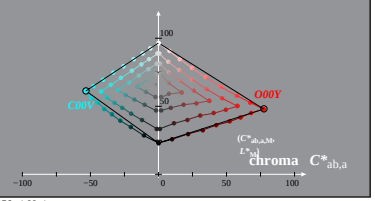
Linear relation CIELAB (L^*, a^*, b^*) and *adapted (a)* CIELAB ($C^*_{ab,a}$, L^*)
System: JE95_ORS20_95_D65_cmyn6*
Hue: h^*_{O00Y}=38 /360; h^*_{C00V}=236 /360

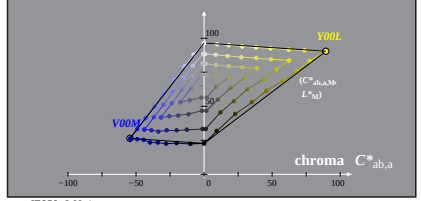
$l^*_{lab*}=(L^* - L^*_N) / (L^*_W - L^*_N)$
$a^*_a=a^* - a^*_N - l^*_{lab*} [a^*_W - a^*_N]$
$b^*_a=b^* - b^*_N - l^*_{lab*} [b^*_W - b^*_N]$
$C^*_{ab,a}=[a^{*2}_a + b^{*2}_a]^{1/2}$



JE950−1 N, 1

Linear relation CIELAB (L^*, a^*, b^*) and *adapted (a)* CIELAB ($C^*_{ab,a}$, L^*)
System: JE95_ORS20_95_D65_cmyn6*
Hue: h^*_{Y00L}=96 /360; h^*_{V00M}=305 /360

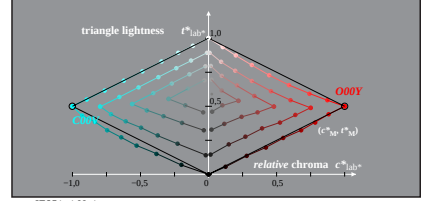
$l^*_{lab*}=(L^* - L^*_N) / (L^*_W - L^*_N)$
$a^*_a=a^* - a^*_N - l^*_{lab*} [a^*_W - a^*_N]$
$b^*_a=b^* - b^*_N - l^*_{lab*} [b^*_W - b^*_N]$
$C^*_{ab,a}=[a^{*2}_a + b^{*2}_a]^{1/2}$



JE950−2 N, 1

Linear relation *adapted (a)* CIELAB ($C^*_{ab,a}$, L^*) and *relative* CIELAB (c^*, t^*)
System: JE95_ORS20_95_D65_cmyn6*
Hue: h^*_{O00Y}=38 /360; h^*_{C00V}=236 /360

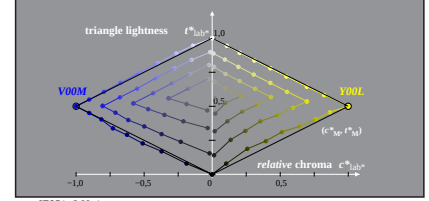
$l^*_M=(L^*_M - L^*_N) / (L^*_W - L^*_N)$
$t^*_{lab*}=l^*_{lab*} - c^*_{lab*} [l^*_M - 0,5]$
$c^*_{lab*}=C^*_{ab,a} / C^*_{ab,a,M}$
M=Maximum colour



JE951−1 N, 1

Linear relation *adapted (a)* CIELAB ($C^*_{ab,a}$, L^*) and *relative* CIELAB (c^*, t^*)
System: JE95_ORS20_95_D65_cmyn6*
Hue: h^*_{Y00L}=96 /360; h^*_{V00M}=305 /360

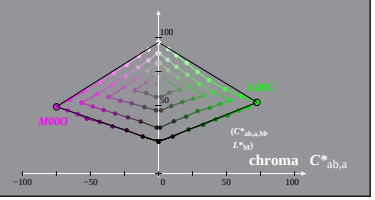
$l^*_M=(L^*_M - L^*_N) / (L^*_W - L^*_N)$
$t^*_{lab*}=l^*_{lab*} - c^*_{lab*} [l^*_M - 0,5]$
$c^*_{lab*}=C^*_{ab,a} / C^*_{ab,a,M}$
M=Maximum colour



JE951−2 N, 1

Linear relation CIELAB (L^*, a^*, b^*) and *adapted (a)* CIELAB ($C^*_{ab,a}$, L^*)
System: JE95_ORS20_95_D65_cmyn6*
Hue: h^*_{L00C}=151 /360; h^*_{M00O}=354 /360

$l^*_{lab*}=(L^* - L^*_N) / (L^*_W - L^*_N)$
$a^*_a=a^* - a^*_N - l^*_{lab*} [a^*_W - a^*_N]$
$b^*_a=b^* - b^*_N - l^*_{lab*} [b^*_W - b^*_N]$
$C^*_{ab,a}=[a^{*2}_a + b^{*2}_a]^{1/2}$

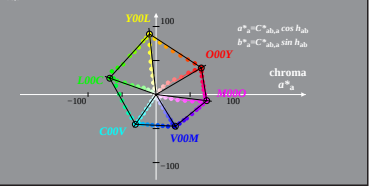


JE950−3 N, 1

Linear relation CIELAB (L^*, a^*, b^*) and *adapted (a)* CIELAB ($C^*_{ab,a}$, L^*)
System: JE95_ORS20_95_D65_cmyn6*

$l^*_{lab*}=(L^* - L^*_N) / (L^*_W - L^*_N)$
$a^*_a=a^* - a^*_N - l^*_{lab*} [a^*_W - a^*_N]$
$b^*_a=b^* - b^*_N - l^*_{lab*} [b^*_W - b^*_N]$
$C^*_{ab,a}=[a^{*2}_a + b^{*2}_a]^{1/2}$

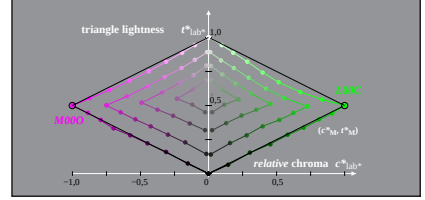
CIELAB hue angles:
$h_{ab,d}$=[34 , 92 , 143 , 226 , 312 , 337]
$h_{ab,dc}$=[34 , 92 , 143 , 226 , 311 , 337]



JE950−4 N, 1

Linear relation *adapted (a)* CIELAB ($C^*_{ab,a}$, L^*) and *relative* CIELAB (c^*, t^*)
System: JE95_ORS20_95_D65_cmyn6*
Hue: h^*_{L00C}=151 /360; h^*_{M00O}=354 /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

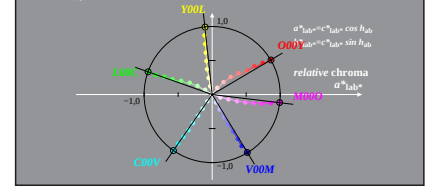


JE951−3 N, 1

Linear relation *adapted (a)* CIELAB ($C^*_{ab,a}$, L^*) and *relative* CIELAB (c^*, t^*)
System: JE95_ORS20_95_D65_cmyn6*

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

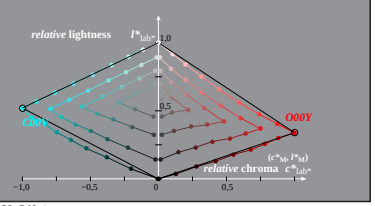
CIELAB hue angles:
$h_{ab,d}$=[34 , 92 , 143 , 226 , 312 , 337]
$h_{ab,dc}$=[34 , 92 , 143 , 226 , 311 , 337]



JE951−4 N, 1

***Adapted (a)* CIELAB ($C^*_{ab,a}$, L^*) and *relative* CIELAB (c^*_{lab*}, l^*_{lab*})**
System: JE95_ORS20_95_D65_cmyn6*
Hue: h^*_{O00Y}=38 /360; h^*_{C00V}=236 /360

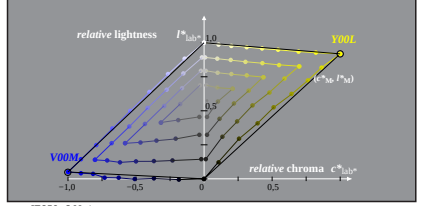
$l^*_{lab*}=(L^* - L^*_N) / (L^*_W - L^*_N)$
$c^*_{lab*}=C^*_{ab,a} / C^*_{ab,a,M}$
M=Maximum colour



JE950−5 N, 1

***Adapted (a)* CIELAB ($C^*_{ab,a}$, L^*) and *relative* CIELAB (c^*_{lab*}, l^*_{lab*})**
System: JE95_ORS20_95_D65_cmyn6*
Hue: h^*_{Y00L}=96 /360; h^*_{V00M}=305 /360

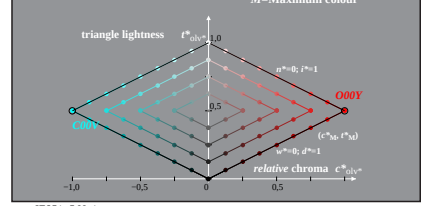
$l^*_{lab*}=(L^* - L^*_N) / (L^*_W - L^*_N)$
$c^*_{lab*}=C^*_{ab,a} / C^*_{ab,a,M}$
M=Maximum colour



JE950−6 N, 1

Linear relation *olv and *relative* chroma c^*_{olv*} and triangle lightness t^*_{olv*}**
System: JE95_ORS20_95_D65_cmyn6*
Hue: h^*_{O00Y}=38 /360; h^*_{C00V}=236 /360
Result: $c^*_{olv*}=c^*_{lab*}$; $t^*_{olv*}=t^*_{lab*}$

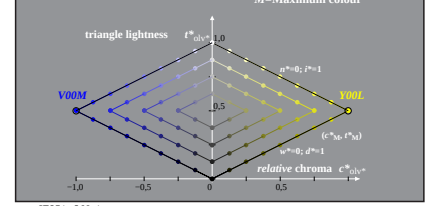
c^*_{olv*}=max (olv^*) − min (olv^*)
n^*=1 − max (olv^*)= 1 − i^*
w^*=min (olv^*)= 1 − d^*
$t^*_{olv*}=w^* + 0,5\ c^*_{olv*}$
M=Maximum colour



JE951−5 N, 1

Linear relation *olv and *relative* chroma c^*_{olv*} and triangle lightness t^*_{olv*}**
System: JE95_ORS20_95_D65_cmyn6*
Hue: h^*_{Y00L}=96 /360; h^*_{V00M}=305 /360
Result: $c^*_{olv*}=c^*_{lab*}$; $t^*_{olv*}=t^*_{lab*}$

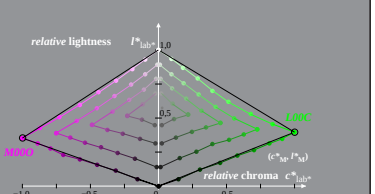
c^*_{olv*}=max (olv^*) − min (olv^*)
n^*=1 − max (olv^*)= 1 − i^*
w^*=min (olv^*)= 1 − d^*
$t^*_{olv*}=w^* + 0,5\ c^*_{olv*}$
M=Maximum colour



JE951−6 N, 1

***Adapted (a)* CIELAB ($C^*_{ab,a}$, L^*) and *relative* CIELAB (c^*_{lab*}, l^*_{lab*})**
System: JE95_ORS20_95_D65_cmyn6*
Hue: h^*_{L00C}=151 /360; h^*_{M00O}=354 /360

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

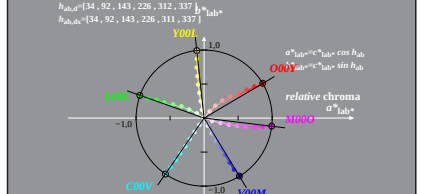


JE951−7 N, 1

***Adapted (a)* CIELAB ($C^*_{ab,a}$, L^*) and *relative* CIELAB (c^*_{lab*}, l^*_{lab*})**
System: JE95_ORS20_95_D65_cmyn6*

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

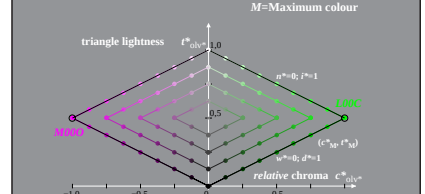
CIELAB hue angles:
$h_{ab,d}$=[34 , 92 , 143 , 226 , 312 , 337]
$h_{ab,dc}$=[34 , 92 , 143 , 226 , 311 , 337]



JE951−8 N, 1

Linear relation *olv and *relative* chroma c^*_{olv*} and triangle lightness t^*_{olv*}**
System: JE95_ORS20_95_D65_cmyn6*
Hue: h^*_{L00C}=151 /360; h^*_{M00O}=354 /360
Result: $c^*_{olv*}=c^*_{lab*}$; $t^*_{olv*}=t^*_{lab*}$

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

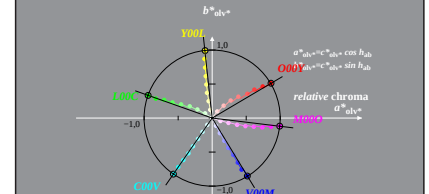


JE951−7 N, 1

Linear relation *olv and *relative* chroma c^*_{olv*} or chroma a^*_{olv*}, b^*_{olv*}**
System: JE95_ORS20_95_D65_cmyn6*
Result: $c^*_{olv*}=c^*_{lab*}$; $t^*_{olv*}=t^*_{lab*}$

c^*_{olv*}=max (olv^*) − min (olv^*)
n^*=1 − max (olv^*)= 1 − i^*
w^*=min (olv^*)= 1 − d^*
$t^*_{olv*}=w^* + 0,5\ c^*_{olv*}$

CIELAB hue angles:



JE951−8 N, 1

JE950−7N: Measurement: JE95_ORS20_95_D65_cmyn6*_LUT.DAT, 243 colours, 090115, Separation olv*, adapted