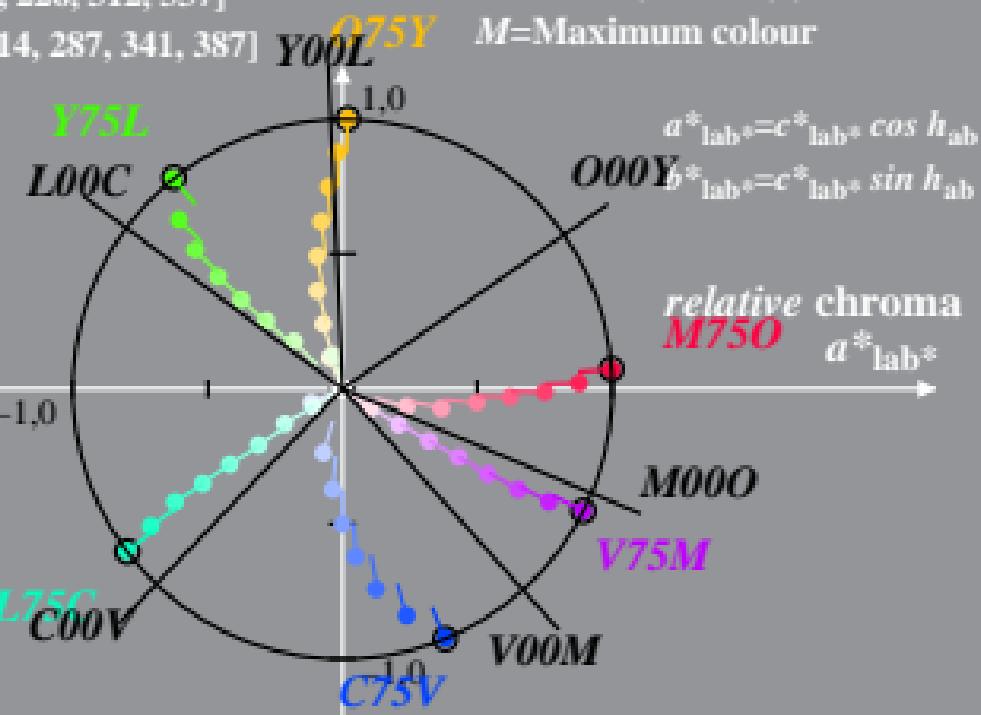
$$t^*_{lab^*} = l^*_{lab^*} - c^*_{lab^*} [ l^*_M - 0,5 ]$$

CIELAB hue angles:

$$h_{ab,d} = [34, 92, 143, 226, 312, 337]$$

$$h_{ab,dx} = [81, 137, 214, 287, 341, 387] \quad Y75Y \quad M=\text{Maximum colour}$$

$$b^*_{lab^*} \quad c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$$



Linear relation adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*$ ) and relative CIELAB ( $c^*$ ,  $t^*$ )  
 System: GE87\_FRS09\_92\_D65\_75%\_01

$$l^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$$

$$t^*_{lab^*} = l^*_{lab^*} - c^*_{lab^*} [ l^*_M - 0,5 ]$$

CIELAB hue angles:

$$h_{ab,d} = [34, 92, 143, 226, 312, 337]$$

$$b^*_{lab^*} \quad c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$$

$$h_{ab,dx} = [81, 137, 214, 287, 341, 387] \quad Y00L \quad O75Y = \text{Maximum colour}$$

