Linear relation *adapted (a)* CIELAB (C*_{ab,a}, L*) and *relative* CIELAB (c*, t*)
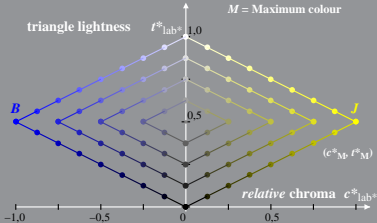System: ORS18

Hue: $h^*_J = 92/360$; $h^*_B = 272/360$

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

M = Maximum colour

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

B   *J*

0,5

(c^*_M, t^*_M)

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

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

De381-2A, 1

Linear relation *adapted (a)* CIELAB (C*$_{ab,a}$, L*) and *relative* CIELAB (c*, t*)
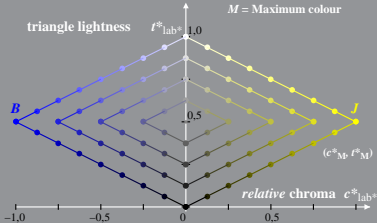**System: TLS00**
Hue: **h*$_J$ = 92/360; h*$_B$ = 272/360**

$$P_M = (L^*_N - L^*_N) / (L^*_W - L^*_N)$$

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

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

M = Maximum colour

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

B   *J*

0,5

(c*$_M$, t*$_M$)

relative chroma   c*$_{lab*}$

−1,0   −0,5   0   0,5

De381−2A, 2

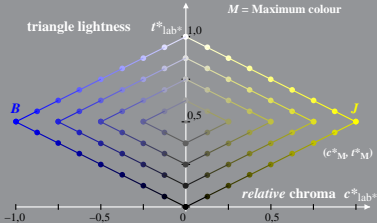Linear relation *adapted (a)* CIELAB (C*ab,a, L*) and *relative* CIELAB (c*, t*)
System: FRS06
Hue: h*$_J$ = 92/360; h*$_B$ = 272/360

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

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

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

M = Maximum colour

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

B

0,5

J

(c^*_M, t^*_M)

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

−1,0   −0,5   0   0,5

De381−2A, 3

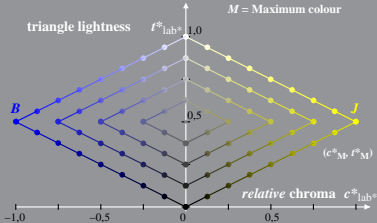Linear relation *adapted (a)* CIELAB (C*_ab,a*, L*) and *relative* CIELAB (c*, t*)
System: TSL18

Hue: $h*_J = 92/360$; $h*_B = 272/360$

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

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

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

M = Maximum colour

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

B

0,5

J

$(c*_M, t*_M)$

relative chroma $c*_{lab*}$

−1,0   −0,5   0   0,5   →

De381−2A, 4

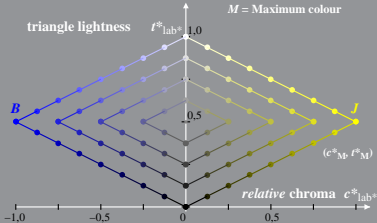Linear relation *adapted (a)* CIELAB (C*_{ab,a*}, L*) and *relative* CIELAB (c*, t*)
System: NLS00

Hue: $h*_J = 92/360$; $h*_B = 272/360$

$$t*_M = (L*_M - L*_N) / (L*_W - L*_N)$$

$$t*_{lab*} = l*_{lab*} - c*_{lab*} [l*_M - 0.5]$$

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

M = Maximum colour

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

B

0,5

J

$(c*_M, t*_M)$

-1,0   -0,5   0   0,5   *relative chroma* $c*_{lab*}$

De381−2A, 5

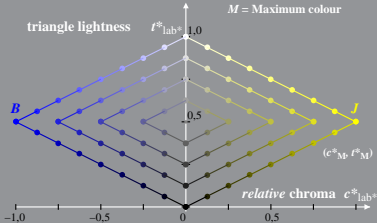Linear relation *adapted (a)* CIELAB (C*_{ab,a}, L*) and *relative* CIELAB (c*, t*)
System: NLS18
Hue: $h*_J = 92/360$; $h*_B = 272/360$

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

M = Maximum colour

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

B

0,5

$(c*_M, t*_M)$

relative chroma $c*_{lab*}$

−1,0   −0,5   0   0,5

De381−2A, 6

Linear relation adapted (a) CIELAB ($C^*_{ab,a}$, L^*) and relative CIELAB (c^*, t^*)
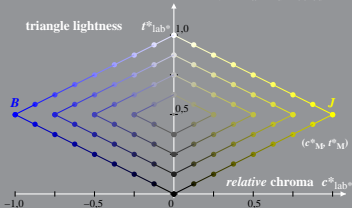**System: NRS11**
Hue: h^*_J = 92/360, h^*_B = 272/360

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

$t^*_{lab^*} = l^*_{lab^*} − c^*_{lab^*} [l^*_M − 0.5]$

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

M = Maximum colour

triangle lightness

$t^*_{lab^*}$ 1.0

B

0.5

J

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

−1.0   −0.5   0   0.5

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

De381−2A, 7

Linear relation adapted (a) CIELAB (C*_{ab,a}, L*) and relative CIELAB (c*, t*)
System: TLS70
Hue: h*_J = 92/360; h*_B = 272/360

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

M = Maximum colour

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

B

0,5

J

(c^*_M, t^*_M)

−1,0   −0,5   0   0,5   *relative chroma* c^*_{lab*}

De381−2A, 8