Linear relation *adapted (a)* CIELAB ($C^*_{ab,a}$, L^*) and *relative* CIELAB (c^*, t^*)
System: HE82_HRS16_96_D65_00%_O0
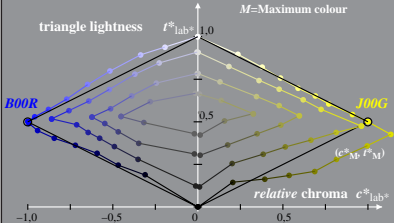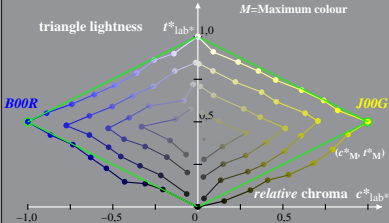
Hue: h^*_{J00G}=92/360; h^*_{B00R}=272/360

t^*_M=(L^*_W − L^*_N) / (L^*_W − L^*_N)
t^*_{lab*}=t^*_{lab*} − c^*_{lab*} [t^*_M − 0,5]
c^*_{lab*}=$C^*_{ab,a}$ / $C^*_{ab,a,M}$
M=Maximum colour

triangle lightness

t^*_{lab*} 1,0

B00R

0,5

J00G

($c^*_M \cdot t^*_M$)

relative chroma c^*_{lab*}

−1,0   −0,5   0   0,5

HE821−2A, 1; cf1=0.90; nt=0.18; nx=1.0

Linear relation *adapted (a)* CIELAB (*C*_{ab,a}*, *L**) and *relative* CIELAB (*c**, *t**)
System: HE82_HRS16_96_D65_00%_OI

Hue: h^*_{J00G}=92/360; h^*_{B00R}=272/360

$$P_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$$
$$c^*_{lab^*} = t^*_{lab^*} - c^*_{lab^*} \; [\, t^*_M - 0.5 \,]$$
$$c^*_{lab^*} = t^*_{lab^*} / C^*_{ab,a,M}$$
$$M = \text{Maximum colour}$$

triangle lightness $t^*_{lab^*}$ 1,0

B00R   **J00G**

0,5

(c^*_{M}, t^*_{M})

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

−1,0   −0,5   0   0,5

HE821−2A, 2; cf1=0.90; nt=0.18; nx=1.0

Linear relation *adapted (a)* CIELAB (*C*_{ab,a}*, *L**) and *relative* CIELAB (*c**, *t**)
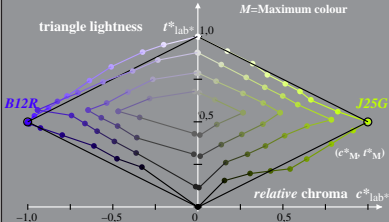System: HE82_HRS16_96_D65_25%_OO
Hue: *h*_{J25G}*=109/360; *h*_{B12R}*=286/360

$$P_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$$
$$t^*_{lab^*} = l^*_{lab^*} - c^*_{lab^*} \ [\ t^*_M - 0.5\ ]$$
$$c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$$
M=Maximum colour

triangle lightness

t*_{lab*} 1,0

B12R

J25G

0,5

(c^*_M, t^*_M)

relative chroma   *c*_{lab*}*

−1,0   −0,5   0   0,5

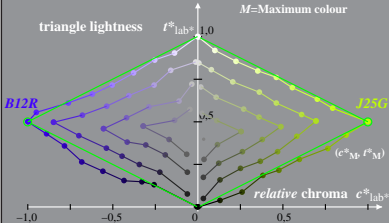HE821−2A, 3; cf1=0.90; nt=0.18; nx=1.0

Linear relation *adapted (a)* CIELAB ($C^*_{ab,a}$, L^*) and *relative* CIELAB (c^*, t^*)
System: HE82_HR9S16_96_D65_25%_OI
Hue: h^*_{J25G}=109/360; h^*_{B12R}=286/360

$$P_M=(L^*_M - L^*_N)/(L^*_W - L^*_N)$$
$$t^*_{lab^*}=l^*_{lab^*} - c^*_{lab^*}\ [t^*_M - 0.5\ ]$$
$$c^*_{lab^*}=C^*_{ab,a}/C^*_{ab,a,M}$$
M=Maximum colour

triangle lightness

$t^*_{lab^*}$ 1,0

B12R

0,5

J25G

(c^*_M, t^*_M)

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

−1,0   −0,5   0   0,5

HE821−2A, 4; cf1=0.90; nt=0.18; nx=1.0

Linear relation *adapted (a)* CIELAB (*C**ab,a, *L**) and *relative* CIELAB (*c**, *t**)
System: HE82_HRS16_96_D65_50%_OO

Hue: *h**J50G=127/360; *h**B25R=300/360

$F_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$
$t^*_{lab^*} = l^*_{lab^*} - c^*_{lab^*} [t^*_M - 0.5]$
$c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$
M=Maximum colour

triangle lightness

t*lab* 1,0

B25R

J50G

0,5

(*c**M, *t**M)

relative chroma *c**lab*

-1,0   -0,5   0   0,5

HE821-2A, 5; cf1=0.90; nt=0.18; nx=1.0

Linear relation *adapted (a)* CIELAB (*C**_{ab,a}, *L**) and *relative* CIELAB (*c**, *t**)
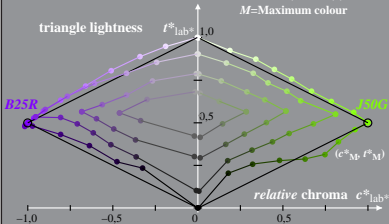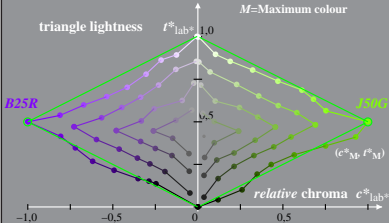System: HE82_HRS16_96_D65_50%_OI
Hue: *h**_{J50G}=127/360; *h**_{B25R}=300/360

$P_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$
$t^*_{lab^*} = l^*_{lab^*} - c^*_{lab^*} [t^*_M - 0.5]$
$c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$
M=Maximum colour

triangle lightness

t*_{lab*} 1,0

B25R

J50G

0,5

(c^*_M, t^*_M)

relative chroma *c**_{lab*}

−1,0   −0,5   0   0,5

HE821−2A, 6; cf1=0.90; nt=0.18; nx=1.0

Linear relation *adapted (a)* CIELAB (*C***ab,a*, *L**) and *relative* CIELAB (*c**, *t**)
System: HE82_HRS16_96_D65_75%_O0

Hue: *h**$_{J75G}$=144/360; *h**$_{B38R}$=314/360

$P_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$
$t^*_{lab^*} = l^*_{lab^*} - c^*_{lab^*} [t^*_M - 0,5]$
$c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$
M=Maximum colour

triangle lightness

t*$_{lab^*}$ 1,0

B38R

J75G

0,5

(c^*_{M}, t^*_{M})

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

−1,0   −0,5   0   0,5   1,0

HE821−2A, 7; cf1=0.90; nt=0.18; nx=1.0

Linear relation *adapted (a)* CIELAB ($C^*_{ab,a}$, L^*) and *relative* CIELAB (c^*, t^*)
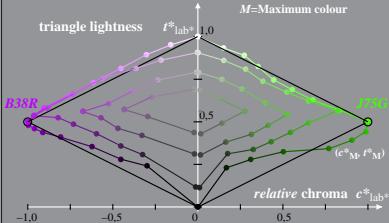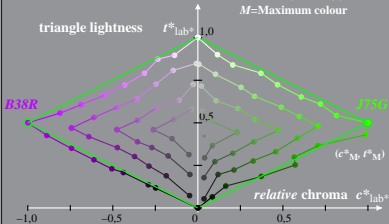System: HE82_HRS16_96_D65_75%_OI
Hue: h^*_{J75G}=144/360; h^*_{B38R}=314/360

l^*_M=(L^*_M − L^*_N) / (L^*_W − L^*_N)
t^*_{lab*}=l^*_{lab*} − c^*_{lab*} [l^*_M − 0,5]
c^*_{lab*}=$C^*_{ab,a}$ / $C^*_{ab,a,M}$
M=Maximum colour

triangle lightness

t^*lab* 1,0

B38R

J75G

0,5

(c^*_M, t^*_M)

−1,0 −0,5 0 0,5 *relative chroma* c^*lab*

HE821−2A, 8; cf1=0.90; nt=0.18; nx=1.0