

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

System: GE83_HRS16_96_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:

$$h_{ab,d} = [34, 99, 152, 232, 299, 349]$$

$$h_{ab,dx} = [38, 96, 151, 236, 305, 350]$$

$$b^*_{lab}$$

$$c^*_{lab}$$

M =Maximum colour

Y00L

L00C

C00V

V00M

M000

000Y

a*_{lab}

c*_{lab}

relative chroma

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

System: GE83_HRS16_96_D65_00%_O1

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

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

CIELAB hue angles:

$$h_{ab,d} = [34, 99, 152, 232, 299, 349]$$

$$b^*_{lab}$$

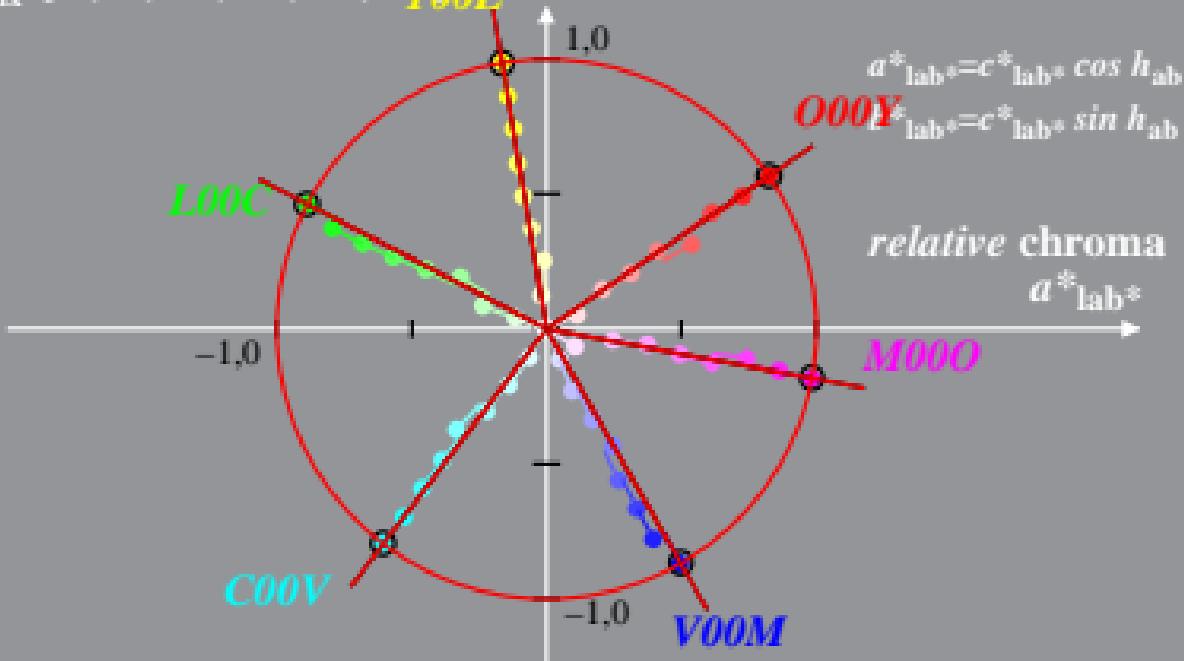
$$c^*_{lab}$$

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

M =Maximum colour

$$h_{ab,dx} = [38, 96, 151, 236, 305, 350]$$

Y00L



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

System: GE83_HRS16_96_D65_25%_00

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

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

CIELAB hue angles:

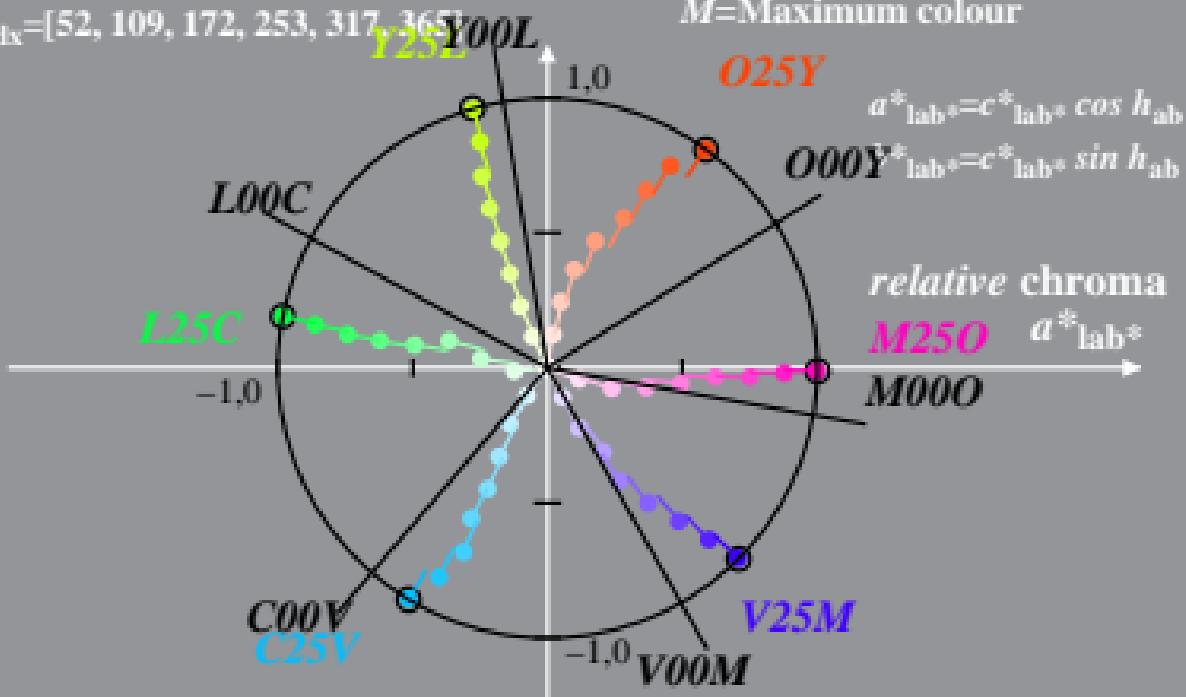
$$h_{ab,d} = [34, 99, 152, 232, 299, 349]$$

$$b^*_{lab}$$

$$c^*_{lab}$$

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

M =Maximum colour



Linear relation adapted (a) CIELAB ($C^*_{ab,a}$, L^*) and relative CIELAB (c^* , t^*)
 System: GE83_HRS16_96_D65_25%_O1 $I^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$

CIELAB hue angles:

$$h_{ab,d} = [34, 99, 152, 232, 299, 349]$$

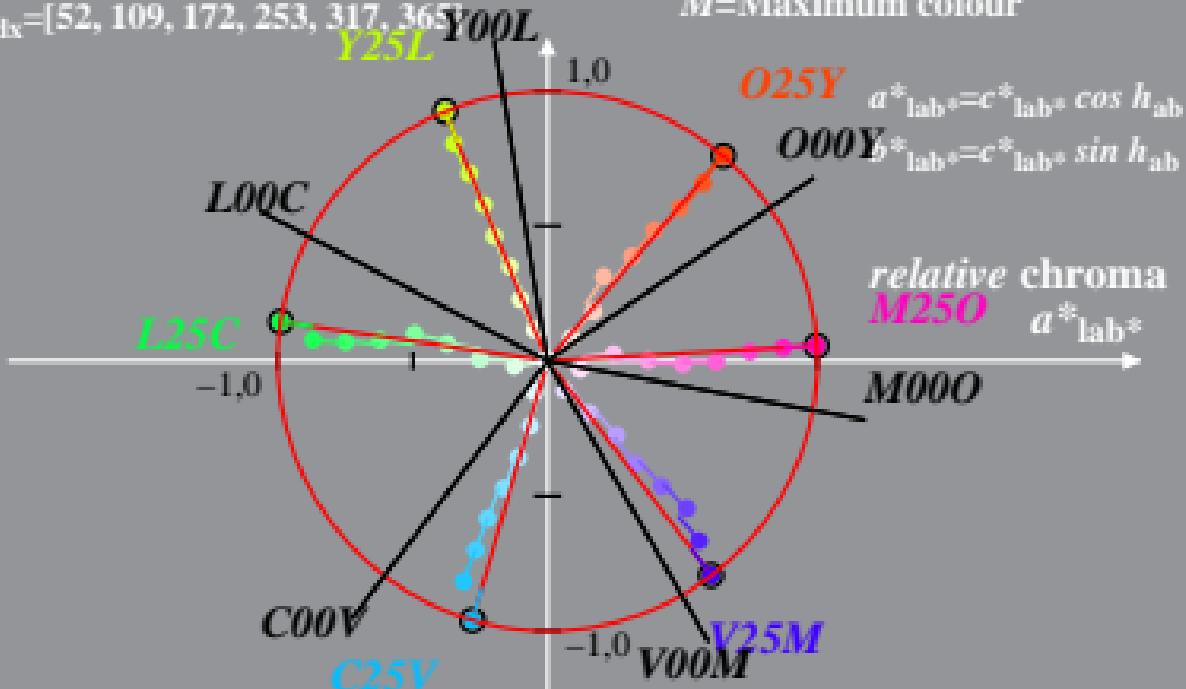
$$h_{ab,dx} = [52, 109, 172, 253, 317, 365]$$

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

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

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

M =Maximum colour



Linear relation adapted (a) CIELAB ($C^*_{ab,a}$, L^*) and relative CIELAB (c^* , t^*)
 System: GE83_HRS16_96_D65_50%_00

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

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

CIELAB hue angles:

$$h_{ab,d} = [34, 99, 152, 232, 299, 349]$$

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

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

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

$O50Y$ - Maximum colour

$Y50L$

$Y00L$

$Y50L$

$1,0$

$-1,0$

$L00C$

$O00Y$

$1,0$

$-1,0$

$L50C$

$M50O$

$1,0$

$-1,0$

$C00V$

$M000$

$1,0$

$-1,0$

$C50V$

$V00M$

$1,0$

$-1,0$

$V50M$

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

$$h_{ab,d} = [34, 99, 152, 232, 299, 349]$$

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

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

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

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

M =Maximum colour
 $O50Y$

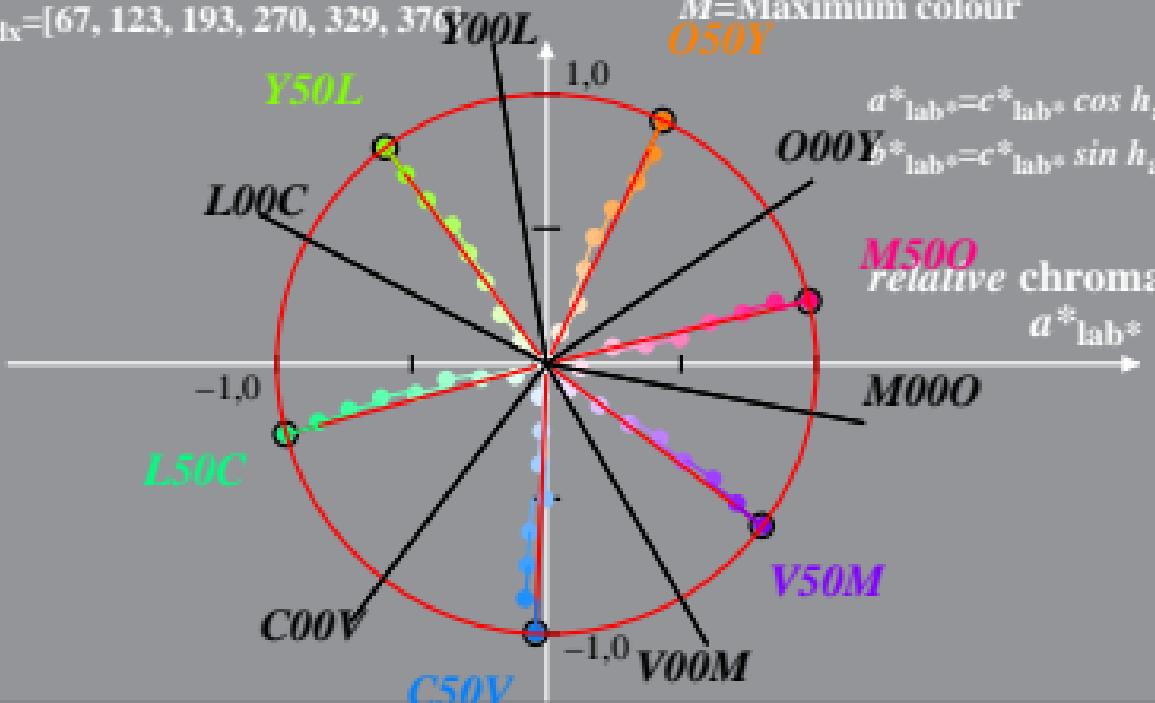
$$a^*_{lab^*} = c^*_{lab^*} \cos h_{ab}$$

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

$M50O$
 relative chroma

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

$M000$



Linear relation adapted (a) CIELAB ($C^*_{ab,a}$, L^*) and relative CIELAB (c^* , t^*)
 System: GE83_HRS16_96_D65_75%_00

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

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

CIELAB hue angles:

$$h_{ab,d} = [34, 99, 152, 232, 299, 349]$$

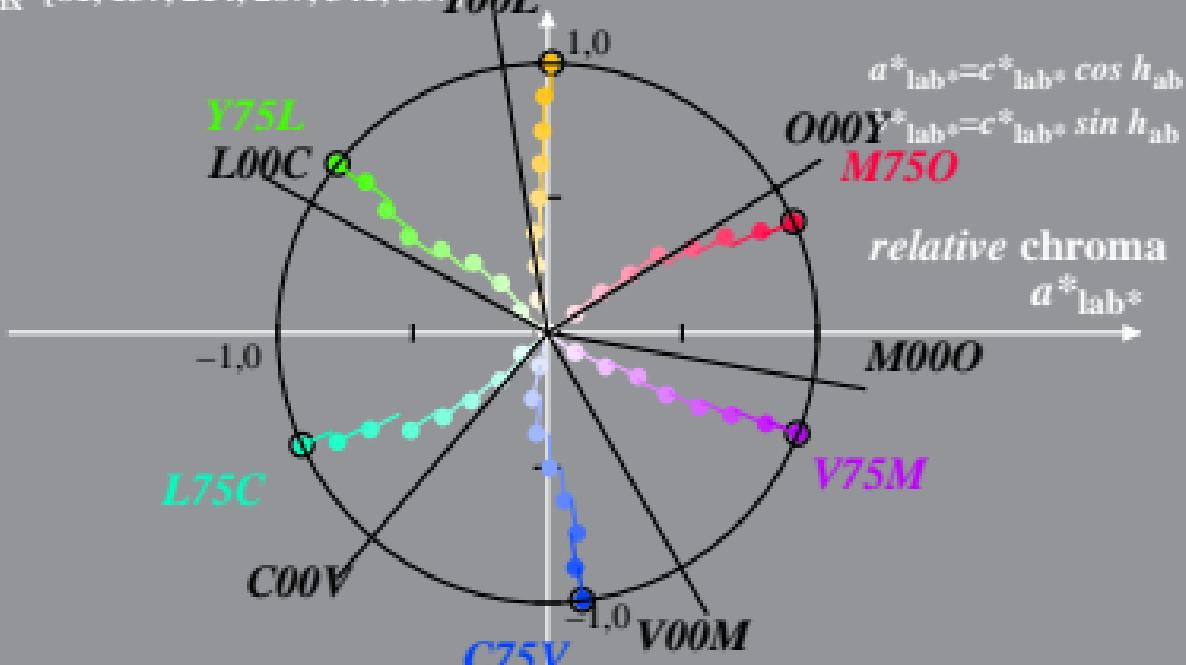
$$h_{ab,dx} = [81, 137, 214, 287, 341, 387]$$

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

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

$Y00L$ $O75Y$

M =Maximum colour



Linear relation adapted (a) CIELAB ($C^*_{ab,a}$, L^*) and relative CIELAB (c^* , t^*)
 System: GE83_HRS16_96_D65_75%_01 $I^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$

CIELAB hue angles:

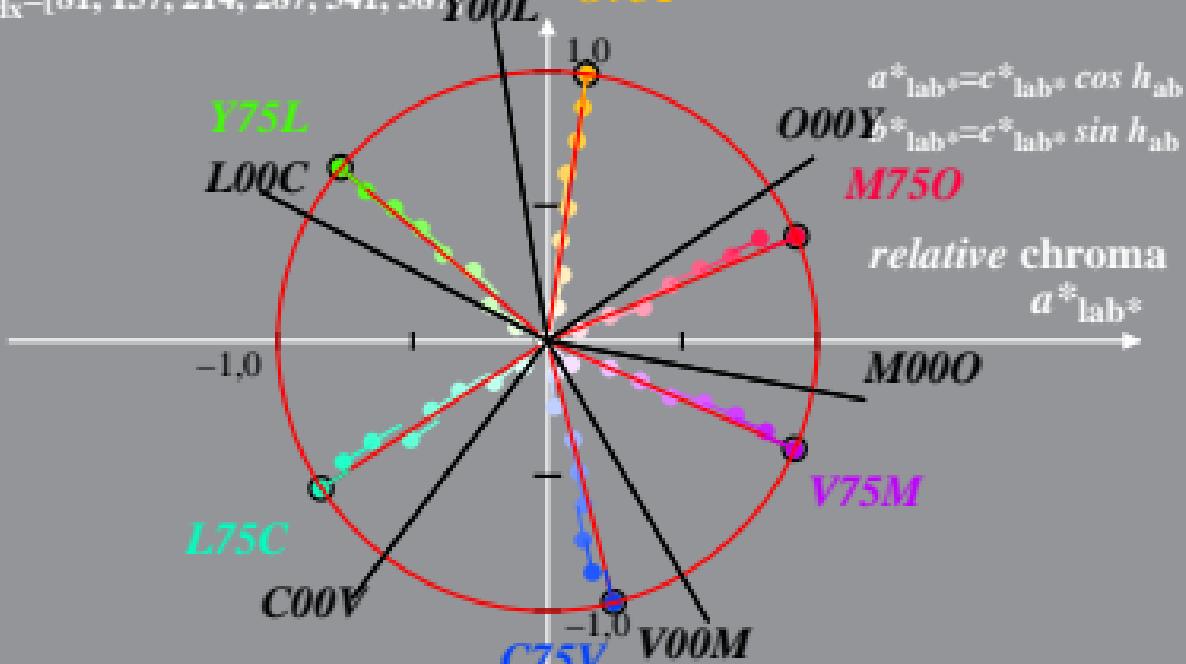
$$h_{ab,d} = [34, 99, 152, 232, 299, 349]$$

$$h_{ab,dx} = [81, 137, 214, 287, 341, 387]$$

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

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

$O75Y$ = Maximum colour



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

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

$M75O$

relative chroma

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

$M000$

$V75M$