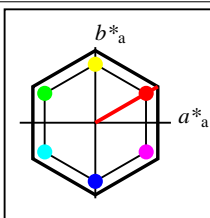


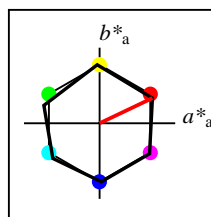
**%Gamut**  
 $u^*_{rel} = 152$   
**%Regularity**  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$

NLS00	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>M</sub>	31.81	82.62	47.7	95.4	30
Y <sub>M</sub>	63.61	0.0	95.4	95.4	90
L <sub>M</sub>	31.81	-82.61	47.7	95.4	150
C <sub>M</sub>	63.61	-82.61	-47.69	95.4	210
V <sub>M</sub>	31.81	0.0	-95.39	95.4	270
M <sub>M</sub>	63.61	82.62	-47.69	95.4	330
N <sub>M</sub>	0.01	0.0	0.0	0.0	0
W <sub>M</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 152$   
**%Regularity**  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$

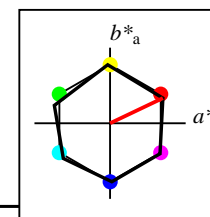
NLS00a; adapted CIELAB data	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	31.81	82.62	47.7	95.4	30
Y <sub>Ma</sub>	63.61	0.0	95.4	95.4	90
L <sub>Ma</sub>	31.81	-82.61	47.7	95.4	150
C <sub>Ma</sub>	63.61	-82.61	-47.69	95.4	210
V <sub>Ma</sub>	31.81	0.0	-95.39	95.4	270
M <sub>Ma</sub>	63.61	82.62	-47.69	95.4	330
N <sub>Ma</sub>	0.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 100$   
**%Regularity**  
 $g^*_{H,rel} = 78$   
 $g^*_{C,rel} = 100$

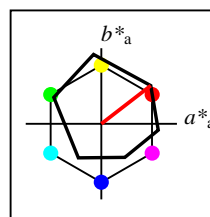
NRS18a; adapted CIELAB data	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	56.71	69.87	33.29	77.4	25
Y <sub>Ma</sub>	56.71	-3.1	77.34	77.4	92
L <sub>Ma</sub>	56.71	-73.68	23.63	77.39	162
C <sub>Ma</sub>	56.71	-61.81	-46.54	77.39	217
V <sub>Ma</sub>	56.71	2.35	-77.34	77.39	272
M <sub>Ma</sub>	56.71	66.07	-40.3	77.4	329
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

Workflow choices  
for colour samples:  
1. No colour change  
2. Hue change  
3. Chroma change



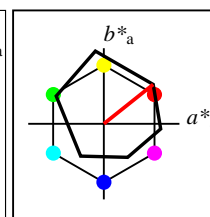
**%Gamut**  
 $u^*_{rel} = 100$   
**%Regularity**  
 $g^*_{H,rel} = 78$   
 $g^*_{C,rel} = 100$

NRS18a; adapted CIELAB data	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	56.71	69.87	33.29	77.4	25
Y <sub>Ma</sub>	56.71	-3.1	77.34	77.4	92
L <sub>Ma</sub>	56.71	-73.68	23.63	77.39	162
C <sub>Ma</sub>	56.71	-61.81	-46.54	77.39	217
V <sub>Ma</sub>	56.71	2.35	-77.34	77.39	272
M <sub>Ma</sub>	56.71	66.07	-40.3	77.4	329
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 93$   
**%Regularity**  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$

ORS18a; adapted CIELAB data	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	47.94	65.39	50.52	82.63	38
Y <sub>Ma</sub>	90.37	-10.26	91.75	92.32	96
L <sub>Ma</sub>	50.9	-62.83	34.96	71.91	151
C <sub>Ma</sub>	58.62	-30.34	-45.01	54.3	236
V <sub>Ma</sub>	25.72	31.1	-44.4	54.22	305
M <sub>Ma</sub>	48.13	75.28	-8.36	75.74	354
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.66	26.98	64.57	25
J <sub>CIE</sub>	81.26	-2.16	67.76	67.79	92
G <sub>CIE</sub>	52.23	-42.25	11.76	43.87	164
B <sub>CIE</sub>	30.57	1.15	-46.84	46.86	271



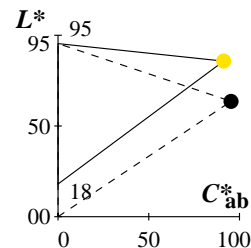
**%Gamut**  
 $u^*_{rel} = 94$   
**%Regularity**  
 $g^*_{H,rel} = 58$   
 $g^*_{C,rel} = 54$

ORS18	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>M</sub>	47.94	65.31	52.07	83.53	39
Y <sub>M</sub>	90.37	-11.15	96.17	96.82	97
L <sub>M</sub>	50.9	-62.96	36.71	72.89	150
C <sub>M</sub>	58.62	-30.62	-42.74	52.59	234
V <sub>M</sub>	25.72	31.45	-44.35	54.38	305
M <sub>M</sub>	48.13	75.2	-6.79	75.51	355
N <sub>M</sub>	18.01	0.5	-0.46	0.69	317
W <sub>M</sub>	95.41	-0.98	4.76	4.86	102
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

Relative CIELAB chroma diagram: ( $a^*_r = lab*a$ ,  $b^*_r = lab*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)  
NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)  
ORS18: Output (o) colorimetric system; Six hue angles of the colour device: (37.7, 96.4, 150.9, 236.0, 305.0, 353.7); Four hue angles of the elementary colours: (24.7, 91.8, 164.5, 271.4)

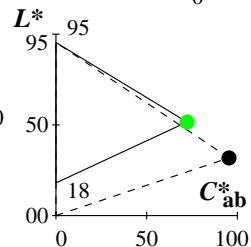
#### Y Yellow

$olv3Mi = 1.0 \ 1.0 \ 0.0$   
 $olv3Mo = 1.0 \ 0.891 \ 0.0$   
 $LCHMi = 63.6 \ 95.4 \ 90$   
 $LCHo = 85.8 \ 91.3 \ 90$   
 $tchMi = 0.5 \ 1.0 \ 0.25$   
 $tchMo = 0.5 \ 1.0 \ 0.25$



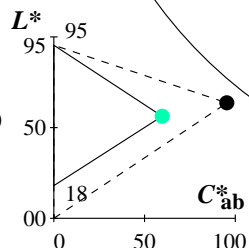
#### L Leaf green

$olv3Mi = 0.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.017 \ 1.0 \ 0.0$   
 $LCHMi = 31.8 \ 95.4 \ 150$   
 $LCHo = 51.6 \ 72.2 \ 150$   
 $tchMi = 0.5 \ 1.0 \ 0.417$   
 $tchMo = 0.5 \ 1.0 \ 0.417$



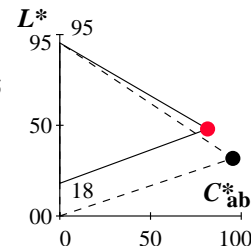
#### C Cyan blue

$olv3Mi = 0.0 \ 1.0 \ 1.0$   
 $olv3Mo = 0.0 \ 1.0 \ 0.694$   
 $LCHMi = 63.6 \ 95.4 \ 210$   
 $LCHo = 56.3 \ 59.7 \ 210$   
 $tchMi = 0.5 \ 1.0 \ 0.583$   
 $tchMo = 0.5 \ 1.0 \ 0.583$



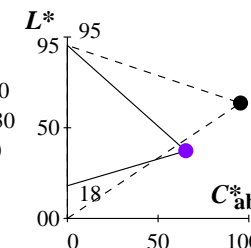
#### O Orange red

$olv3Mi = 1.0 \ 0.0 \ 0.0$   
 $olv3Mo = 1.0 \ 0.0 \ 0.175$   
 $LCHMi = 31.8 \ 95.4 \ 30$   
 $LCHo = 48.0 \ 81.4 \ 30$   
 $tchMi = 0.5 \ 1.0 \ 0.083$   
 $tchMo = 0.5 \ 1.0 \ 0.083$



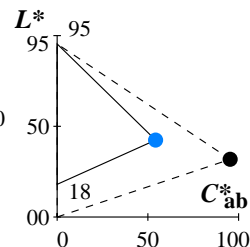
#### M Magenta red

$olv3Mi = 1.0 \ 0.0 \ 1.0$   
 $olv3Mo = 0.514 \ 0.0 \ 1.0$   
 $LCHMi = 63.6 \ 95.4 \ 330$   
 $LCHo = 37.2 \ 65.3 \ 330$   
 $tchMi = 0.5 \ 1.0 \ 0.917$   
 $tchMo = 0.5 \ 1.0 \ 0.917$

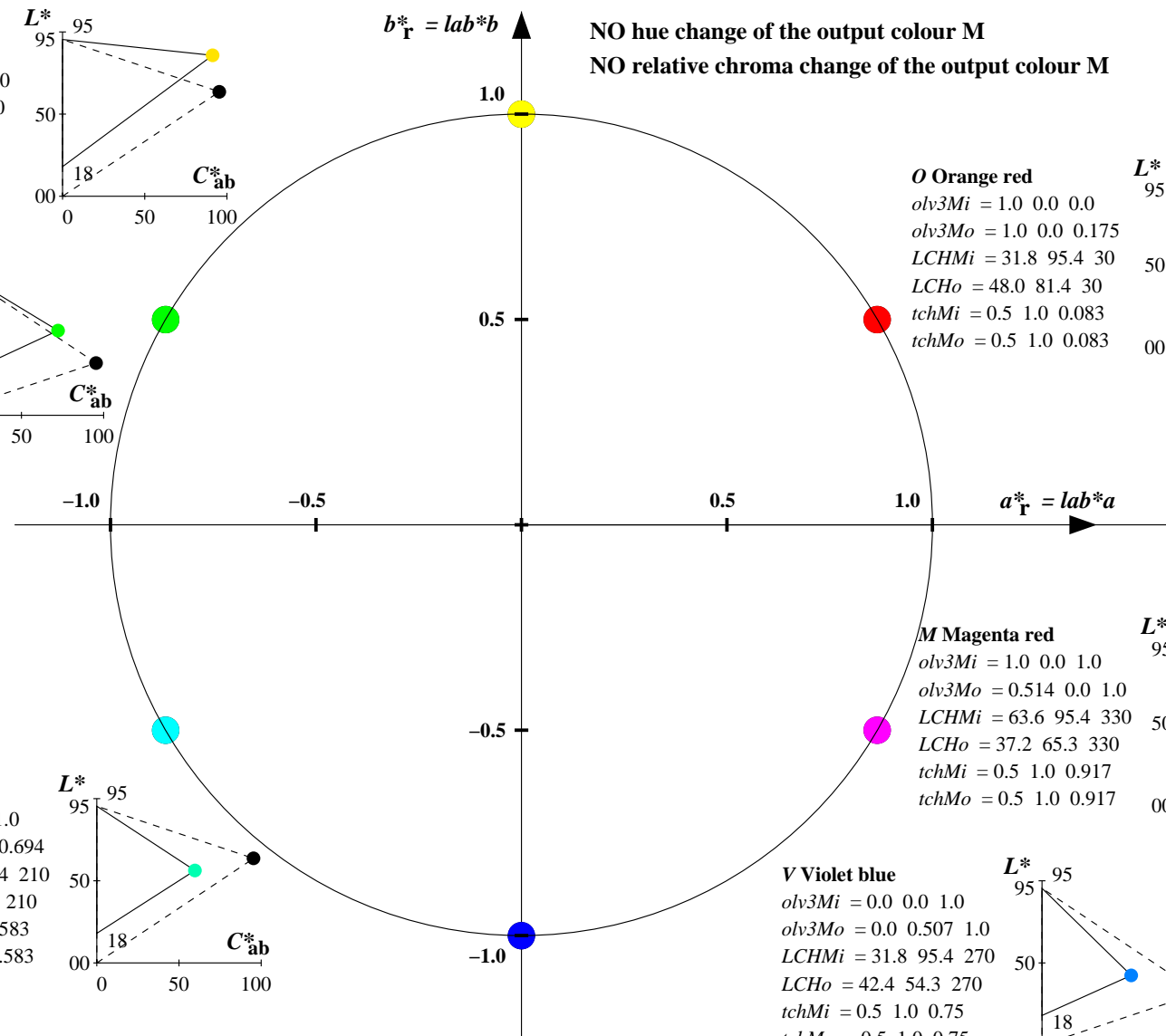


#### V Violet blue

$olv3Mi = 0.0 \ 0.0 \ 1.0$   
 $olv3Mo = 0.0 \ 0.507 \ 1.0$   
 $LCHMi = 31.8 \ 95.4 \ 270$   
 $LCHo = 42.4 \ 54.3 \ 270$   
 $tchMi = 0.5 \ 1.0 \ 0.75$   
 $tchMo = 0.5 \ 1.0 \ 0.75$



NO hue change of the output colour M  
NO relative chroma change of the output colour M



Relative CIELAB chroma diagram: ( $a^*_r = lab^*a$ ,  $b^*_r = lab^*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)  
NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)  
ORS18: Output (o) colorimetric system; Six hue angles of the colour device: (37.7, 96.4, 150.9, 236.0, 305.0, 353.7); Four hue angles of the elementary colours: (24.7, 91.8, 164.5, 271.4)

#### Y Yellow

$olv3Mi = 1.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.934 \ 1.0 \ 0.0$   
 $LCHMi = 63.6 \ 95.4 \ 90$   
 $LCHo = 87.7 \ 91.0 \ 100$   
 $tchMi = 0.5 \ 1.0 \ 0.25$   
 $tchMo = 0.5 \ 1.0 \ 0.278$

#### L Leaf green

$olv3Mi = 0.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.0 \ 1.0 \ 0.107$   
 $LCHMi = 31.8 \ 95.4 \ 150$   
 $LCHo = 51.7 \ 70.0 \ 160$   
 $tchMi = 0.5 \ 1.0 \ 0.417$   
 $tchMo = 0.5 \ 1.0 \ 0.444$

#### C Cyan blue

$olv3Mi = 0.0 \ 1.0 \ 1.0$   
 $olv3Mo = 0.0 \ 1.0 \ 0.812$   
 $LCHMi = 63.6 \ 95.4 \ 210$   
 $LCHo = 57.2 \ 57.6 \ 220$   
 $tchMi = 0.5 \ 1.0 \ 0.583$   
 $tchMo = 0.5 \ 1.0 \ 0.611$

#### V Violet blue

$olv3Mi = 0.0 \ 0.0 \ 1.0$   
 $olv3Mo = 0.0 \ 0.362 \ 1.0$   
 $LCHMi = 31.8 \ 95.4 \ 270$   
 $LCHo = 37.6 \ 54.2 \ 280$   
 $tchMi = 0.5 \ 1.0 \ 0.75$   
 $tchMo = 0.5 \ 1.0 \ 0.778$

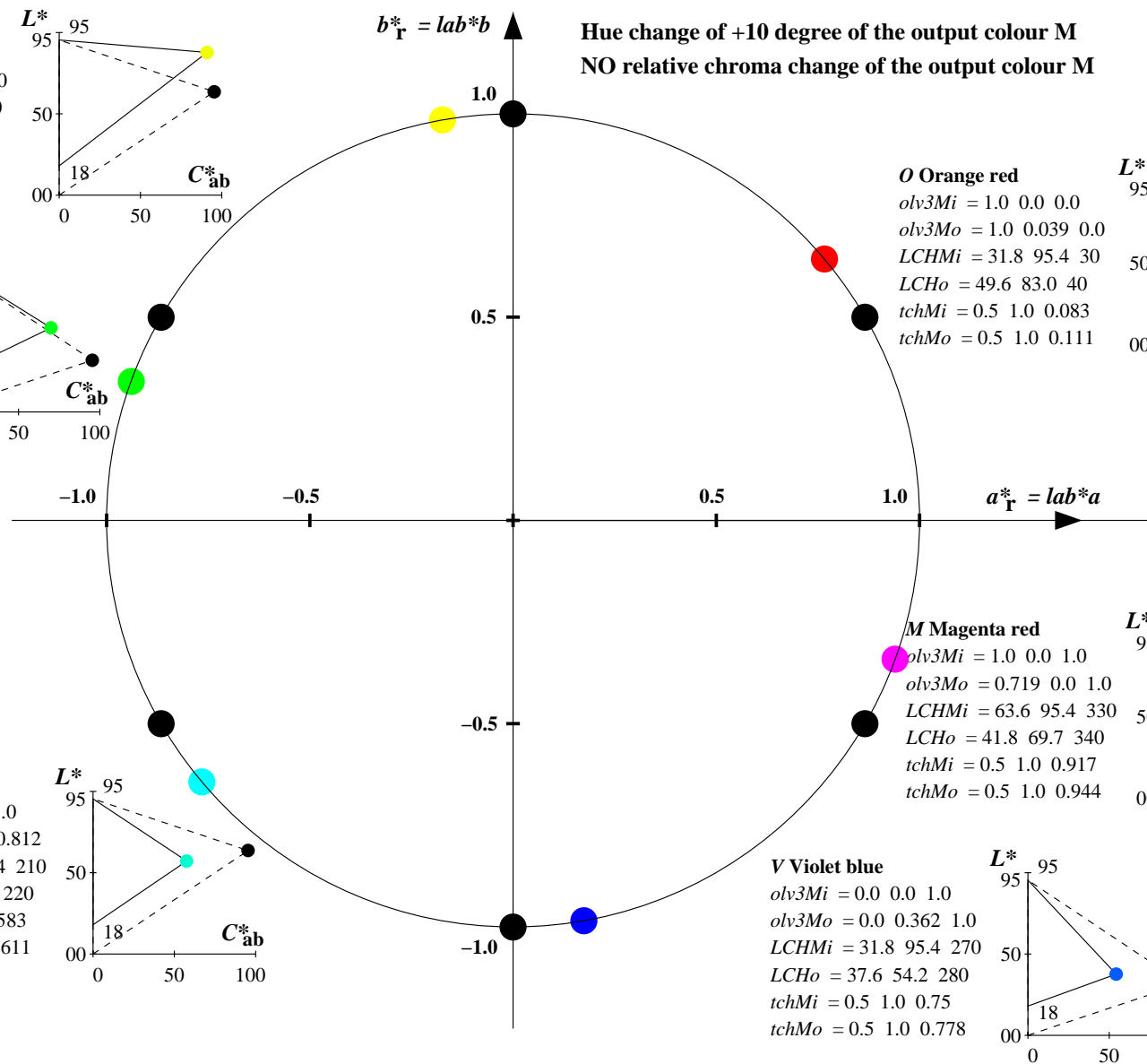
#### M Magenta red

$olv3Mi = 1.0 \ 0.0 \ 1.0$   
 $olv3Mo = 0.719 \ 0.0 \ 1.0$   
 $LCHMi = 63.6 \ 95.4 \ 330$   
 $LCHo = 41.8 \ 69.7 \ 340$   
 $tchMi = 0.5 \ 1.0 \ 0.917$   
 $tchMo = 0.5 \ 1.0 \ 0.944$

#### O Orange red

$olv3Mi = 1.0 \ 0.0 \ 0.0$   
 $olv3Mo = 1.0 \ 0.039 \ 0.0$   
 $LCHMi = 31.8 \ 95.4 \ 30$   
 $LCHo = 49.6 \ 83.0 \ 40$   
 $tchMi = 0.5 \ 1.0 \ 0.083$   
 $tchMo = 0.5 \ 1.0 \ 0.111$

Hue change of +10 degree of the output colour M  
NO relative chroma change of the output colour M



-See for similar files: <http://www.ps.bam.de/YE64/>  
 Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1

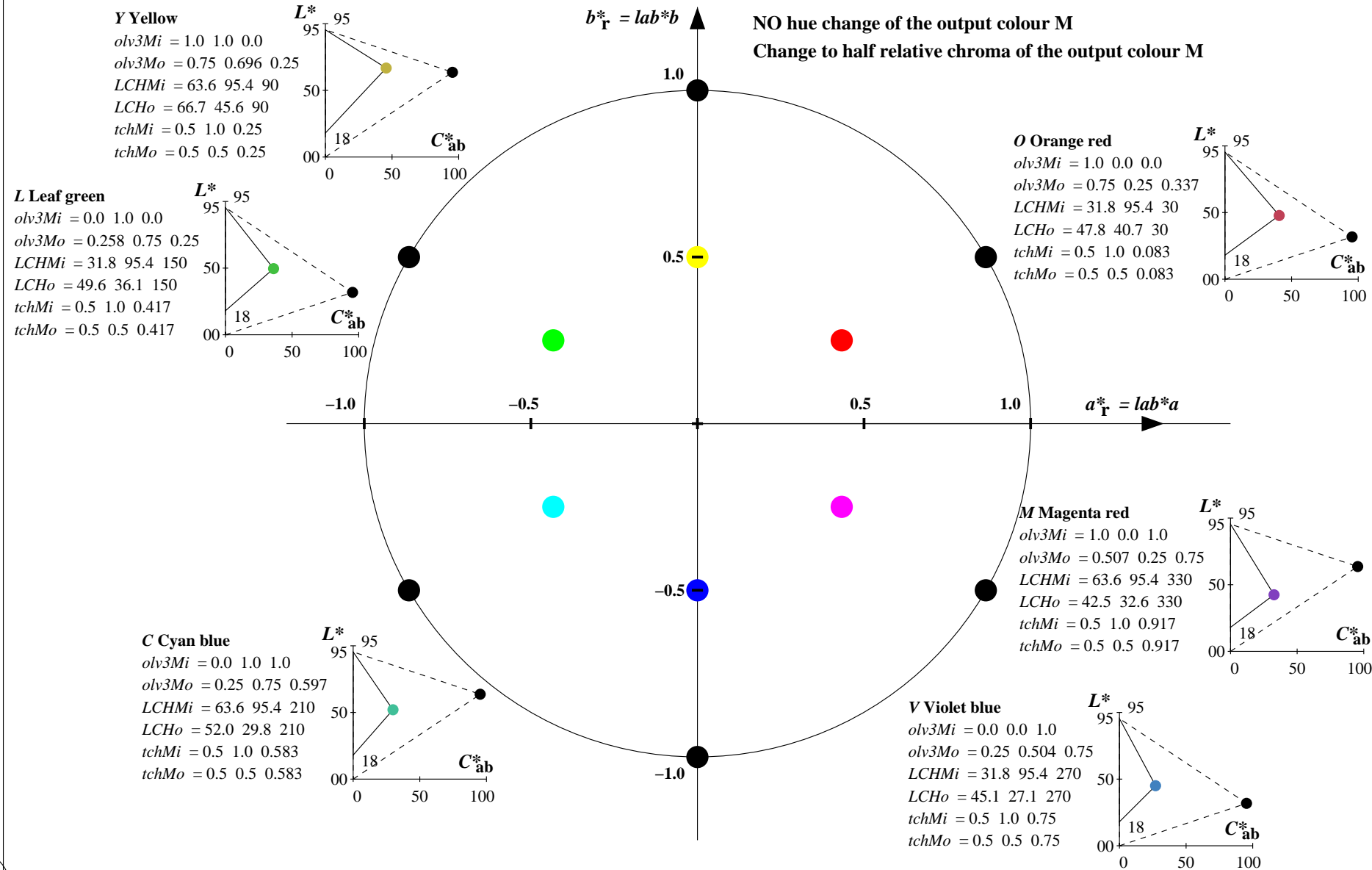
BAM registration: 20061101-YE64/10L/L64E40NP.PS.PDF      BAM material: code=rha4ta  
application for evaluation and measurement of printer or monitor systems

/YE64 Form 4/8,      Series: 1/1,      Page: 4      Page: count 1

Relative CIELAB chroma diagram: ( $a_r^* = lab^*a$ ,  $b_r^* = lab^*a$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C_{ab}^*$ ) for input (--) and output (---)

**NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)**

**ORS18: Output (o) colorimetric system; Six hue angles of the colour device: (37.7, 96.4, 150.9, 236.0, 305.0, 353.7); Four hue angles of the elementary colours: (24.7, 91.8, 164.5, 271.4)**

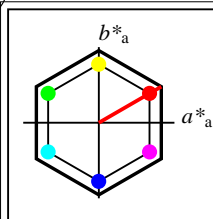


YE640-7, Colour Management Workflow: Device Colour Input Data of the Colour Space NLS00 -> Device Colour Output Data of Output Space ORS18, page 4/32

BAM-test chart YE64; Colorimetric workflow NLS00->ORS18 input: *olv\* setrgbcolor*

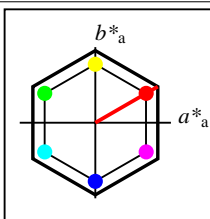
D65: 6 basic colours; Device and sample data; page 4/32

output: no change compared to input



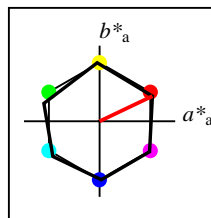
**%Gamut**  
 $u^*_{rel} = 152$   
**%Regularity**  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$

NLS00	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>M</sub>	31.81	82.62	47.7	95.4	30
Y <sub>M</sub>	63.61	0.0	95.4	95.4	90
L <sub>M</sub>	31.81	-82.61	47.7	95.4	150
C <sub>M</sub>	63.61	-82.61	-47.69	95.4	210
V <sub>M</sub>	31.81	0.0	-95.39	95.4	270
M <sub>M</sub>	63.61	82.62	-47.69	95.4	330
N <sub>M</sub>	0.01	0.0	0.0	0.0	0
W <sub>M</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 152$   
**%Regularity**  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$

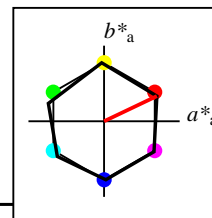
NLS00a; adapted CIELAB data	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	31.81	82.62	47.7	95.4	30
Y <sub>Ma</sub>	63.61	0.0	95.4	95.4	90
L <sub>Ma</sub>	31.81	-82.61	47.7	95.4	150
C <sub>Ma</sub>	63.61	-82.61	-47.69	95.4	210
V <sub>Ma</sub>	31.81	0.0	-95.39	95.4	270
M <sub>Ma</sub>	63.61	82.62	-47.69	95.4	330
N <sub>Ma</sub>	0.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 100$   
**%Regularity**  
 $g^*_{H,rel} = 78$   
 $g^*_{C,rel} = 100$

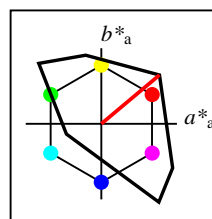
NRS18a; adapted CIELAB data	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	56.71	69.87	33.29	77.4	25
Y <sub>Ma</sub>	56.71	-3.1	77.34	77.4	92
L <sub>Ma</sub>	56.71	-73.68	23.63	77.39	162
C <sub>Ma</sub>	56.71	-61.81	-46.54	77.39	217
V <sub>Ma</sub>	56.71	2.35	-77.34	77.39	272
M <sub>Ma</sub>	56.71	66.07	-40.3	77.4	329
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

Workflow choices  
for colour samples:  
1. No colour change  
2. Hue change  
3. Chroma change



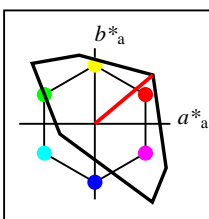
**%Gamut**  
 $u^*_{rel} = 100$   
**%Regularity**  
 $g^*_{H,rel} = 78$   
 $g^*_{C,rel} = 100$

NRS18a; adapted CIELAB data	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	56.71	69.87	33.29	77.4	25
Y <sub>Ma</sub>	56.71	-3.1	77.34	77.4	92
L <sub>Ma</sub>	56.71	-73.68	23.63	77.39	162
C <sub>Ma</sub>	56.71	-61.81	-46.54	77.39	217
V <sub>Ma</sub>	56.71	2.35	-77.34	77.39	272
M <sub>Ma</sub>	56.71	66.07	-40.3	77.4	329
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 158$   
**%Regularity**  
 $g^*_{H,rel} = 20$   
 $g^*_{C,rel} = 37$

TLS00a; adapted CIELAB data	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	50.5	76.92	64.55	100.42	40
Y <sub>Ma</sub>	92.66	-20.69	90.75	93.08	103
L <sub>Ma</sub>	83.63	-82.75	79.9	115.04	136
C <sub>Ma</sub>	86.88	-46.16	-13.55	48.12	196
V <sub>Ma</sub>	30.39	76.06	-103.59	128.52	306
M <sub>Ma</sub>	57.3	94.35	-58.41	110.97	328
N <sub>Ma</sub>	0.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 158$   
**%Regularity**  
 $g^*_{H,rel} = 20$   
 $g^*_{C,rel} = 37$

TLS00	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>M</sub>	50.5	76.92	64.55	100.42	40
Y <sub>M</sub>	92.66	-20.69	90.75	93.08	103
L <sub>M</sub>	83.63	-82.75	79.9	115.04	136
C <sub>M</sub>	86.88	-46.16	-13.55	48.12	196
V <sub>M</sub>	30.39	76.06	-103.59	128.52	306
M <sub>M</sub>	57.3	94.35	-58.41	110.97	328
N <sub>M</sub>	0.01	0.0	0.0	0.0	0
W <sub>M</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



Relative CIELAB chroma diagram: ( $a^*_R = lab*a$ ,  $b^*_R = lab*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)  
NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)  
TLS00: Output (o) colorimetric system; Six hue angles of the colour device: (40.0, 102.8, 136.0, 196.4, 306.3, 328.2); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

#### Y Yellow

$olv3Mi = 1.0 \ 1.0 \ 0.0$   
 $olv3Mo = 1.0 \ 0.796 \ 0.0$   
 $LCHMi = 63.6 \ 95.4 \ 90$   
 $LCHo = 84.0 \ 94.6 \ 90$   
 $tchMi = 0.5 \ 1.0 \ 0.25$   
 $tchMo = 0.5 \ 1.0 \ 0.25$

#### L Leaf green

$olv3Mi = 0.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.0 \ 1.0 \ 0.232$   
 $LCHMi = 31.8 \ 95.4 \ 150$   
 $LCHo = 84.4 \ 99.5 \ 150$   
 $tchMi = 0.5 \ 1.0 \ 0.417$   
 $tchMo = 0.5 \ 1.0 \ 0.417$

#### C Cyan blue

$olv3Mi = 0.0 \ 1.0 \ 1.0$   
 $olv3Mo = 0.0 \ 0.876 \ 1.0$   
 $LCHMi = 63.6 \ 95.4 \ 210$   
 $LCHo = 79.9 \ 58.1 \ 210$   
 $tchMi = 0.5 \ 1.0 \ 0.583$   
 $tchMo = 0.5 \ 1.0 \ 0.583$

#### V Violet blue

$olv3Mi = 0.0 \ 0.0 \ 1.0$   
 $olv3Mo = 0.0 \ 0.33 \ 1.0$   
 $LCHMi = 31.8 \ 95.4 \ 270$   
 $LCHo = 49.0 \ 102.0 \ 270$   
 $tchMi = 0.5 \ 1.0 \ 0.75$   
 $tchMo = 0.5 \ 1.0 \ 0.75$

#### M Magenta red

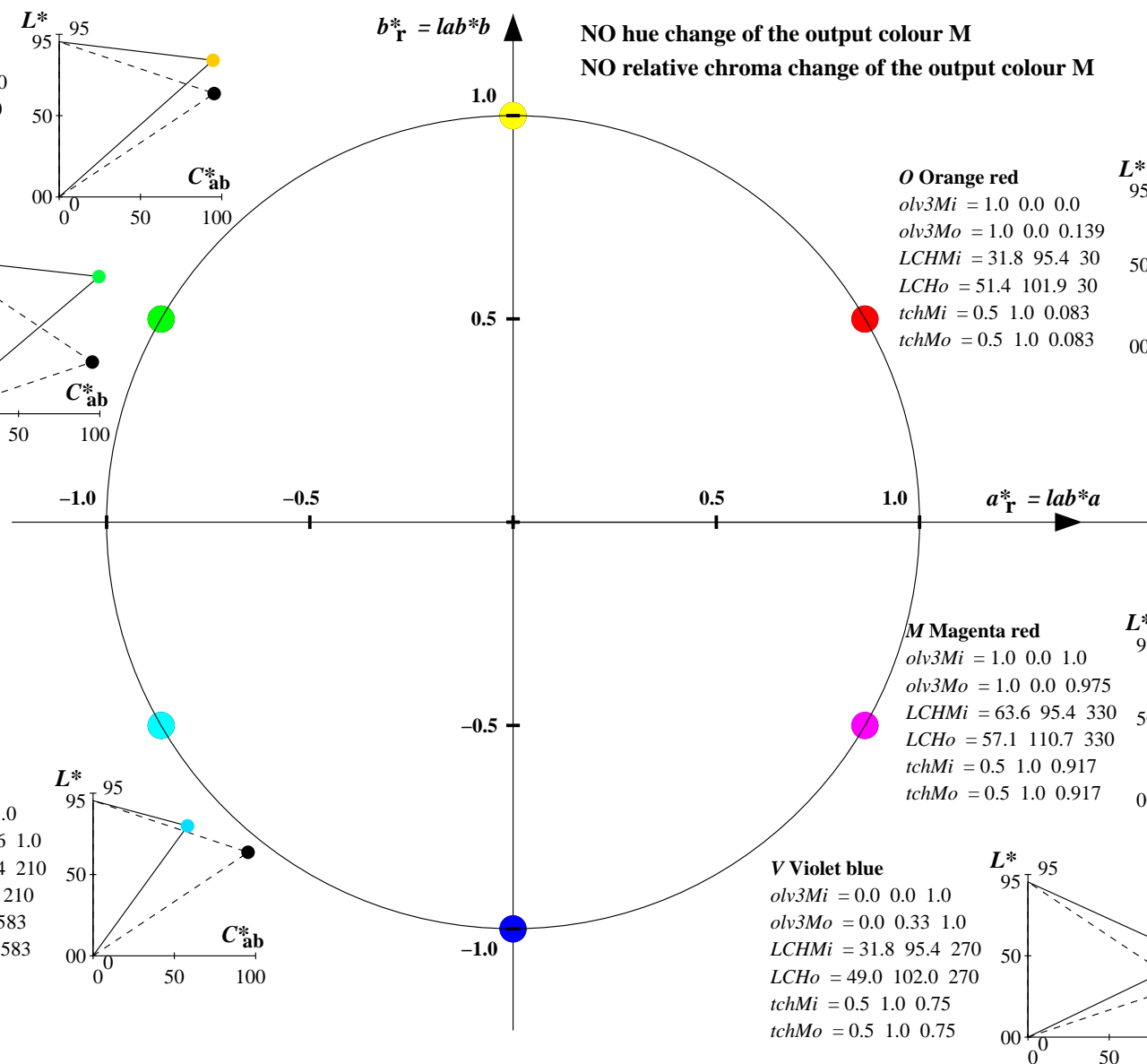
$olv3Mi = 1.0 \ 0.0 \ 1.0$   
 $olv3Mo = 1.0 \ 0.0 \ 0.975$   
 $LCHMi = 63.6 \ 95.4 \ 330$   
 $LCHo = 57.1 \ 110.7 \ 330$   
 $tchMi = 0.5 \ 1.0 \ 0.917$   
 $tchMo = 0.5 \ 1.0 \ 0.917$

#### O Orange red

$olv3Mi = 1.0 \ 0.0 \ 0.0$   
 $olv3Mo = 1.0 \ 0.0 \ 0.139$   
 $LCHMi = 31.8 \ 95.4 \ 30$   
 $LCHo = 51.4 \ 101.9 \ 30$   
 $tchMi = 0.5 \ 1.0 \ 0.083$   
 $tchMo = 0.5 \ 1.0 \ 0.083$

NO hue change of the output colour M

NO relative chroma change of the output colour M



Relative CIELAB chroma diagram: ( $a^*_r = lab*a$ ,  $b^*_r = lab*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)  
NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)  
TLS00: Output (o) colorimetric system; Six hue angles of the colour device: (40.0, 102.8, 136.0, 196.4, 306.3, 328.2); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

**Y Yellow**

$olv3Mi = 1.0 \ 1.0 \ 0.0$   
 $olv3Mo = 1.0 \ 0.955 \ 0.0$   
 $LCHMi = 63.6 \ 95.4 \ 90$   
 $LCHo = 90.8 \ 93.4 \ 100$   
 $tchMi = 0.5 \ 1.0 \ 0.25$   
 $tchMo = 0.5 \ 1.0 \ 0.278$

**L Leaf green**

$olv3Mi = 0.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.0 \ 1.0 \ 0.398$   
 $LCHMi = 31.8 \ 95.4 \ 150$   
 $LCHo = 84.9 \ 88.4 \ 160$   
 $tchMi = 0.5 \ 1.0 \ 0.417$   
 $tchMo = 0.5 \ 1.0 \ 0.444$

**C Cyan blue**

$olv3Mi = 0.0 \ 1.0 \ 1.0$   
 $olv3Mo = 0.0 \ 0.785 \ 1.0$   
 $LCHMi = 63.6 \ 95.4 \ 210$   
 $LCHo = 74.7 \ 65.4 \ 220$   
 $tchMi = 0.5 \ 1.0 \ 0.583$   
 $tchMo = 0.5 \ 1.0 \ 0.611$

**O Orange red**

$olv3Mi = 1.0 \ 0.0 \ 0.0$   
 $olv3Mo = 1.0 \ 0.0 \ 0.0$   
 $LCHMi = 31.8 \ 95.4 \ 30$   
 $LCHo = 50.5 \ 100.4 \ 40$   
 $tchMi = 0.5 \ 1.0 \ 0.083$   
 $tchMo = 0.5 \ 1.0 \ 0.111$

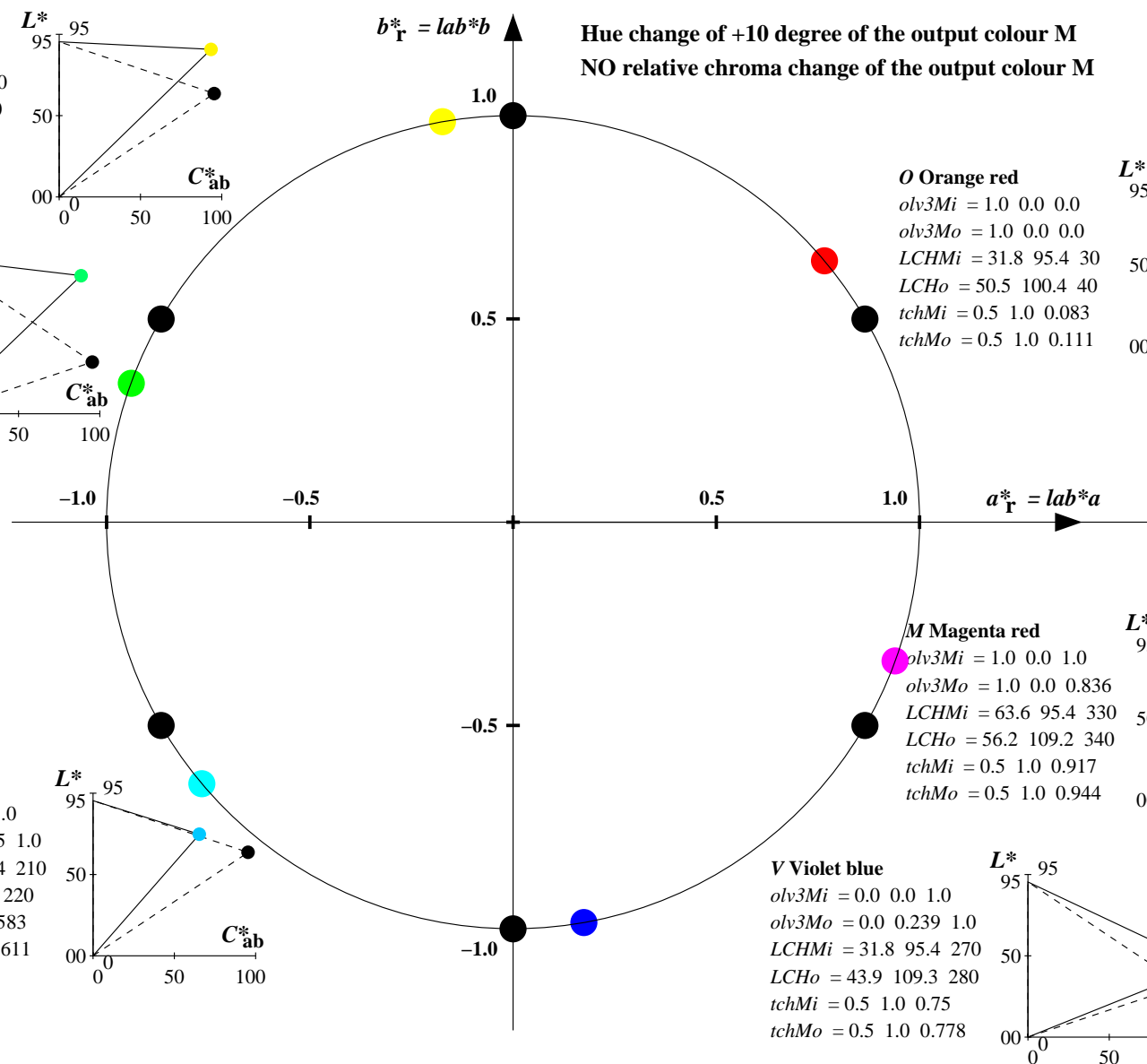
**M Magenta red**

$olv3Mi = 1.0 \ 0.0 \ 1.0$   
 $olv3Mo = 1.0 \ 0.0 \ 0.836$   
 $LCHMi = 63.6 \ 95.4 \ 330$   
 $LCHo = 56.2 \ 109.2 \ 340$   
 $tchMi = 0.5 \ 1.0 \ 0.917$   
 $tchMo = 0.5 \ 1.0 \ 0.944$

**V Violet blue**

$olv3Mi = 0.0 \ 0.0 \ 1.0$   
 $olv3Mo = 0.0 \ 0.239 \ 1.0$   
 $LCHMi = 31.8 \ 95.4 \ 270$   
 $LCHo = 43.9 \ 109.3 \ 280$   
 $tchMi = 0.5 \ 1.0 \ 0.75$   
 $tchMo = 0.5 \ 1.0 \ 0.778$

Hue change of +10 degree of the output colour M  
NO relative chroma change of the output colour M



Relative CIELAB chroma diagram: ( $a^*_r = lab*a$ ,  $b^*_r = lab*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)  
NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)  
TLS00: Output (o) colorimetric system; Six hue angles of the colour device: (40.0, 102.8, 136.0, 196.4, 306.3, 328.2); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

#### Y Yellow

$olv3Mi = 1.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.75 \ 0.648 \ 0.25$   
 $LCHMi = 63.6 \ 95.4 \ 90$   
 $LCHo = 65.9 \ 47.3 \ 90$   
 $tchMi = 0.5 \ 1.0 \ 0.25$   
 $tchMo = 0.5 \ 0.5 \ 0.25$

#### L Leaf green

$olv3Mi = 0.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.25 \ 0.75 \ 0.366$   
 $LCHMi = 31.8 \ 95.4 \ 150$   
 $LCHo = 66.0 \ 49.8 \ 150$   
 $tchMi = 0.5 \ 1.0 \ 0.417$   
 $tchMo = 0.5 \ 0.5 \ 0.417$

#### C Cyan blue

$olv3Mi = 0.0 \ 1.0 \ 1.0$   
 $olv3Mo = 0.25 \ 0.688 \ 0.75$   
 $LCHMi = 63.6 \ 95.4 \ 210$   
 $LCHo = 63.8 \ 29.0 \ 210$   
 $tchMi = 0.5 \ 1.0 \ 0.583$   
 $tchMo = 0.5 \ 0.5 \ 0.583$

#### V Violet blue

$olv3Mi = 0.0 \ 0.0 \ 1.0$   
 $olv3Mo = 0.25 \ 0.415 \ 0.75$   
 $LCHMi = 31.8 \ 95.4 \ 270$   
 $LCHo = 48.4 \ 51.0 \ 270$   
 $tchMi = 0.5 \ 1.0 \ 0.75$   
 $tchMo = 0.5 \ 0.5 \ 0.75$

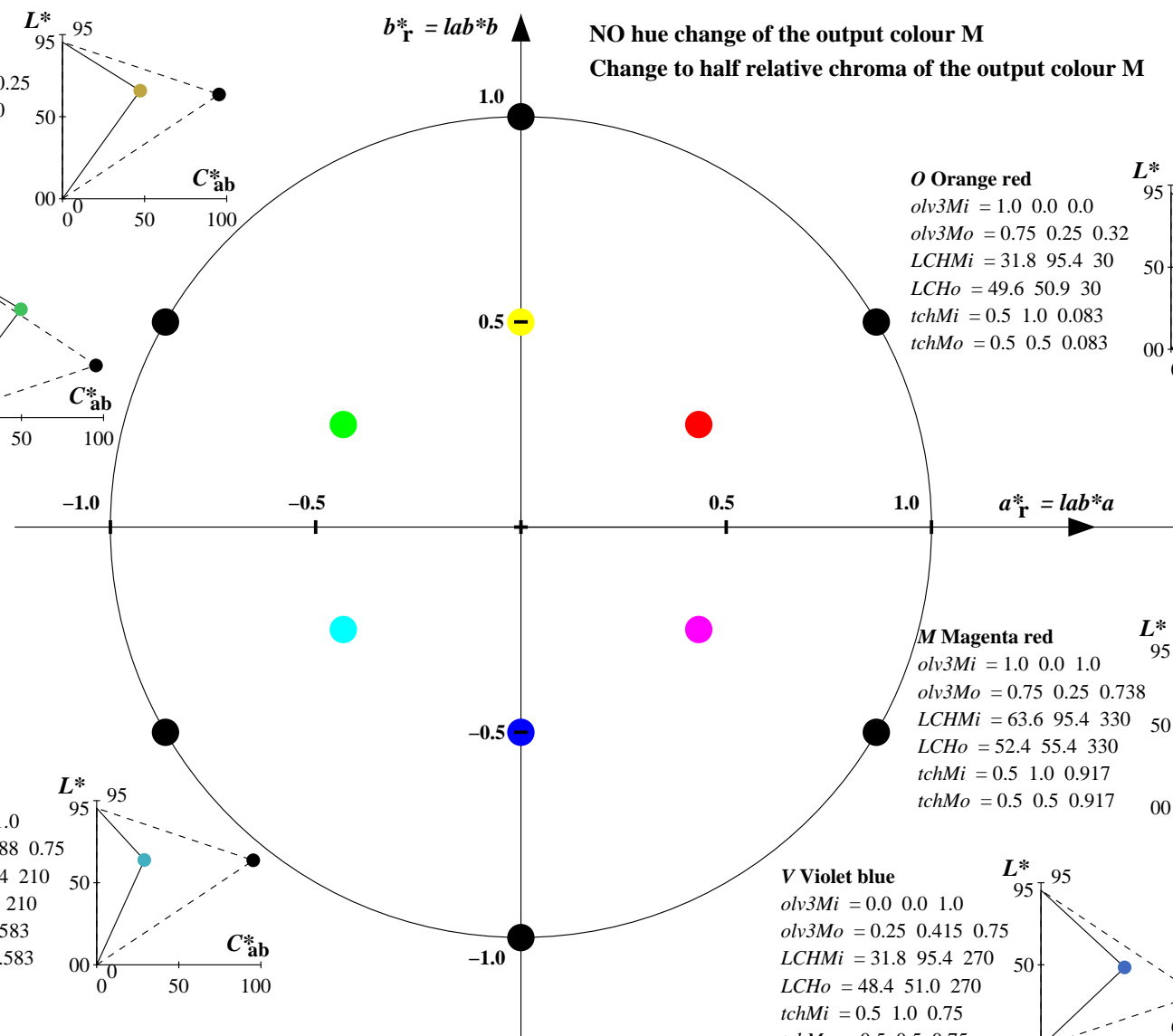
#### M Magenta red

$olv3Mi = 1.0 \ 0.0 \ 1.0$   
 $olv3Mo = 0.75 \ 0.25 \ 0.738$   
 $LCHMi = 63.6 \ 95.4 \ 330$   
 $LCHo = 52.4 \ 55.4 \ 330$   
 $tchMi = 0.5 \ 1.0 \ 0.917$   
 $tchMo = 0.5 \ 0.5 \ 0.917$

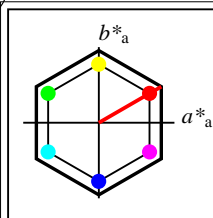
#### O Orange red

$olv3Mi = 1.0 \ 0.0 \ 0.0$   
 $olv3Mo = 0.75 \ 0.25 \ 0.32$   
 $LCHMi = 31.8 \ 95.4 \ 30$   
 $LCHo = 49.6 \ 50.9 \ 30$   
 $tchMi = 0.5 \ 1.0 \ 0.083$   
 $tchMo = 0.5 \ 0.5 \ 0.083$

NO hue change of the output colour M  
Change to half relative chroma of the output colour M

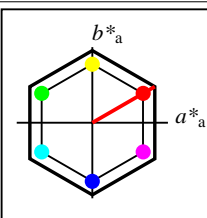






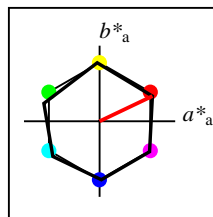
**%Gamut**  
 $u^*_{rel} = 152$   
**%Regularity**  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>M</sub>	31.81	82.62	47.7	95.4	30
Y <sub>M</sub>	63.61	0.0	95.4	95.4	90
L <sub>M</sub>	31.81	-82.61	47.7	95.4	150
C <sub>M</sub>	63.61	-82.61	-47.69	95.4	210
V <sub>M</sub>	31.81	0.0	-95.39	95.4	270
M <sub>M</sub>	63.61	82.62	-47.69	95.4	330
N <sub>M</sub>	0.01	0.0	0.0	0.0	0
W <sub>M</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 152$   
**%Regularity**  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$

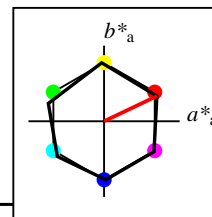
	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	31.81	82.62	47.7	95.4	30
Y <sub>Ma</sub>	63.61	0.0	95.4	95.4	90
L <sub>Ma</sub>	31.81	-82.61	47.7	95.4	150
C <sub>Ma</sub>	63.61	-82.61	-47.69	95.4	210
V <sub>Ma</sub>	31.81	0.0	-95.39	95.4	270
M <sub>Ma</sub>	63.61	82.62	-47.69	95.4	330
N <sub>Ma</sub>	0.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 100$   
**%Regularity**  
 $g^*_{H,rel} = 78$   
 $g^*_{C,rel} = 100$

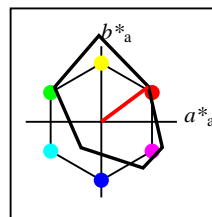
	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	56.71	69.87	33.29	77.4	25
Y <sub>Ma</sub>	56.71	-3.1	77.34	77.4	92
L <sub>Ma</sub>	56.71	-73.68	23.63	77.39	162
C <sub>Ma</sub>	56.71	-61.81	-46.54	77.39	217
V <sub>Ma</sub>	56.71	2.35	-77.34	77.39	272
M <sub>Ma</sub>	56.71	66.07	-40.3	77.4	329
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

Workflow choices  
for colour samples:  
1. No colour change  
2. Hue change  
3. Chroma change



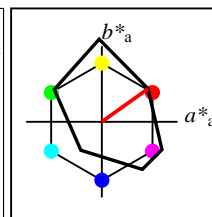
**%Gamut**  
 $u^*_{rel} = 100$   
**%Regularity**  
 $g^*_{H,rel} = 78$   
 $g^*_{C,rel} = 100$

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	56.71	69.87	33.29	77.4	25
Y <sub>Ma</sub>	56.71	-3.1	77.34	77.4	92
L <sub>Ma</sub>	56.71	-73.68	23.63	77.39	162
C <sub>Ma</sub>	56.71	-61.81	-46.54	77.39	217
V <sub>Ma</sub>	56.71	2.35	-77.34	77.39	272
M <sub>Ma</sub>	56.71	66.07	-40.3	77.4	329
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 115$   
**%Regularity**  
 $g^*_{H,rel} = 28$   
 $g^*_{C,rel} = 38$

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	32.57	62.32	46.49	77.75	37
Y <sub>Ma</sub>	82.73	-3.16	113.99	114.03	92
L <sub>Ma</sub>	39.43	-61.79	45.84	76.95	143
C <sub>Ma</sub>	47.86	-26.79	-34.24	43.49	232
V <sub>Ma</sub>	10.16	55.12	-61.03	82.24	312
M <sub>Ma</sub>	34.5	80.68	-33.92	87.52	337
N <sub>Ma</sub>	6.25	0.0	0.0	0.0	0
W <sub>Ma</sub>	91.97	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	59.8	31.05	67.38	27
J <sub>CIE</sub>	81.26	-2.52	76.25	76.29	92
G <sub>CIE</sub>	52.23	-41.56	17.14	44.96	158
B <sub>CIE</sub>	30.57	2.63	-43.77	43.86	273



**%Gamut**  
 $u^*_{rel} = 114$   
**%Regularity**  
 $g^*_{H,rel} = 28$   
 $g^*_{C,rel} = 43$

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>M</sub>	32.57	61.14	43.72	75.16	36
Y <sub>M</sub>	82.73	-3.5	109.24	109.3	92
L <sub>M</sub>	39.43	-62.86	42.8	76.06	146
C <sub>M</sub>	47.86	-27.72	-37.61	46.74	234
V <sub>M</sub>	10.16	53.56	-62.91	82.63	310
M <sub>M</sub>	34.5	79.53	-36.76	87.62	335
N <sub>M</sub>	6.25	-1.62	-1.72	2.38	227
W <sub>M</sub>	91.97	-0.17	-5.1	5.11	268
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

Relative CIELAB chroma diagram: ( $a^*_R = lab*a$ ,  $b^*_R = lab*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)

NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

FRS06: Output (o) colorimetric system; Six hue angles of the colour device: (36.7, 91.6, 143.4, 232.0, 312.1, 337.2); Four hue angles of the elementary colours: (27.4, 91.9, 157.6, 273.4)

**Y Yellow**

$olv3Mi = 1.0 \ 1.0 \ 0.0$   
 $olv3Mo = 1.0 \ 0.971 \ 0.0$   
 $LCHMi = 63.6 \ 95.4 \ 90$   
 $LCHo = 81.3 \ 113.0 \ 90$   
 $tchMi = 0.5 \ 1.0 \ 0.25$   
 $tchMo = 0.5 \ 1.0 \ 0.25$

**L Leaf green**

$olv3Mi = 0.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.0 \ 1.0 \ 0.074$   
 $LCHMi = 31.8 \ 95.4 \ 150$   
 $LCHo = 40.1 \ 74.5 \ 150$   
 $tchMi = 0.5 \ 1.0 \ 0.417$   
 $tchMo = 0.5 \ 1.0 \ 0.417$

**C Cyan blue**

$olv3Mi = 0.0 \ 1.0 \ 1.0$   
 $olv3Mo = 0.0 \ 1.0 \ 0.752$   
 $LCHMi = 63.6 \ 95.4 \ 210$   
 $LCHo = 45.8 \ 51.8 \ 210$   
 $tchMi = 0.5 \ 1.0 \ 0.583$   
 $tchMo = 0.5 \ 1.0 \ 0.583$

**V Violet blue**

$olv3Mi = 0.0 \ 0.0 \ 1.0$   
 $olv3Mo = 0.0 \ 0.525 \ 1.0$   
 $LCHMi = 31.8 \ 95.4 \ 270$   
 $LCHo = 30.0 \ 61.9 \ 270$   
 $tchMi = 0.5 \ 1.0 \ 0.75$   
 $tchMo = 0.5 \ 1.0 \ 0.75$

**M Magenta red**

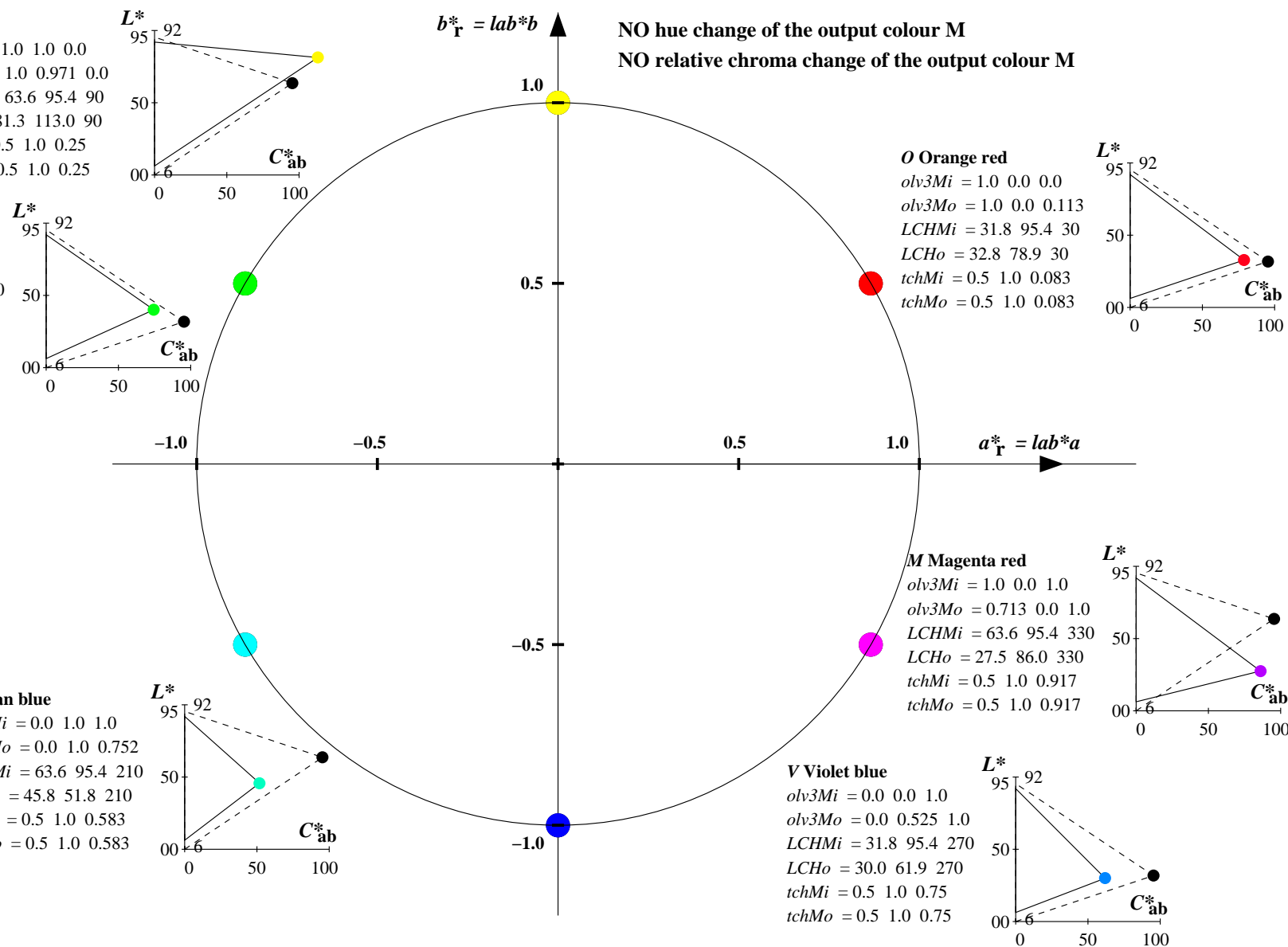
$olv3Mi = 1.0 \ 0.0 \ 1.0$   
 $olv3Mo = 0.713 \ 0.0 \ 1.0$   
 $LCHMi = 63.6 \ 95.4 \ 330$   
 $LCHo = 27.5 \ 86.0 \ 330$   
 $tchMi = 0.5 \ 1.0 \ 0.917$   
 $tchMo = 0.5 \ 1.0 \ 0.917$

**O Orange red**

$olv3Mi = 1.0 \ 0.0 \ 0.0$   
 $olv3Mo = 1.0 \ 0.0 \ 0.113$   
 $LCHMi = 31.8 \ 95.4 \ 30$   
 $LCHo = 32.8 \ 78.9 \ 30$   
 $tchMi = 0.5 \ 1.0 \ 0.083$   
 $tchMo = 0.5 \ 1.0 \ 0.083$

NO hue change of the output colour M

NO relative chroma change of the output colour M



Relative CIELAB chroma diagram: ( $a^*_r = lab*a$ ,  $b^*_r = lab*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)

NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

FRS06: Output (o) colorimetric system; Six hue angles of the colour device: (36.7, 91.6, 143.4, 232.0, 312.1, 337.2); Four hue angles of the elementary colours: (27.4, 91.9, 157.6, 273.4)

**Y Yellow**

$olv3Mi = 1.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.838 \ 1.0 \ 0.0$   
 $LCHMi = 63.6 \ 95.4 \ 90$   
 $LCHo = 75.7 \ 108.0 \ 100$   
 $tchMi = 0.5 \ 1.0 \ 0.25$   
 $tchMo = 0.5 \ 1.0 \ 0.278$

**L Leaf green**

$olv3Mi = 0.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.0 \ 1.0 \ 0.187$   
 $LCHMi = 31.8 \ 95.4 \ 150$   
 $LCHo = 41.0 \ 70.7 \ 160$   
 $tchMi = 0.5 \ 1.0 \ 0.417$   
 $tchMo = 0.5 \ 1.0 \ 0.444$

**C Cyan blue**

$olv3Mi = 0.0 \ 1.0 \ 1.0$   
 $olv3Mo = 0.0 \ 1.0 \ 0.865$   
 $LCHMi = 63.6 \ 95.4 \ 210$   
 $LCHo = 46.7 \ 48.0 \ 220$   
 $tchMi = 0.5 \ 1.0 \ 0.583$   
 $tchMo = 0.5 \ 1.0 \ 0.611$

**O Orange red**

$olv3Mi = 1.0 \ 0.0 \ 0.0$   
 $olv3Mo = 1.0 \ 0.06 \ 0.0$   
 $LCHMi = 31.8 \ 95.4 \ 30$   
 $LCHo = 35.6 \ 79.9 \ 40$   
 $tchMi = 0.5 \ 1.0 \ 0.083$   
 $tchMo = 0.5 \ 1.0 \ 0.111$

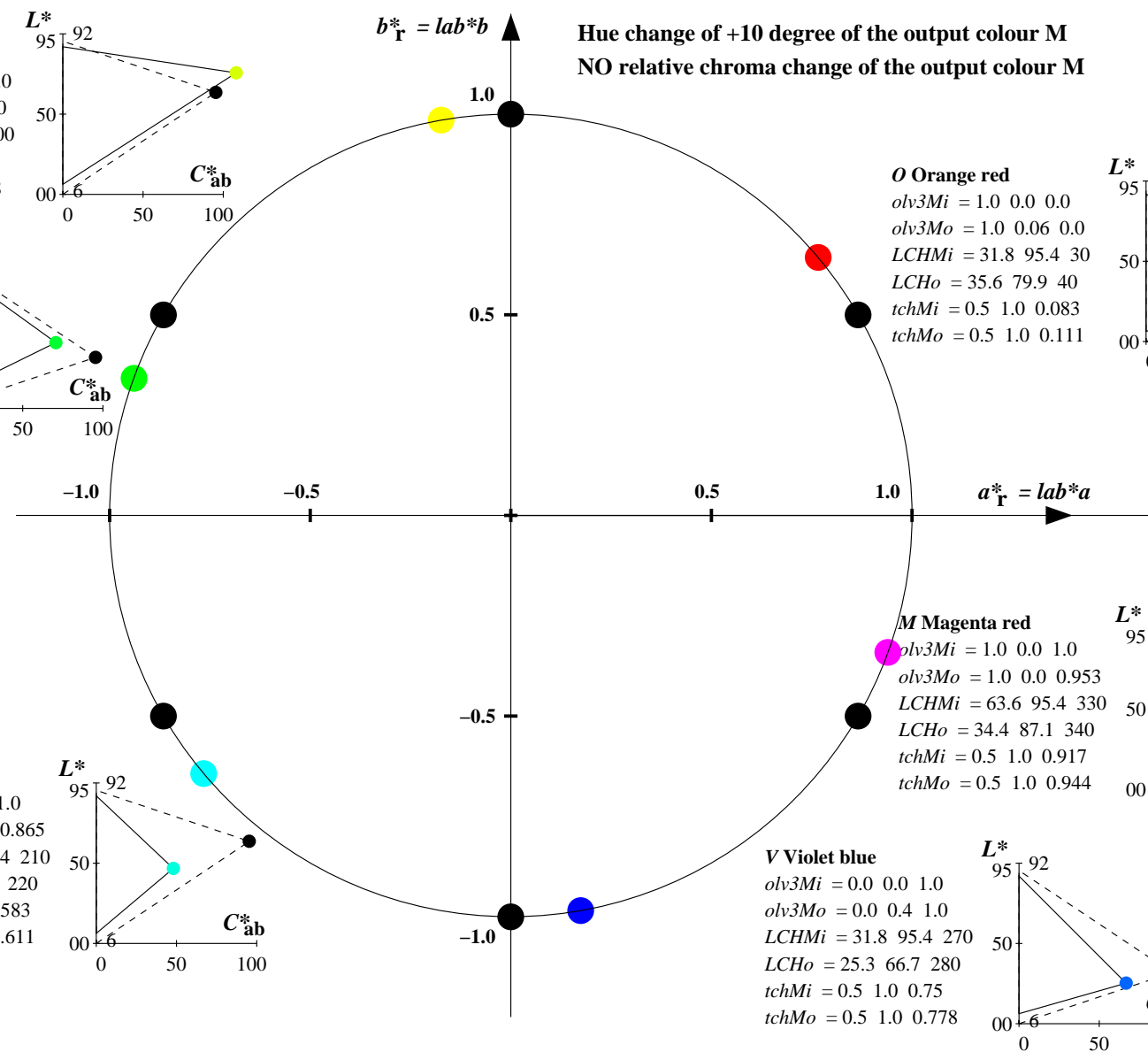
**M Magenta red**

$olv3Mi = 1.0 \ 0.0 \ 1.0$   
 $olv3Mo = 1.0 \ 0.0 \ 0.953$   
 $LCHMi = 63.6 \ 95.4 \ 330$   
 $LCHo = 34.4 \ 87.1 \ 340$   
 $tchMi = 0.5 \ 1.0 \ 0.917$   
 $tchMo = 0.5 \ 1.0 \ 0.944$

**V Violet blue**

$olv3Mi = 0.0 \ 0.0 \ 1.0$   
 $olv3Mo = 0.0 \ 0.4 \ 1.0$   
 $LCHMi = 31.8 \ 95.4 \ 270$   
 $LCHo = 25.3 \ 66.7 \ 280$   
 $tchMi = 0.5 \ 1.0 \ 0.75$   
 $tchMo = 0.5 \ 1.0 \ 0.778$

Hue change of +10 degree of the output colour M  
 NO relative chroma change of the output colour M



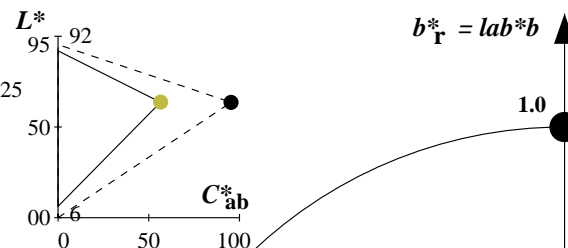
Relative CIELAB chroma diagram: ( $a^*_r = lab^*a$ ,  $b^*_r = lab^*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)

NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

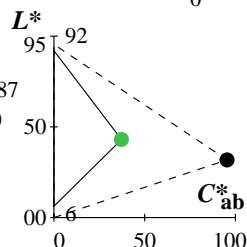
FRS06: Output (o) colorimetric system; Six hue angles of the colour device: (36.7, 91.6, 143.4, 232.0, 312.1, 337.2); Four hue angles of the elementary colours: (27.4, 91.9, 157.6, 273.4)

**Y Yellow**

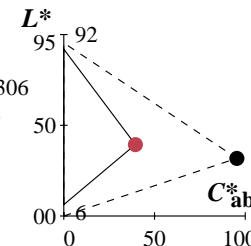
olv3Mi = 1.0 1.0 0.0  
 olv3Mo = 0.75 0.735 0.25  
 LCHMi = 63.6 95.4 90  
 LCHo = 63.6 56.5 90  
 tchMi = 0.5 1.0 0.25  
 tchMo = 0.5 0.5 0.25

**L Leaf green**

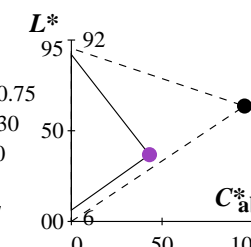
olv3Mi = 0.0 1.0 0.0  
 olv3Mo = 0.25 0.75 0.287  
 LCHMi = 31.8 95.4 150  
 LCHo = 43.0 37.2 150  
 tchMi = 0.5 1.0 0.417  
 tchMo = 0.5 0.5 0.417

**O Orange red**

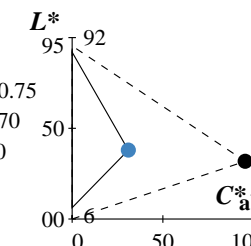
olv3Mi = 1.0 0.0 0.0  
 olv3Mo = 0.75 0.25 0.306  
 LCHMi = 31.8 95.4 30  
 LCHo = 39.4 39.4 30  
 tchMi = 0.5 1.0 0.083  
 tchMo = 0.5 0.5 0.083

**M Magenta red**

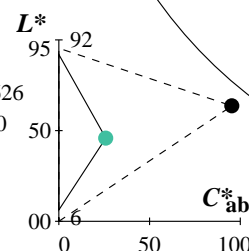
olv3Mi = 1.0 0.0 1.0  
 olv3Mo = 0.607 0.25 0.75  
 LCHMi = 63.6 95.4 330  
 LCHo = 36.8 43.0 330  
 tchMi = 0.5 1.0 0.917  
 tchMo = 0.5 0.5 0.917

**V Violet blue**

olv3Mi = 0.0 0.0 1.0  
 olv3Mo = 0.25 0.513 0.75  
 LCHMi = 31.8 95.4 270  
 LCHo = 38.0 30.9 270  
 tchMi = 0.5 1.0 0.75  
 tchMo = 0.5 0.5 0.75

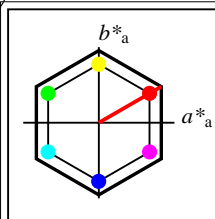
**C Cyan blue**

olv3Mi = 0.0 1.0 1.0  
 olv3Mo = 0.25 0.75 0.626  
 LCHMi = 63.6 95.4 210  
 LCHo = 45.9 25.9 210  
 tchMi = 0.5 1.0 0.583  
 tchMo = 0.5 0.5 0.583



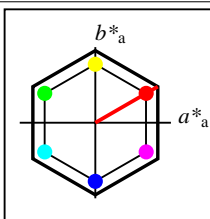
NO hue change of the output colour M

Change to half relative chroma of the output colour M



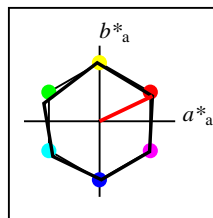
**%Gamut**  
 $u^*_{rel} = 152$   
**%Regularity**  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$

NLS00	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>M</sub>	31.81	82.62	47.7	95.4	30
Y <sub>M</sub>	63.61	0.0	95.4	95.4	90
L <sub>M</sub>	31.81	-82.61	47.7	95.4	150
C <sub>M</sub>	63.61	-82.61	-47.69	95.4	210
V <sub>M</sub>	31.81	0.0	-95.39	95.4	270
M <sub>M</sub>	63.61	82.62	-47.69	95.4	330
N <sub>M</sub>	0.01	0.0	0.0	0.0	0
W <sub>M</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 152$   
**%Regularity**  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$

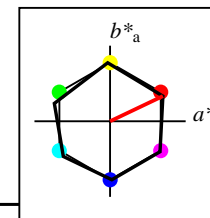
NLS00a; adapted CIELAB data	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	31.81	82.62	47.7	95.4	30
Y <sub>Ma</sub>	63.61	0.0	95.4	95.4	90
L <sub>Ma</sub>	31.81	-82.61	47.7	95.4	150
C <sub>Ma</sub>	63.61	-82.61	-47.69	95.4	210
V <sub>Ma</sub>	31.81	0.0	-95.39	95.4	270
M <sub>Ma</sub>	63.61	82.62	-47.69	95.4	330
N <sub>Ma</sub>	0.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 100$   
**%Regularity**  
 $g^*_{H,rel} = 78$   
 $g^*_{C,rel} = 100$

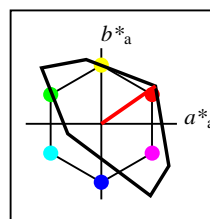
NRS18a; adapted CIELAB data	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	56.71	69.87	33.29	77.4	25
Y <sub>Ma</sub>	56.71	-3.1	77.34	77.4	92
L <sub>Ma</sub>	56.71	-73.68	23.63	77.39	162
C <sub>Ma</sub>	56.71	-61.81	-46.54	77.39	217
V <sub>Ma</sub>	56.71	2.35	-77.34	77.39	272
M <sub>Ma</sub>	56.71	66.07	-40.3	77.4	329
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

Workflow choices  
for colour samples:  
1. No colour change  
2. Hue change  
3. Chroma change



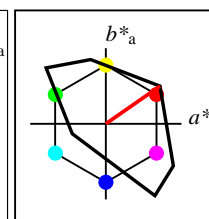
**%Gamut**  
 $u^*_{rel} = 100$   
**%Regularity**  
 $g^*_{H,rel} = 78$   
 $g^*_{C,rel} = 100$

NRS18a; adapted CIELAB data	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	56.71	69.87	33.29	77.4	25
Y <sub>Ma</sub>	56.71	-3.1	77.34	77.4	92
L <sub>Ma</sub>	56.71	-73.68	23.63	77.39	162
C <sub>Ma</sub>	56.71	-61.81	-46.54	77.39	217
V <sub>Ma</sub>	56.71	2.35	-77.34	77.39	272
M <sub>Ma</sub>	56.71	66.07	-40.3	77.4	329
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 118$   
**%Regularity**  
 $g^*_{H,rel} = 22$   
 $g^*_{C,rel} = 40$

TLS18a; adapted CIELAB data	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	52.76	71.63	49.88	87.29	35
Y <sub>Ma</sub>	92.74	-20.02	84.97	87.3	103
L <sub>Ma</sub>	84.0	-78.98	73.94	108.2	137
C <sub>Ma</sub>	87.14	-44.41	-13.11	46.32	196
V <sub>Ma</sub>	35.47	64.92	-95.06	115.12	304
M <sub>Ma</sub>	59.01	89.33	-55.67	105.26	328
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 118$   
**%Regularity**  
 $g^*_{H,rel} = 22$   
 $g^*_{C,rel} = 40$

TLS18	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>M</sub>	52.76	71.63	49.88	87.29	35
Y <sub>M</sub>	92.74	-20.02	84.97	87.3	103
L <sub>M</sub>	84.0	-78.98	73.94	108.2	137
C <sub>M</sub>	87.14	-44.41	-13.11	46.32	196
V <sub>M</sub>	35.47	64.92	-95.06	115.12	304
M <sub>M</sub>	59.01	89.33	-55.67	105.26	328
N <sub>M</sub>	18.01	0.0	0.0	0.0	0
W <sub>M</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



Relative CIELAB chroma diagram: ( $a^*_r = lab*a$ ,  $b^*_r = lab*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)  
NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)  
TLS18: Output (o) colorimetric system; Six hue angles of the colour device: (34.9, 103.3, 136.9, 196.5, 304.3, 328.1); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

#### Y Yellow

$olv3Mi = 1.0 \ 1.0 \ 0.0$   
 $olv3Mo = 1.0 \ 0.806 \ 0.0$   
 $LCHMi = 63.6 \ 95.4 \ 90$   
 $LCHo = 85.0 \ 87.3 \ 90$   
 $tchMi = 0.5 \ 1.0 \ 0.25$   
 $tchMo = 0.5 \ 1.0 \ 0.25$

#### L Leaf green

$olv3Mi = 0.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.0 \ 1.0 \ 0.22$   
 $LCHMi = 31.8 \ 95.4 \ 150$   
 $LCHo = 84.7 \ 94.6 \ 150$   
 $tchMi = 0.5 \ 1.0 \ 0.417$   
 $tchMo = 0.5 \ 1.0 \ 0.417$

#### C Cyan blue

$olv3Mi = 0.0 \ 1.0 \ 1.0$   
 $olv3Mo = 0.0 \ 0.874 \ 1.0$   
 $LCHMi = 63.6 \ 95.4 \ 210$   
 $LCHo = 80.7 \ 55.0 \ 210$   
 $tchMi = 0.5 \ 1.0 \ 0.583$   
 $tchMo = 0.5 \ 1.0 \ 0.583$

#### V Violet blue

$olv3Mi = 0.0 \ 0.0 \ 1.0$   
 $olv3Mo = 0.0 \ 0.318 \ 1.0$   
 $LCHMi = 31.8 \ 95.4 \ 270$   
 $LCHo = 51.9 \ 93.2 \ 270$   
 $tchMi = 0.5 \ 1.0 \ 0.75$   
 $tchMo = 0.5 \ 1.0 \ 0.75$

#### M Magenta red

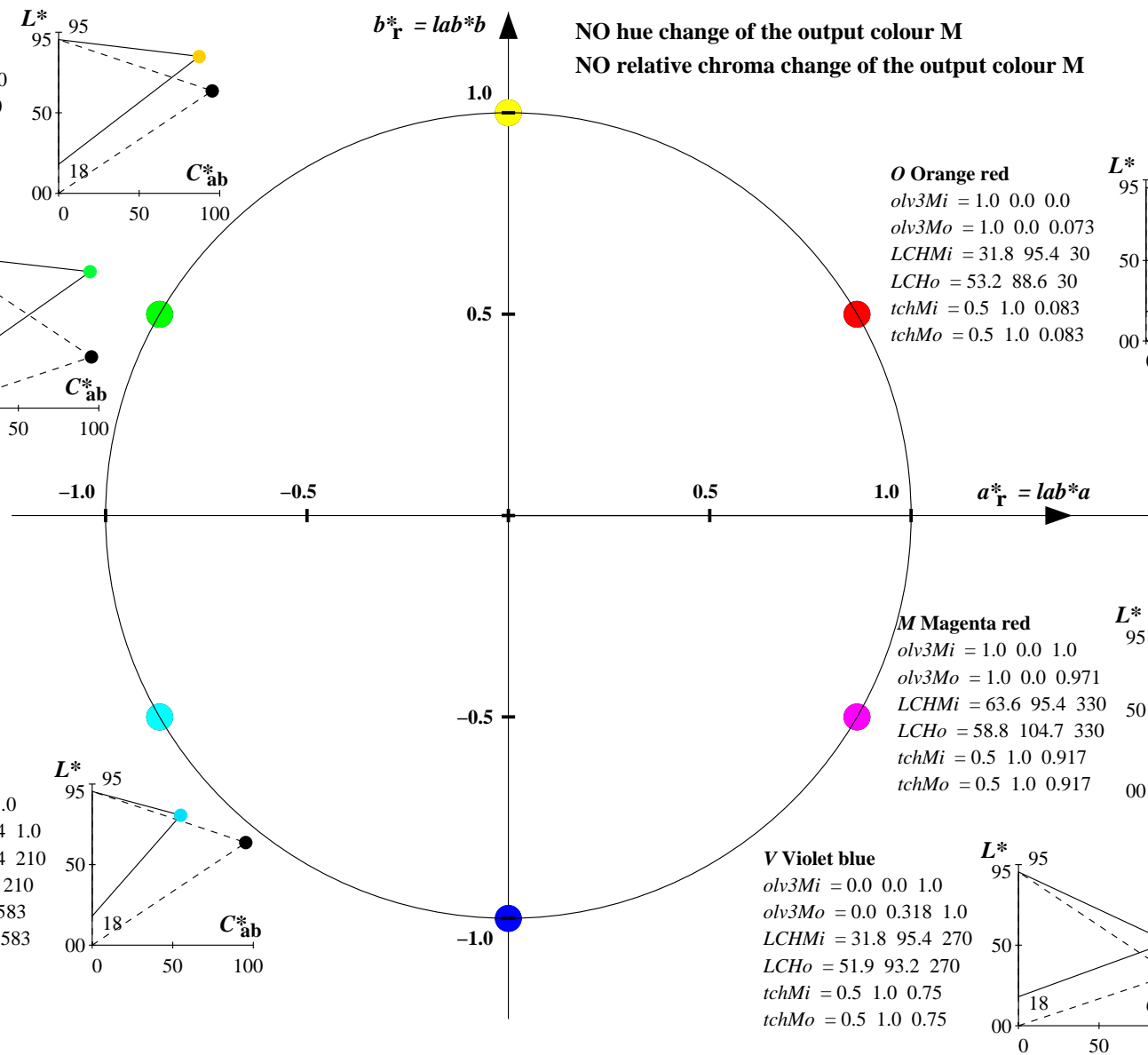
$olv3Mi = 1.0 \ 0.0 \ 1.0$   
 $olv3Mo = 1.0 \ 0.0 \ 0.971$   
 $LCHMi = 63.6 \ 95.4 \ 330$   
 $LCHo = 58.8 \ 104.7 \ 330$   
 $tchMi = 0.5 \ 1.0 \ 0.917$   
 $tchMo = 0.5 \ 1.0 \ 0.917$

#### O Orange red

$olv3Mi = 1.0 \ 0.0 \ 0.0$   
 $olv3Mo = 1.0 \ 0.0 \ 0.073$   
 $LCHMi = 31.8 \ 95.4 \ 30$   
 $LCHo = 53.2 \ 88.6 \ 30$   
 $tchMi = 0.5 \ 1.0 \ 0.083$   
 $tchMo = 0.5 \ 1.0 \ 0.083$

NO hue change of the output colour M

NO relative chroma change of the output colour M



Relative CIELAB chroma diagram: ( $a^*_r = lab^*a$ ,  $b^*_r = lab^*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)  
NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)  
TLS18: Output (o) colorimetric system; Six hue angles of the colour device: (34.9, 103.3, 136.9, 196.5, 304.3, 328.1); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

**Y Yellow**

$olv3Mi = 1.0 \ 1.0 \ 0.0$   
 $olv3Mo = 1.0 \ 0.952 \ 0.0$   
 $LCHMi = 63.6 \ 95.4 \ 90$   
 $LCHo = 90.8 \ 87.3 \ 100$   
 $tchMi = 0.5 \ 1.0 \ 0.25$   
 $tchMo = 0.5 \ 1.0 \ 0.278$

**L Leaf green**

$olv3Mi = 0.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.0 \ 1.0 \ 0.388$   
 $LCHMi = 31.8 \ 95.4 \ 150$   
 $LCHo = 85.2 \ 84.2 \ 160$   
 $tchMi = 0.5 \ 1.0 \ 0.417$   
 $tchMo = 0.5 \ 1.0 \ 0.444$

**C Cyan blue**

$olv3Mi = 0.0 \ 1.0 \ 1.0$   
 $olv3Mo = 0.0 \ 0.782 \ 1.0$   
 $LCHMi = 63.6 \ 95.4 \ 210$   
 $LCHo = 75.9 \ 61.3 \ 220$   
 $tchMi = 0.5 \ 1.0 \ 0.583$   
 $tchMo = 0.5 \ 1.0 \ 0.611$

**V Violet blue**

$olv3Mi = 0.0 \ 0.0 \ 1.0$   
 $olv3Mo = 0.0 \ 0.225 \ 1.0$   
 $LCHMi = 31.8 \ 95.4 \ 270$   
 $LCHo = 47.1 \ 99.6 \ 280$   
 $tchMi = 0.5 \ 1.0 \ 0.75$   
 $tchMo = 0.5 \ 1.0 \ 0.778$

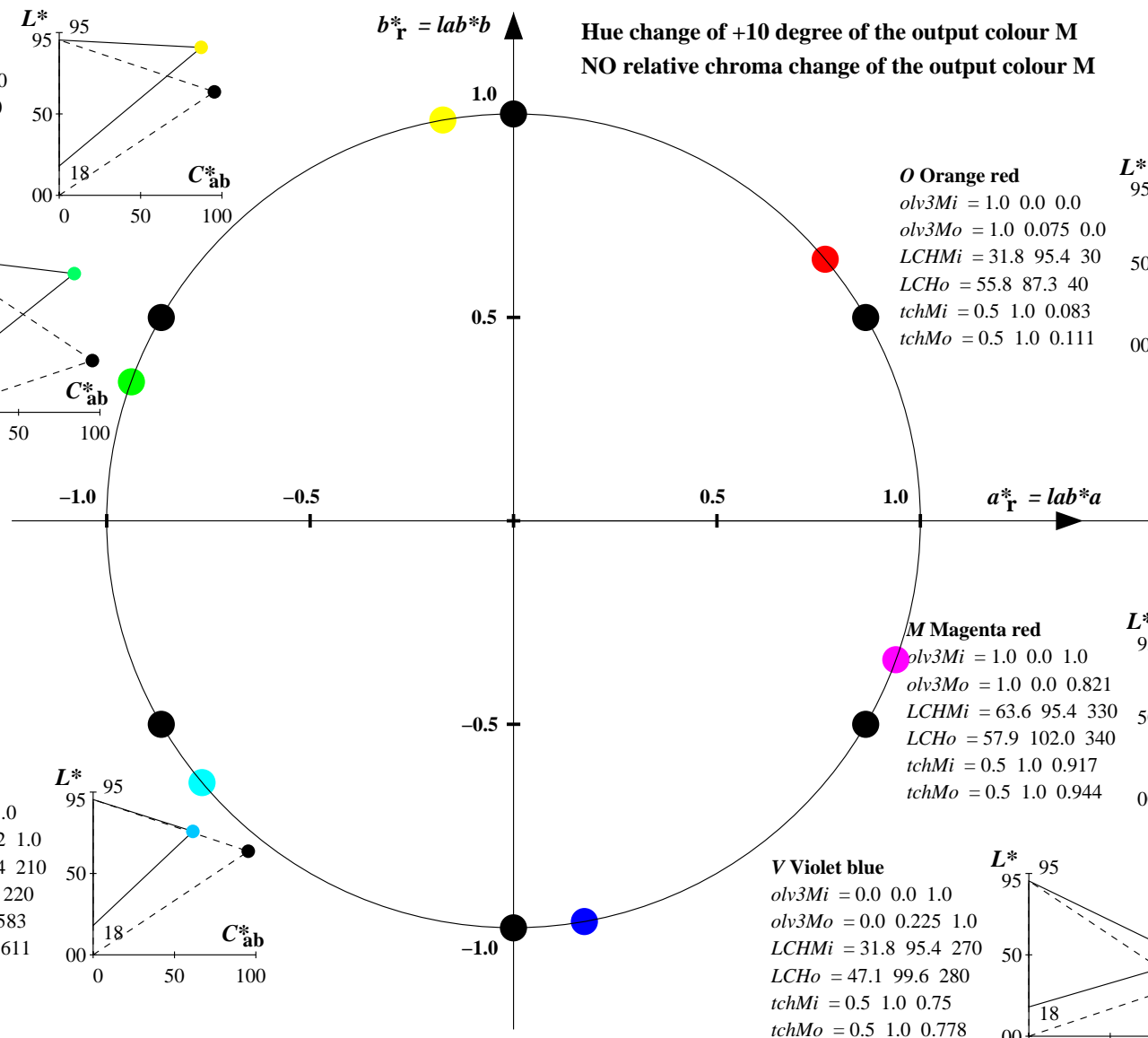
**M Magenta red**

$olv3Mi = 1.0 \ 0.0 \ 1.0$   
 $olv3Mo = 1.0 \ 0.0 \ 0.821$   
 $LCHMi = 63.6 \ 95.4 \ 330$   
 $LCHo = 57.9 \ 102.0 \ 340$   
 $tchMi = 0.5 \ 1.0 \ 0.917$   
 $tchMo = 0.5 \ 1.0 \ 0.944$

**O Orange red**

$olv3Mi = 1.0 \ 0.0 \ 0.0$   
 $olv3Mo = 1.0 \ 0.075 \ 0.0$   
 $LCHMi = 31.8 \ 95.4 \ 30$   
 $LCHo = 55.8 \ 87.3 \ 40$   
 $tchMi = 0.5 \ 1.0 \ 0.083$   
 $tchMo = 0.5 \ 1.0 \ 0.111$

Hue change of +10 degree of the output colour M  
NO relative chroma change of the output colour M



Relative CIELAB chroma diagram: ( $a^*_r = lab^*a$ ,  $b^*_r = lab^*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)  
NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)  
TLS18: Output (o) colorimetric system; Six hue angles of the colour device: (34.9, 103.3, 136.9, 196.5, 304.3, 328.1); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

#### Y Yellow

$olv3Mi = 1.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.75 \ 0.653 \ 0.25$   
 $LCHMi = 63.6 \ 95.4 \ 90$   
 $LCHo = 66.3 \ 43.6 \ 90$   
 $tchMi = 0.5 \ 1.0 \ 0.25$   
 $tchMo = 0.5 \ 0.5 \ 0.25$

#### L Leaf green

$olv3Mi = 0.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.25 \ 0.75 \ 0.36$   
 $LCHMi = 31.8 \ 95.4 \ 150$   
 $LCHo = 66.2 \ 47.3 \ 150$   
 $tchMi = 0.5 \ 1.0 \ 0.417$   
 $tchMo = 0.5 \ 0.5 \ 0.417$

#### C Cyan blue

$olv3Mi = 0.0 \ 1.0 \ 1.0$   
 $olv3Mo = 0.25 \ 0.687 \ 0.75$   
 $LCHMi = 63.6 \ 95.4 \ 210$   
 $LCHo = 64.2 \ 27.5 \ 210$   
 $tchMi = 0.5 \ 1.0 \ 0.583$   
 $tchMo = 0.5 \ 0.5 \ 0.583$

#### V Violet blue

$olv3Mi = 0.0 \ 0.0 \ 1.0$   
 $olv3Mo = 0.25 \ 0.409 \ 0.75$   
 $LCHMi = 31.8 \ 95.4 \ 270$   
 $LCHo = 49.8 \ 46.6 \ 270$   
 $tchMi = 0.5 \ 1.0 \ 0.75$   
 $tchMo = 0.5 \ 0.5 \ 0.75$

#### M Magenta red

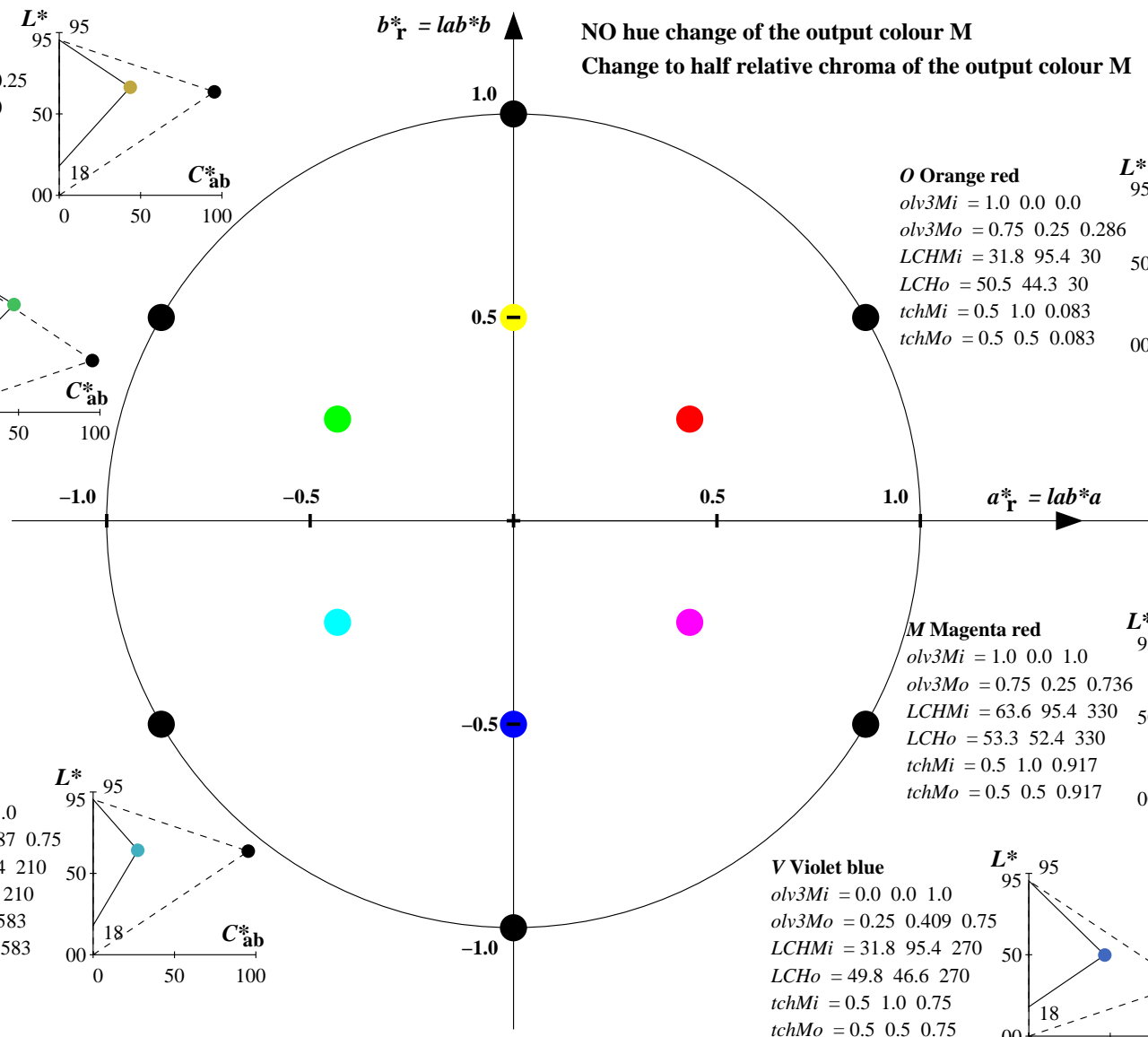
$olv3Mi = 1.0 \ 0.0 \ 1.0$   
 $olv3Mo = 0.75 \ 0.25 \ 0.736$   
 $LCHMi = 63.6 \ 95.4 \ 330$   
 $LCHo = 53.3 \ 52.4 \ 330$   
 $tchMi = 0.5 \ 1.0 \ 0.917$   
 $tchMo = 0.5 \ 0.5 \ 0.917$

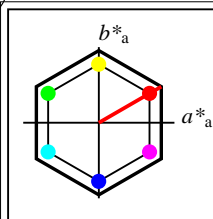
#### O Orange red

$olv3Mi = 1.0 \ 0.0 \ 0.0$   
 $olv3Mo = 0.75 \ 0.25 \ 0.286$   
 $LCHMi = 31.8 \ 95.4 \ 30$   
 $LCHo = 50.5 \ 44.3 \ 30$   
 $tchMi = 0.5 \ 1.0 \ 0.083$   
 $tchMo = 0.5 \ 0.5 \ 0.083$

NO hue change of the output colour M

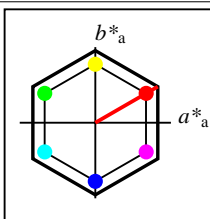
Change to half relative chroma of the output colour M





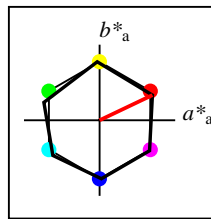
**%Gamut**  
 $u^*_{rel} = 152$   
**%Regularity**  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>M</sub>	31.81	82.62	47.7	95.4	30
Y <sub>M</sub>	63.61	0.0	95.4	95.4	90
L <sub>M</sub>	31.81	-82.61	47.7	95.4	150
C <sub>M</sub>	63.61	-82.61	-47.69	95.4	210
V <sub>M</sub>	31.81	0.0	-95.39	95.4	270
M <sub>M</sub>	63.61	82.62	-47.69	95.4	330
N <sub>M</sub>	0.01	0.0	0.0	0.0	0
W <sub>M</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 152$   
**%Regularity**  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$

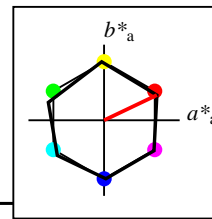
	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	31.81	82.62	47.7	95.4	30
Y <sub>Ma</sub>	63.61	0.0	95.4	95.4	90
L <sub>Ma</sub>	31.81	-82.61	47.7	95.4	150
C <sub>Ma</sub>	63.61	-82.61	-47.69	95.4	210
V <sub>Ma</sub>	31.81	0.0	-95.39	95.4	270
M <sub>Ma</sub>	63.61	82.62	-47.69	95.4	330
N <sub>Ma</sub>	0.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 100$   
**%Regularity**  
 $g^*_{H,rel} = 78$   
 $g^*_{C,rel} = 100$

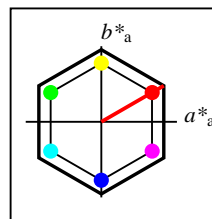
	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	56.71	69.87	33.29	77.4	25
Y <sub>Ma</sub>	56.71	-3.1	77.34	77.4	92
L <sub>Ma</sub>	56.71	-73.68	23.63	77.39	162
C <sub>Ma</sub>	56.71	-61.81	-46.54	77.39	217
V <sub>Ma</sub>	56.71	2.35	-77.34	77.39	272
M <sub>Ma</sub>	56.71	66.07	-40.3	77.4	329
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

Workflow choices  
for colour samples:  
1. No colour change  
2. Hue change  
3. Chroma change



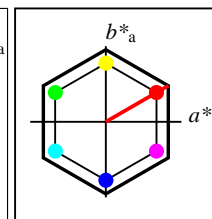
**%Gamut**  
 $u^*_{rel} = 100$   
**%Regularity**  
 $g^*_{H,rel} = 78$   
 $g^*_{C,rel} = 100$

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	56.71	69.87	33.29	77.4	25
Y <sub>Ma</sub>	56.71	-3.1	77.34	77.4	92
L <sub>Ma</sub>	56.71	-73.68	23.63	77.39	162
C <sub>Ma</sub>	56.71	-61.81	-46.54	77.39	217
V <sub>Ma</sub>	56.71	2.35	-77.34	77.39	272
M <sub>Ma</sub>	56.71	66.07	-40.3	77.4	329
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 152$   
**%Regularity**  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	31.81	82.62	47.7	95.4	30
Y <sub>Ma</sub>	63.61	0.0	95.4	95.4	90
L <sub>Ma</sub>	31.81	-82.61	47.7	95.4	150
C <sub>Ma</sub>	63.61	-82.61	-47.69	95.4	210
V <sub>Ma</sub>	31.81	0.0	-95.39	95.4	270
M <sub>Ma</sub>	63.61	82.62	-47.69	95.4	330
N <sub>Ma</sub>	0.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 152$   
**%Regularity**  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>M</sub>	31.81	82.62	47.7	95.4	30
Y <sub>M</sub>	63.61	0.0	95.4	95.4	90
L <sub>M</sub>	31.81	-82.61	47.7	95.4	150
C <sub>M</sub>	63.61	-82.61	-47.69	95.4	210
V <sub>M</sub>	31.81	0.0	-95.39	95.4	270
M <sub>M</sub>	63.61	82.62	-47.69	95.4	330
N <sub>M</sub>	0.01	0.0	0.0	0.0	0
W <sub>M</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

YE640-7, Colour Management Workflow: Device Colour Input Data of the Colour Space NLS00 -> Device Colour Output Data of Output Space NLS00, page 17/32

BAM-test chart YE64; Colorimetric workflow NLS00->NLS00  
D65: 6 basic colours; Device and sample data; page 17/32

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

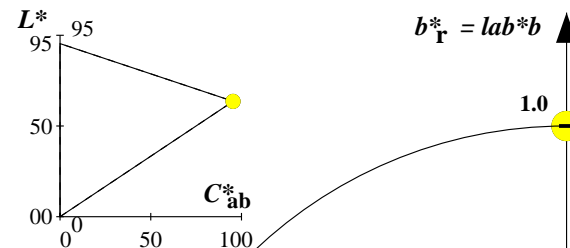
Relative CIELAB chroma diagram: ( $a^*_r = lab*a$ ,  $b^*_r = lab*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)

NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

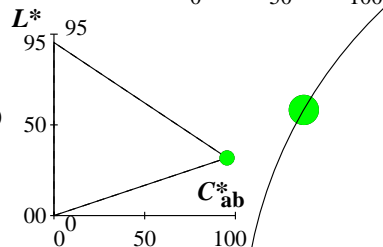
NLS00: Output (o) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

**Y Yellow**

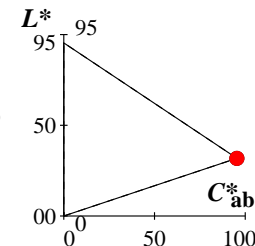
olv3Mi = 1.0 1.0 0.0  
 olv3Mo = 1.0 1.0 0.0  
 LCHMi = 63.6 95.4 90  
 LCHo = 63.6 95.4 90  
 tchMi = 0.5 1.0 0.25  
 tchMo = 0.5 1.0 0.25

**L Leaf green**

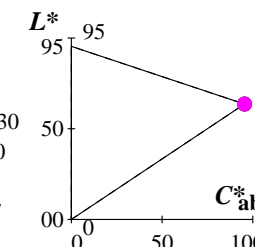
olv3Mi = 0.0 1.0 0.0  
 olv3Mo = 0.0 1.0 0.0  
 LCHMi = 31.8 95.4 150  
 LCHo = 31.8 95.4 150  
 tchMi = 0.5 1.0 0.417  
 tchMo = 0.5 1.0 0.417

**O Orange red**

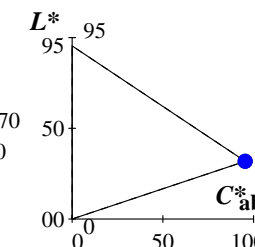
olv3Mi = 1.0 0.0 0.0  
 olv3Mo = 1.0 0.0 0.0  
 LCHMi = 31.8 95.4 30  
 LCHo = 31.8 95.4 30  
 tchMi = 0.5 1.0 0.083  
 tchMo = 0.5 1.0 0.083

**M Magenta red**

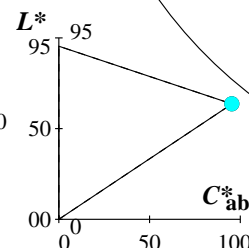
olv3Mi = 1.0 0.0 1.0  
 olv3Mo = 1.0 0.0 1.0  
 LCHMi = 63.6 95.4 330  
 LCHo = 63.6 95.4 330  
 tchMi = 0.5 1.0 0.917  
 tchMo = 0.5 1.0 0.917

**V Violet blue**

olv3Mi = 0.0 0.0 1.0  
 olv3Mo = 0.0 0.0 1.0  
 LCHMi = 31.8 95.4 270  
 LCHo = 31.8 95.4 270  
 tchMi = 0.5 1.0 0.75  
 tchMo = 0.5 1.0 0.75

**C Cyan blue**

olv3Mi = 0.0 1.0 1.0  
 olv3Mo = 0.0 1.0 1.0  
 LCHMi = 63.6 95.4 210  
 LCHo = 63.6 95.4 210  
 tchMi = 0.5 1.0 0.583  
 tchMo = 0.5 1.0 0.583



NO hue change of the output colour M

NO relative chroma change of the output colour M



Relative CIELAB chroma diagram: ( $a^*_r = lab^*a$ ,  $b^*_r = lab^*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)

NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

NLS00: Output (o) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

**Y Yellow**

$olv3Mi = 1.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.833 \ 1.0 \ 0.0$   
 $LCHMi = 63.6 \ 95.4 \ 90$   
 $LCHo = 58.3 \ 95.4 \ 100$   
 $tchMi = 0.5 \ 1.0 \ 0.25$   
 $tchMo = 0.5 \ 1.0 \ 0.278$

**L Leaf green**

$olv3Mi = 0.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.0 \ 1.0 \ 0.167$   
 $LCHMi = 31.8 \ 95.4 \ 150$   
 $LCHo = 37.1 \ 95.4 \ 160$   
 $tchMi = 0.5 \ 1.0 \ 0.417$   
 $tchMo = 0.5 \ 1.0 \ 0.444$

**C Cyan blue**

$olv3Mi = 0.0 \ 1.0 \ 1.0$   
 $olv3Mo = 0.0 \ 0.833 \ 1.0$   
 $LCHMi = 63.6 \ 95.4 \ 210$   
 $LCHo = 58.3 \ 95.4 \ 220$   
 $tchMi = 0.5 \ 1.0 \ 0.583$   
 $tchMo = 0.5 \ 1.0 \ 0.611$

**V Violet blue**

$olv3Mi = 0.0 \ 0.0 \ 1.0$   
 $olv3Mo = 0.167 \ 0.0 \ 1.0$   
 $LCHMi = 31.8 \ 95.4 \ 270$   
 $LCHo = 37.1 \ 95.4 \ 280$   
 $tchMi = 0.5 \ 1.0 \ 0.75$   
 $tchMo = 0.5 \ 1.0 \ 0.778$

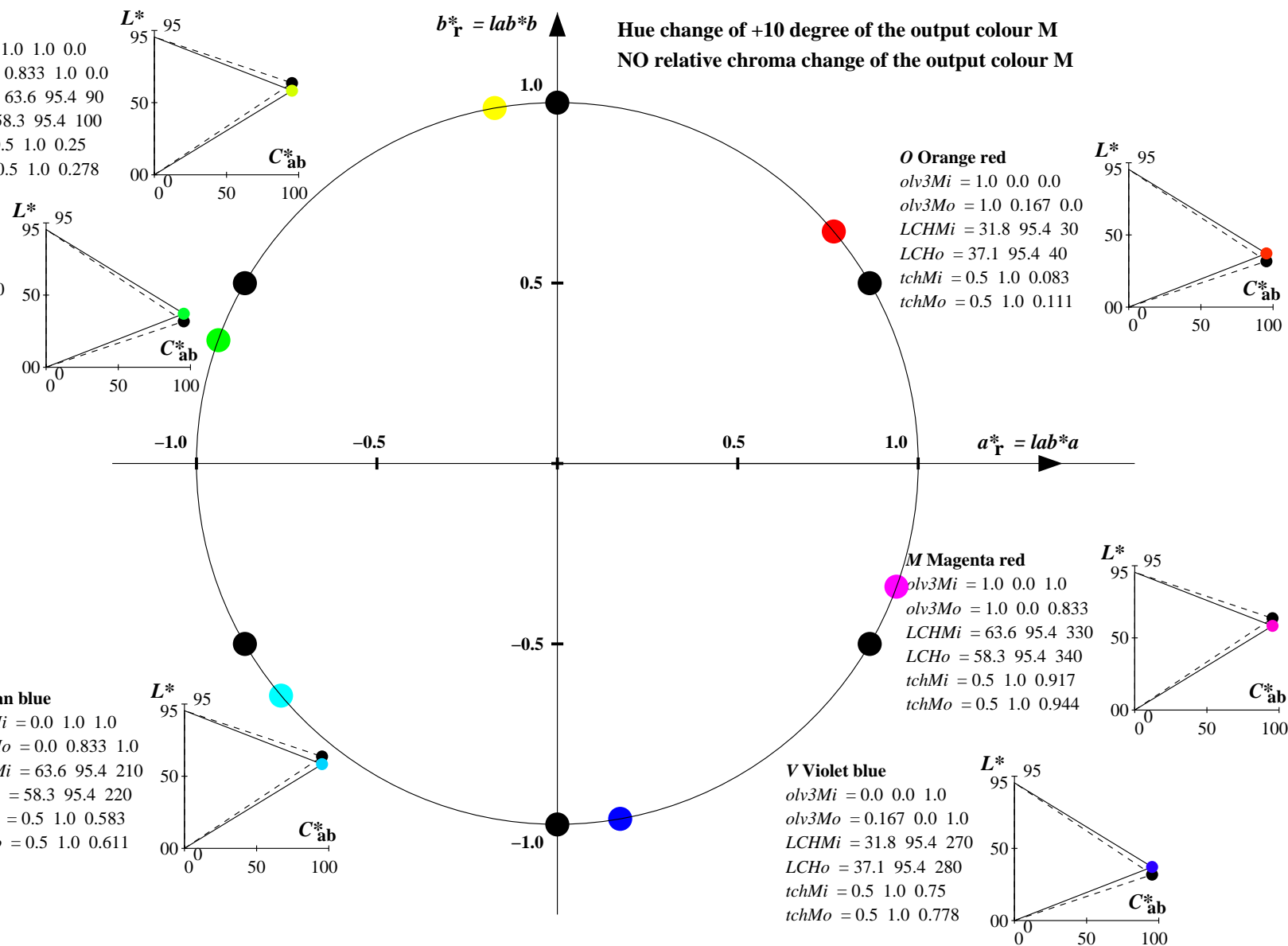
**M Magenta red**

$olv3Mi = 1.0 \ 0.0 \ 1.0$   
 $olv3Mo = 1.0 \ 0.0 \ 0.833$   
 $LCHMi = 63.6 \ 95.4 \ 330$   
 $LCHo = 58.3 \ 95.4 \ 340$   
 $tchMi = 0.5 \ 1.0 \ 0.917$   
 $tchMo = 0.5 \ 1.0 \ 0.944$

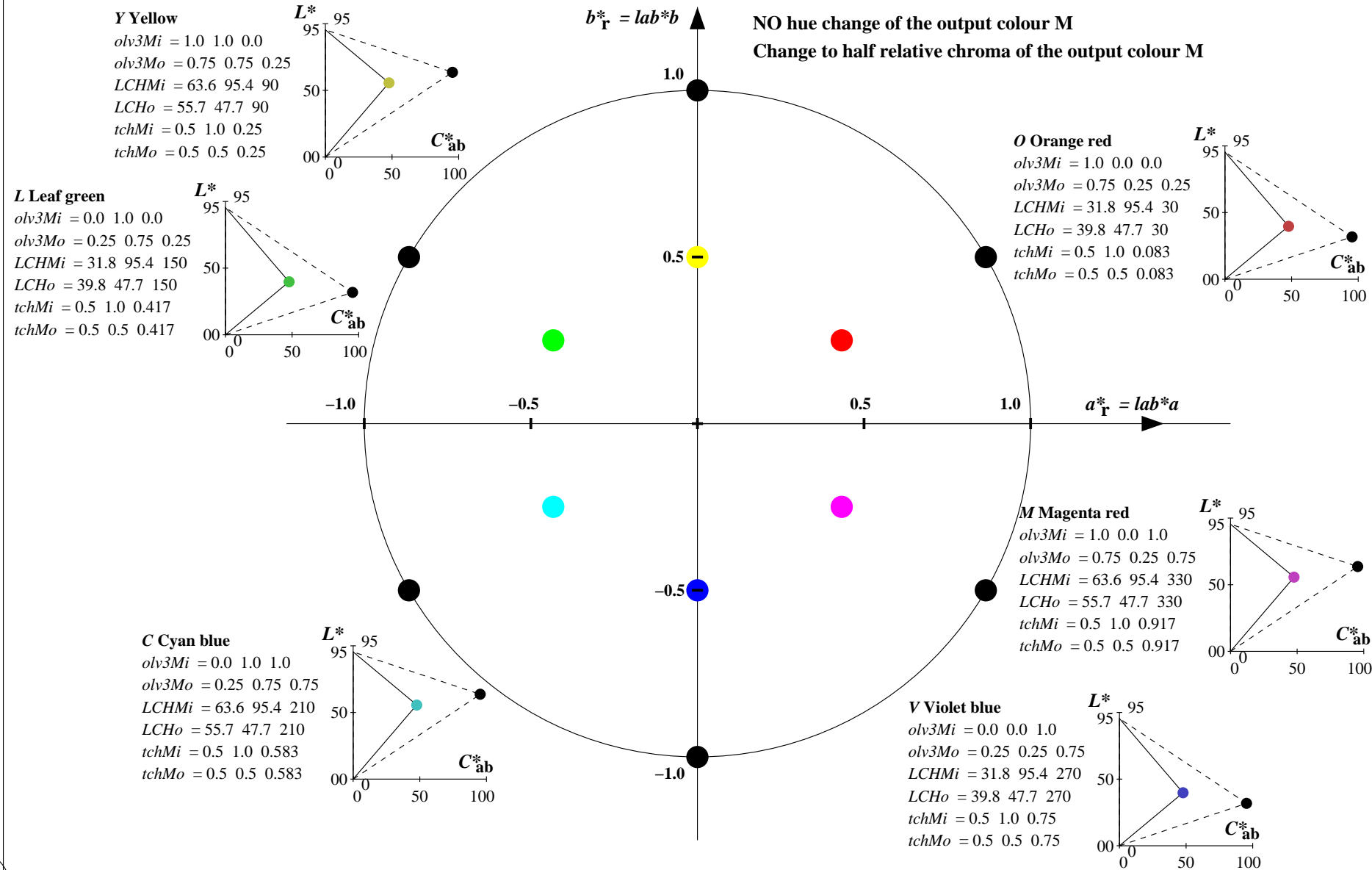
**O Orange red**

$olv3Mi = 1.0 \ 0.0 \ 0.0$   
 $olv3Mo = 1.0 \ 0.167 \ 0.0$   
 $LCHMi = 31.8 \ 95.4 \ 30$   
 $LCHo = 37.1 \ 95.4 \ 40$   
 $tchMi = 0.5 \ 1.0 \ 0.083$   
 $tchMo = 0.5 \ 1.0 \ 0.111$

Hue change of +10 degree of the output colour M  
 NO relative chroma change of the output colour M



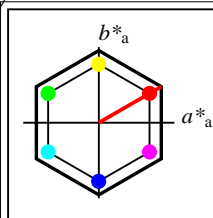
Relative CIELAB chroma diagram: ( $a^*_r = lab*a$ ,  $b^*_r = lab*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)  
NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)  
NLS00: Output (o) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)



YE640-7, Colour Management Workflow: Device Colour Input Data of the Colour Space NLS00 -> Device Colour Output Data of Output Space NLS00, page 20/32

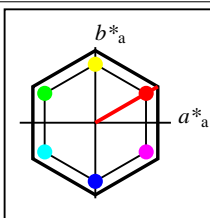
BAM-test chart YE64; Colorimetric workflow NLS00->NLS00 input:  $olv*setrgbcolor$   
D65: 6 basic colours; Device and sample data; page 20/32

output: no change compared to input



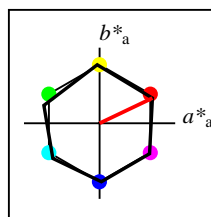
**%Gamut**  
**u\*<sub>rel</sub> = 152**  
**%Regularity**  
**g\*<sub>H,rel</sub> = 100**  
**g\*<sub>C,rel</sub> = 100**

NLS00	$L^*=L_a^*$	$a_a^*$	$b_a^*$	$C_{ab,a}^*$	$h_{ab,a}^*$
O <sub>M</sub>	31.81	82.62	47.7	95.4	30
Y <sub>M</sub>	63.61	0.0	95.4	95.4	90
L <sub>M</sub>	31.81	-82.61	47.7	95.4	150
C <sub>M</sub>	63.61	-82.61	-47.69	95.4	210
V <sub>M</sub>	31.81	0.0	-95.39	95.4	270
M <sub>M</sub>	63.61	82.62	-47.69	95.4	330
N <sub>M</sub>	0.01	0.0	0.0	0.0	0
W <sub>M</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
**u\*<sub>rel</sub> = 152**  
**%Regularity**  
**g\*<sub>H,rel</sub> = 100**  
**g\*<sub>C,rel</sub> = 100**

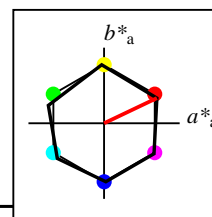
NLS00a; adapted CIELAB data	$L^*=L_a^*$	$a_a^*$	$b_a^*$	$C_{ab,a}^*$	$h_{ab,a}^*$
O <sub>Ma</sub>	31.81	82.62	47.7	95.4	30
Y <sub>Ma</sub>	63.61	0.0	95.4	95.4	90
L <sub>Ma</sub>	31.81	-82.61	47.7	95.4	150
C <sub>Ma</sub>	63.61	-82.61	-47.69	95.4	210
V <sub>Ma</sub>	31.81	0.0	-95.39	95.4	270
M <sub>Ma</sub>	63.61	82.62	-47.69	95.4	330
N <sub>Ma</sub>	0.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
**u\*<sub>rel</sub> = 100**  
**%Regularity**  
**g\*<sub>H,rel</sub> = 78**  
**g\*<sub>C,rel</sub> = 100**

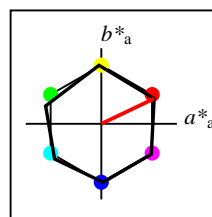
NRS18a; adapted CIELAB data	$L^*=L_a^*$	$a_a^*$	$b_a^*$	$C_{ab,a}^*$	$h_{ab,a}^*$
O <sub>Ma</sub>	56.71	69.87	33.29	77.4	25
Y <sub>Ma</sub>	56.71	-3.1	77.34	77.4	92
L <sub>Ma</sub>	56.71	-73.68	23.63	77.39	162
C <sub>Ma</sub>	56.71	-61.81	-46.54	77.39	217
V <sub>Ma</sub>	56.71	2.35	-77.34	77.39	272
M <sub>Ma</sub>	56.71	66.07	-40.3	77.4	329
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

Workflow choices  
for colour samples:  
1. No colour change  
2. Hue change  
3. Chroma change



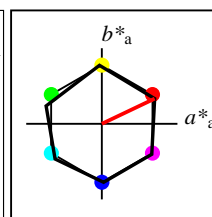
**%Gamut**  
**u\*<sub>rel</sub> = 100**  
**%Regularity**  
**g\*<sub>H,rel</sub> = 78**  
**g\*<sub>C,rel</sub> = 100**

NRS18a; adapted CIELAB data	$L^*=L_a^*$	$a_a^*$	$b_a^*$	$C_{ab,a}^*$	$h_{ab,a}^*$
O <sub>Ma</sub>	56.71	69.87	33.29	77.4	25
Y <sub>Ma</sub>	56.71	-3.1	77.34	77.4	92
L <sub>Ma</sub>	56.71	-73.68	23.63	77.39	162
C <sub>Ma</sub>	56.71	-61.81	-46.54	77.39	217
V <sub>Ma</sub>	56.71	2.35	-77.34	77.39	272
M <sub>Ma</sub>	56.71	66.07	-40.3	77.4	329
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
**u\*<sub>rel</sub> = 100**  
**%Regularity**  
**g\*<sub>H,rel</sub> = 78**  
**g\*<sub>C,rel</sub> = 100**

NRS18a; adapted CIELAB data	$L^*=L_a^*$	$a_a^*$	$b_a^*$	$C_{ab,a}^*$	$h_{ab,a}^*$
O <sub>Ma</sub>	56.71	69.87	33.29	77.4	25
Y <sub>Ma</sub>	56.71	-3.1	77.34	77.4	92
L <sub>Ma</sub>	56.71	-73.68	23.63	77.39	162
C <sub>Ma</sub>	56.71	-61.81	-46.54	77.39	217
V <sub>Ma</sub>	56.71	2.35	-77.34	77.39	272
M <sub>Ma</sub>	56.71	66.07	-40.3	77.4	329
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
**u\*<sub>rel</sub> = 100**  
**%Regularity**  
**g\*<sub>H,rel</sub> = 78**  
**g\*<sub>C,rel</sub> = 100**

NRS18	$L^*=L_a^*$	$a_a^*$	$b_a^*$	$C_{ab,a}^*$	$h_{ab,a}^*$
O <sub>M</sub>	56.71	69.87	33.29	77.4	25
Y <sub>M</sub>	56.71	-3.1	77.34	77.4	92
L <sub>M</sub>	56.71	-73.68	23.63	77.39	162
C <sub>M</sub>	56.71	-61.81	-46.54	77.39	217
V <sub>M</sub>	56.71	2.35	-77.34	77.39	272
M <sub>M</sub>	56.71	66.07	-40.3	77.4	329
N <sub>M</sub>	18.01	0.0	0.0	0.0	0
W <sub>M</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

YE640-7, Colour Management Workflow: Device Colour Input Data of the Colour Space NLS00 -> Device Colour Output Data of Output Space NRS18, page 21/32

BAM-test chart YE64; Colorimetric workflow NLS00->NRS18 input: olv\* setrgbcolor  
D65: 6 basic colours; Device and sample data; page 21/32 output: no change compared to input

Relative CIELAB chroma diagram: ( $a^*_r = lab^*a$ ,  $b^*_r = lab^*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)  
NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)  
NRS18: Output (o) colorimetric system; Six hue angles of the colour device: (25.5, 92.3, 162.2, 217.0, 271.7, 328.6); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

**Y Yellow**

$olv3Mi = 1.0 \ 1.0 \ 0.0$   
 $olv3Mo = 1.0 \ 0.966 \ 0.0$   
 $LCHMi = 63.6 \ 95.4 \ 90$   
 $LCHo = 56.7 \ 77.4 \ 90$   
 $tchMi = 0.5 \ 1.0 \ 0.25$   
 $tchMo = 0.5 \ 1.0 \ 0.25$

**L Leaf green**

$olv3Mi = 0.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.175 \ 1.0 \ 0.0$   
 $LCHMi = 31.8 \ 95.4 \ 150$   
 $LCHo = 56.7 \ 77.4 \ 150$   
 $tchMi = 0.5 \ 1.0 \ 0.417$   
 $tchMo = 0.5 \ 1.0 \ 0.417$

**C Cyan blue**

$olv3Mi = 0.0 \ 1.0 \ 1.0$   
 $olv3Mo = 0.0 \ 1.0 \ 0.873$   
 $LCHMi = 63.6 \ 95.4 \ 210$   
 $LCHo = 56.7 \ 77.4 \ 210$   
 $tchMi = 0.5 \ 1.0 \ 0.583$   
 $tchMo = 0.5 \ 1.0 \ 0.583$

**V Violet blue**

$olv3Mi = 0.0 \ 0.0 \ 1.0$   
 $olv3Mo = 0.0 \ 0.032 \ 1.0$   
 $LCHMi = 31.8 \ 95.4 \ 270$   
 $LCHo = 56.7 \ 77.4 \ 270$   
 $tchMi = 0.5 \ 1.0 \ 0.75$   
 $tchMo = 0.5 \ 1.0 \ 0.75$

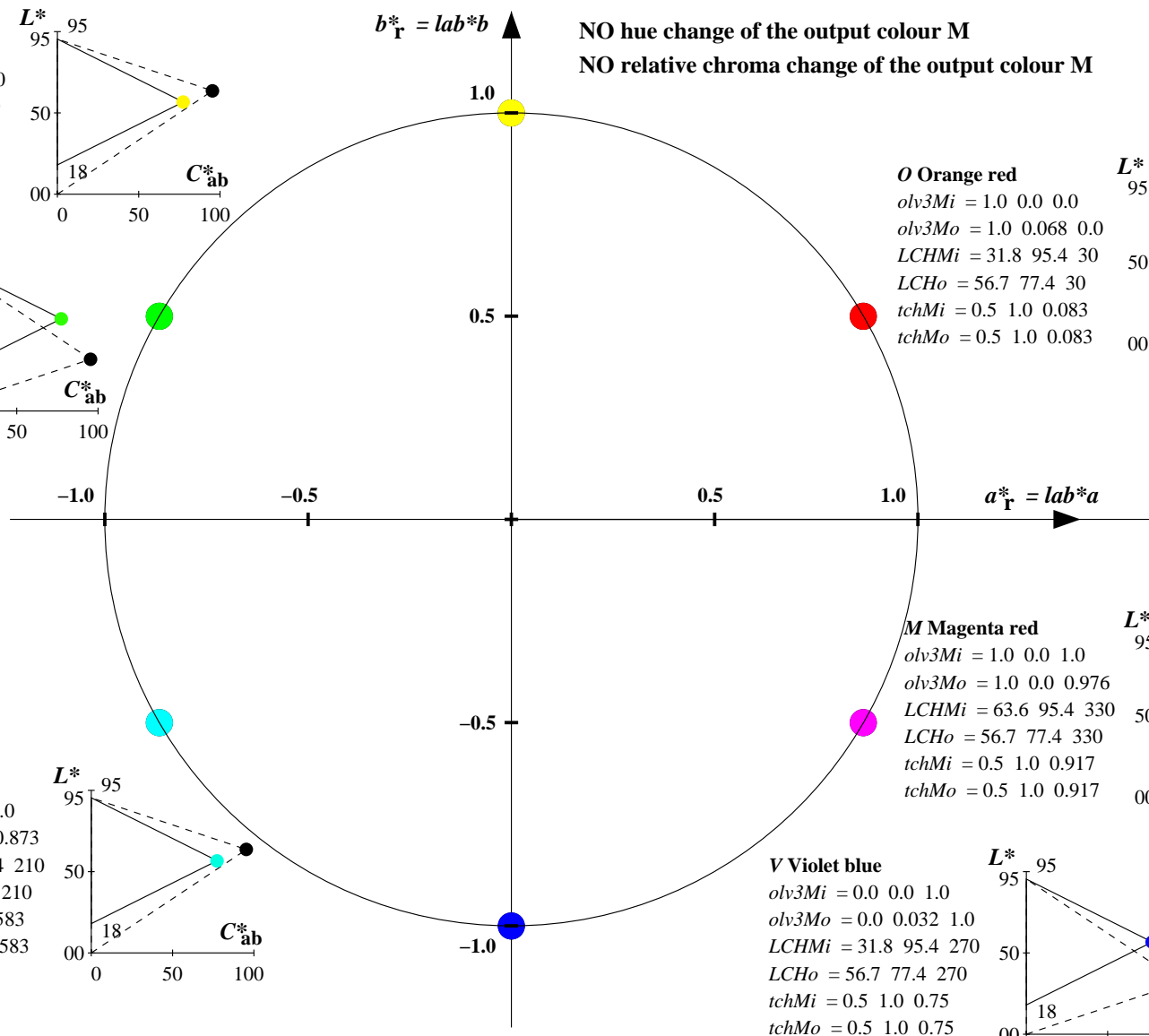
**M Magenta red**

$olv3Mi = 1.0 \ 0.0 \ 1.0$   
 $olv3Mo = 1.0 \ 0.0 \ 0.976$   
 $LCHMi = 63.6 \ 95.4 \ 330$   
 $LCHo = 56.7 \ 77.4 \ 330$   
 $tchMi = 0.5 \ 1.0 \ 0.917$   
 $tchMo = 0.5 \ 1.0 \ 0.917$

**O Orange red**

$olv3Mi = 1.0 \ 0.0 \ 0.0$   
 $olv3Mo = 1.0 \ 0.068 \ 0.0$   
 $LCHMi = 31.8 \ 95.4 \ 30$   
 $LCHo = 56.7 \ 77.4 \ 30$   
 $tchMi = 0.5 \ 1.0 \ 0.083$   
 $tchMo = 0.5 \ 1.0 \ 0.083$

NO hue change of the output colour M  
NO relative chroma change of the output colour M



Relative CIELAB chroma diagram: ( $a^*_r = lab*a$ ,  $b^*_r = lab*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)

NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

NRS18: Output (o) colorimetric system; Six hue angles of the colour device: (25.5, 92.3, 162.2, 217.0, 271.7, 328.6); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

**Y Yellow**

$olv3Mi = 1.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.89 \ 1.0 \ 0.0$   
 $LCHMi = 63.6 \ 95.4 \ 90$   
 $LCHo = 56.7 \ 77.4 \ 100$   
 $tchMi = 0.5 \ 1.0 \ 0.25$   
 $tchMo = 0.5 \ 1.0 \ 0.278$

**L Leaf green**

$olv3Mi = 0.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.032 \ 1.0 \ 0.0$   
 $LCHMi = 31.8 \ 95.4 \ 150$   
 $LCHo = 56.7 \ 77.4 \ 160$   
 $tchMi = 0.5 \ 1.0 \ 0.417$   
 $tchMo = 0.5 \ 1.0 \ 0.444$

**C Cyan blue**

$olv3Mi = 0.0 \ 1.0 \ 1.0$   
 $olv3Mo = 0.0 \ 0.945 \ 1.0$   
 $LCHMi = 63.6 \ 95.4 \ 210$   
 $LCHo = 56.7 \ 77.4 \ 220$   
 $tchMi = 0.5 \ 1.0 \ 0.583$   
 $tchMo = 0.5 \ 1.0 \ 0.611$

**V Violet blue**

$olv3Mi = 0.0 \ 0.0 \ 1.0$   
 $olv3Mo = 0.145 \ 0.0 \ 1.0$   
 $LCHMi = 31.8 \ 95.4 \ 270$   
 $LCHo = 56.7 \ 77.4 \ 280$   
 $tchMi = 0.5 \ 1.0 \ 0.75$   
 $tchMo = 0.5 \ 1.0 \ 0.778$

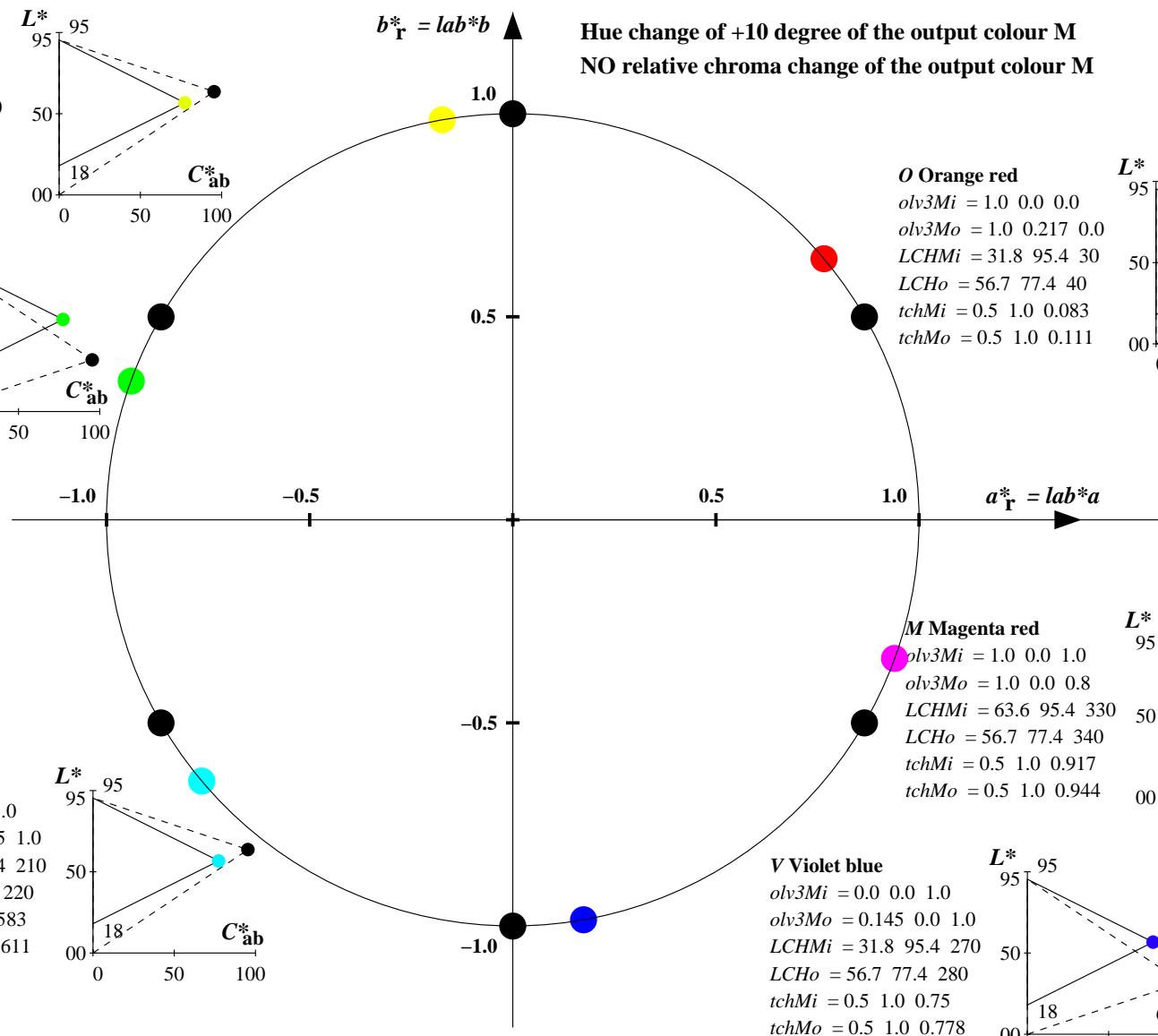
**M Magenta red**

$olv3Mi = 1.0 \ 0.0 \ 1.0$   
 $olv3Mo = 1.0 \ 0.0 \ 0.8$   
 $LCHMi = 63.6 \ 95.4 \ 330$   
 $LCHo = 56.7 \ 77.4 \ 340$   
 $tchMi = 0.5 \ 1.0 \ 0.917$   
 $tchMo = 0.5 \ 1.0 \ 0.944$

**O Orange red**

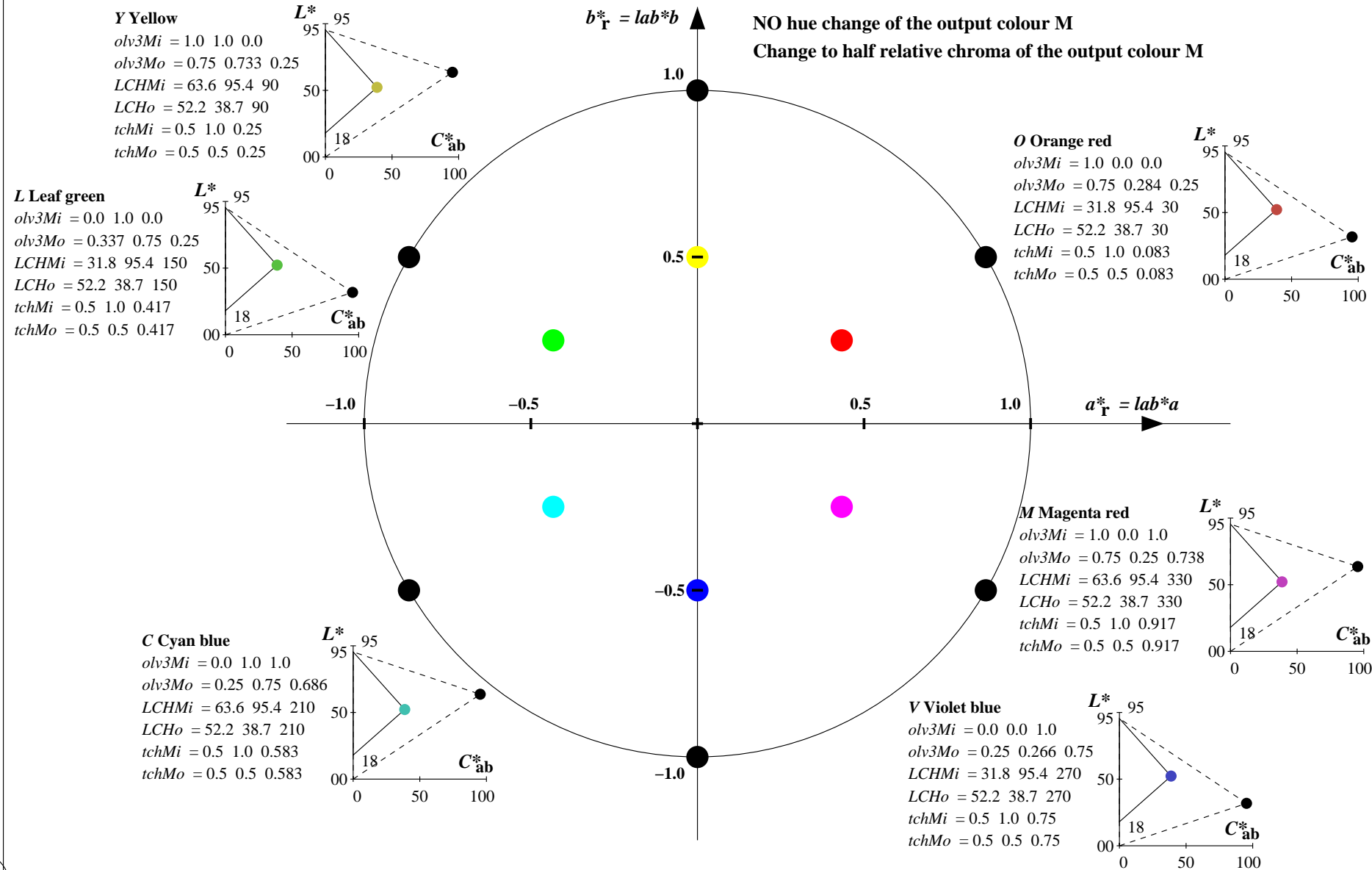
$olv3Mi = 1.0 \ 0.0 \ 0.0$   
 $olv3Mo = 1.0 \ 0.217 \ 0.0$   
 $LCHMi = 31.8 \ 95.4 \ 30$   
 $LCHo = 56.7 \ 77.4 \ 40$   
 $tchMi = 0.5 \ 1.0 \ 0.083$   
 $tchMo = 0.5 \ 1.0 \ 0.111$

Hue change of +10 degree of the output colour M  
 NO relative chroma change of the output colour M





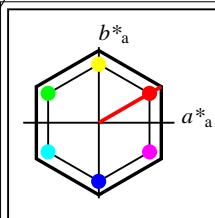
Relative CIELAB chroma diagram: ( $a^*_r = lab^*a$ ,  $b^*_r = lab^*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)  
NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)  
NRS18: Output (o) colorimetric system; Six hue angles of the colour device: (25.5, 92.3, 162.2, 217.0, 271.7, 328.6); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)



YE640-7, Colour Management Workflow: Device Colour Input Data of the Colour Space NLS00 -> Device Colour Output Data of Output Space NRS18, page 24/32

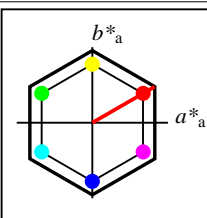
BAM-test chart YE64; Colorimetric workflow NLS00->NRS18 input:  $olv^* setrgbcolor$   
D65: 6 basic colours; Device and sample data; page 24/32

output: no change compared to input



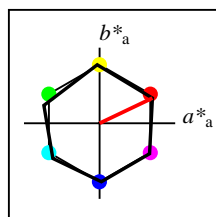
**%Gamut**  
 $u^*_{rel} = 152$   
**%Regularity**  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$

NLS00	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>M</sub>	31.81	82.62	47.7	95.4	30
Y <sub>M</sub>	63.61	0.0	95.4	95.4	90
L <sub>M</sub>	31.81	-82.61	47.7	95.4	150
C <sub>M</sub>	63.61	-82.61	-47.69	95.4	210
V <sub>M</sub>	31.81	0.0	-95.39	95.4	270
M <sub>M</sub>	63.61	82.62	-47.69	95.4	330
N <sub>M</sub>	0.01	0.0	0.0	0.0	0
W <sub>M</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 152$   
**%Regularity**  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$

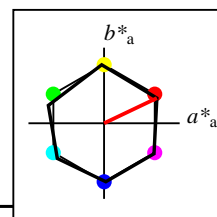
NLS00a; adapted CIELAB data	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	31.81	82.62	47.7	95.4	30
Y <sub>Ma</sub>	63.61	0.0	95.4	95.4	90
L <sub>Ma</sub>	31.81	-82.61	47.7	95.4	150
C <sub>Ma</sub>	63.61	-82.61	-47.69	95.4	210
V <sub>Ma</sub>	31.81	0.0	-95.39	95.4	270
M <sub>Ma</sub>	63.61	82.62	-47.69	95.4	330
N <sub>Ma</sub>	0.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 100$   
**%Regularity**  
 $g^*_{H,rel} = 78$   
 $g^*_{C,rel} = 100$

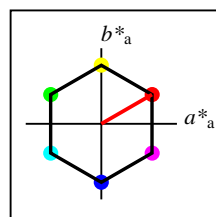
NRS18a; adapted CIELAB data	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	56.71	69.87	33.29	77.4	25
Y <sub>Ma</sub>	56.71	-3.1	77.34	77.4	92
L <sub>Ma</sub>	56.71	-73.68	23.63	77.39	162
C <sub>Ma</sub>	56.71	-61.81	-46.54	77.39	217
V <sub>Ma</sub>	56.71	2.35	-77.34	77.39	272
M <sub>Ma</sub>	56.71	66.07	-40.3	77.4	329
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

Workflow choices  
for colour samples:  
1. No colour change  
2. Hue change  
3. Chroma change



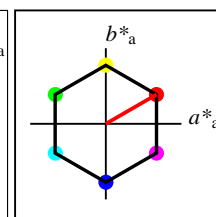
**%Gamut**  
 $u^*_{rel} = 100$   
**%Regularity**  
 $g^*_{H,rel} = 78$   
 $g^*_{C,rel} = 100$

NRS18a; adapted CIELAB data	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	56.71	69.87	33.29	77.4	25
Y <sub>Ma</sub>	56.71	-3.1	77.34	77.4	92
L <sub>Ma</sub>	56.71	-73.68	23.63	77.39	162
C <sub>Ma</sub>	56.71	-61.81	-46.54	77.39	217
V <sub>Ma</sub>	56.71	2.35	-77.34	77.39	272
M <sub>Ma</sub>	56.71	66.07	-40.3	77.4	329
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 100$   
**%Regularity**  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$

SRS18a; adapted CIELAB data	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	56.71	67.03	38.7	77.4	30
Y <sub>Ma</sub>	56.71	0.0	77.4	77.4	90
L <sub>Ma</sub>	56.71	-67.02	38.7	77.4	150
C <sub>Ma</sub>	56.71	-67.02	-38.69	77.4	210
V <sub>Ma</sub>	56.71	0.0	-77.39	77.4	270
M <sub>Ma</sub>	56.71	67.03	-38.69	77.4	330
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 100$   
**%Regularity**  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$

SRS18	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>M</sub>	56.71	67.03	38.7	77.4	30
Y <sub>M</sub>	56.71	0.0	77.4	77.4	90
L <sub>M</sub>	56.71	-67.02	38.7	77.4	150
C <sub>M</sub>	56.71	-67.02	-38.69	77.4	210
V <sub>M</sub>	56.71	0.0	-77.39	77.4	270
M <sub>M</sub>	56.71	67.03	-38.69	77.4	330
N <sub>M</sub>	18.01	0.0	0.0	0.0	0
W <sub>M</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

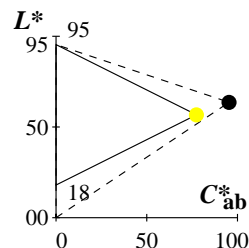
Relative CIELAB chroma diagram: ( $a^*_r = lab*a$ ,  $b^*_r = lab*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)

NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

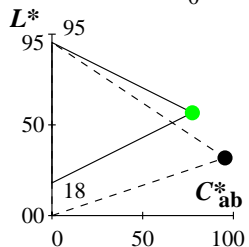
SRS18: Output (o) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

**Y Yellow**

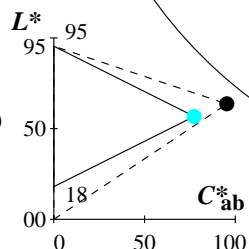
$olv3Mi = 1.0 \ 1.0 \ 0.0$   
 $olv3Mo = 1.0 \ 1.0 \ 0.0$   
 $LCHMi = 63.6 \ 95.4 \ 90$   
 $LCHo = 56.7 \ 77.4 \ 90$   
 $tchMi = 0.5 \ 1.0 \ 0.25$   
 $tchMo = 0.5 \ 1.0 \ 0.25$

**L Leaf green**

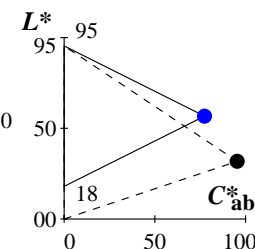
$olv3Mi = 0.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.0 \ 1.0 \ 0.0$   
 $LCHMi = 31.8 \ 95.4 \ 150$   
 $LCHo = 56.7 \ 77.4 \ 150$   
 $tchMi = 0.5 \ 1.0 \ 0.417$   
 $tchMo = 0.5 \ 1.0 \ 0.417$

**C Cyan blue**

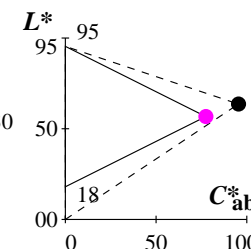
$olv3Mi = 0.0 \ 1.0 \ 1.0$   
 $olv3Mo = 0.0 \ 1.0 \ 1.0$   
 $LCHMi = 63.6 \ 95.4 \ 210$   
 $LCHo = 56.7 \ 77.4 \ 210$   
 $tchMi = 0.5 \ 1.0 \ 0.583$   
 $tchMo = 0.5 \ 1.0 \ 0.583$

**V Violet blue**

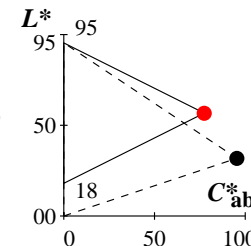
$olv3Mi = 0.0 \ 0.0 \ 1.0$   
 $olv3Mo = 0.0 \ 0.0 \ 1.0$   
 $LCHMi = 31.8 \ 95.4 \ 270$   
 $LCHo = 56.7 \ 77.4 \ 270$   
 $tchMi = 0.5 \ 1.0 \ 0.75$   
 $tchMo = 0.5 \ 1.0 \ 0.75$

**M Magenta red**

$olv3Mi = 1.0 \ 0.0 \ 1.0$   
 $olv3Mo = 1.0 \ 0.0 \ 1.0$   
 $LCHMi = 63.6 \ 95.4 \ 330$   
 $LCHo = 56.7 \ 77.4 \ 330$   
 $tchMi = 0.5 \ 1.0 \ 0.917$   
 $tchMo = 0.5 \ 1.0 \ 0.917$

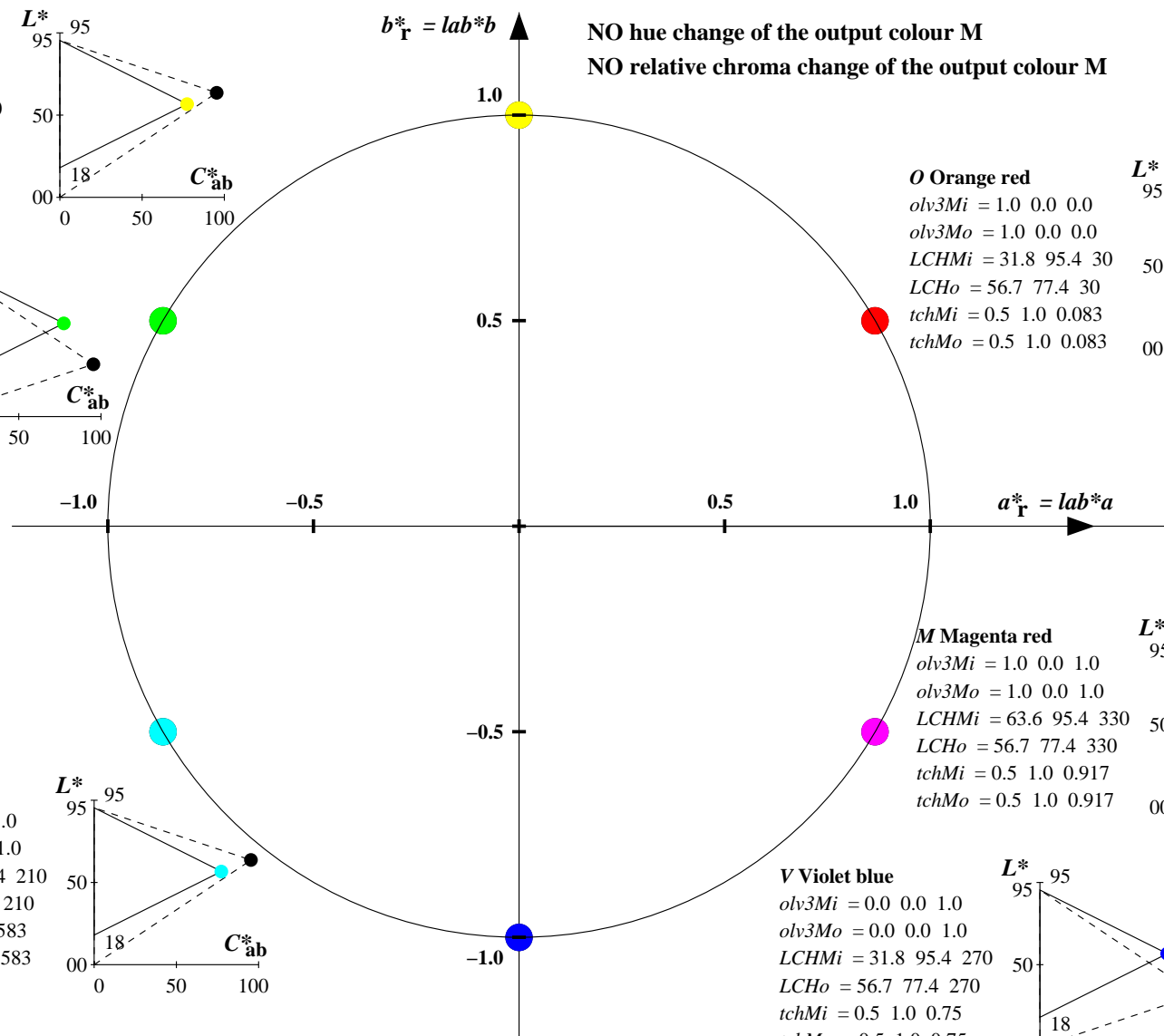
**O Orange red**

$olv3Mi = 1.0 \ 0.0 \ 0.0$   
 $olv3Mo = 1.0 \ 0.0 \ 0.0$   
 $LCHMi = 31.8 \ 95.4 \ 30$   
 $LCHo = 56.7 \ 77.4 \ 30$   
 $tchMi = 0.5 \ 1.0 \ 0.083$   
 $tchMo = 0.5 \ 1.0 \ 0.083$



NO hue change of the output colour M

NO relative chroma change of the output colour M



Relative CIELAB chroma diagram: ( $a^*_r = lab^*a$ ,  $b^*_r = lab^*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)  
NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)  
SRS18: Output (o) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

**Y Yellow**

$olv3Mi = 1.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.833 \ 1.0 \ 0.0$   
 $LCHMi = 63.6 \ 95.4 \ 90$   
 $LCHo = 56.7 \ 77.4 \ 100$   
 $tchMi = 0.5 \ 1.0 \ 0.25$   
 $tchMo = 0.5 \ 1.0 \ 0.278$

**L Leaf green**

$olv3Mi = 0.0 \ 1.0 \ 0.0$   
 $olv3Mo = 0.0 \ 1.0 \ 0.167$   
 $LCHMi = 31.8 \ 95.4 \ 150$   
 $LCHo = 56.7 \ 77.4 \ 160$   
 $tchMi = 0.5 \ 1.0 \ 0.417$   
 $tchMo = 0.5 \ 1.0 \ 0.444$

**C Cyan blue**

$olv3Mi = 0.0 \ 1.0 \ 1.0$   
 $olv3Mo = 0.0 \ 0.833 \ 1.0$   
 $LCHMi = 63.6 \ 95.4 \ 210$   
 $LCHo = 56.7 \ 77.4 \ 220$   
 $tchMi = 0.5 \ 1.0 \ 0.583$   
 $tchMo = 0.5 \ 1.0 \ 0.611$

**V Violet blue**

$olv3Mi = 0.0 \ 0.0 \ 1.0$   
 $olv3Mo = 0.167 \ 0.0 \ 1.0$   
 $LCHMi = 31.8 \ 95.4 \ 270$   
 $LCHo = 56.7 \ 77.4 \ 280$   
 $tchMi = 0.5 \ 1.0 \ 0.75$   
 $tchMo = 0.5 \ 1.0 \ 0.778$

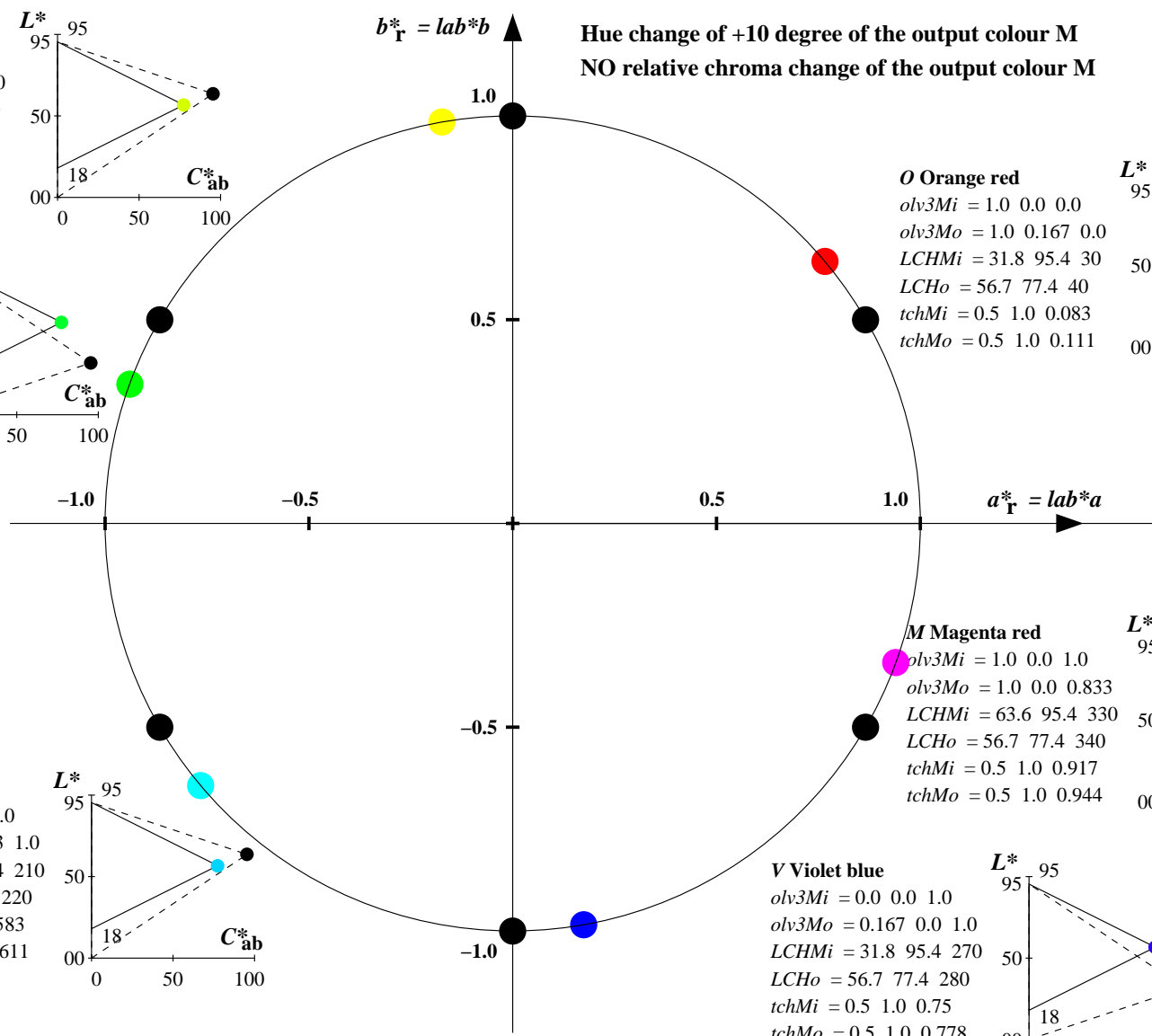
**M Magenta red**

$olv3Mi = 1.0 \ 0.0 \ 1.0$   
 $olv3Mo = 1.0 \ 0.0 \ 0.833$   
 $LCHMi = 63.6 \ 95.4 \ 330$   
 $LCHo = 56.7 \ 77.4 \ 340$   
 $tchMi = 0.5 \ 1.0 \ 0.917$   
 $tchMo = 0.5 \ 1.0 \ 0.944$

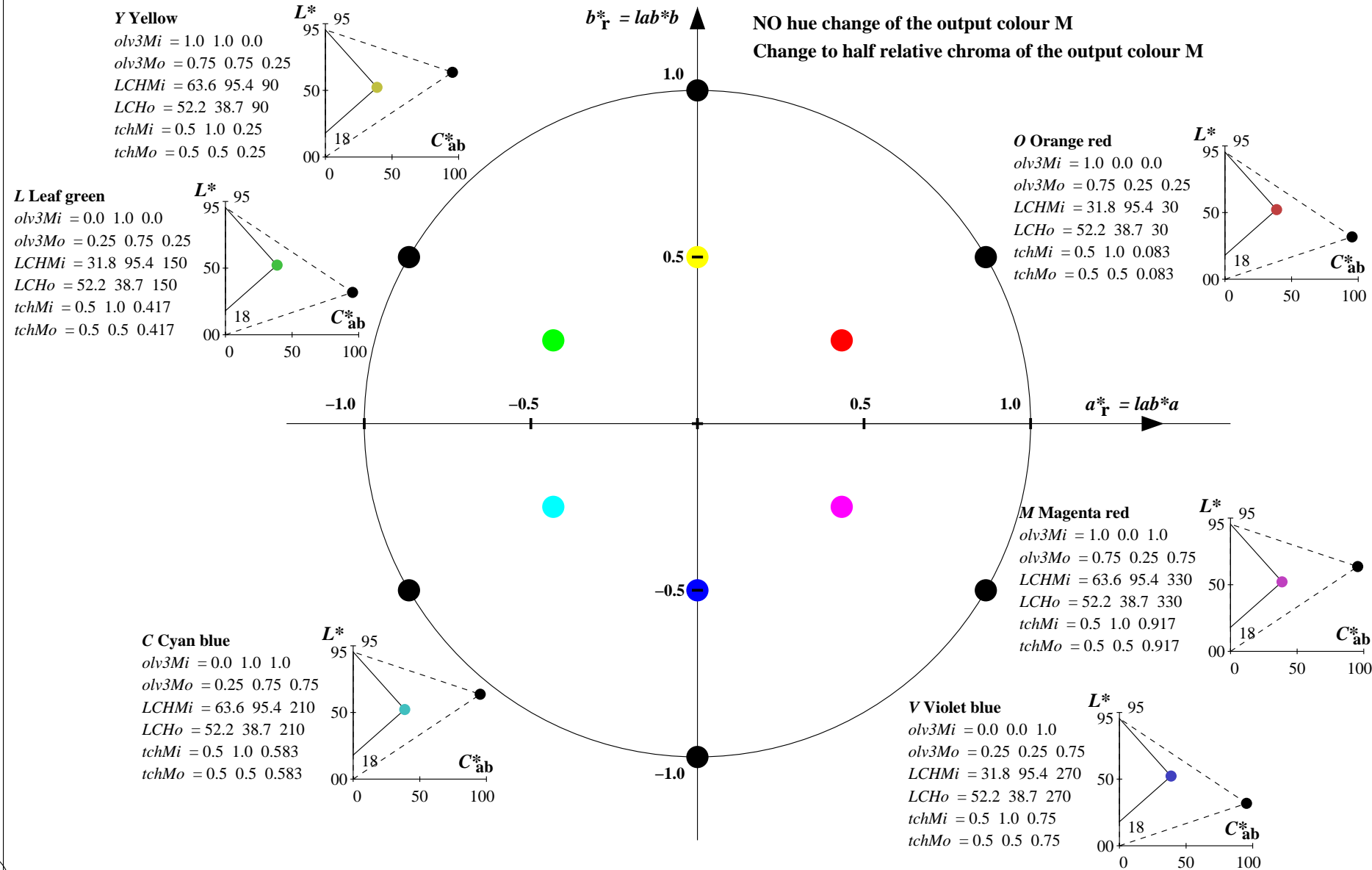
**O Orange red**

$olv3Mi = 1.0 \ 0.0 \ 0.0$   
 $olv3Mo = 1.0 \ 0.167 \ 0.0$   
 $LCHMi = 31.8 \ 95.4 \ 30$   
 $LCHo = 56.7 \ 77.4 \ 40$   
 $tchMi = 0.5 \ 1.0 \ 0.083$   
 $tchMo = 0.5 \ 1.0 \ 0.111$

Hue change of +10 degree of the output colour M  
NO relative chroma change of the output colour M



Relative CIELAB chroma diagram: ( $a^*_r = lab^*a$ ,  $b^*_r = lab^*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)  
NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)  
SRS18: Output (o) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)



YE640-7, Colour Management Workflow: Device Colour Input Data of the Colour Space NLS00 -> Device Colour Output Data of Output Space SRS18, page 28/32

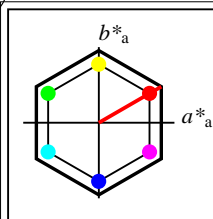
BAM-test chart YE64; Colorimetric workflow NLS00->SRS18

D65: 6 basic colours; Device and sample data; page 28/32

input:  $olv^* setrgbcolor$

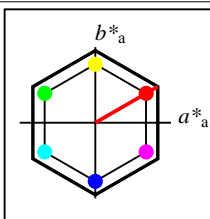
output: no change compared to input





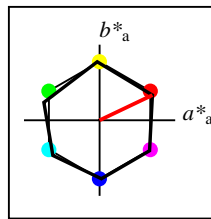
**%Gamut**  
 $u^*_{rel} = 152$   
**%Regularity**  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$

NLS00	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>M</sub>	31.81	82.62	47.7	95.4	30
Y <sub>M</sub>	63.61	0.0	95.4	95.4	90
L <sub>M</sub>	31.81	-82.61	47.7	95.4	150
C <sub>M</sub>	63.61	-82.61	-47.69	95.4	210
V <sub>M</sub>	31.81	0.0	-95.39	95.4	270
M <sub>M</sub>	63.61	82.62	-47.69	95.4	330
N <sub>M</sub>	0.01	0.0	0.0	0.0	0
W <sub>M</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 152$   
**%Regularity**  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$

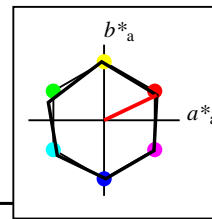
NLS00a; adapted CIELAB data	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	31.81	82.62	47.7	95.4	30
Y <sub>Ma</sub>	63.61	0.0	95.4	95.4	90
L <sub>Ma</sub>	31.81	-82.61	47.7	95.4	150
C <sub>Ma</sub>	63.61	-82.61	-47.69	95.4	210
V <sub>Ma</sub>	31.81	0.0	-95.39	95.4	270
M <sub>Ma</sub>	63.61	82.62	-47.69	95.4	330
N <sub>Ma</sub>	0.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 100$   
**%Regularity**  
 $g^*_{H,rel} = 78$   
 $g^*_{C,rel} = 100$

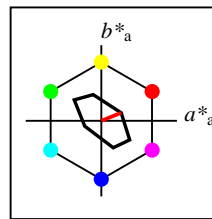
NRS18a; adapted CIELAB data	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	56.71	69.87	33.29	77.4	25
Y <sub>Ma</sub>	56.71	-3.1	77.34	77.4	92
L <sub>Ma</sub>	56.71	-73.68	23.63	77.39	162
C <sub>Ma</sub>	56.71	-61.81	-46.54	77.39	217
V <sub>Ma</sub>	56.71	2.35	-77.34	77.39	272
M <sub>Ma</sub>	56.71	66.07	-40.3	77.4	329
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

Workflow choices  
for colour samples:  
1. No colour change  
2. Hue change  
3. Chroma change



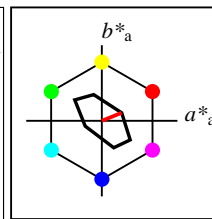
**%Gamut**  
 $u^*_{rel} = 100$   
**%Regularity**  
 $g^*_{H,rel} = 78$   
 $g^*_{C,rel} = 100$

NRS18a; adapted CIELAB data	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	56.71	69.87	33.29	77.4	25
Y <sub>Ma</sub>	56.71	-3.1	77.34	77.4	92
L <sub>Ma</sub>	56.71	-73.68	23.63	77.39	162
C <sub>Ma</sub>	56.71	-61.81	-46.54	77.39	217
V <sub>Ma</sub>	56.71	2.35	-77.34	77.39	272
M <sub>Ma</sub>	56.71	66.07	-40.3	77.4	329
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 16$   
**%Regularity**  
 $g^*_{H,rel} = 34$   
 $g^*_{C,rel} = 51$

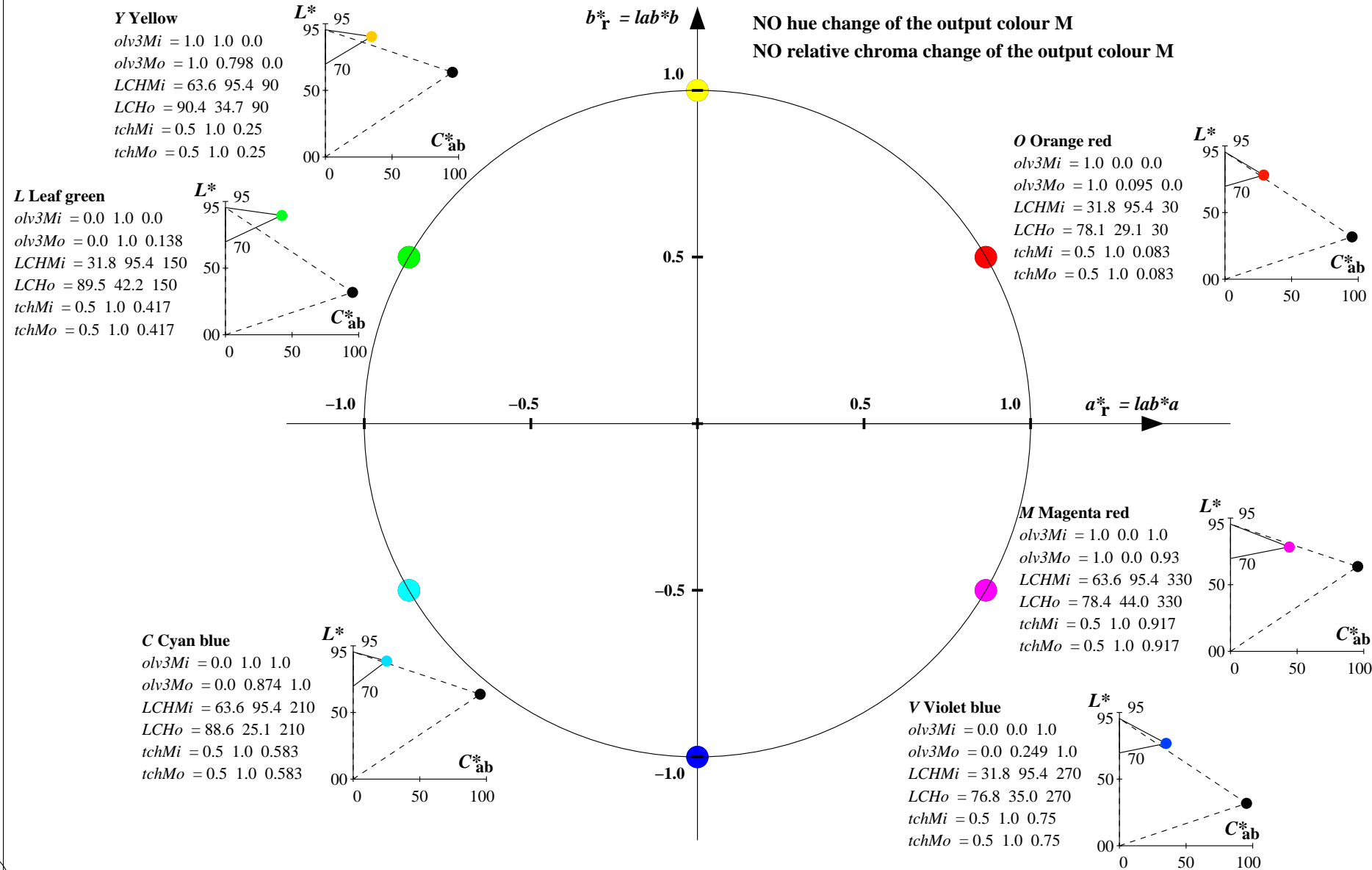
TLS70a; adapted CIELAB data	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	76.43	26.27	10.57	28.32	22
Y <sub>Ma</sub>	93.93	-10.76	34.63	36.27	107
L <sub>Ma</sub>	89.32	-35.8	27.64	45.24	142
C <sub>Ma</sub>	90.93	-21.95	-7.07	23.07	198
V <sub>Ma</sub>	72.1	15.76	-35.63	38.97	294
M <sub>Ma</sub>	78.5	37.52	-25.23	45.22	326
N <sub>Ma</sub>	69.7	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272



**%Gamut**  
 $u^*_{rel} = 16$   
**%Regularity**  
 $g^*_{H,rel} = 34$   
 $g^*_{C,rel} = 51$

TLS70	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>M</sub>	76.43	26.27	10.57	28.32	22
Y <sub>M</sub>	93.93	-10.76	34.63	36.27	107
L <sub>M</sub>	89.32	-35.8	27.64	45.24	142
C <sub>M</sub>	90.93	-21.95	-7.07	23.07	198
V <sub>M</sub>	72.1	15.76	-35.63	38.97	294
M <sub>M</sub>	78.5	37.52	-25.23	45.22	326
N <sub>M</sub>	69.7	0.0	0.0	0.0	0
W <sub>M</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.74	27.99	65.07	25
J <sub>CIE</sub>	81.26	-2.88	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.41	13.6	44.55	162
B <sub>CIE</sub>	30.57	1.41	-46.46	46.49	272

Relative CIELAB chroma diagram: ( $a^*_r = lab*a$ ,  $b^*_r = lab*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)  
NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)  
TLS70: Output (o) colorimetric system; Six hue angles of the colour device: (21.9, 107.3, 142.3, 197.9, 293.9, 326.1); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

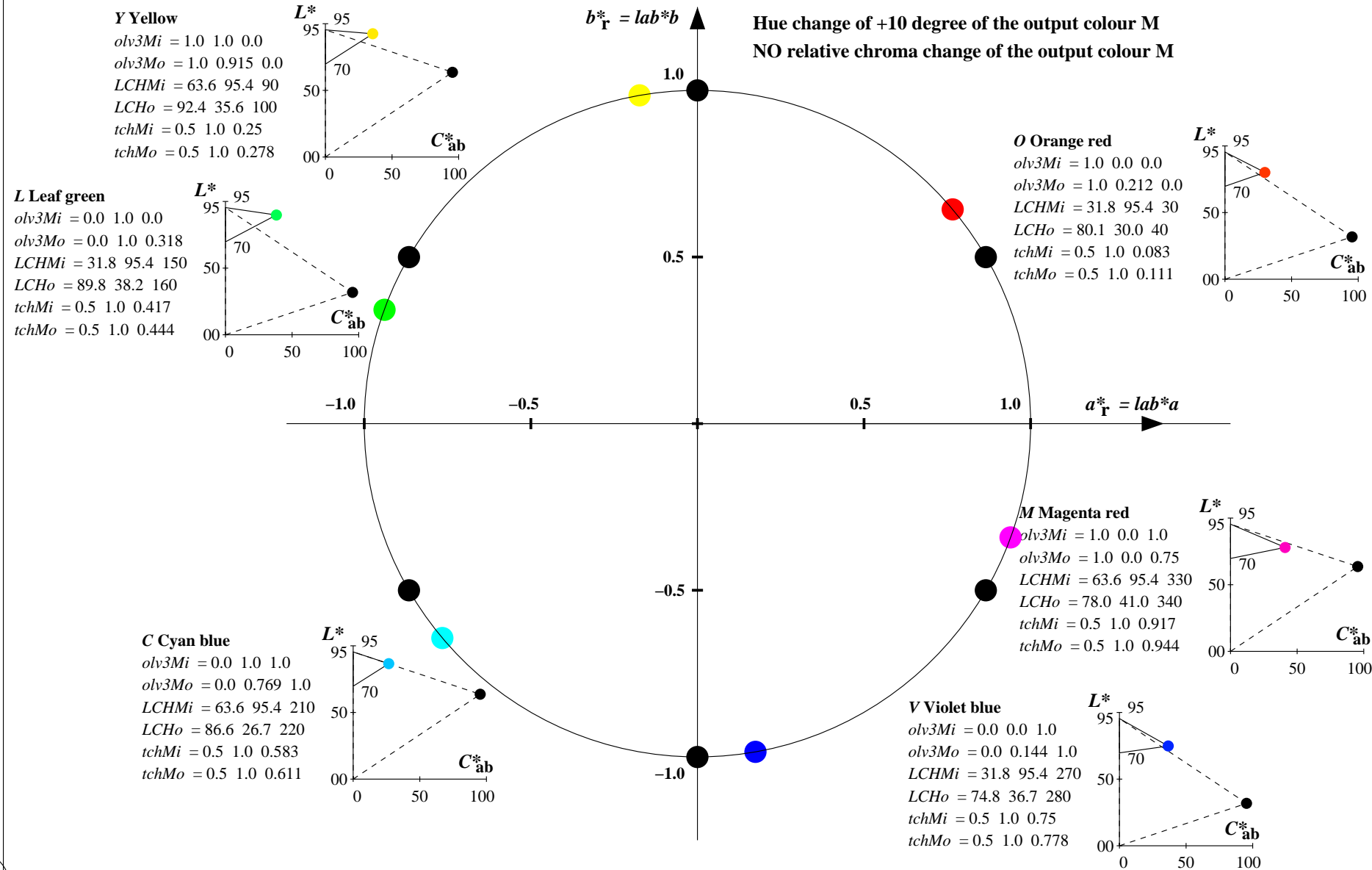


YE640-7, Colour Management Workflow: Device Colour Input Data of the Colour Space NLS00 -> Device Colour Output Data of Output Space TLS70, page 30/32

BAM-test chart YE64; Colorimetric workflow NLS00->TLS70  
D65: 6 basic colours; Device and sample data; page 30/32

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

Relative CIELAB chroma diagram: ( $a^*_r = lab^*a$ ,  $b^*_r = lab^*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)  
NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)  
TLS70: Output (o) colorimetric system; Six hue angles of the colour device: (21.9, 107.3, 142.3, 197.9, 293.9, 326.1); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)

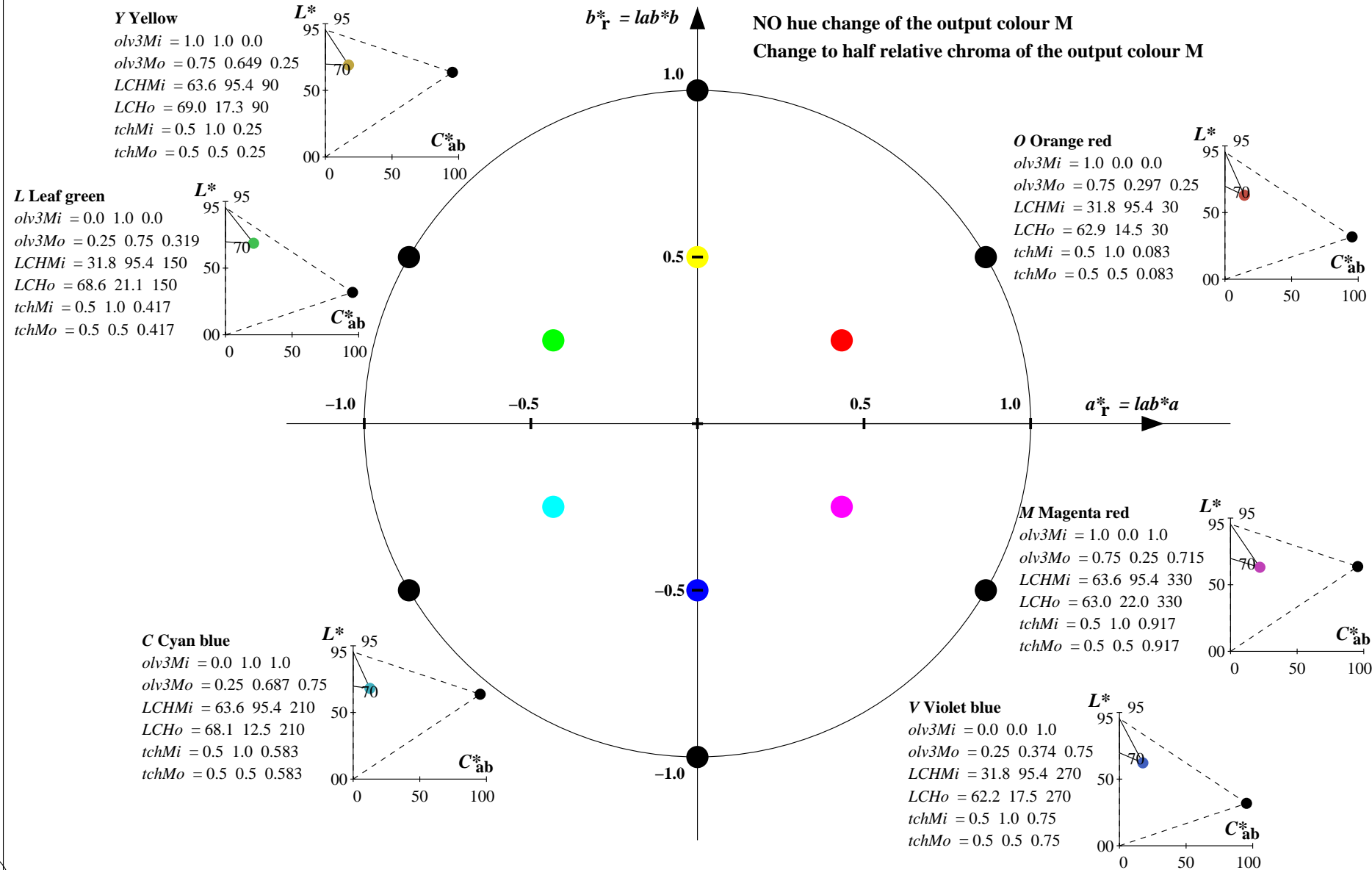


YE640-7, Colour Management Workflow: Device Colour Input Data of the Colour Space NLS00 -> Device Colour Output Data of Output Space TLS70, page 31/32

BAM-test chart YE64; Colorimetric workflow NLS00->TLS70  
D65: 6 basic colours; Device and sample data; page 31/32

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

Relative CIELAB chroma diagram: ( $a^*_r = lab^*a$ ,  $b^*_r = lab^*b$ ) and absolute CIELAB hue triangle diagram: ( $L^*$ ,  $C^*_{ab}$ ) for input (—) and output (---)  
NLS00: Input (i) colorimetric system; Six hue angles of the colour device: (30.0, 90.0, 150.0, 210.0, 270.0, 330.0); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)  
TLS70: Output (o) colorimetric system; Six hue angles of the colour device: (21.9, 107.3, 142.3, 197.9, 293.9, 326.1); Four hue angles of the elementary colours: (25.5, 92.3, 162.2, 271.7)



YE640-7, Colour Management Workflow: Device Colour Input Data of the Colour Space NLS00 → Device Colour Output Data of Output Space TLS70, page 32/32

BAM-test chart YE64; Colorimetric workflow NLS00 → TLS70

D65: 6 basic colours; Device and sample data; page 32/32

input:  $olv^* setrgbcolor$

output: no change compared to input