Input: Colorimetric Natural Reflective System CNS18

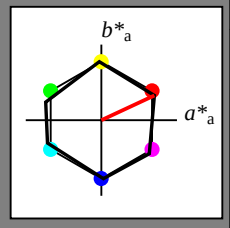
for hue *h = lab*h = 25/360 = 0.069**

lab*tch* and *lab*nch

D65: hue R

LCH*Ma: 57 77 25

olv*Ma: 1.0 0.0 0.0



CNS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	56.7	70.15	32.71	77.4	25
J_{Ma}	56.7	−2.69	77.35	77.4	92
G_{Ma}	56.7	−73.6	23.92	77.4	162
$G50B_{Ma}$	56.7	−71.24	−30.23	77.4	203
B_{Ma}	56.7	2.7	−77.34	77.4	272
$B50R_{Ma}$	56.7	63.4	−44.38	77.4	325
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

triangle lightness *t

%Gamut

u*$_{rel}$ = 100

%Regularity

g*$_{H,rel}$ = 59

g*$_{C,rel}$ = 100

1,00
0,75
0,50
0,25
0,00

*n** = 0,00
*n** = 0,25
*n** = 0,50
*n** = 0,75
*n** = 1,00

relative blackness *n**

0,25 0,50 0,75 1,00

relative chroma *c**

Output: Colorimetric Television Luminous System TLS00

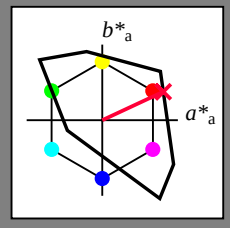
for hue *h = lab*h = 25/360 = 0.069**

lab*tch* and *lab*nch

D65: hue O

LCH*Ma: 52 89 25

olv*Ma: 1.0 0.0 0.22



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	50.5	76.92	64.55	100.42	40
Y_{Ma}	92.66	−20.69	90.75	93.08	103
L_{Ma}	83.63	−82.75	79.9	115.04	136
C_{Ma}	86.88	−46.16	−13.55	48.12	196
V_{Ma}	30.39	76.06	−103.59	128.52	306
M_{Ma}	57.3	94.35	−58.41	110.97	328
N_{Ma}	0.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

triangle lightness *t

%Gamut

u*$_{rel}$ = 158

%Regularity

g*$_{H,rel}$ = 20

g*$_{C,rel}$ = 37

1,00
0,75
0,50
0,25
0,00

*n**=0,00
*n**=0,20
*n**=0,40
*n**=0,60
*n**=0,80
*n**=1,00

relative blackness *n**

0,00 0,20 0,40 0,60 0,80 1,00

relative chroma *c**

VE590−7, 9 step scales for constant CIELAB hue 25/360 = 0.069 (left)

16 step scales for constant CIELAB hue 25/360 = 0.069 (right)

BAM-test chart VE59; Colorimetric systems CNS18 & TLS00
D65: 9 and 16 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *no change compared to input*

Input: Colorimetric Natural Reflective System CNS18

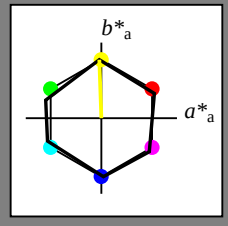
for hue *h = *lab*h* = 92/360 = 0.256**

lab*tch* and *lab*nch

D65: hue J

LCH*Ma: 57 77 92

olv*Ma: 1.0 1.0 0.0



CNS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	56.7	70.15	32.71	77.4	25
J_{Ma}	56.7	−2.69	77.35	77.4	92
G_{Ma}	56.7	−73.6	23.92	77.4	162
$G50B_{Ma}$	56.7	−71.24	−30.23	77.4	203
B_{Ma}	56.7	2.7	−77.34	77.4	272
$B50R_{Ma}$	56.7	63.4	−44.38	77.4	325
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

triangle lightness *t**

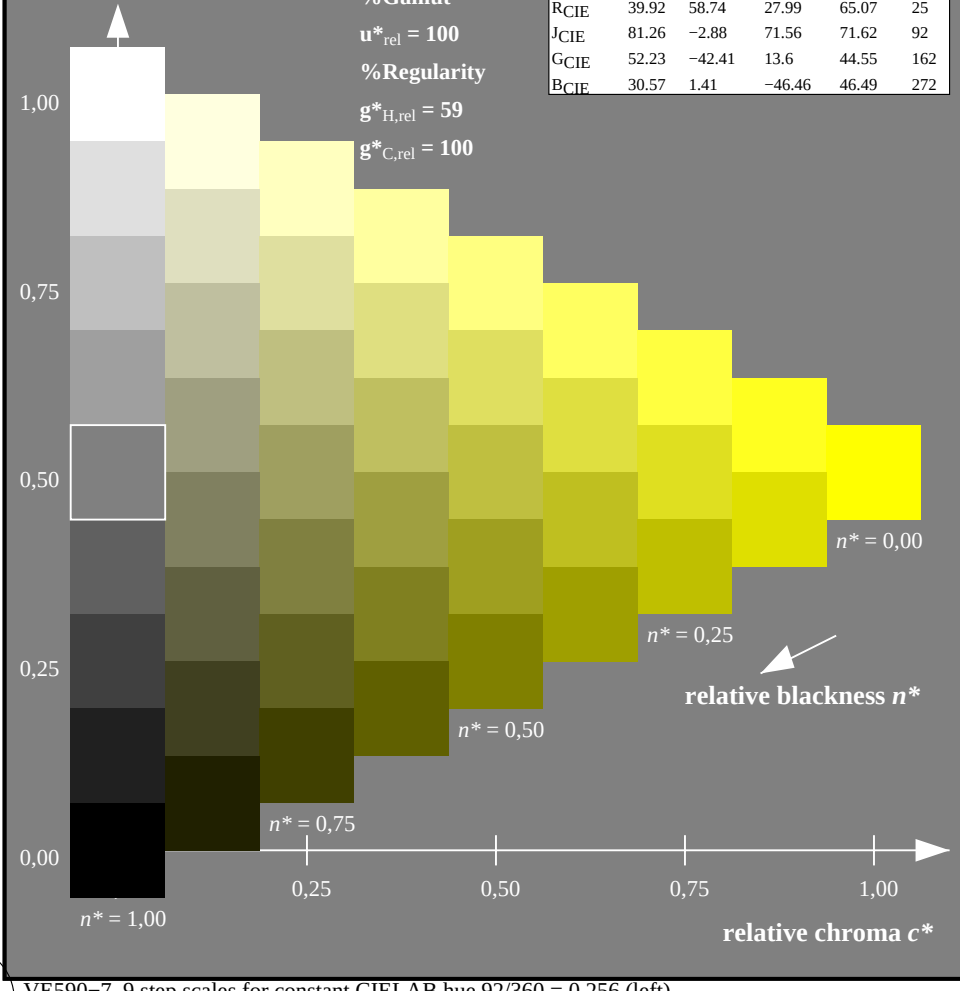
%Gamut

u^*_{rel} = 100

%Regularity

$g^*_{H,rel}$ = 59

$g^*_{C,rel}$ = 100



Output: Colorimetric Television Luminous System TLS00

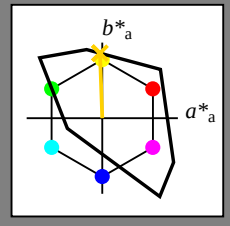
for hue *h = *lab*h* = 92/360 = 0.256**

lab*tch* and *lab*nch

D65: hue Y

LCH*Ma: 85 86 92

olv*Ma: 1.0 0.82 0.0



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	50.5	76.92	64.55	100.42	40
Y_{Ma}	92.66	−20.69	90.75	93.08	103
L_{Ma}	83.63	−82.75	79.9	115.04	136
C_{Ma}	86.88	−46.16	−13.55	48.12	196
V_{Ma}	30.39	76.06	−103.59	128.52	306
M_{Ma}	57.3	94.35	−58.41	110.97	328
N_{Ma}	0.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

triangle lightness *t**

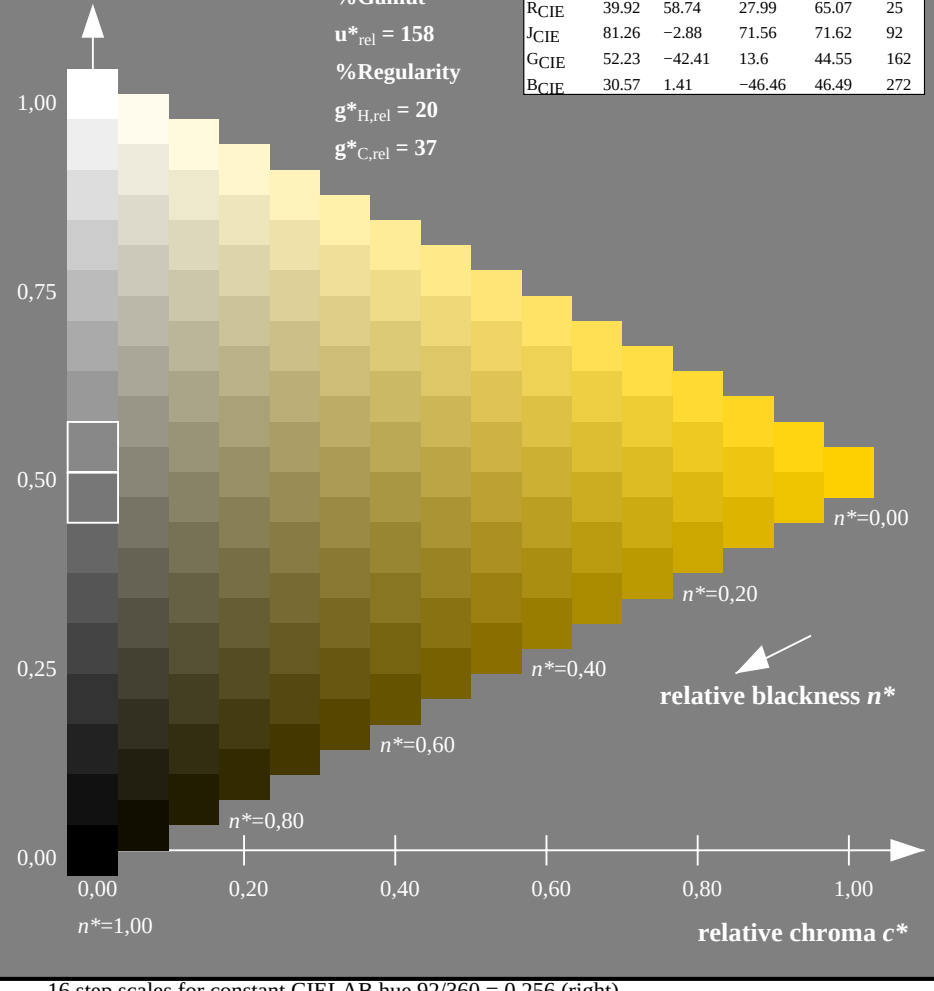
%Gamut

u^*_{rel} = 158

%Regularity

$g^*_{H,rel}$ = 20

$g^*_{C,rel}$ = 37



VE590−7, 9 step scales for constant CIELAB hue 92/360 = 0.256 (left)

16 step scales for constant CIELAB hue 92/360 = 0.256 (right)

BAM-test chart VE59; Colorimetric systems CNS18 & TLS00
D65: 9 and 16 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *no change compared to input*

Input: Colorimetric Natural Reflective System CNS18

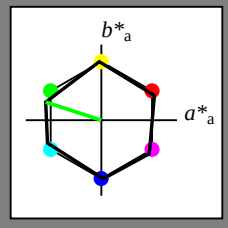
for hue *h = *lab*h* = 162/360 = 0.45**

lab*tch* and *lab*nch

D65: hue G

LCH*Ma: 57 77 162

olv*Ma: 0.0 1.0 0.0



CNS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	56.7	70.15	32.71	77.4	25
J_{Ma}	56.7	−2.69	77.35	77.4	92
G_{Ma}	56.7	−73.6	23.92	77.4	162
$G50B_{Ma}$	56.7	−71.24	−30.23	77.4	203
B_{Ma}	56.7	2.7	−77.34	77.4	272
$B50R_{Ma}$	56.7	63.4	−44.38	77.4	325
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

triangle lightness *t**

%Gamut

u^*_{rel} = 100

%Regularity

$g^*_{H,rel}$ = 59

$g^*_{C,rel}$ = 100

1,00
0,75
0,50
0,25
0,00

*n** = 0,00
*n** = 0,25
*n** = 0,50
*n** = 0,75
*n** = 1,00

relative blackness *n**

0,25 0,50 0,75 1,00

relative chroma *c**

Output: Colorimetric Television Luminous System TLS00

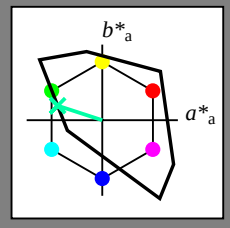
for hue *h = *lab*h* = 162/360 = 0.45**

lab*tch* and *lab*nch

D65: hue L

LCH*Ma: 86 62 162

olv*Ma: 0.0 1.0 0.65



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	50.5	76.92	64.55	100.42	40
Y_{Ma}	92.66	−20.69	90.75	93.08	103
L_{Ma}	83.63	−82.75	79.9	115.04	136
C_{Ma}	86.88	−46.16	−13.55	48.12	196
V_{Ma}	30.39	76.06	−103.59	128.52	306
M_{Ma}	57.3	94.35	−58.41	110.97	328
N_{Ma}	0.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

triangle lightness *t**

%Gamut

u^*_{rel} = 158

%Regularity

$g^*_{H,rel}$ = 20

$g^*_{C,rel}$ = 37

1,00
0,75
0,50
0,25
0,00

*n**=0,00
*n**=0,20
*n**=0,40
*n**=0,60
*n**=0,80
*n**=1,00

relative blackness *n**

0,00 0,20 0,40 0,60 0,80 1,00

relative chroma *c**

VE590−7, 9 step scales for constant CIELAB hue 162/360 = 0.45 (left)

16 step scales for constant CIELAB hue 162/360 = 0.45 (right)

BAM-test chart VE59; Colorimetric systems CNS18 & TLS00
D65: 9 and 16 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *no change compared to input*

Input: Colorimetric Natural Reflective System CNS18

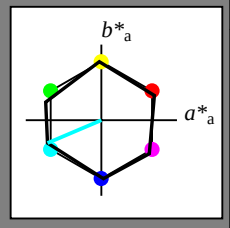
for hue *h = *lab*h* = 203/360 = 0.564**

lab*tch* and *lab*nch

D65: hue G50B

LCH*Ma: 57 77 203

olv*Ma: 0.0 1.0 1.0



CNS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	56.7	70.15	32.71	77.4	25
J_{Ma}	56.7	−2.69	77.35	77.4	92
G_{Ma}	56.7	−73.6	23.92	77.4	162
$G50B_{Ma}$	56.7	−71.24	−30.23	77.4	203
B_{Ma}	56.7	2.7	−77.34	77.4	272
$B50R_{Ma}$	56.7	63.4	−44.38	77.4	325
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

triangle lightness *t** | **%Gamut** | **u*rel = 100** | **%Regularity** | **g*H,rel = 59** | **g*C,rel = 100**

1,00 | 0,75 | 0,50 | 0,25 | 0,00

*n** = 0,00 | *n** = 0,25 | *n** = 0,50 | *n** = 0,75 | *n** = 1,00

relative blackness *n** | 0,25 | 0,50 | 0,75 | 1,00 | **relative chroma *c****

Output: Colorimetric Television Luminous System TLS00

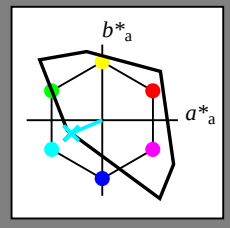
for hue *h = *lab*h* = 203/360 = 0.564**

lab*tch* and *lab*nch

D65: hue C

LCH*Ma: 84 45 203

olv*Ma: 0.0 0.96 1.0



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	50.5	76.92	64.55	100.42	40
Y_{Ma}	92.66	−20.69	90.75	93.08	103
L_{Ma}	83.63	−82.75	79.9	115.04	136
C_{Ma}	86.88	−46.16	−13.55	48.12	196
V_{Ma}	30.39	76.06	−103.59	128.52	306
M_{Ma}	57.3	94.35	−58.41	110.97	328
N_{Ma}	0.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

triangle lightness *t** | **%Gamut** | **u*rel = 158** | **%Regularity** | **g*H,rel = 20** | **g*C,rel = 37**

1,00 | 0,75 | 0,50 | 0,25 | 0,00

*n**=0,00 | *n**=0,20 | *n**=0,40 | *n**=0,60 | *n**=0,80 | *n**=1,00

relative blackness *n** | 0,00 | 0,20 | 0,40 | 0,60 | 0,80 | 1,00 | **relative chroma *c****

VE590−7, 9 step scales for constant CIELAB hue 203/360 = 0.564 (left)

16 step scales for constant CIELAB hue 203/360 = 0.564 (right)

BAM-test chart VE59; Colorimetric systems CNS18 & TLS00
D65: 9 and 16 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *no change compared to input*

Input: Colorimetric Natural Reflective System CNS18

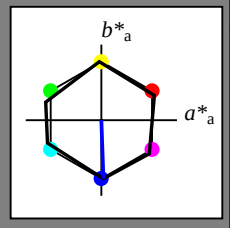
for hue *h = *lab*h* = 272/360 = 0.756**

lab*tch* and *lab*nch

D65: hue B

LCH*Ma: 57 77 272

olv*Ma: 0.0 0.0 1.0



CNS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	56.7	70.15	32.71	77.4	25
J_{Ma}	56.7	−2.69	77.35	77.4	92
G_{Ma}	56.7	−73.6	23.92	77.4	162
$G50B_{Ma}$	56.7	−71.24	−30.23	77.4	203
B_{Ma}	56.7	2.7	−77.34	77.4	272
$B50R_{Ma}$	56.7	63.4	−44.38	77.4	325
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

triangle lightness *t**

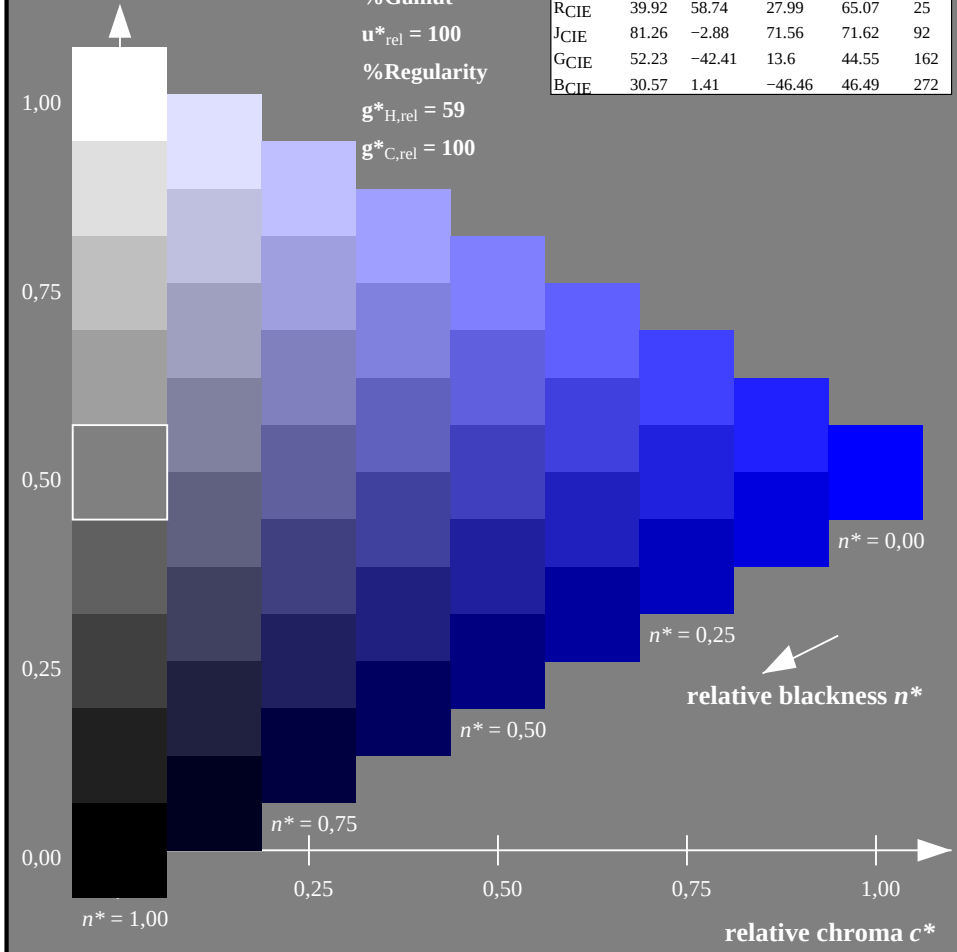
%Gamut

u^*_{rel} = 100

%Regularity

$g^*_{H,rel}$ = 59

$g^*_{C,rel}$ = 100



Output: Colorimetric Television Luminous System TLS00

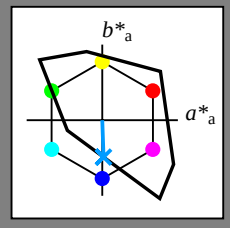
for hue *h = *lab*h* = 272/360 = 0.756**

lab*tch* and *lab*nch

D65: hue V

LCH*Ma: 65 49 272

olv*Ma: 0.0 0.61 1.0



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	50.5	76.92	64.55	100.42	40
Y_{Ma}	92.66	−20.69	90.75	93.08	103
L_{Ma}	83.63	−82.75	79.9	115.04	136
C_{Ma}	86.88	−46.16	−13.55	48.12	196
V_{Ma}	30.39	76.06	−103.59	128.52	306
M_{Ma}	57.3	94.35	−58.41	110.97	328
N_{Ma}	0.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

triangle lightness *t**

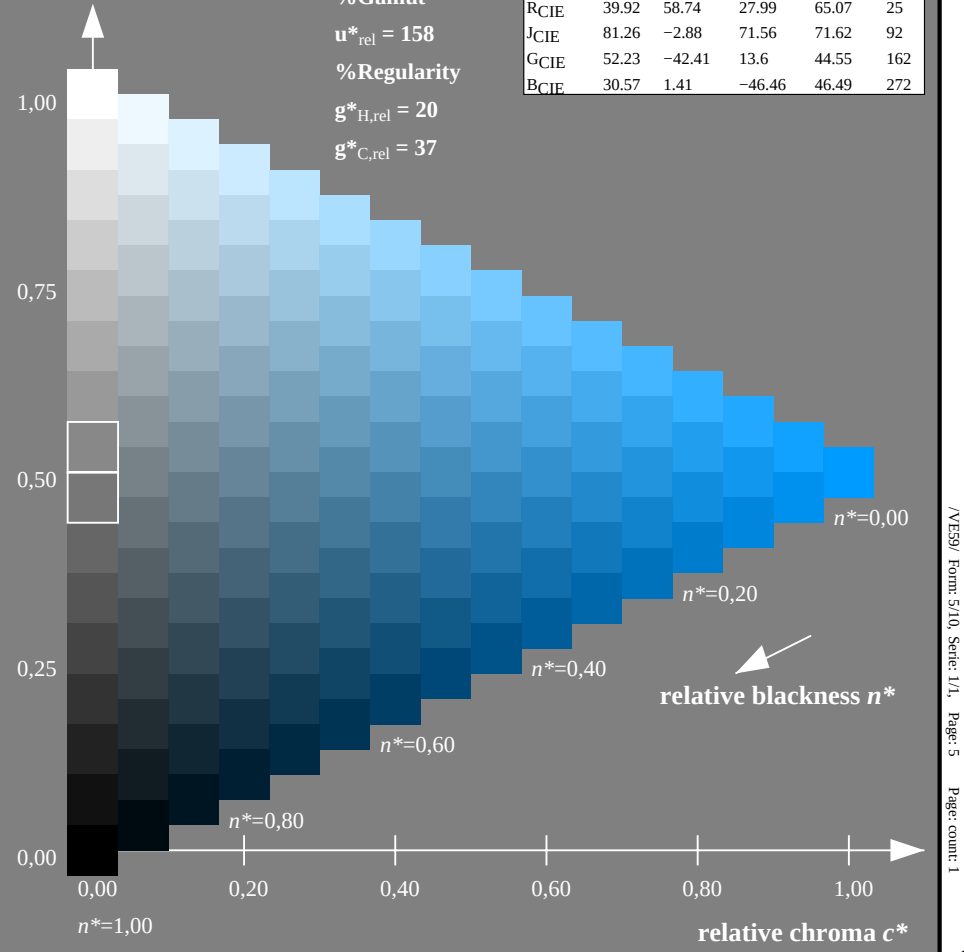
%Gamut

u^*_{rel} = 158

%Regularity

$g^*_{H,rel}$ = 20

$g^*_{C,rel}$ = 37



VE590−7, 9 step scales for constant CIELAB hue 272/360 = 0.756 (left)

16 step scales for constant CIELAB hue 272/360 = 0.756 (right)

BAM-test chart VE59; Colorimetric systems CNS18 & TLS00
D65: 9 and 16 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *no change compared to input*

Input: Colorimetric Natural Reflective System CNS18

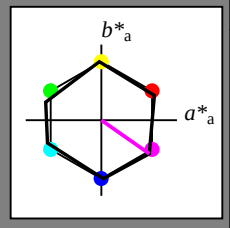
for hue *h = *lab*h* = 325/360 = 0.903**

lab*tch* and *lab*nch

D65: hue B50R

LCH*Ma: 57 77 325

olv*Ma: 1.0 0.0 1.0



CNS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	56.7	70.15	32.71	77.4	25
J_{Ma}	56.7	−2.69	77.35	77.4	92
G_{Ma}	56.7	−73.6	23.92	77.4	162
$G50B_{Ma}$	56.7	−71.24	−30.23	77.4	203
B_{Ma}	56.7	2.7	−77.34	77.4	272
$B50R_{Ma}$	56.7	63.4	−44.38	77.4	325
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

triangle lightness *t

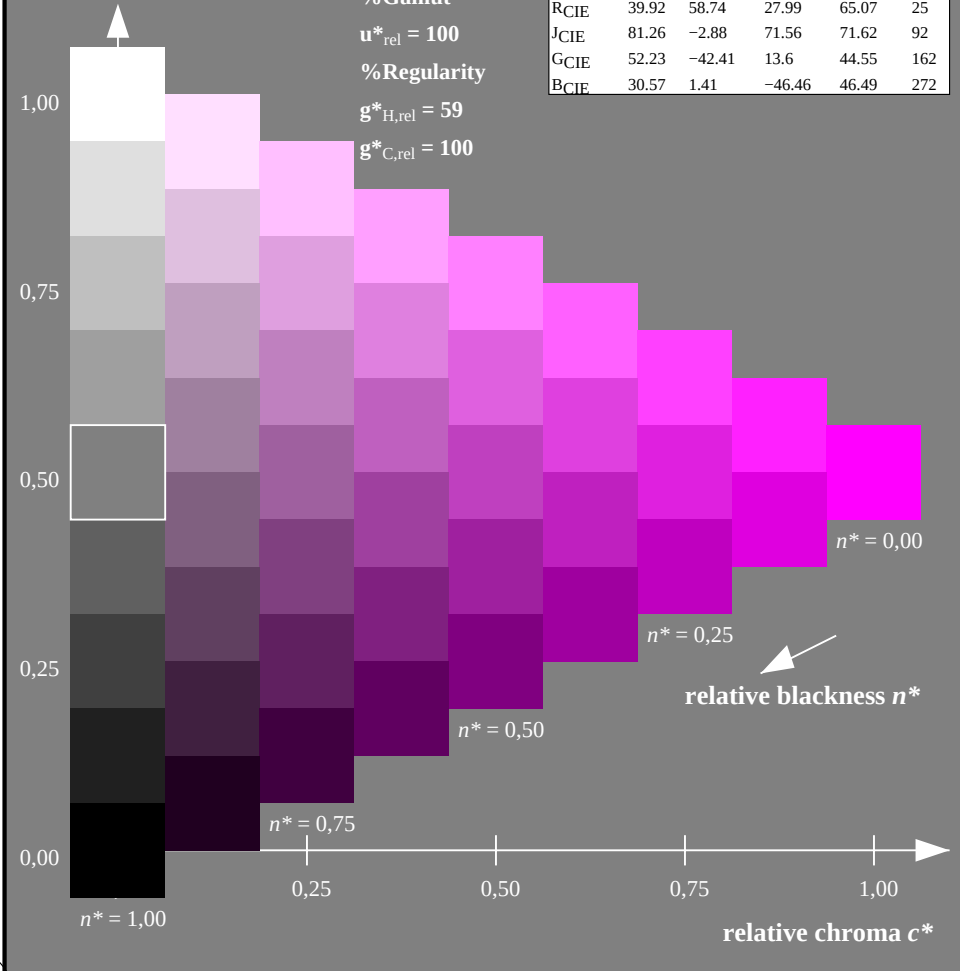
%Gamut

u*$_{rel}$ = 100

%Regularity

g*$_{H,rel}$ = 59

g*$_{C,rel}$ = 100



Output: Colorimetric Television Luminous System TLS00

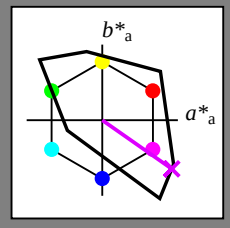
for hue *h = *lab*h* = 325/360 = 0.903**

lab*tch* and *lab*nch

D65: hue M

LCH*Ma: 54 112 325

olv*Ma: 0.87 0.0 1.0



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	50.5	76.92	64.55	100.42	40
Y_{Ma}	92.66	−20.69	90.75	93.08	103
L_{Ma}	83.63	−82.75	79.9	115.04	136
C_{Ma}	86.88	−46.16	−13.55	48.12	196
V_{Ma}	30.39	76.06	−103.59	128.52	306
M_{Ma}	57.3	94.35	−58.41	110.97	328
N_{Ma}	0.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

triangle lightness *t

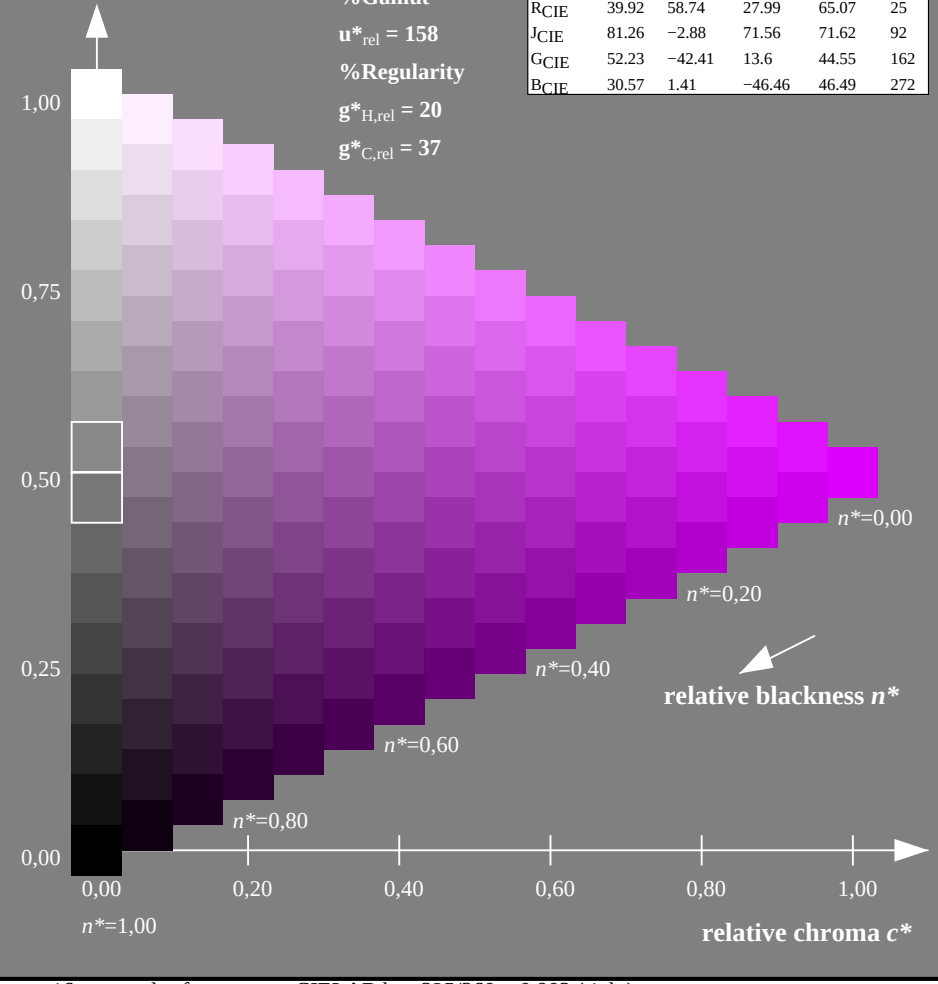
%Gamut

u*$_{rel}$ = 158

%Regularity

g*$_{H,rel}$ = 20

g*$_{C,rel}$ = 37



VE590−7, 9 step scales for constant CIELAB hue 325/360 = 0.903 (left)

16 step scales for constant CIELAB hue 325/360 = 0.903 (right)

BAM-test chart VE59; Colorimetric systems CNS18 & TLS00
D65: 9 and 16 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *no change compared to input*

Input: Colorimetric Natural Reflective System CNS18

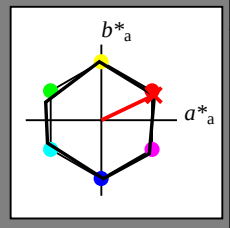
for hue *h = *lab*h* = 25/360 = 0.071**

lab*tch* and *lab*nch

D65: hue R

LCH*Ma: 57 77 25

olv*Ma: 1.0 0.01 0.0



CNS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	56.7	70.15	32.71	77.4	25
J_{Ma}	56.7	−2.69	77.35	77.4	92
G_{Ma}	56.7	−73.6	23.92	77.4	162
$G50B_{Ma}$	56.7	−71.24	−30.23	77.4	203
B_{Ma}	56.7	2.7	−77.34	77.4	272
$B50R_{Ma}$	56.7	63.4	−44.38	77.4	325
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

triangle lightness *t**

%Gamut

u^*_{rel} = 100

%Regularity

$g^*_{H,rel}$ = 59

$g^*_{C,rel}$ = 100

1,00
0,75
0,50
0,25
0,00

*n** = 0,00
*n** = 0,25
*n** = 0,50
*n** = 0,75
*n** = 1,00

relative blackness *n**

0,25 0,50 0,75 1,00

relative chroma *c**

Output: Colorimetric Television Luminous System TLS00

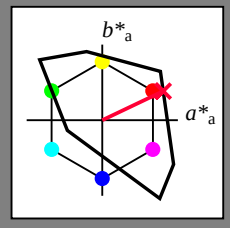
for hue *h = *lab*h* = 25/360 = 0.071**

lab*tch* and *lab*nch

D65: hue R

LCH*Ma: 52 89 25

olv*Ma: 1.0 0.0 0.21



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	50.5	76.92	64.55	100.42	40
Y_{Ma}	92.66	−20.69	90.75	93.08	103
L_{Ma}	83.63	−82.75	79.9	115.04	136
C_{Ma}	86.88	−46.16	−13.55	48.12	196
V_{Ma}	30.39	76.06	−103.59	128.52	306
M_{Ma}	57.3	94.35	−58.41	110.97	328
N_{Ma}	0.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

triangle lightness *t**

%Gamut

u^*_{rel} = 158

%Regularity

$g^*_{H,rel}$ = 20

$g^*_{C,rel}$ = 37

1,00
0,75
0,50
0,25
0,00

*n**=0,00
*n**=0,20
*n**=0,40
*n**=0,60
*n**=0,80
*n**=1,00

relative blackness *n**

0,00 0,20 0,40 0,60 0,80 1,00

relative chroma *c**

VE590−7, 9 step scales for constant CIELAB hue 25/360 = 0.071 (left)

16 step scales for constant CIELAB hue 25/360 = 0.071 (right)

BAM-test chart VE59; Colorimetric systems CNS18 & TLS00
D65: 9 and 16 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *no change compared to input*

Input: Colorimetric Natural Reflective System CNS18

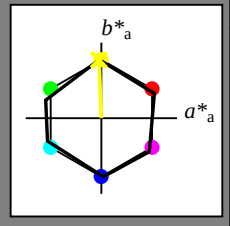
for hue *h = *lab*h* = 92/360 = 0.256**

lab*tch* and *lab*nch

D65: hue J

LCH*Ma: 57 77 92

olv*Ma: 0.99 1.0 0.0



CNS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	56.7	70.15	32.71	77.4	25
J_{Ma}	56.7	−2.69	77.35	77.4	92
G_{Ma}	56.7	−73.6	23.92	77.4	162
$G50B_{Ma}$	56.7	−71.24	−30.23	77.4	203
B_{Ma}	56.7	2.7	−77.34	77.4	272
$B50R_{Ma}$	56.7	63.4	−44.38	77.4	325
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

triangle lightness *t**

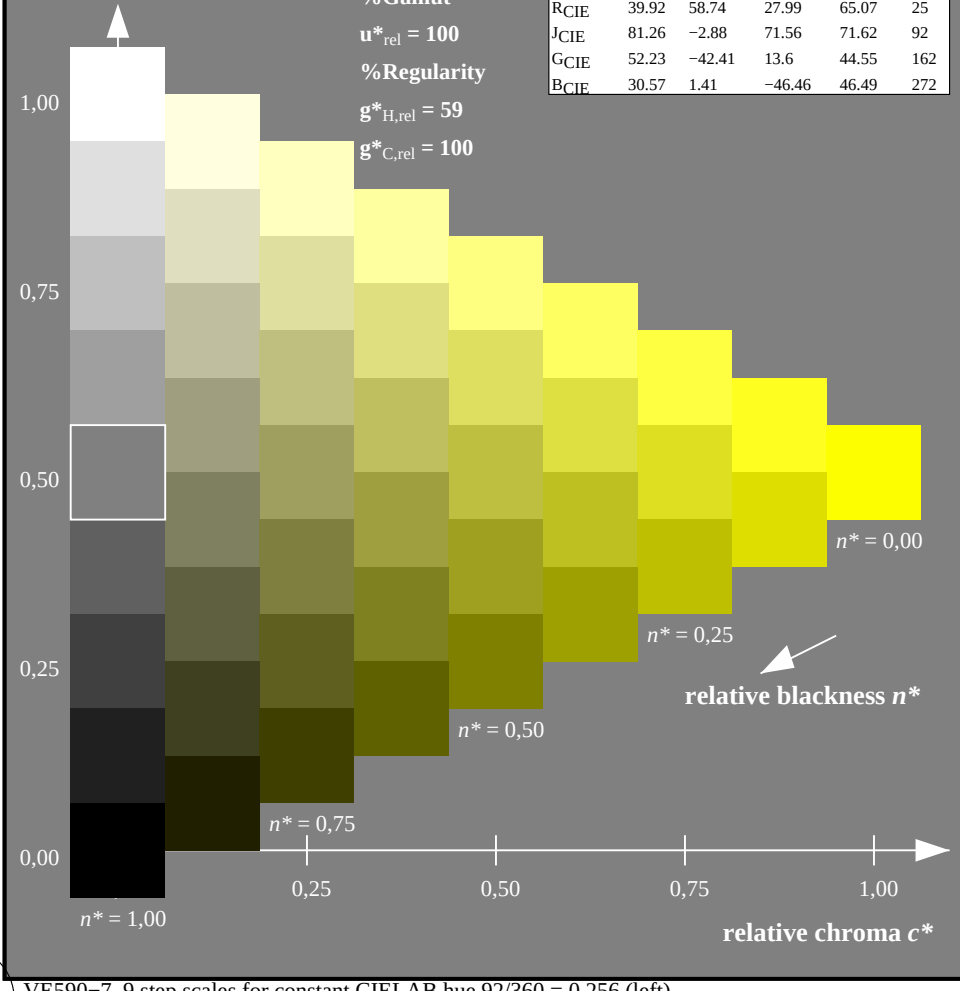
%Gamut

u^*_{rel} = 100

%Regularity

$g^*_{H,rel}$ = 59

$g^*_{C,rel}$ = 100



Output: Colorimetric Television Luminous System TLS00

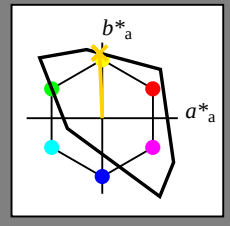
for hue *h = *lab*h* = 92/360 = 0.256**

lab*tch* and *lab*nch

D65: hue J

LCH*Ma: 85 86 92

olv*Ma: 1.0 0.82 0.0



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	50.5	76.92	64.55	100.42	40
Y_{Ma}	92.66	−20.69	90.75	93.08	103
L_{Ma}	83.63	−82.75	79.9	115.04	136
C_{Ma}	86.88	−46.16	−13.55	48.12	196
V_{Ma}	30.39	76.06	−103.59	128.52	306
M_{Ma}	57.3	94.35	−58.41	110.97	328
N_{Ma}	0.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

triangle lightness *t**

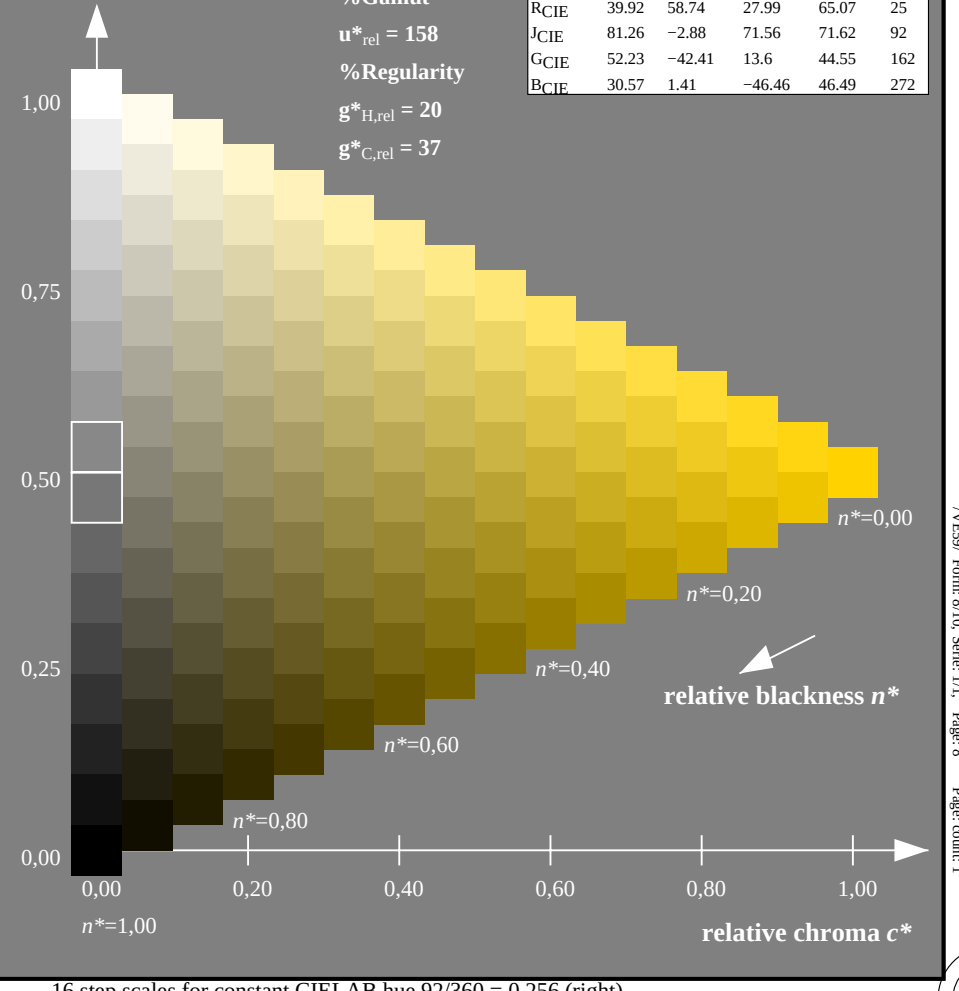
%Gamut

u^*_{rel} = 158

%Regularity

$g^*_{H,rel}$ = 20

$g^*_{C,rel}$ = 37



VE590−7, 9 step scales for constant CIELAB hue 92/360 = 0.256 (left)

16 step scales for constant CIELAB hue 92/360 = 0.256 (right)

BAM-test chart VE59; Colorimetric systems CNS18 & TLS00
D65: 9 and 16 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *no change compared to input*

Input: Colorimetric Natural Reflective System CNS18

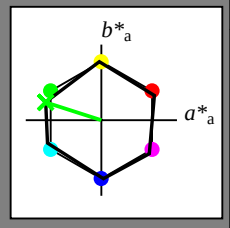
for hue *h = *lab*h* = 162/360 = 0.451**

lab*tch* and *lab*nch

D65: hue G

LCH*Ma: 57 77 162

olv*Ma: 0.0 1.0 0.01



CNS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	56.7	70.15	32.71	77.4	25
J_{Ma}	56.7	−2.69	77.35	77.4	92
G_{Ma}	56.7	−73.6	23.92	77.4	162
$G50B_{Ma}$	56.7	−71.24	−30.23	77.4	203
B_{Ma}	56.7	2.7	−77.34	77.4	272
$B50R_{Ma}$	56.7	63.4	−44.38	77.4	325
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

triangle lightness *t**

%Gamut

u^*_{rel} = 100

%Regularity

$g^*_{H,rel}$ = 59

$g^*_{C,rel}$ = 100

1,00
0,75
0,50
0,25
0,00

*n** = 0,00
*n** = 0,25
*n** = 0,50
*n** = 0,75
*n** = 1,00

relative blackness *n**

0,25 0,50 0,75 1,00

relative chroma *c**

Output: Colorimetric Television Luminous System TLS00

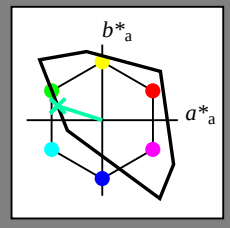
for hue *h = *lab*h* = 162/360 = 0.451**

lab*tch* and *lab*nch

D65: hue G

LCH*Ma: 86 62 162

olv*Ma: 0.0 1.0 0.65



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	50.5	76.92	64.55	100.42	40
Y_{Ma}	92.66	−20.69	90.75	93.08	103
L_{Ma}	83.63	−82.75	79.9	115.04	136
C_{Ma}	86.88	−46.16	−13.55	48.12	196
V_{Ma}	30.39	76.06	−103.59	128.52	306
M_{Ma}	57.3	94.35	−58.41	110.97	328
N_{Ma}	0.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

triangle lightness *t**

%Gamut

u^*_{rel} = 158

%Regularity

$g^*_{H,rel}$ = 20

$g^*_{C,rel}$ = 37

1,00
0,75
0,50
0,25
0,00

*n**=0,00
*n**=0,20
*n**=0,40
*n**=0,60
*n**=0,80
*n**=1,00

relative blackness *n**

0,00 0,20 0,40 0,60 0,80 1,00

relative chroma *c**

VE590−7, 9 step scales for constant CIELAB hue 162/360 = 0.451 (left)

16 step scales for constant CIELAB hue 162/360 = 0.451 (right)

BAM-test chart VE59; Colorimetric systems CNS18 & TLS00
D65: 9 and 16 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *no change compared to input*

Input: Colorimetric Natural Reflective System CNS18

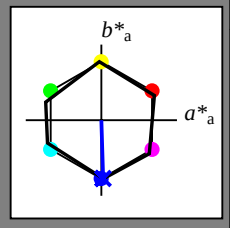
for hue *h = *lab*h* = 272/360 = 0.755**

lab*tch* and *lab*nch

D65: hue B

LCH*Ma: 57 77 272

olv*Ma: 0.0 0.0 1.0



CNS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_{Ma}	56.7	70.15	32.71	77.4	25
J_{Ma}	56.7	−2.69	77.35	77.4	92
G_{Ma}	56.7	−73.6	23.92	77.4	162
$G50B_{Ma}$	56.7	−71.24	−30.23	77.4	203
B_{Ma}	56.7	2.7	−77.34	77.4	272
$B50R_{Ma}$	56.7	63.4	−44.38	77.4	325
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

triangle lightness *t**

%Gamut

u^*_{rel} = 100

%Regularity

$g^*_{H,rel}$ = 59

$g^*_{C,rel}$ = 100

1,00
0,75
0,50
0,25
0,00

*n** = 0,00
*n** = 0,25
*n** = 0,50
*n** = 0,75
*n** = 1,00

relative blackness *n**

0,25 0,50 0,75 1,00

relative chroma *c**

Output: Colorimetric Television Luminous System TLS00

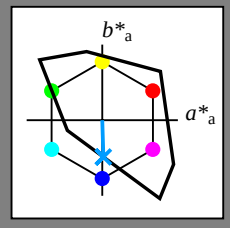
for hue *h = *lab*h* = 272/360 = 0.755**

lab*tch* and *lab*nch

D65: hue B

LCH*Ma: 65 49 272

olv*Ma: 0.0 0.61 1.0



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	50.5	76.92	64.55	100.42	40
Y_{Ma}	92.66	−20.69	90.75	93.08	103
L_{Ma}	83.63	−82.75	79.9	115.04	136
C_{Ma}	86.88	−46.16	−13.55	48.12	196
V_{Ma}	30.39	76.06	−103.59	128.52	306
M_{Ma}	57.3	94.35	−58.41	110.97	328
N_{Ma}	0.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

triangle lightness *t**

%Gamut

u^*_{rel} = 158

%Regularity

$g^*_{H,rel}$ = 20

$g^*_{C,rel}$ = 37

1,00
0,75
0,50
0,25
0,00

*n**=0,00
*n**=0,20
*n**=0,40
*n**=0,60
*n**=0,80
*n**=1,00

relative blackness *n**

0,00 0,20 0,40 0,60 0,80 1,00

relative chroma *c**

VE590−7, 9 step scales for constant CIELAB hue 272/360 = 0.755 (left)

16 step scales for constant CIELAB hue 272/360 = 0.755 (right)

BAM-test chart VE59; Colorimetric systems CNS18 & TLS00
D65: 9 and 16 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *no change compared to input*