

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

System: GE84_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:

$$h_{ab,d} = [33, 100, 154, 227, 295, 347]$$

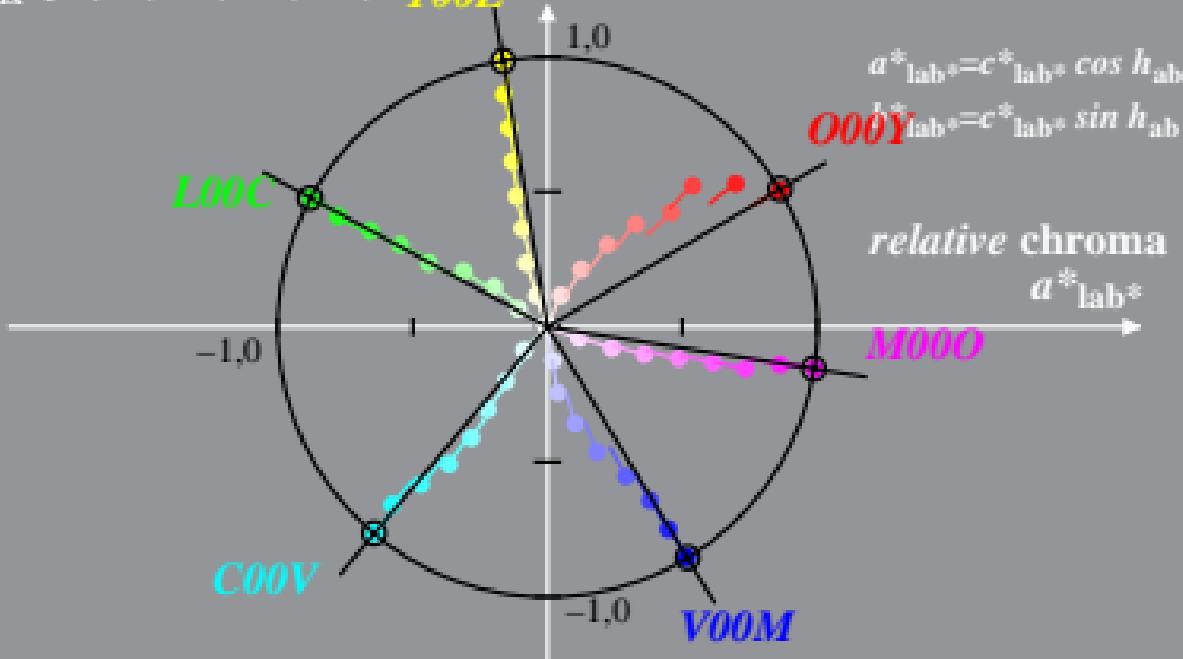
$$h_{ab,dx} = [38, 96, 151, 236, 305, 350]$$

$$b^*_{lab}$$

$$c^*_{lab}$$

M =Maximum colour

Y00L



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

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

relative chroma

$$a^*_{lab}$$

M00O

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

System: GE84_HRS16_96_D65_00%_01

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

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

CIELAB hue angles:

$$h_{ab,d} = [33, 100, 154, 227, 295, 347]$$

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

$$b^*_{lab}$$

$$c^*_{lab}$$

M =Maximum colour

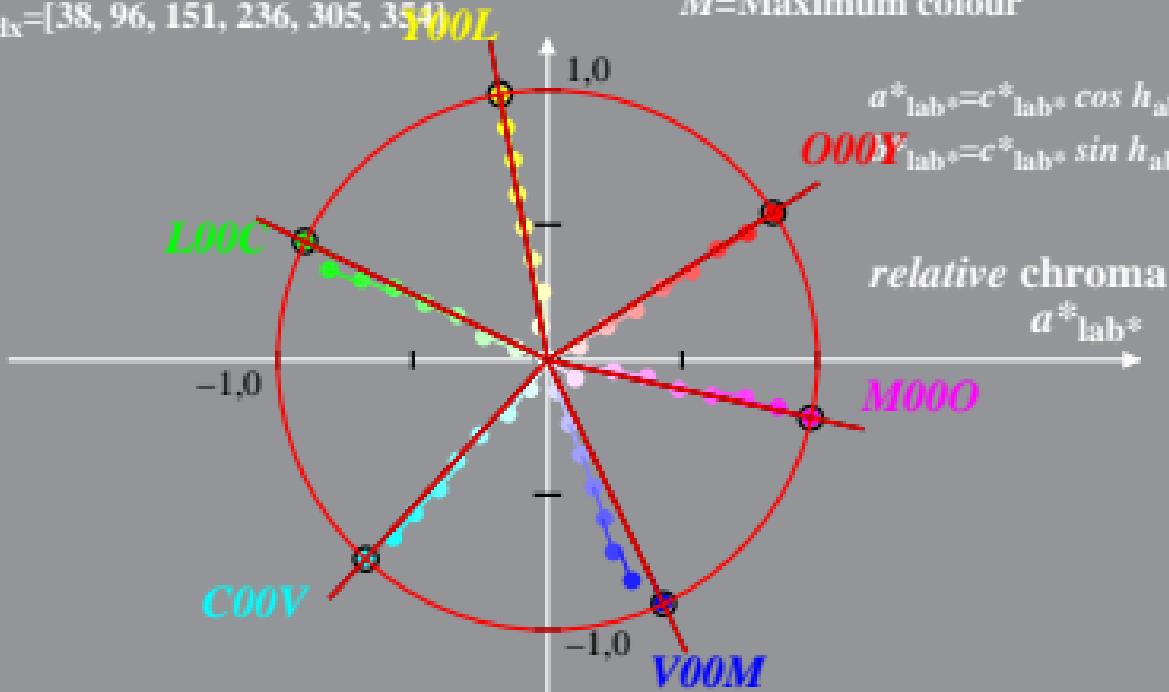
$$a^*_{lab} = c^*_{lab} \cos h_{ab}$$

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

relative chroma

$$a^*_{lab}$$

$M000$



Linear relation adapted (a) CIELAB ($C^*_{ab,a}$, L^*) and relative CIELAB (c^* , t^*)
 System: GE84_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:

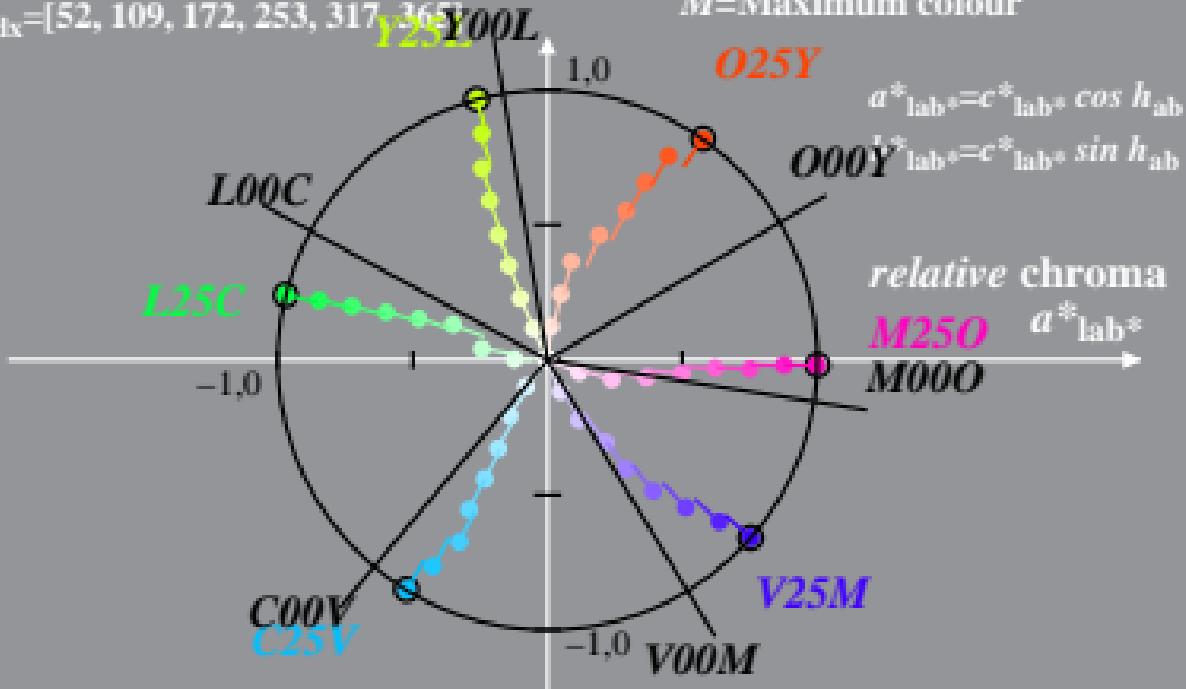
$$h_{ab,d} = [33, 100, 154, 227, 295, 347]$$

$$h_{ab,dx} = [52, 109, 172, 253, 317, 367]$$

$$b^*_{lab}$$

$$c^*_{lab}$$

M =Maximum colour



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

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

relative chroma

$$M25O \quad a^*_{lab}$$

$$M000$$

Linear relation adapted (a) CIELAB ($C^*_{ab,a}$, L^*) and relative CIELAB (c^* , t^*)
 System: GE84_HRS16_96_D65_25%_O1 $I^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$

CIELAB hue angles:

$$h_{ab,d} = [33, 100, 154, 227, 295, 347]$$

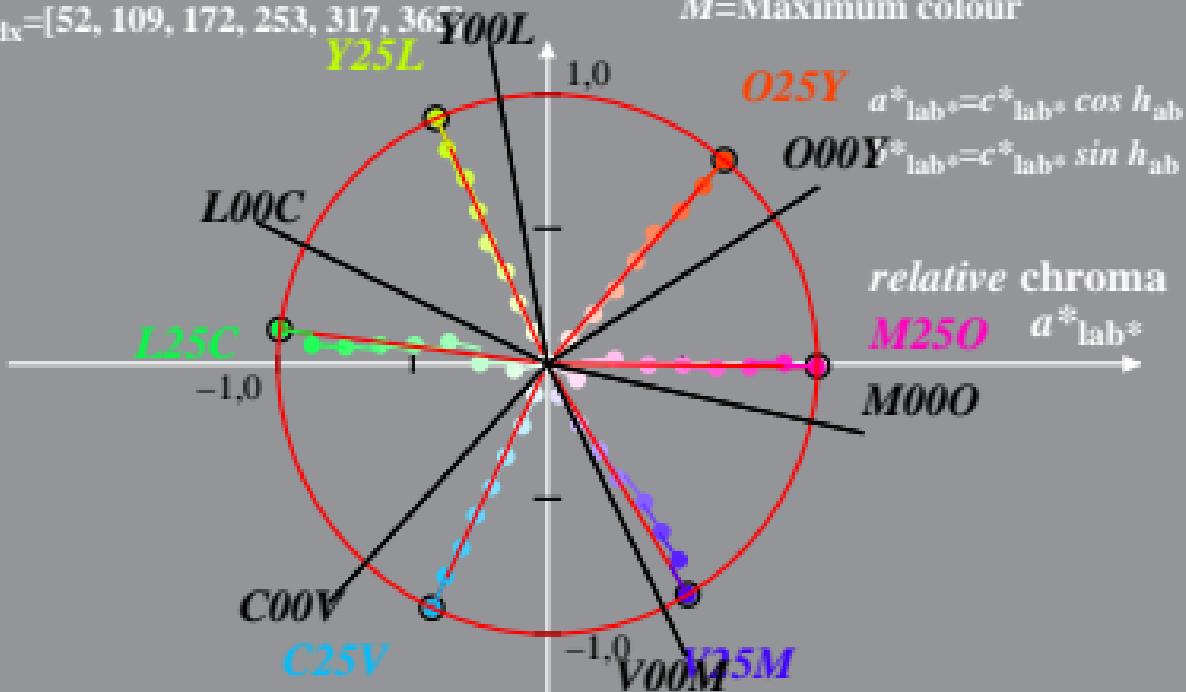
$$h_{ab,dx} = [52, 109, 172, 253, 317, 365]$$

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

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

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

M =Maximum colour



Linear relation adapted (a) CIELAB ($C^*_{ab,a}$, L^*) and relative CIELAB (c^* , t^*)
 System: GE84_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:

$$h_{ab,d} = [33, 100, 154, 227, 295, 347]$$

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

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

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

M =Maximum colour

$Y00L$

$Y50L$

$L00C$

$L50C$

$C00V$

$C50V$

$O50Y$

$O00Y$

$M50O$

$M000$

$V50M$

relative chroma

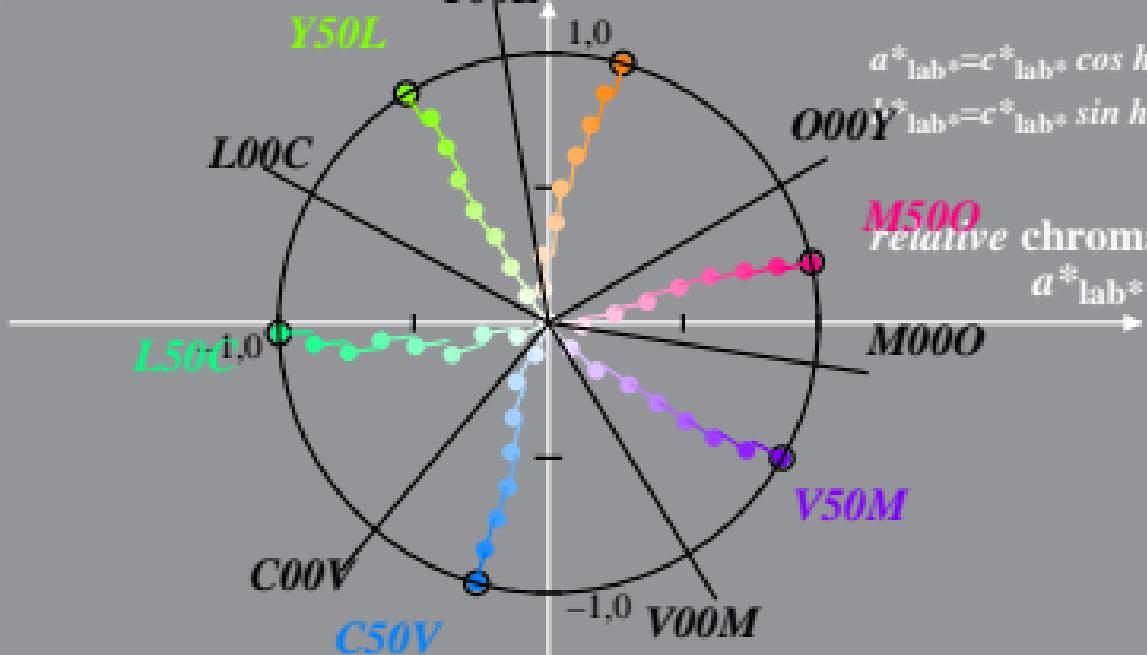
$a^*_{lab^*}$

1,0

-1,0

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

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



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

System: GE84_HRS16_96_D65_50%_O1

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

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

CIELAB hue angles:

$$h_{ab,d} = [33, 100, 154, 227, 295, 347]$$

$$h_{ab,dx} = [67, 123, 193, 270, 329, 370]$$

$$b^*_{lab}$$

$$c^*_{lab}$$

M =Maximum colour

$O50Y$

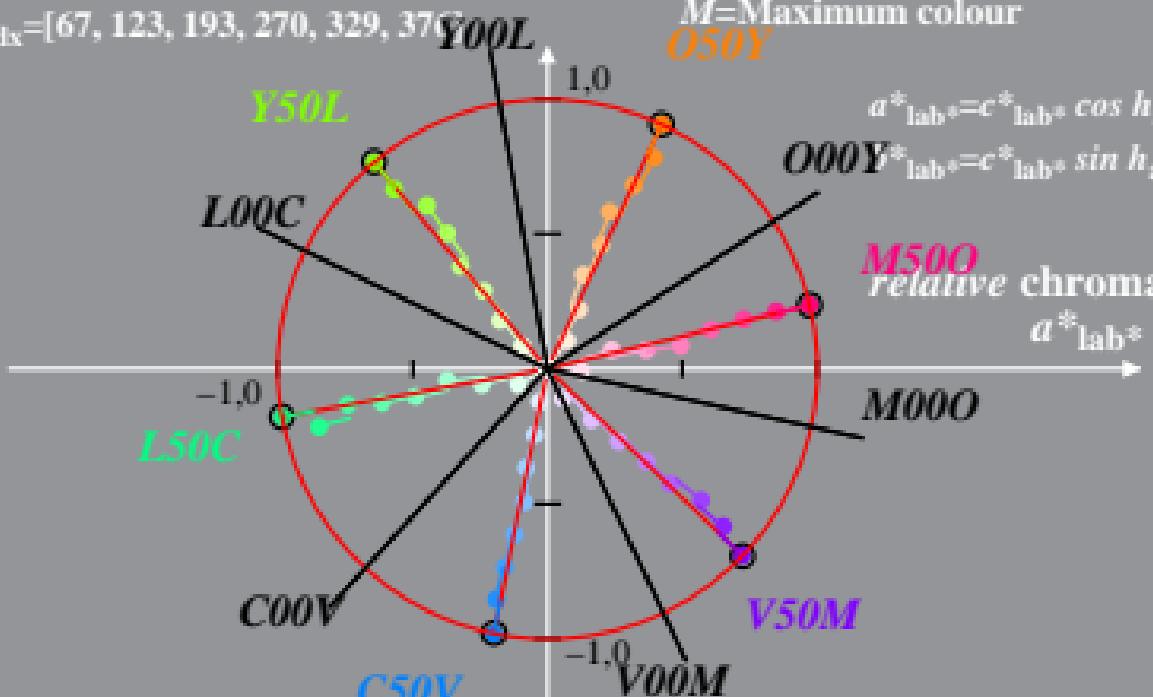
$$a^*_{lab} = c^*_{lab} \cos h_{ab}$$

$$O00Y^*_{lab} = c^*_{lab} \sin h_{ab}$$

$M50O$
relative chroma

$$a^*_{lab}$$

$M000$



Linear relation adapted (a) CIELAB ($C^*_{ab,a}$, L^*) and relative CIELAB (c^* , t^*)
 System: GE84_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:

$$h_{ab,d} = [33, 100, 154, 227, 295, 347]$$

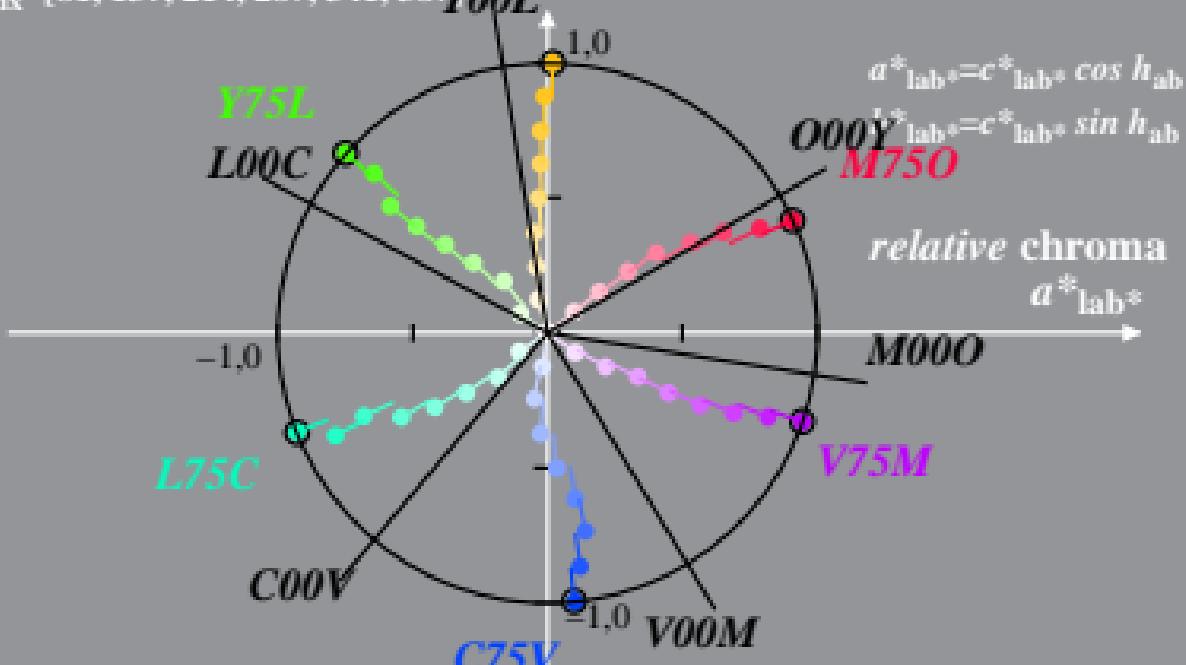
$$h_{ab,dx} = [81, 137, 214, 287, 341, 387]$$

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

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

$Y00L$ $O75Y$

M =Maximum colour



Linear relation adapted (a) CIELAB ($C^*_{ab,a}$, L^*) and relative CIELAB (c^* , t^*)
 System: GE84_HRS16_96_D65_75%_01 $I^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$

CIELAB hue angles:

$$h_{ab,d} = [33, 100, 154, 227, 295, 347]$$

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

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

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

$O75Y$ M=Maximum colour
 $Y00L$

