Linear relation rgb* and *relative* chroma c*rgb* and triangle lightness t*rgb*
System: TLS00
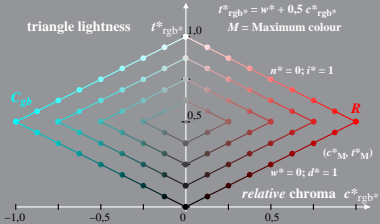Hue: h*R = 26/360; h*Cgb = 217/360
Result: c*rgb* = c*lab*; t*rgb* = t*lab*

$c*_{rgb*} = \max(rgb*) - \min(rgb*)$
$n* = 1 - \max(rgb*) = 1 - i*$
$w* = \min(rgb*) = 1 - d*$
$t*_{rgb*} = w* + 0.5 \cdot c*_{rgb*}$
$M = $ Maximum colour

De101-5A, 2

Linear relation *rgb** and *relative* chroma *c**$_{rgb*}$ and triangle lightness *t**$_{rgb*}$

System: FRS06

Hue: $h*_R = 26/360$; $h*_{Cgb} = 217/360$

Result: $c*_{rgb*} = c*_{lab*}$; $t*_{rgb*} = t*_{lab*}$

$c*_{rgb*} = \max (rgb*) - \min (rgb*)$

$n* = 1 - \max (rgb*) = 1 - i*$

$w* = \min (rgb*) = 1 - d*$

$t*_{rgb*} = w* + 0.5 \, c*_{rgb*}$

$M = $ Maximum colour

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

$n* = 0; i* = 1$

0,5

C_{gb}

R

$(c*_M, t*_M)$

$w* = 0; d* = 1$

relative chroma $c*_{rgb*}$

−1,0   −0,5   0   0,5

De101−5A, 3

Linear relation *rgb** and *relative* chroma *c**$_{rgb*}$ and triangle lightness *t**$_{rgb*}$

System: TSL18

Hue: $h*_R = 26/360$; $h*_{Cgb} = 217/360$

Result: $c*_{rgb*} = c*_{lab*}$; $t*_{rgb*} = t*_{lab*}$

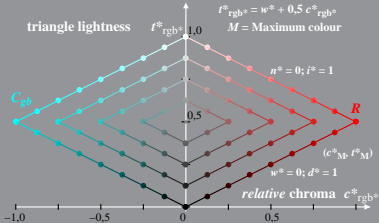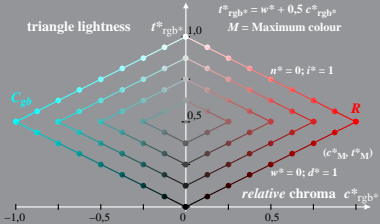$c*_{rgb*} = \max (rgb*) - \min (rgb*)$

$n* = 1 - \max (rgb*) = 1 - i*$

$w* = \min (rgb*) = 1 - d*$

$t*_{rgb*} = w* + 0.5 \, c*_{rgb*}$

M = Maximum colour

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

$n* = 0; i* = 1$

C_{gb}

R

0,5

$(c*_M, t*_M)$

$w* = 0; d* = 1$

relative chroma $c*_{rgb*}$

−1,0   −0,5   0   0,5   1,0

Del01−5A, 4

Linear relation *rgb** and *relative* chroma *c**$_{rgb*}$ and triangle lightness *t**$_{rgb*}$

System: NLS00

Hue: *h**$_R$ = 26/360; *h**$_{Cgb}$ = 217/360

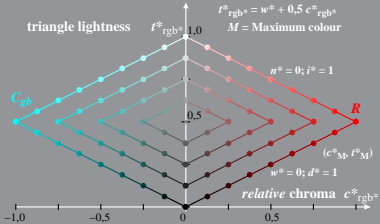Result: *c**$_{rgb*}$ = *c**$_{lab*}$; *t**$_{rgb*}$ = *t**$_{lab*}$

$c*_{rgb*} = \max (rgb*) - \min (rgb*)$

$n* = 1 - \max (rgb*) = 1 - i*$

$w* = \min (rgb*) = 1 - d*$

$t*_{rgb*} = w* + 0.5 \, c*_{rgb*}$

M = Maximum colour

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

$n* = 0; i* = 1$

0,5

C_{gb}

R

$(c*_M, t*_M)$

$w* = 0; d* = 1$

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

relative chroma *c**$_{rgb*}$

Del01−5A, 5

Linear relation *rgb** and *relative* chroma *c**$_{rgb*}$ and triangle lightness *t**$_{rgb*}$

System: NLS18

Hue: *h**$_R$ = 26/360; *h**$_{Cgb}$ = 217/360

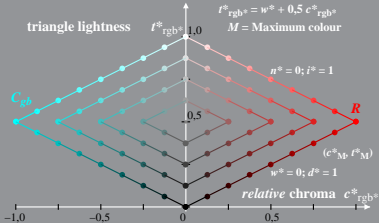Result: *c**$_{rgb*}$ = *c**$_{lab*}$; *t**$_{rgb*}$ = *t**$_{lab*}$
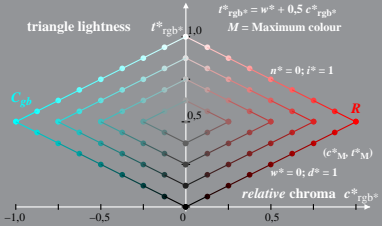
$$c*_{rgb*} = \max (rgb*) - \min (rgb*)$$
$$n* = 1 - \max (rgb*) = 1 - i*$$
$$w* = \min (rgb*) = 1 - d*$$
$$t*_{rgb*} = w* + 0.5\, c*_{rgb*}$$
$$M = \text{Maximum colour}$$

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

C_{gb}

n* = 0; *i** = 1

R

0,5

$(c*_M, t*_M)$

w* = 0; *d** = 1

relative chroma   *c**$_{rgb*}$

−1,0   −0,5   0   0,5

Linear relation *rgb** and *relative* chroma *c**$_{rgb*}$ and triangle lightness *t**$_{rgb*}$
System: SRS18
Hue: *h**$_R$ = 26/360; *h**$_{Cgb}$ = 217/360
Result: *c**$_{rgb*}$ = *c**$_{lab*}$; *t**$_{rgb*}$ = *t**$_{lab*}$

c*$_{rgb*}$ = max (*rgb**) − min (*rgb**)
n* = 1 − max (*rgb**) = 1 − *i**
w* = min (*rgb**) = 1 − *d**
t*$_{rgb*}$ = *w** + 0,5 *c**$_{rgb*}$
M = Maximum colour

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

C_{gb}

n* = 0; *i** = 1

0,5

R

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

w* = 0; *d** = 1

−1,0   −0,5   0   0,5   *relative* chroma   *c**$_{rgb*}$

Del01−5A, 7

Linear relation *rgb** and *relative* chroma *c**$_{rgb*}$ and triangle lightness *t**$_{rgb*}$
System: TLS70
Hue: *h**$_R$ = 26/360; *h**$_{Cgb}$ = 217/360
Result: *c**$_{rgb*}$ = *c**$_{lab*}$; *t**$_{rgb*}$ = *t**$_{lab*}$
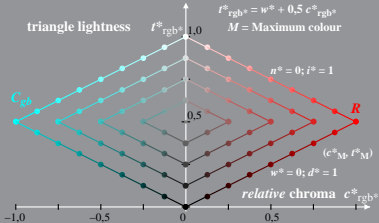
$c*_{rgb*} = \max (rgb*) - \min (rgb*)$
$n* = 1 - \max (rgb*) = 1 - i*$
$w* = \min (rgb*) = 1 - d*$
$t*_{rgb*} = w* + 0.5 \, c*_{rgb*}$
M = Maximum colour

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

$n* = 0; i* = 1$

C_{gb}

0,5

R

$(c*_M, t*_M)$

$w* = 0; d* = 1$

relative chroma   *c**$_{rgb*}$

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

Del01-5A, 8