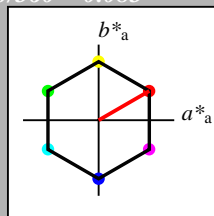


Input: Colorimetric Standard Reflective System SRS18

for hue  $h^* = lab^*h = 30/360 = 0.083$   
 $lab^*tch$  and  $lab^*nch$

D65: hue O  
 LCH\*Ma: 57 77 30  
 olv\*Ma: 1.0 0.0 0.0  
 triangle lightness  $t^*$



**SRS18; adapted (a) CIELAB data**

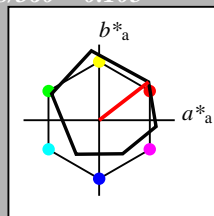
	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	56.71	67.03	38.7	77.4	30
YMa	56.71	0.0	77.4	77.4	90
LMa	56.71	-67.02	38.7	77.4	150
CMa	56.71	-67.02	-38.69	77.4	210
VMa	56.71	0.0	-77.39	77.4	270
MMa	56.71	67.03	-38.69	77.4	330
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

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

Output: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 38/360 = 0.105$   
 $lab^*tch$  and  $lab^*nch$

D65: hue O  
 LCH\*Ma: 48 83 38  
 olv\*Ma: 1.0 0.0 0.0  
 triangle lightness  $t^*$



**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271

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

**relative Inform. Technology (IT)**

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0
cmyn4*	0.0	0.0	0.0	0.0

**standard and adapted CIELAB**

LAB*LAB	95.41	-0.98	4.75
LAB*LABa	95.41	0.0	0.0
LAB*TCHa	99.99	0.01	-

**relative CIELAB lab\***

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	-

**relative Natural Colour (NC)**

lab*lrj	1.0	0.0	0.0
lab*tce	1.0	0.0	-
lab*nce	0.0	0.0	-

**relative Inform. Technology (IT)**

olvi3*	1.0	0.5	0.5	(1.0)
cmyn3*	0.0	0.5	0.5	(0.0)
olvi4*	1.0	0.5	0.5	1.0
cmyn4*	0.0	0.5	0.5	0.0

**standard and adapted CIELAB**

LAB*LAB	71.67	32.15	28.41
LAB*LABa	71.67	32.69	25.25
LAB*TCHa	75.0	41.31	37.69

**relative CIELAB lab\***

lab*lab	0.693	0.396	0.306
lab*tch	0.75	0.5	0.105
lab*nch	0.0	0.5	0.105

**relative Natural Colour (NC)**

lab*lrj	0.693	0.477	0.15
lab*tce	0.75	0.5	0.048
lab*nce	0.0	0.5	r19j

**relative Inform. Technology (IT)**

olvi3*	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	0.5
cmyn4*	0.0	0.0	0.0	0.5

**standard and adapted CIELAB**

LAB*LAB	56.71	-0.24	2.14
LAB*LABa	56.71	0.0	0.0
LAB*TCHa	50.0	0.01	-

**relative CIELAB lab\***

lab*lab	0.5	0.0	0.0
lab*tch	0.5	0.0	-
lab*nch	0.5	0.0	-

**relative Natural Colour (NC)**

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	0.0	-

**relative Inform. Technology (IT)**

olvi3*	0.5	0.0	0.0	(1.0)
cmyn3*	0.5	1.0	1.0	(0.0)
olvi4*	1.0	0.5	0.5	0.5
cmyn4*	0.0	0.5	0.5	0.5

**standard and adapted CIELAB**

LAB*LAB	32.98	32.9	25.8
LAB*LABa	32.98	32.69	25.25
LAB*TCHa	25.01	41.31	37.69

**relative CIELAB lab\***

lab*lab	0.193	0.396	0.306
lab*tch	0.25	0.5	0.105
lab*nch	0.5	0.5	0.105

**relative Natural Colour (NC)**

lab*lrj	0.193	0.477	0.15
lab*tce	0.25	0.5	0.048
lab*nce	0.5	0.5	r19j

**relative Inform. Technology (IT)**

olvi3*	1.0	0.0	0.0	(1.0)
cmyn3*	0.0	1.0	1.0	(0.0)
olvi4*	1.0	0.0	0.0	1.0
cmyn4*	0.0	1.0	1.0	0.0

**standard and adapted CIELAB**

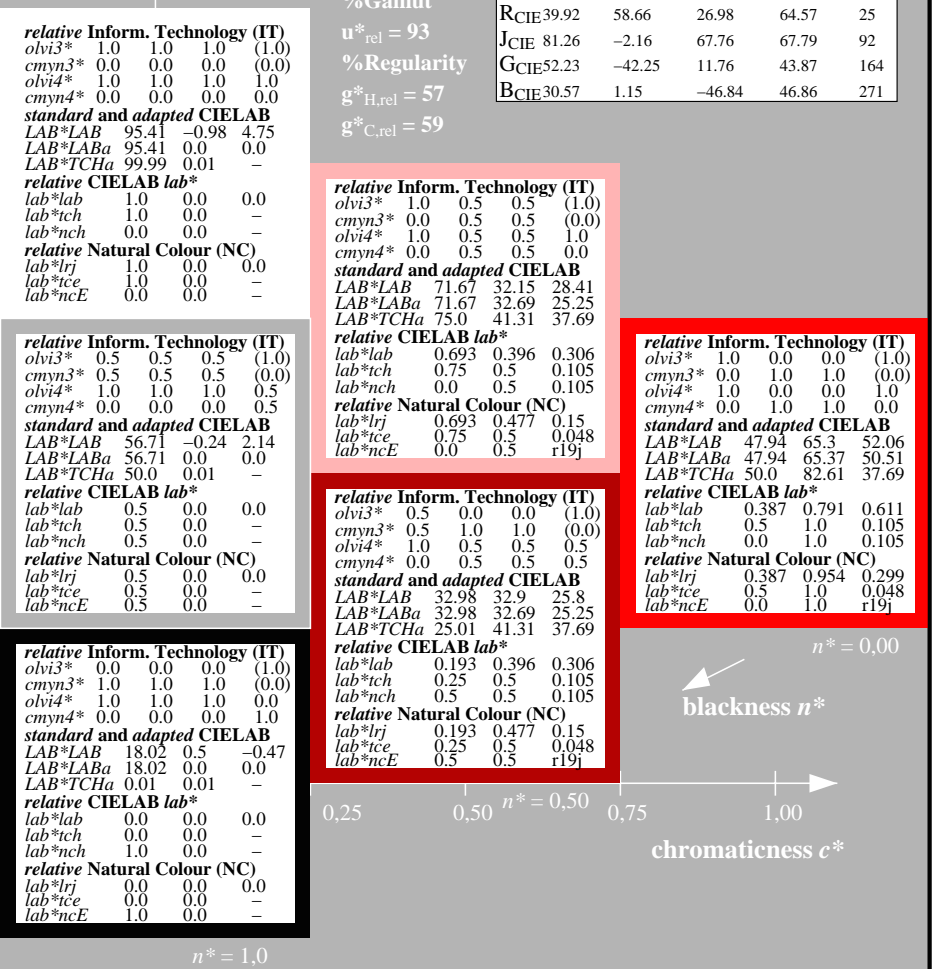
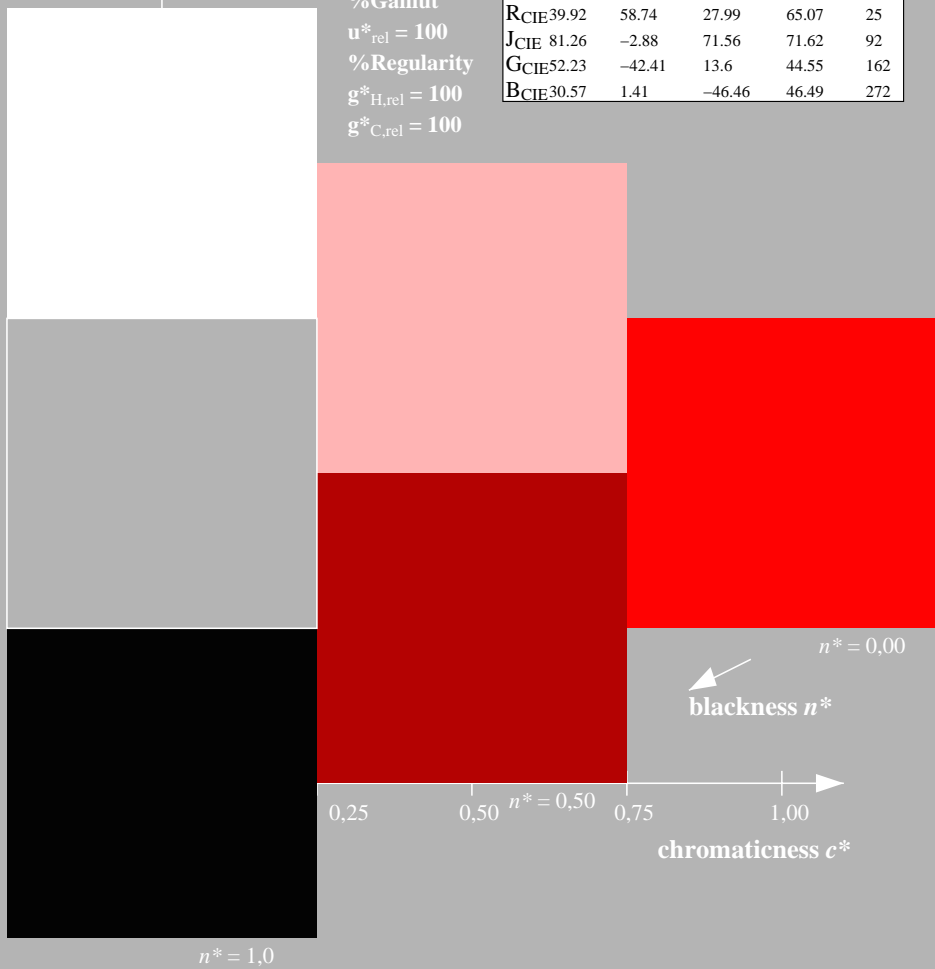
LAB*LAB	47.94	65.3	52.06
LAB*LABa	47.94	65.37	50.51
LAB*TCHa	50.0	82.61	37.69

**relative CIELAB lab\***

lab*lab	0.387	0.791	0.611
lab*tch	0.5	1.0	0.105
lab*nch	0.0	1.0	0.105

**relative Natural Colour (NC)**

lab*lrj	0.387	0.954	0.299
lab*tce	0.5	1.0	0.048
lab*nce	0.0	1.0	r19j



NE070-7, 3 step scales for constant CIELAB hue 30/360 = 0.083 (left)

3 step scales for constant CIELAB hue 38/360 = 0.105 (right)

BAM-test chart NE07; Colorimetric systems SRS18 & ORS18  
 D65: 3 step colour scales and coordinate data for 10 hues

input:  $olv^* setrgbcolor$   
 output:  $olv^* setrgbcolor / w^* setgray$

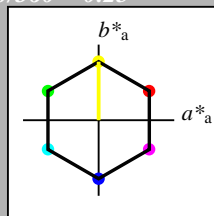
See for similar files: <http://www.ps.bam.de/NE07/>  
 Technical information: <http://www.ps.bam.de>  
 Version 2.1, io=1,1, CIELAB

BAM registration: 20060101-NE07/10Q/Q07E00FP.PS/.PDF BAM material: code=rh4ta  
 application for evaluation and measurement of printer or monitor systems  
 /NE07/ Form: 1/10, Serie: 1/1, Page: 1 Page count: 1

Input: Colorimetric Standard Reflective System SRS18

for hue  $h^* = lab^*h = 90/360 = 0.25$   
 $lab^*tch$  and  $lab^*nch$

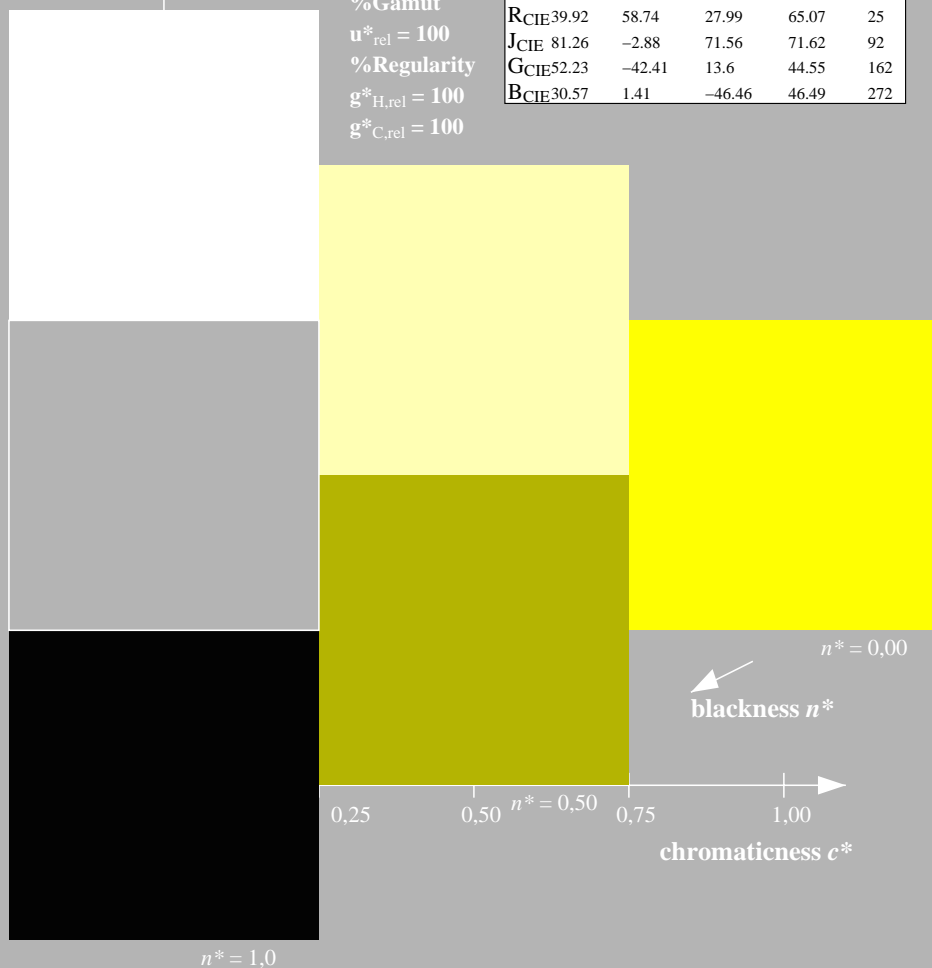
D65: hue Y  
 LCH\*Ma: 57 77 90  
 olv\*Ma: 1.0 1.0 0.0  
 triangle lightness  $t^*$



**SRS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	56.71	67.03	38.7	77.4	30
YMa	56.71	0.0	77.4	77.4	90
LMa	56.71	-67.02	38.7	77.4	150
CMa	56.71	-67.02	-38.69	77.4	210
VMa	56.71	0.0	-77.39	77.4	270
MMa	56.71	67.03	-38.69	77.4	330
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

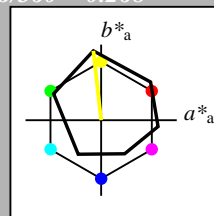
%Gamut  
 $u^*_{rel} = 100$   
 %Regularity  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$



Output: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 96/360 = 0.268$   
 $lab^*tch$  and  $lab^*nch$

D65: hue Y  
 LCH\*Ma: 90 92 96  
 olv\*Ma: 1.0 1.0 0.0  
 triangle lightness  $t^*$



**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271

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

**relative Inform. Technology (IT)**

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0
cmyn4*	0.0	0.0	0.0	0.0

**standard and adapted CIELAB**

LAB*LAB	95.41	-0.98	4.75
LAB*LABa	95.41	0.0	0.0
LAB*TCHa	99.99	0.01	-

**relative CIELAB lab\***

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	-

**relative Natural Colour (NC)**

lab*lrj	1.0	0.0	0.0
lab*tce	1.0	0.0	-
lab*nce	0.0	0.0	-

**relative Inform. Technology (IT)**

olvi3*	1.0	1.0	0.5	(1.0)
cmyn3*	0.0	0.0	0.5	(0.0)
olvi4*	1.0	1.0	0.5	1.0
cmyn4*	0.0	0.0	0.5	0.0

**standard and adapted CIELAB**

LAB*LAB	92.88	-6.06	50.46
LAB*LABa	92.88	-5.12	45.87
LAB*TCHa	75.0	46.15	96.38

**relative CIELAB lab\***

lab*lab	0.967	-0.055	0.497
lab*tch	0.75	0.5	0.268
lab*nch	0.0	0.5	0.268

**relative Natural Colour (NC)**

lab*lrj	0.967	-0.048	0.497
lab*tce	0.75	0.5	0.266
lab*nce	0.0	0.5	j06g

**relative Inform. Technology (IT)**

olvi3*	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	0.5
cmyn4*	0.0	0.0	0.0	0.5

**standard and adapted CIELAB**

LAB*LAB	56.71	-0.24	2.14
LAB*LABa	56.71	0.0	0.0
LAB*TCHa	50.0	0.01	-

**relative CIELAB lab\***

lab*lab	0.5	0.0	0.0
lab*tch	0.5	0.0	-
lab*nch	0.5	0.0	-

**relative Natural Colour (NC)**

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	0.0	-

**relative Inform. Technology (IT)**

olvi3*	0.5	0.5	0.0	(1.0)
cmyn3*	0.5	0.5	1.0	(0.0)
olvi4*	1.0	1.0	0.5	0.5
cmyn4*	0.0	0.0	0.5	0.5

**standard and adapted CIELAB**

LAB*LAB	54.19	-5.32	47.84
LAB*LABa	54.19	-5.12	45.87
LAB*TCHa	25.01	46.15	96.38

**relative CIELAB lab\***

lab*lab	0.467	-0.055	0.497
lab*tch	0.25	0.5	0.268
lab*nch	0.5	0.5	0.268

**relative Natural Colour (NC)**

lab*lrj	0.467	-0.048	0.497
lab*tce	0.25	0.5	0.266
lab*nce	0.5	0.5	j06g

**relative Inform. Technology (IT)**

olvi3*	1.0	1.0	0.0	(1.0)
cmyn3*	0.0	0.0	1.0	(0.0)
olvi4*	1.0	1.0	0.0	1.0
cmyn4*	0.0	0.0	1.0	0.0

**standard and adapted CIELAB**

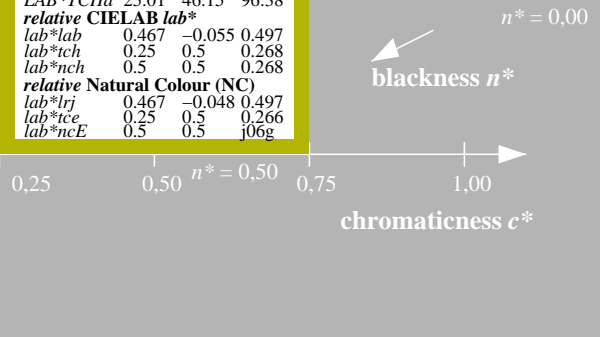
LAB*LAB	90.36	-11.15	96.15
LAB*LABa	90.36	-10.25	91.73
LAB*TCHa	50.0	92.3	96.38

**relative CIELAB lab\***

lab*lab	0.935	-0.11	0.994
lab*tch	0.5	1.0	0.268
lab*nch	0.0	1.0	0.268

**relative Natural Colour (NC)**

lab*lrj	0.935	-0.097	0.995
lab*tce	0.5	1.0	0.266
lab*nce	0.0	1.0	j06g



**relative Inform. Technology (IT)**

olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	0.0
cmyn4*	0.0	0.0	0.0	1.0

**standard and adapted CIELAB**

LAB*LAB	18.02	0.5	-0.47
LAB*LABa	18.02	0.0	0.0
LAB*TCHa	0.01	0.01	-

**relative CIELAB lab\***

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

**relative Natural Colour (NC)**

lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-

3 step scales for constant CIE LAB hue 96/360 = 0.268 (right)

NE070-7, 3 step scales for constant CIE LAB hue 90/360 = 0.25 (left)

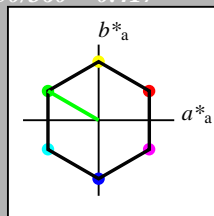
BAM-test chart NE07; Colorimetric systems SRS18 & ORS18  
 D65: 3 step colour scales and coordinate data for 10 hues

input:  $olv^* setrgbcolor$   
 output:  $olv^* setrgbcolor / w^* setgray$

Input: Colorimetric Standard Reflective System SRS18

for hue  $h^* = lab^*h = 150/360 = 0.417$   
 $lab^*tch$  and  $lab^*nch$

D65: hue L  
 LCH\*Ma: 57 77 150  
 olv\*Ma: 0.0 1.0 0.0  
 triangle lightness  $t^*$



**SRS18; adapted (a) CIELAB data**

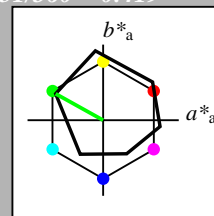
	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	56.71	67.03	38.7	77.4	30
YMa	56.71	0.0	77.4	77.4	90
LMa	56.71	-67.02	38.7	77.4	150
CMa	56.71	-67.02	-38.69	77.4	210
VMa	56.71	0.0	-77.39	77.4	270
MMa	56.71	67.03	-38.69	77.4	330
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

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

Output: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 151/360 = 0.419$   
 $lab^*tch$  and  $lab^*nch$

D65: hue L  
 LCH\*Ma: 51 72 151  
 olv\*Ma: 0.0 1.0 0.0  
 triangle lightness  $t^*$



**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271

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

**relative Inform. Technology (IT)**

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0
cmyn4*	0.0	0.0	0.0	0.0

**standard and adapted CIELAB**

LAB*LAB	95.41	-0.98	4.75
LAB*LABa	95.41	0.0	0.0
LAB*TCHa	99.99	0.01	-

**relative CIELAB lab\***

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	-

**relative Natural Colour (NC)**

lab*lrj	1.0	0.0	0.0
lab*tce	1.0	0.0	-
lab*nce	0.0	0.0	-

**relative Inform. Technology (IT)**

olvi3*	0.5	1.0	0.5	(1.0)
cmyn3*	0.5	0.0	0.5	(0.0)
olvi4*	0.5	1.0	0.5	1.0
cmyn4*	0.5	0.0	0.5	0.0

**standard and adapted CIELAB**

LAB*LAB	73.15	-31.96	20.73
LAB*LABa	73.15	-31.4	17.48
LAB*TCHa	75.0	35.95	150.91

**relative CIELAB lab\***

lab*lab	0.712	-0.436	0.243
lab*tch	0.75	0.5	0.419
lab*nch	0.0	0.5	0.419

**relative Natural Colour (NC)**

lab*lrj	0.712	-0.478	0.144
lab*tce	0.75	0.5	0.453
lab*nce	0.0	0.5	j81g

**relative Inform. Technology (IT)**

olvi3*	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	0.5
cmyn4*	0.0	0.0	0.0	0.5

**standard and adapted CIELAB**

LAB*LAB	56.71	-0.24	2.14
LAB*LABa	56.71	0.0	0.0
LAB*TCHa	50.0	0.01	-

**relative CIELAB lab\***

lab*lab	0.5	0.0	0.0
lab*tch	0.5	0.0	-
lab*nch	0.5	0.0	-

**relative Natural Colour (NC)**

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	0.0	-

**relative Inform. Technology (IT)**

olvi3*	0.0	0.5	0.0	(1.0)
cmyn3*	1.0	0.5	1.0	(0.0)
olvi4*	0.5	1.0	0.5	0.5
cmyn4*	0.5	0.0	0.5	0.5

**standard and adapted CIELAB**

LAB*LAB	34.46	-31.22	18.12
LAB*LABa	34.46	-31.4	17.48
LAB*TCHa	25.01	35.95	150.91

**relative CIELAB lab\***

lab*lab	0.213	-0.436	0.243
lab*tch	0.25	0.5	0.419
lab*nch	0.5	0.5	0.419

**relative Natural Colour (NC)**

lab*lrj	0.213	-0.478	0.144
lab*tce	0.25	0.5	0.453
lab*nce	0.5	0.5	j81g

**relative Inform. Technology (IT)**

olvi3*	0.0	1.0	0.0	(1.0)
cmyn3*	1.0	0.0	1.0	(0.0)
olvi4*	0.0	1.0	0.0	1.0
cmyn4*	1.0	0.0	1.0	0.0

**standard and adapted CIELAB**

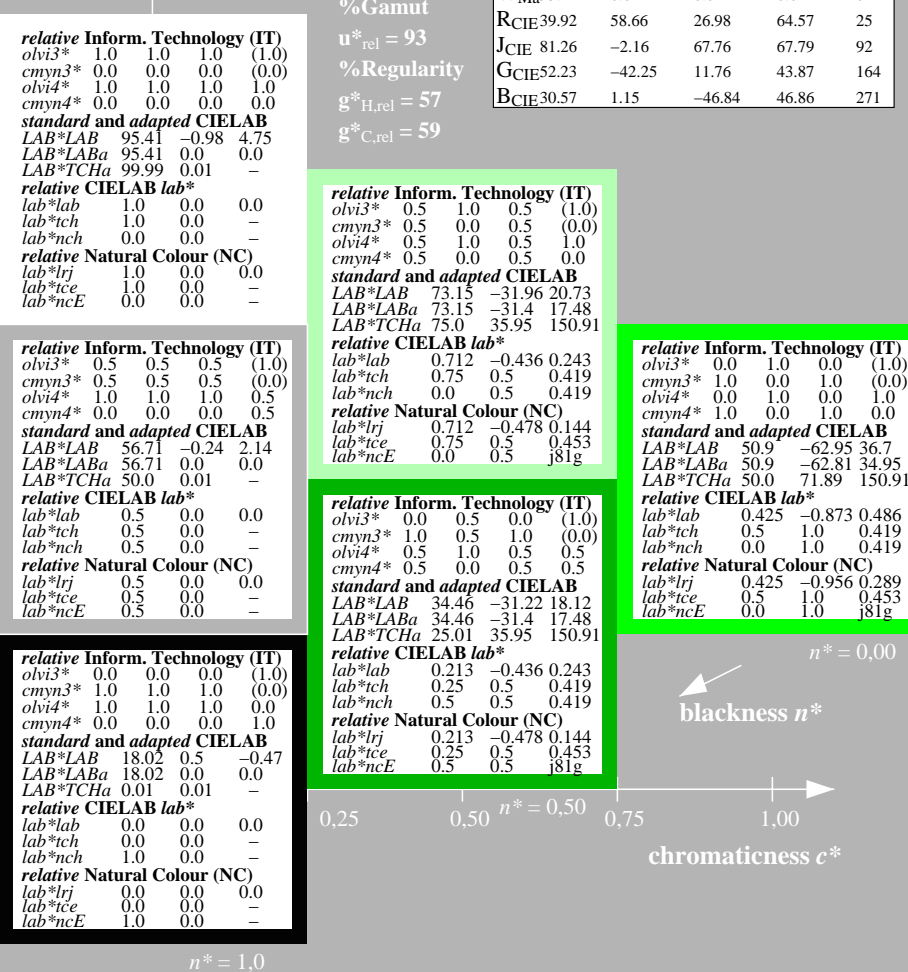
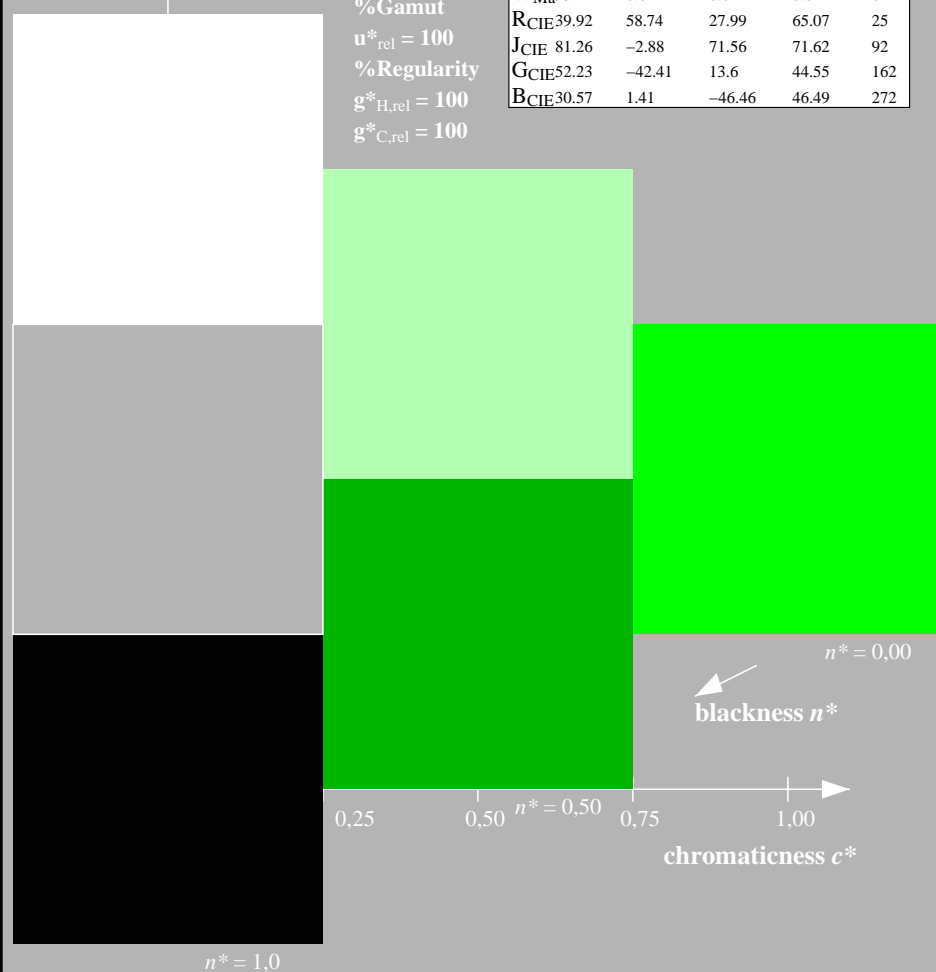
LAB*LAB	50.9	-62.95	36.7
LAB*LABa	50.9	-62.81	34.95
LAB*TCHa	50.0	71.89	150.91

**relative CIELAB lab\***

lab*lab	0.425	-0.873	0.486
lab*tch	0.5	1.0	0.419
lab*nch	0.0	1.0	0.419

**relative Natural Colour (NC)**

lab*lrj	0.425	-0.956	0.289
lab*tce	0.5	1.0	0.453
lab*nce	0.0	1.0	j81g



NE070-7, 3 step scales for constant CIELAB hue 150/360 = 0.417 (left)

3 step scales for constant CIELAB hue 151/360 = 0.419 (right)

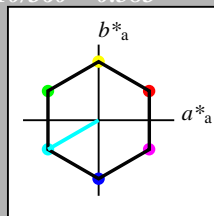
BAM-test chart NE07; Colorimetric systems SRS18 & ORS18  
 D65: 3 step colour scales and coordinate data for 10 hues

input: `olv* setrgbcolor`  
 output: `olv* setrgbcolor / w* setgray`

Input: Colorimetric Standard Reflective System SRS18

for hue  $h^* = lab^*h = 210/360 = 0.583$   
 $lab^*tch$  and  $lab^*nch$

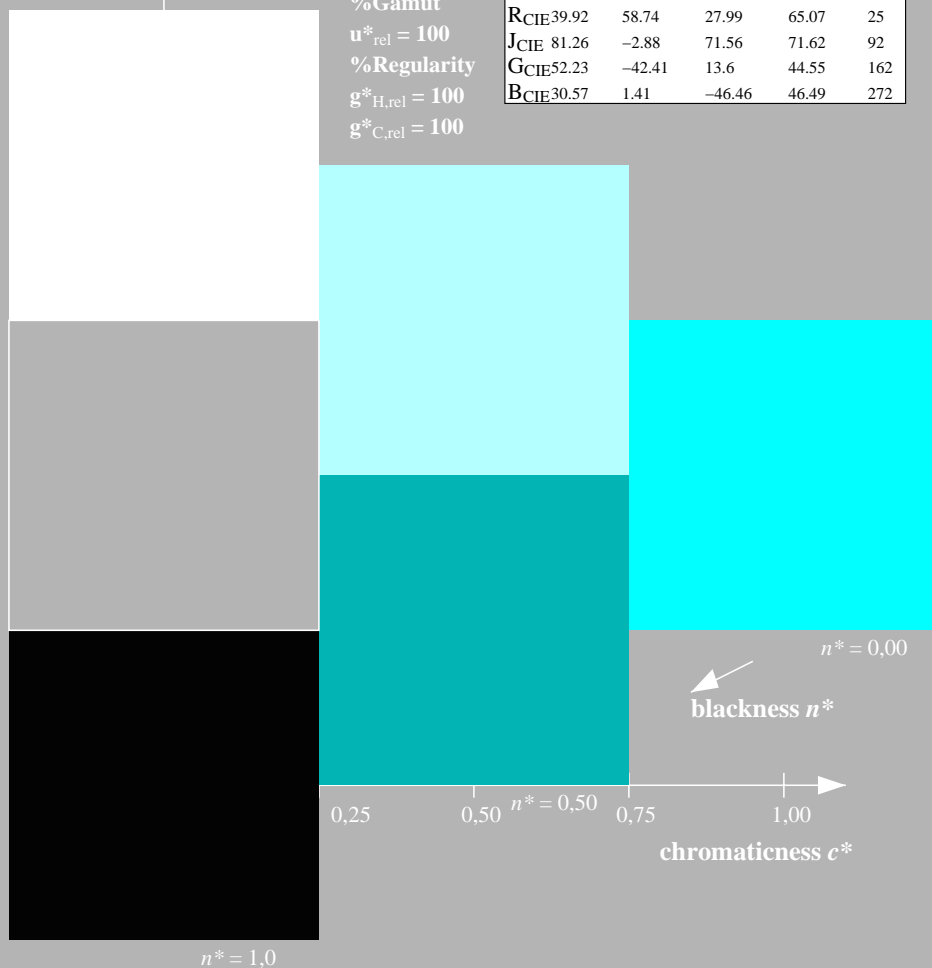
D65: hue C  
 LCH\*Ma: 57 77 210  
 olv\*Ma: 0.0 1.0 1.0  
 triangle lightness  $t^*$



**SRS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	56.71	67.03	38.7	77.4	30
YMa	56.71	0.0	77.4	77.4	90
LMa	56.71	-67.02	38.7	77.4	150
CMa	56.71	-67.02	-38.69	77.4	210
VMa	56.71	0.0	-77.39	77.4	270
MMa	56.71	67.03	-38.69	77.4	330
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

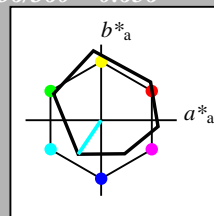
%Gamut  
 $u^*_{rel} = 100$   
 %Regularity  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$



Output: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 236/360 = 0.656$   
 $lab^*tch$  and  $lab^*nch$

D65: hue C  
 LCH\*Ma: 59 54 236  
 olv\*Ma: 0.0 1.0 1.0  
 triangle lightness  $t^*$



**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271

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

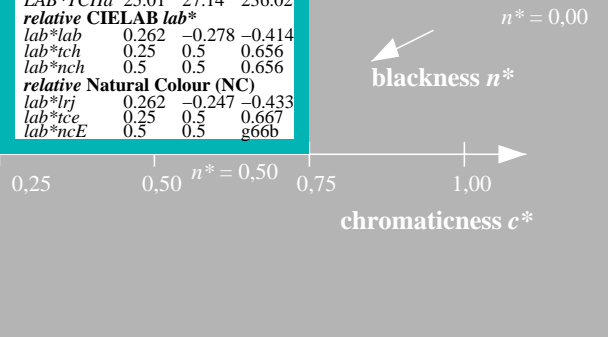
**relative Inform. Technology (IT)**  
 $olvi3^* = 1.0 \ 1.0 \ 1.0 \ (1.0)$   
 $cmyn3^* = 0.0 \ 0.0 \ 0.0 \ (0.0)$   
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 1.0$   
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 95.41 \ -0.98 \ 4.75$   
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 99.99 \ 0.01 \ -$   
**relative CIELAB lab\***  
 $lab^*lab = 1.0 \ 0.0 \ 0.0$   
 $lab^*tch = 1.0 \ 0.0 \ -$   
 $lab^*nch = 0.0 \ 0.0 \ -$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 1.0 \ 0.0 \ 0.0$   
 $lab^*tce = 1.0 \ 0.0 \ -$   
 $lab^*nce = 0.0 \ 0.0 \ -$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.5 \ 1.0 \ 1.0 \ (1.0)$   
 $cmyn3^* = 0.5 \ 0.0 \ 0.0 \ (0.0)$   
 $olvi4^* = 0.5 \ 1.0 \ 1.0 \ 1.0$   
 $cmyn4^* = 0.5 \ 0.0 \ 0.0 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 77.01 \ -15.8 \ -18.98$   
 $LAB^*LABa = 77.01 \ -15.16 \ -22.5$   
 $LAB^*TCHa = 75.0 \ 27.14 \ 236.02$   
**relative CIELAB lab\***  
 $lab^*lab = 0.762 \ -0.278 \ -0.414$   
 $lab^*tch = 0.75 \ 0.5 \ 0.656$   
 $lab^*nch = 0.0 \ 0.5 \ 0.656$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.762 \ -0.247 \ -0.433$   
 $lab^*tce = 0.75 \ 0.5 \ 0.667$   
 $lab^*nce = 0.0 \ 0.5 \ g66b$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.5 \ 0.5 \ 0.5 \ (1.0)$   
 $cmyn3^* = 0.5 \ 0.5 \ 0.5 \ (0.0)$   
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.5$   
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.5$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 56.71 \ -0.24 \ 2.14$   
 $LAB^*LABa = 56.71 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 50.0 \ 0.01 \ -$   
**relative CIELAB lab\***  
 $lab^*lab = 0.5 \ 0.0 \ 0.0$   
 $lab^*tch = 0.5 \ 0.0 \ -$   
 $lab^*nch = 0.5 \ 0.0 \ -$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.5 \ 0.0 \ 0.0$   
 $lab^*tce = 0.5 \ 0.0 \ -$   
 $lab^*nce = 0.5 \ 0.0 \ -$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.0 \ 0.5 \ 0.5 \ (1.0)$   
 $cmyn3^* = 1.0 \ 0.5 \ 0.5 \ (0.0)$   
 $olvi4^* = 0.5 \ 1.0 \ 1.0 \ 0.5$   
 $cmyn4^* = 0.5 \ 0.0 \ 0.0 \ 0.5$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 38.32 \ -15.05 \ -21.6$   
 $LAB^*LABa = 38.32 \ -15.16 \ -22.5$   
 $LAB^*TCHa = 25.01 \ 27.14 \ 236.02$   
**relative CIELAB lab\***  
 $lab^*lab = 0.262 \ -0.278 \ -0.414$   
 $lab^*tch = 0.25 \ 0.5 \ 0.656$   
 $lab^*nch = 0.5 \ 0.5 \ 0.656$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.262 \ -0.247 \ -0.433$   
 $lab^*tce = 0.25 \ 0.5 \ 0.667$   
 $lab^*nce = 0.5 \ 0.5 \ g66b$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.0 \ 1.0 \ 1.0 \ (1.0)$   
 $cmyn3^* = 1.0 \ 0.0 \ 0.0 \ (0.0)$   
 $olvi4^* = 0.0 \ 1.0 \ 1.0 \ 1.0$   
 $cmyn4^* = 1.0 \ 0.0 \ 0.0 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 58.62 \ -30.61 \ -42.73$   
 $LAB^*LABa = 58.62 \ -30.33 \ -45.01$   
 $LAB^*TCHa = 50.0 \ 54.29 \ 236.02$   
**relative CIELAB lab\***  
 $lab^*lab = 0.525 \ -0.558 \ -0.828$   
 $lab^*tch = 0.5 \ 1.0 \ 0.656$   
 $lab^*nch = 0.0 \ 1.0 \ 0.656$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.525 \ -0.496 \ -0.867$   
 $lab^*tce = 0.5 \ 1.0 \ 0.667$   
 $lab^*nce = 0.0 \ 1.0 \ g66b$



NE070-7, 3 step scales for constant CIELAB hue 210/360 = 0.583 (left)

3 step scales for constant CIELAB hue 236/360 = 0.656 (right)

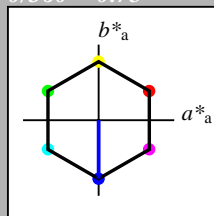
BAM-test chart NE07; Colorimetric systems SRS18 & ORS18  
 D65: 3 step colour scales and coordinate data for 10 hues

input:  $olv^* \ setrgbcolor$   
 output:  $olv^* \ setrgbcolor / w^* \ setgray$

Input: Colorimetric Standard Reflective System SRS18

for hue  $h^* = lab^*h = 270/360 = 0.75$   
 $lab^*tch$  and  $lab^*nch$

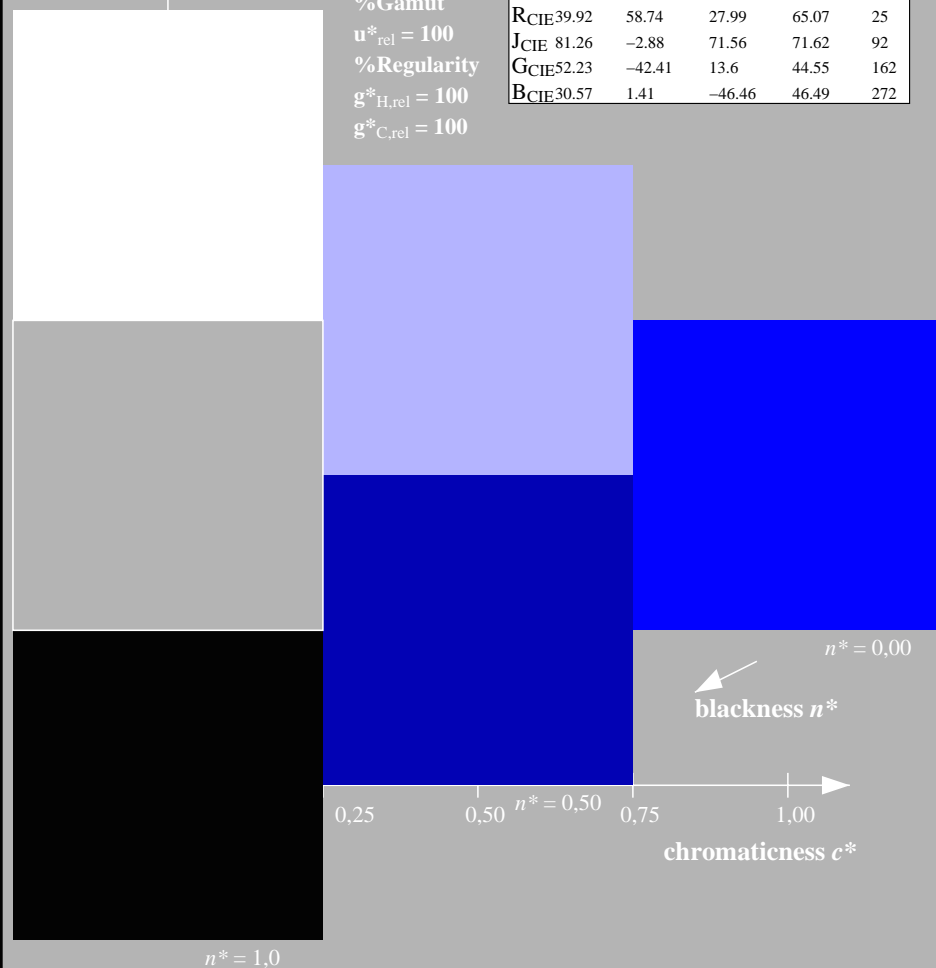
D65: hue V  
 LCH\*Ma: 57 77 270  
 olv\*Ma: 0.0 0.0 1.0  
 triangle lightness  $t^*$



**SRS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	56.71	67.03	38.7	77.4	30
YMa	56.71	0.0	77.4	77.4	90
LMa	56.71	-67.02	38.7	77.4	150
CMa	56.71	-67.02	-38.69	77.4	210
VMa	56.71	0.0	-77.39	77.4	270
MMa	56.71	67.03	-38.69	77.4	330
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

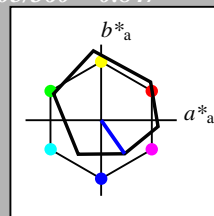
%Gamut  
 $u^*_{rel} = 100$   
 %Regularity  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$



Output: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 305/360 = 0.847$   
 $lab^*tch$  and  $lab^*nch$

D65: hue V  
 LCH\*Ma: 26 54 305  
 olv\*Ma: 0.0 0.0 1.0  
 triangle lightness  $t^*$



**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271

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

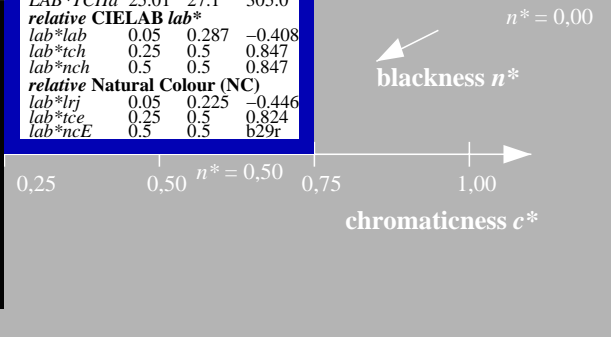
**relative Inform. Technology (IT)**  
 $olvi3^* = 1.0 \ 1.0 \ 1.0 \ (1.0)$   
 $cmyn3^* = 0.0 \ 0.0 \ 0.0 \ (0.0)$   
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 1.0$   
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 95.41 \ -0.98 \ 4.75$   
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 99.99 \ 0.01 \ -$   
**relative CIELAB lab\***  
 $lab^*lab = 1.0 \ 0.0 \ 0.0$   
 $lab^*tch = 1.0 \ 0.0 \ -$   
 $lab^*nch = 0.0 \ 0.0 \ -$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 1.0 \ 0.0 \ 0.0$   
 $lab^*tce = 1.0 \ 0.0 \ -$   
 $lab^*nce = 0.0 \ 0.0 \ -$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.5 \ 0.5 \ 1.0 \ (1.0)$   
 $cmyn3^* = 0.5 \ 0.5 \ 0.0 \ (0.0)$   
 $olvi4^* = 0.5 \ 0.5 \ 1.0 \ 1.0$   
 $cmyn4^* = 0.5 \ 0.5 \ 0.0 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 60.56 \ 15.23 \ -19.79$   
 $LAB^*LABa = 60.56 \ 15.55 \ -22.19$   
 $LAB^*TCHa = 75.0 \ 27.1 \ 305.0$   
**relative CIELAB lab\***  
 $lab^*lab = 0.55 \ 0.287 \ -0.408$   
 $lab^*tch = 0.75 \ 0.5 \ 0.847$   
 $lab^*nch = 0.0 \ 0.5 \ 0.847$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.55 \ 0.225 \ -0.446$   
 $lab^*tce = 0.75 \ 0.5 \ 0.824$   
 $lab^*nce = 0.0 \ 0.5 \ b29r$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.5 \ 0.5 \ 0.5 \ (1.0)$   
 $cmyn3^* = 0.5 \ 0.5 \ 0.5 \ (0.0)$   
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.5$   
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.5$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 56.71 \ -0.24 \ 2.14$   
 $LAB^*LABa = 56.71 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 50.0 \ 0.01 \ -$   
**relative CIELAB lab\***  
 $lab^*lab = 0.5 \ 0.0 \ 0.0$   
 $lab^*tch = 0.5 \ 0.0 \ -$   
 $lab^*nch = 0.5 \ 0.0 \ -$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.5 \ 0.0 \ 0.0$   
 $lab^*tce = 0.5 \ 0.0 \ -$   
 $lab^*nce = 0.5 \ 0.0 \ -$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.0 \ 0.0 \ 0.5 \ (1.0)$   
 $cmyn3^* = 1.0 \ 1.0 \ 0.5 \ (0.0)$   
 $olvi4^* = 0.5 \ 0.5 \ 1.0 \ 0.5$   
 $cmyn4^* = 0.5 \ 0.5 \ 0.0 \ 0.5$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 21.87 \ 15.97 \ -22.4$   
 $LAB^*LABa = 21.87 \ 15.55 \ -22.19$   
 $LAB^*TCHa = 25.01 \ 27.1 \ 305.0$   
**relative CIELAB lab\***  
 $lab^*lab = 0.05 \ 0.287 \ -0.408$   
 $lab^*tch = 0.25 \ 0.5 \ 0.847$   
 $lab^*nch = 0.5 \ 0.5 \ 0.847$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.05 \ 0.225 \ -0.446$   
 $lab^*tce = 0.25 \ 0.5 \ 0.824$   
 $lab^*nce = 0.5 \ 0.5 \ b29r$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.0 \ 0.0 \ 1.0 \ (1.0)$   
 $cmyn3^* = 1.0 \ 1.0 \ 0.0 \ (0.0)$   
 $olvi4^* = 0.0 \ 0.0 \ 1.0 \ 1.0$   
 $cmyn4^* = 1.0 \ 1.0 \ 0.0 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 25.73 \ 31.44 \ -44.34$   
 $LAB^*LABa = 25.73 \ 31.09 \ -44.39$   
 $LAB^*TCHa = 50.0 \ 54.21 \ 305.0$   
**relative CIELAB lab\***  
 $lab^*lab = 0.1 \ 0.573 \ -0.818$   
 $lab^*tch = 0.5 \ 1.0 \ 0.847$   
 $lab^*nch = 0.0 \ 1.0 \ 0.847$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.1 \ 0.449 \ -0.892$   
 $lab^*tce = 0.5 \ 1.0 \ 0.824$   
 $lab^*nce = 0.0 \ 1.0 \ b29r$



NE070-7, 3 step scales for constant CIELAB hue 270/360 = 0.75 (left)

3 step scales for constant CIELAB hue 305/360 = 0.847 (right)

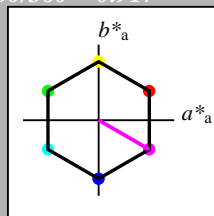
BAM-test chart NE07; Colorimetric systems SRS18 & ORS18  
 D65: 3 step colour scales and coordinate data for 10 hues

input:  $olv^* \ setrgbcolor$   
 output:  $olv^* \ setrgbcolor / w^* \ setgray$

Input: Colorimetric Standard Reflective System SRS18

for hue  $h^* = lab^*h = 330/360 = 0.917$   
 $lab^*tch$  and  $lab^*nch$

D65: hue M  
 LCH\*Ma: 57 77 330  
 olv\*Ma: 1.0 0.0 1.0  
 triangle lightness  $t^*$



**SRS18; adapted (a) CIELAB data**

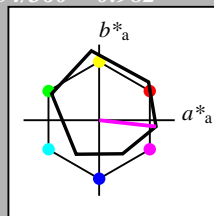
	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	56.71	67.03	38.7	77.4	30
YMa	56.71	0.0	77.4	77.4	90
LMa	56.71	-67.02	38.7	77.4	150
CMa	56.71	-67.02	-38.69	77.4	210
VMa	56.71	0.0	-77.39	77.4	270
MMa	56.71	67.03	-38.69	77.4	330
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

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

Output: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 354/360 = 0.982$   
 $lab^*tch$  and  $lab^*nch$

D65: hue M  
 LCH\*Ma: 48 76 354  
 olv\*Ma: 1.0 0.0 1.0  
 triangle lightness  $t^*$



**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271

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

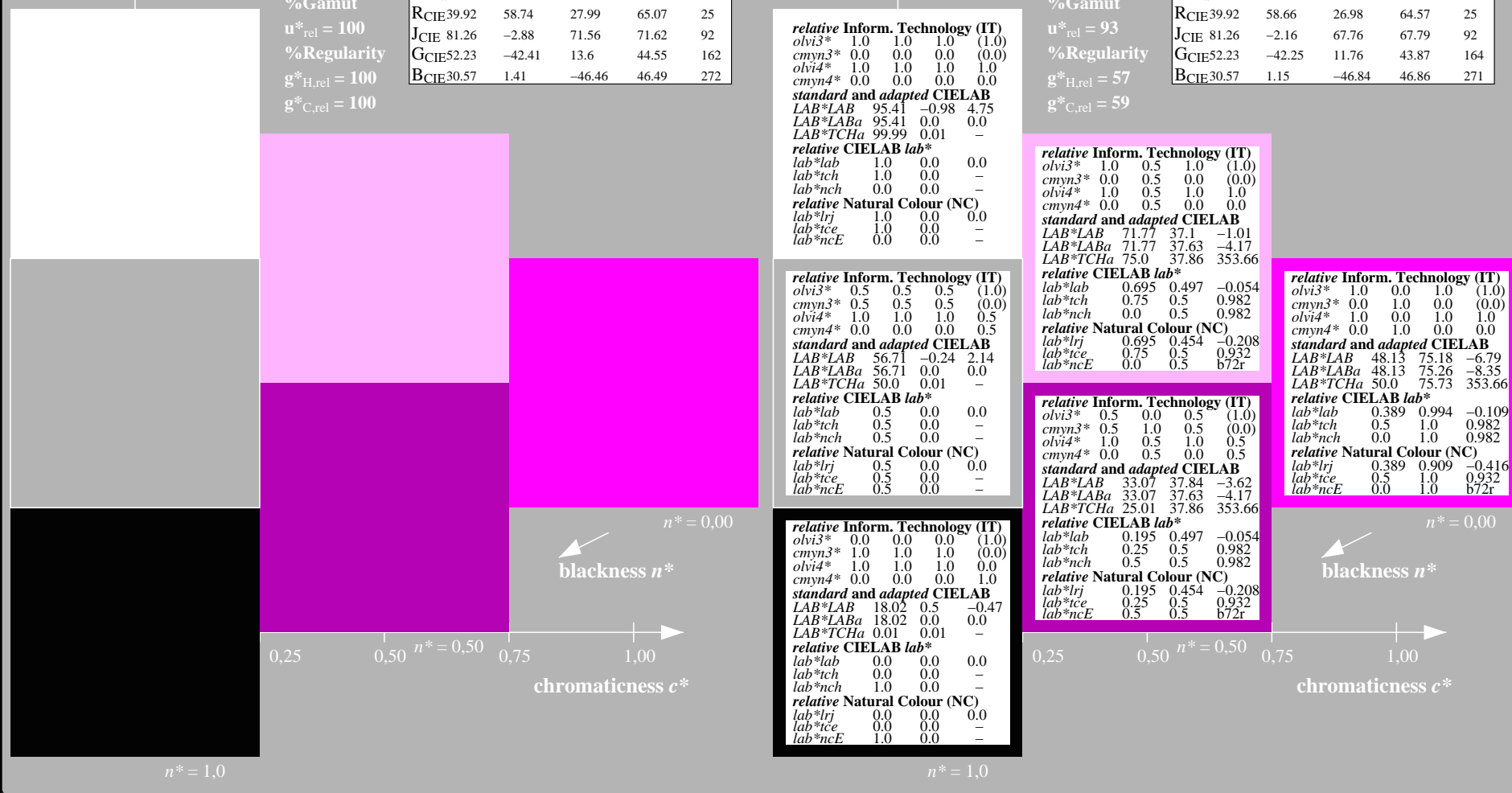
**relative Inform. Technology (IT)**  
 $olvi3^* = 1.0 \ 1.0 \ 1.0 \ (1.0)$   
 $cmyn3^* = 0.0 \ 0.0 \ 0.0 \ (0.0)$   
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 1.0$   
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 95.41 \ -0.98 \ 4.75$   
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 99.99 \ 0.01 \ -$   
**relative CIELAB lab\***  
 $lab^*lab = 1.0 \ 0.0 \ 0.0$   
 $lab^*tch = 1.0 \ 0.0 \ -$   
 $lab^*nch = 0.0 \ 0.0 \ -$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 1.0 \ 0.0 \ 0.0$   
 $lab^*tce = 1.0 \ 0.0 \ -$   
 $lab^*nce = 0.0 \ 0.0 \ -$

**relative Inform. Technology (IT)**  
 $olvi3^* = 1.0 \ 0.5 \ 1.0 \ (1.0)$   
 $cmyn3^* = 0.0 \ 0.5 \ 0.0 \ (0.0)$   
 $olvi4^* = 1.0 \ 0.5 \ 1.0 \ 1.0$   
 $cmyn4^* = 0.0 \ 0.5 \ 0.0 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 71.77 \ 37.1 \ -1.01$   
 $LAB^*LABa = 71.77 \ 37.63 \ -4.17$   
 $LAB^*TCHa = 75.0 \ 37.86 \ 353.66$   
**relative CIELAB lab\***  
 $lab^*lab = 0.695 \ 0.497 \ -0.054$   
 $lab^*tch = 0.75 \ 0.5 \ 0.982$   
 $lab^*nch = 0.0 \ 0.5 \ 0.982$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.695 \ 0.454 \ -0.208$   
 $lab^*tce = 0.75 \ 0.5 \ 0.932$   
 $lab^*nce = 0.0 \ 0.5 \ b72r$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.5 \ 0.5 \ 0.5 \ (1.0)$   
 $cmyn3^* = 0.5 \ 0.5 \ 0.5 \ (0.0)$   
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.5$   
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.5$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 56.71 \ -0.24 \ 2.14$   
 $LAB^*LABa = 56.71 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 50.0 \ 0.01 \ -$   
**relative CIELAB lab\***  
 $lab^*lab = 0.5 \ 0.0 \ 0.0$   
 $lab^*tch = 0.5 \ 0.0 \ -$   
 $lab^*nch = 0.5 \ 0.0 \ -$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.5 \ 0.0 \ 0.0$   
 $lab^*tce = 0.5 \ 0.0 \ -$   
 $lab^*nce = 0.5 \ 0.0 \ -$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.5 \ 0.0 \ 0.5 \ (1.0)$   
 $cmyn3^* = 0.5 \ 1.0 \ 0.5 \ (0.0)$   
 $olvi4^* = 1.0 \ 0.5 \ 1.0 \ 0.5$   
 $cmyn4^* = 0.0 \ 0.5 \ 0.0 \ 0.5$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 33.07 \ 37.84 \ -3.62$   
 $LAB^*LABa = 33.07 \ 37.63 \ -4.17$   
 $LAB^*TCHa = 25.01 \ 37.86 \ 353.66$   
**relative CIELAB lab\***  
 $lab^*lab = 0.195 \ 0.497 \ -0.054$   
 $lab^*tch = 0.25 \ 0.5 \ 0.982$   
 $lab^*nch = 0.5 \ 0.5 \ 0.982$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.195 \ 0.454 \ -0.208$   
 $lab^*tce = 0.25 \ 0.5 \ 0.932$   
 $lab^*nce = 0.5 \ 0.5 \ b72r$

**relative Inform. Technology (IT)**  
 $olvi3^* = 1.0 \ 0.0 \ 1.0 \ (1.0)$   
 $cmyn3^* = 0.0 \ 1.0 \ 0.0 \ (0.0)$   
 $olvi4^* = 1.0 \ 0.0 \ 1.0 \ 1.0$   
 $cmyn4^* = 0.0 \ 1.0 \ 0.0 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 48.13 \ 75.18 \ -6.79$   
 $LAB^*LABa = 48.13 \ 75.26 \ -8.35$   
 $LAB^*TCHa = 50.0 \ 75.73 \ 353.66$   
**relative CIELAB lab\***  
 $lab^*lab = 0.389 \ 0.994 \ -0.109$   
 $lab^*tch = 0.5 \ 1.0 \ 0.982$   
 $lab^*nch = 0.0 \ 1.0 \ 0.982$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.389 \ 0.909 \ -0.416$   
 $lab^*tce = 0.5 \ 1.0 \ 0.932$   
 $lab^*nce = 0.0 \ 1.0 \ b72r$



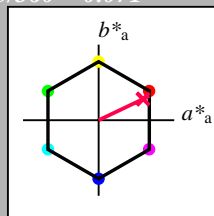
NE070-7, 3 step scales for constant CIELAB hue 330/360 = 0.917 (left)

3 step scales for constant CIELAB hue 354/360 = 0.982 (right)

**Input: Colorimetric Standard Reflective System SRS18**

for hue  $h^* = lab^*h = 25/360 = 0.071$   
 $lab^*tch$  and  $lab^*nch$

D65: hue R  
 LCH\*Ma: 57 74 25  
 olv\*Ma: 1.0 0.0 0.09  
 triangle lightness  $t^*$



**SRS18; adapted (a) CIELAB data**

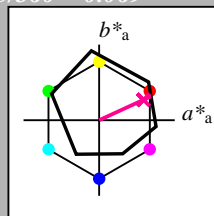
	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	56.71	67.03	38.7	77.4	30
YMa	56.71	0.0	77.4	77.4	90
LMa	56.71	-67.02	38.7	77.4	150
CMa	56.71	-67.02	-38.69	77.4	210
VMa	56.71	0.0	-77.39	77.4	270
MMa	56.71	67.03	-38.69	77.4	330
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

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

**Output: Colorimetric Offset Reflective System ORS18**

for hue  $h^* = lab^*h = 25/360 = 0.069$   
 $lab^*tch$  and  $lab^*nch$

D65: hue R  
 LCH\*Ma: 48 75 25  
 olv\*Ma: 1.0 0.0 0.32  
 triangle lightness  $t^*$



**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271

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

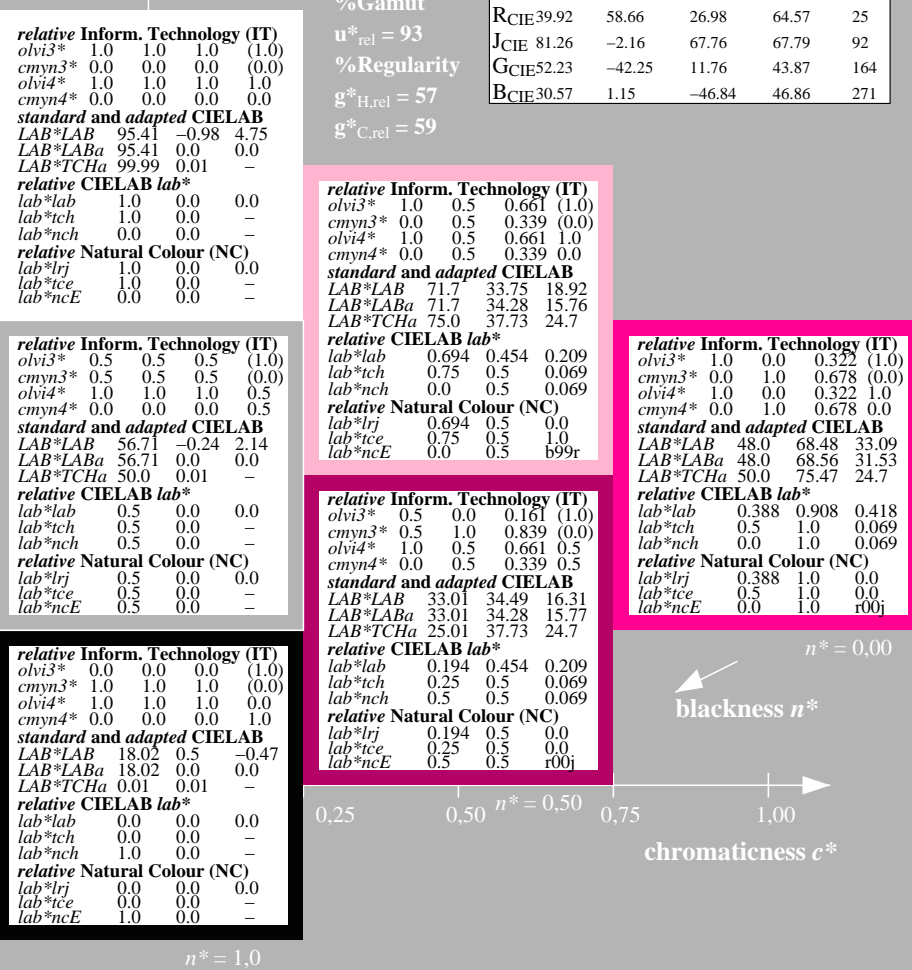
**relative Inform. Technology (IT)**  
 $olvi3^* = 1.0 \ 1.0 \ 1.0 \ (1.0)$   
 $cmyn3^* = 0.0 \ 0.0 \ 0.0 \ (0.0)$   
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 1.0$   
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 95.41 \ -0.98 \ 4.75$   
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 99.99 \ 0.01 \ -$   
**relative CIELAB lab\***  
 $lab^*lab = 1.0 \ 0.0 \ 0.0$   
 $lab^*tch = 1.0 \ 0.0 \ -$   
 $lab^*nch = 0.0 \ 0.0 \ -$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 1.0 \ 0.0 \ 0.0$   
 $lab^*tce = 1.0 \ 0.0 \ -$   
 $lab^*nce = 0.0 \ 0.0 \ -$

**relative Inform. Technology (IT)**  
 $olvi3^* = 1.0 \ 0.5 \ 0.661 \ (1.0)$   
 $cmyn3^* = 0.0 \ 0.5 \ 0.339 \ (0.0)$   
 $olvi4^* = 1.0 \ 0.5 \ 0.661 \ 1.0$   
 $cmyn4^* = 0.0 \ 0.5 \ 0.339 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 71.7 \ 33.75 \ 18.92$   
 $LAB^*LABa = 71.7 \ 34.28 \ 15.76$   
 $LAB^*TCHa = 75.0 \ 37.73 \ 24.7$   
**relative CIELAB lab\***  
 $lab^*lab = 0.694 \ 0.454 \ 0.209$   
 $lab^*tch = 0.75 \ 0.5 \ 0.069$   
 $lab^*nch = 0.0 \ 0.5 \ 0.069$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.694 \ 0.5 \ 0.0$   
 $lab^*tce = 0.75 \ 0.5 \ 1.0$   
 $lab^*nce = 0.0 \ 0.5 \ b99r$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.5 \ 0.5 \ 0.5 \ (1.0)$   
 $cmyn3^* = 0.5 \ 0.5 \ 0.5 \ (0.0)$   
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.5$   
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.5$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 56.71 \ -0.24 \ 2.14$   
 $LAB^*LABa = 56.71 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 50.0 \ 0.01 \ -$   
**relative CIELAB lab\***  
 $lab^*lab = 0.5 \ 0.0 \ 0.0$   
 $lab^*tch = 0.5 \ 0.0 \ -$   
 $lab^*nch = 0.5 \ 0.0 \ -$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.5 \ 0.0 \ 0.0$   
 $lab^*tce = 0.5 \ 0.0 \ -$   
 $lab^*nce = 0.5 \ 0.0 \ -$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.5 \ 0.0 \ 0.161 \ (1.0)$   
 $cmyn3^* = 0.5 \ 1.0 \ 0.839 \ (0.0)$   
 $olvi4^* = 1.0 \ 0.5 \ 0.661 \ 0.5$   
 $cmyn4^* = 0.0 \ 0.5 \ 0.339 \ 0.5$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 33.01 \ 34.49 \ 16.31$   
 $LAB^*LABa = 33.01 \ 34.28 \ 15.77$   
 $LAB^*TCHa = 25.01 \ 37.73 \ 24.7$   
**relative CIELAB lab\***  
 $lab^*lab = 0.194 \ 0.454 \ 0.209$   
 $lab^*tch = 0.25 \ 0.5 \ 0.069$   
 $lab^*nch = 0.5 \ 0.5 \ 0.069$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.194 \ 0.5 \ 0.0$   
 $lab^*tce = 0.25 \ 0.5 \ 0.0$   
 $lab^*nce = 0.5 \ 0.5 \ r00j$

**relative Inform. Technology (IT)**  
 $olvi3^* = 1.0 \ 0.0 \ 0.322 \ (1.0)$   
 $cmyn3^* = 0.0 \ 1.0 \ 0.678 \ (0.0)$   
 $olvi4^* = 1.0 \ 0.0 \ 0.322 \ 1.0$   
 $cmyn4^* = 0.0 \ 1.0 \ 0.678 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 48.0 \ 68.48 \ 33.09$   
 $LAB^*LABa = 48.0 \ 68.56 \ 31.53$   
 $LAB^*TCHa = 50.0 \ 75.47 \ 24.7$   
**relative CIELAB lab\***  
 $lab^*lab = 0.388 \ 0.908 \ 0.418$   
 $lab^*tch = 0.5 \ 1.0 \ 0.069$   
 $lab^*nch = 0.0 \ 1.0 \ 0.069$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.388 \ 1.0 \ 0.0$   
 $lab^*tce = 0.5 \ 1.0 \ 0.0$   
 $lab^*nce = 0.0 \ 1.0 \ r00j$



NE070-7, 3 step scales for constant CIELAB hue 25/360 = 0.071 (left)

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

BAM-test chart NE07; Colorimetric systems SRS18 & ORS18  
 D65: 3 step colour scales and coordinate data for 10 hues

input:  $olv^* \ setrgbcolor$   
 output:  $olv^* \ setrgbcolor / w^* \ setgray$

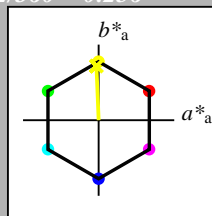
See for similar files: <http://www.ps.bam.de/NE07/>  
 Technical information: <http://www.ps.bam.de>  
 Version 2.1, io=1,1, CIELAB

BAM registration: 20060101-NE07/10Q/Q07E06FP.PS/.PDF BAM material: code=rh4ta  
 application for evaluation and measurement of printer or monitor systems  
 /NE07/ Form: 7/10, Serie: 1/1, Page: 7 Page count: 7

Input: Colorimetric Standard Reflective System SRS18

for hue  $h^* = lab^*h = 92/360 = 0.256$   
 $lab^*tch$  and  $lab^*nch$

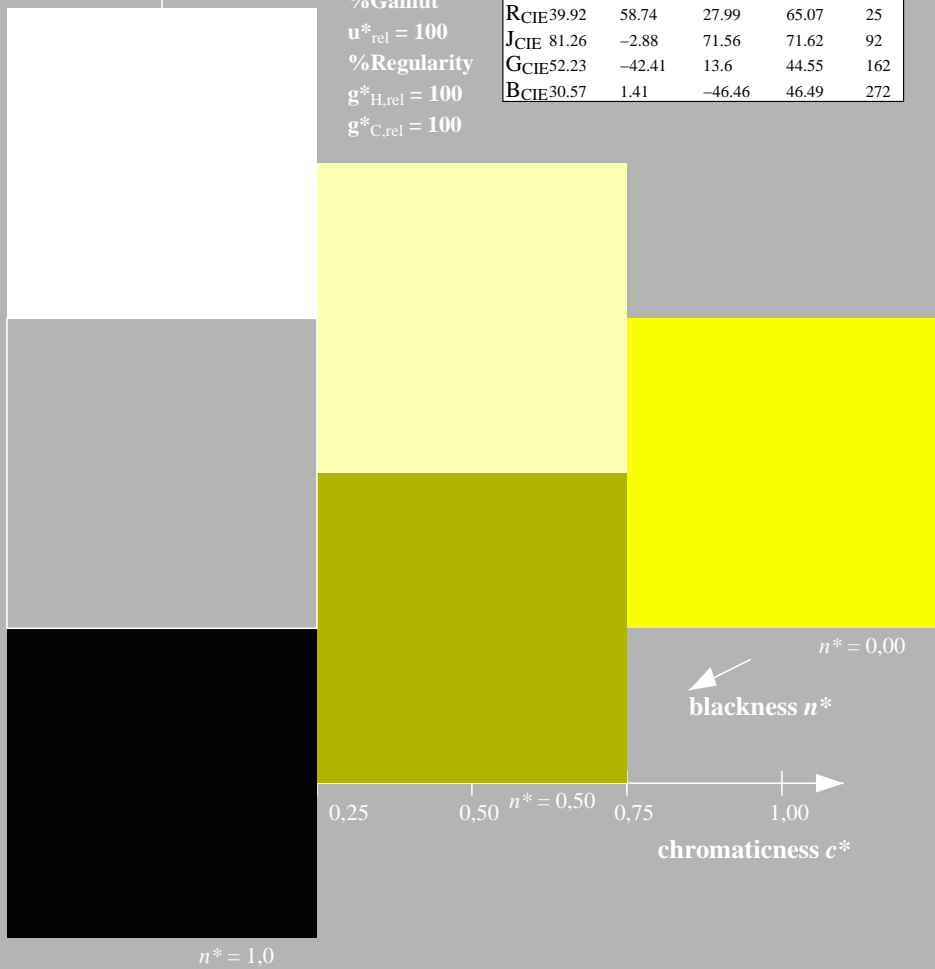
D65: hue J  
 LCH\*Ma: 57 76 92  
 olv\*Ma: 0.95 1.0 0.0  
 triangle lightness  $t^*$



**SRS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	56.71	67.03	38.7	77.4	30
YMa	56.71	0.0	77.4	77.4	90
LMa	56.71	-67.02	38.7	77.4	150
CMa	56.71	-67.02	-38.69	77.4	210
VMa	56.71	0.0	-77.39	77.4	270
MMa	56.71	67.03	-38.69	77.4	330
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

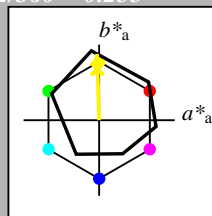
%Gamut  
 $u^*_{rel} = 100$   
 %Regularity  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$



Output: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 92/360 = 0.255$   
 $lab^*tch$  and  $lab^*nch$

D65: hue J  
 LCH\*Ma: 86 88 92  
 olv\*Ma: 1.0 0.9 0.0  
 triangle lightness  $t^*$



**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271

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

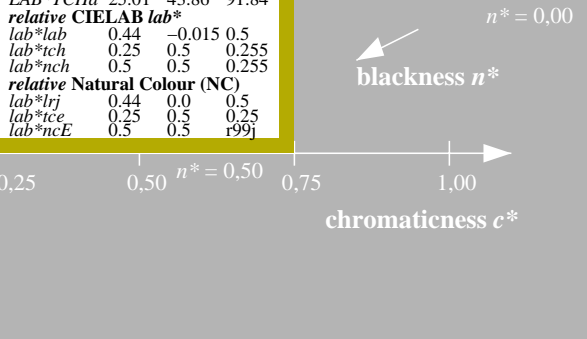
**relative Inform. Technology (IT)**  
 $olvi3^* = 1.0 \ 1.0 \ 1.0 \ (1.0)$   
 $cmyn3^* = 0.0 \ 0.0 \ 0.0 \ (0.0)$   
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 1.0$   
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 95.41 \ -0.98 \ 4.75$   
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 99.99 \ 0.01 \ -$   
**relative CIELAB lab\***  
 $lab^*lab = 1.0 \ 0.0 \ 0.0$   
 $lab^*tch = 1.0 \ 0.0 \ -$   
 $lab^*nch = 0.0 \ 0.0 \ -$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 1.0 \ 0.0 \ 0.0$   
 $lab^*tce = 1.0 \ 0.0 \ -$   
 $lab^*nce = 0.0 \ 0.0 \ -$

**relative Inform. Technology (IT)**  
 $olvi3^* = 1.0 \ 0.951 \ 0.5 \ (1.0)$   
 $cmyn3^* = 0.0 \ 0.049 \ 0.5 \ (0.0)$   
 $olvi4^* = 1.0 \ 0.951 \ 0.5 \ 1.0$   
 $cmyn4^* = 0.0 \ 0.049 \ 0.5 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 90.8 \ -2.3 \ 48.29$   
 $LAB^*LABa = 90.8 \ -1.4 \ 43.84$   
 $LAB^*TCHa = 75.0 \ 43.86 \ 91.85$   
**relative CIELAB lab\***  
 $lab^*lab = 0.94 \ -0.015 \ 0.5$   
 $lab^*tch = 0.75 \ 0.5 \ 0.255$   
 $lab^*nch = 0.0 \ 0.5 \ 0.255$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.94 \ 0.0 \ 0.5$   
 $lab^*tce = 0.75 \ 0.5 \ 0.25$   
 $lab^*nce = 0.0 \ 0.5 \ j00g$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.5 \ 0.5 \ 0.5 \ (1.0)$   
 $cmyn3^* = 0.5 \ 0.5 \ 0.5 \ (0.0)$   
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.5$   
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.5$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 56.71 \ -0.24 \ 2.14$   
 $LAB^*LABa = 56.71 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 50.0 \ 0.01 \ -$   
**relative CIELAB lab\***  
 $lab^*lab = 0.5 \ 0.0 \ 0.0$   
 $lab^*tch = 0.5 \ 0.0 \ -$   
 $lab^*nch = 0.5 \ 0.0 \ -$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.5 \ 0.0 \ 0.0$   
 $lab^*tce = 0.5 \ 0.0 \ -$   
 $lab^*nce = 0.5 \ 0.0 \ -$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.5 \ 0.451 \ 0.0 \ (1.0)$   
 $cmyn3^* = 0.5 \ 0.549 \ 1.0 \ (0.0)$   
 $olvi4^* = 1.0 \ 0.951 \ 0.5 \ 0.5$   
 $cmyn4^* = 0.0 \ 0.049 \ 0.5 \ 0.5$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 52.1 \ -1.55 \ 45.67$   
 $LAB^*LABa = 52.1 \ -1.39 \ 43.83$   
 $LAB^*TCHa = 25.01 \ 43.86 \ 91.84$   
**relative CIELAB lab\***  
 $lab^*lab = 0.44 \ -0.015 \ 0.5$   
 $lab^*tch = 0.25 \ 0.5 \ 0.255$   
 $lab^*nch = 0.5 \ 0.5 \ 0.255$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.44 \ 0.0 \ 0.5$   
 $lab^*tce = 0.25 \ 0.5 \ 0.25$   
 $lab^*nce = 0.5 \ 0.5 \ j99j$

**relative Inform. Technology (IT)**  
 $olvi3^* = 1.0 \ 0.901 \ 1.0 \ (1.0)$   
 $cmyn3^* = 0.0 \ 0.099 \ 1.0 \ (0.0)$   
 $olvi4^* = 1.0 \ 0.902 \ 0.0 \ 1.0$   
 $cmyn4^* = 0.0 \ 0.098 \ 1.0 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 86.19 \ -3.62 \ 91.81$   
 $LAB^*LABa = 86.19 \ -2.81 \ 87.67$   
 $LAB^*TCHa = 50.0 \ 87.72 \ 91.84$   
**relative CIELAB lab\***  
 $lab^*lab = 0.881 \ -0.031 \ 0.999$   
 $lab^*tch = 0.5 \ 1.0 \ 0.255$   
 $lab^*nch = 0.0 \ 1.0 \ 0.255$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.881 \ 0.0 \ 1.0$   
 $lab^*tce = 0.5 \ 1.0 \ 0.25$   
 $lab^*nce = 0.0 \ 1.0 \ j00g$



NE070-7, 3 step scales for constant CIELAB hue 92/360 = 0.256 (left)

3 step scales for constant CIELAB hue 92/360 = 0.255 (right)

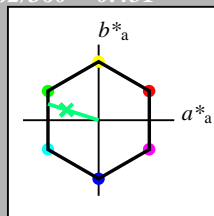


Input: Colorimetric Standard Reflective System SRS18

for hue  $h^* = lab^*h = 162/360 = 0.451$   
 $lab^*tch$  and  $lab^*nch$

D65: hue G  
 LCH\*Ma: 57 70 162  
 olv\*Ma: 0.0 1.0 0.22

triangle lightness  $t^*$



**SRS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	56.71	67.03	38.7	77.4	30
YMa	56.71	0.0	77.4	77.4	90
LMa	56.71	-67.02	38.7	77.4	150
CMa	56.71	-67.02	-38.69	77.4	210
VMa	56.71	0.0	-77.39	77.4	270
MMa	56.71	67.03	-38.69	77.4	330
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

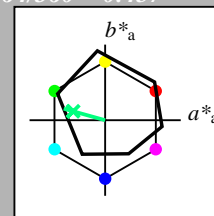
%Gamut  
 $u^*_{rel} = 100$   
 %Regularity  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$

Output: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 164/360 = 0.457$   
 $lab^*tch$  and  $lab^*nch$

D65: hue G  
 LCH\*Ma: 53 57 164  
 olv\*Ma: 0.0 1.0 0.25

triangle lightness  $t^*$



**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271

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

**relative Inform. Technology (IT)**

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0
cmyn4*	0.0	0.0	0.0	0.0

**standard and adapted CIELAB**

LAB*LAB	95.41	-0.98	4.75
LAB*LABa	95.41	0.0	0.0
LAB*TCHa	99.99	0.01	-

**relative CIELAB lab\***

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	-

**relative Natural Colour (NC)**

lab*lrj	1.0	0.0	0.0
lab*tce	1.0	0.0	-
lab*nce	0.0	0.0	-

**relative Inform. Technology (IT)**

olvi3*	0.5	1.0	0.623	(1.0)
cmyn3*	0.5	0.0	0.377	(0.0)
olvi4*	0.5	1.0	0.623	1.0
cmyn4*	0.5	0.0	0.377	0.0

**standard and adapted CIELAB**

LAB*LAB	74.1	-27.98	10.94
LAB*LABa	74.1	-27.4	7.62
LAB*TCHa	75.0	28.45	164.46

**relative CIELAB lab\***

lab*lab	0.725	-0.481	0.134
lab*tch	0.75	0.5	0.457
lab*nch	0.0	0.5	0.457

**relative Natural Colour (NC)**

lab*lrj	0.725	-0.499	0.0
lab*tce	0.75	0.5	0.5
lab*nce	0.0	0.5	g00b

**relative Inform. Technology (IT)**

olvi3*	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	0.5
cmyn4*	0.0	0.0	0.0	0.5

**standard and adapted CIELAB**

LAB*LAB	56.71	-0.24	2.14
LAB*LABa	56.71	0.0	0.0
LAB*TCHa	50.0	0.01	-

**relative CIELAB lab\***

lab*lab	0.5	0.0	0.0
lab*tch	0.5	0.0	-
lab*nch	0.5	0.0	-

**relative Natural Colour (NC)**

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	0.0	-

**relative Inform. Technology (IT)**

olvi3*	0.0	0.5	0.123	(1.0)
cmyn3*	1.0	0.5	0.877	(0.0)
olvi4*	0.5	1.0	0.623	0.5
cmyn4*	0.5	0.0	0.377	0.5

**standard and adapted CIELAB**

LAB*LAB	35.41	-27.24	8.34
LAB*LABa	35.41	-27.4	7.63
LAB*TCHa	25.01	28.46	164.44

**relative CIELAB lab\***

lab*lab	0.225	-0.481	0.134
lab*tch	0.25	0.5	0.457
lab*nch	0.5	0.5	0.457

**relative Natural Colour (NC)**

lab*lrj	0.225	-0.499	0.0
lab*tce	0.25	0.5	0.5
lab*nce	0.5	0.5	g99g

**relative Inform. Technology (IT)**

olvi3*	0.0	1.0	0.246	(1.0)
cmyn3*	1.0	0.0	0.754	(0.0)
olvi4*	0.0	1.0	0.246	1.0
cmyn4*	1.0	0.0	0.754	0.0

**standard and adapted CIELAB**

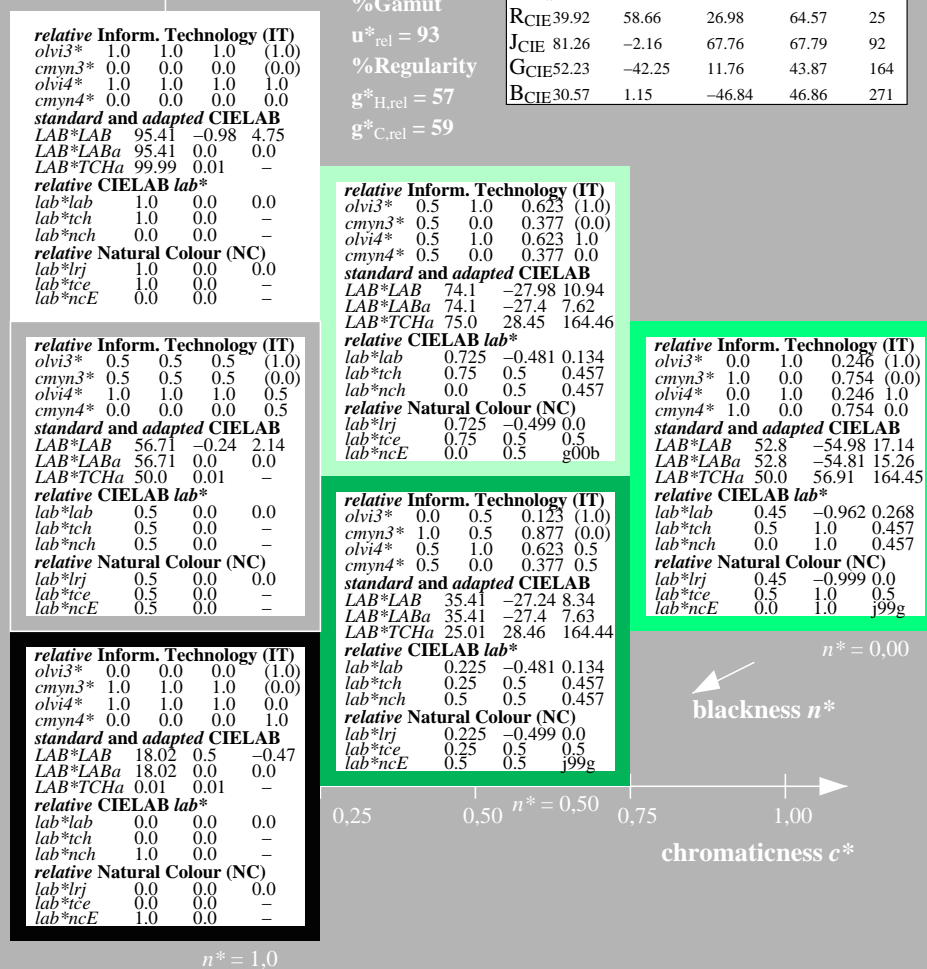
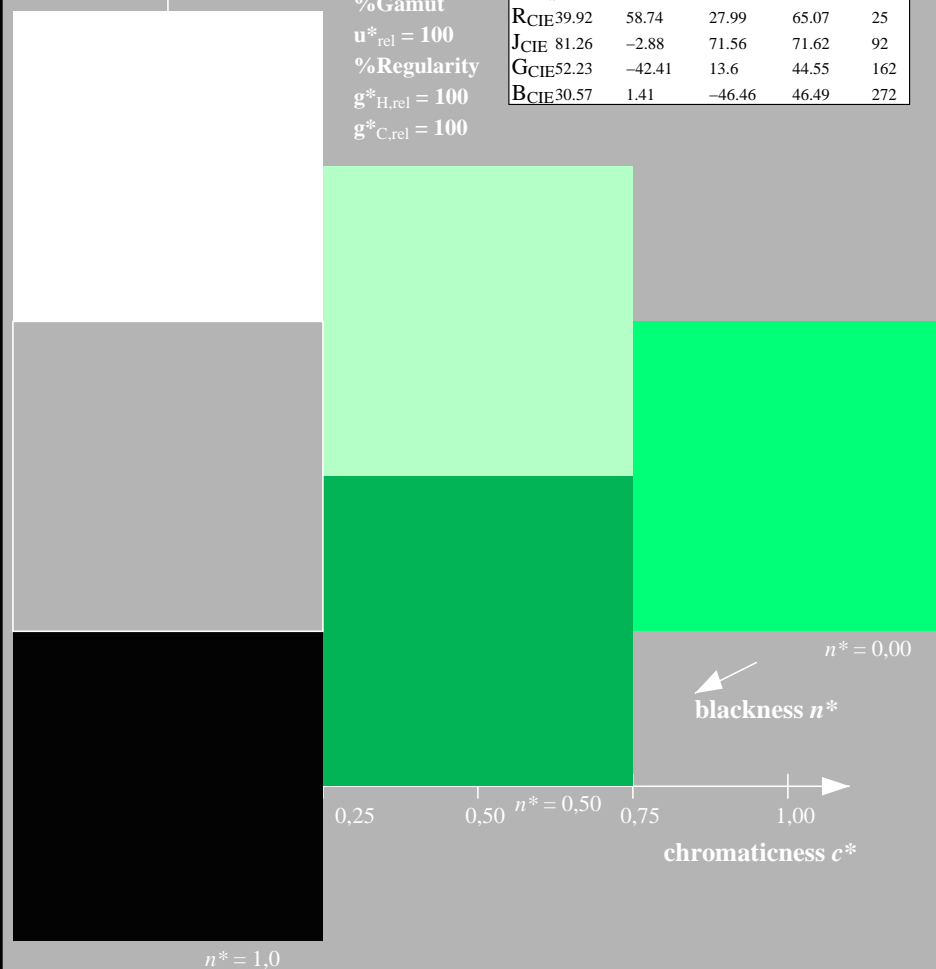
LAB*LAB	52.8	-54.98	17.14
LAB*LABa	52.8	-54.81	15.26
LAB*TCHa	50.0	56.91	164.45

**relative CIELAB lab\***

lab*lab	0.45	-0.962	0.268
lab*tch	0.5	1.0	0.457
lab*nch	0.0	1.0	0.457

**relative Natural Colour (NC)**

lab*lrj	0.45	-0.999	0.0
lab*tce	0.5	1.0	0.5
lab*nce	0.0	1.0	g99g



NE070-7, 3 step scales for constant CIELAB hue 162/360 = 0.451 (left)

3 step scales for constant CIELAB hue 164/360 = 0.457 (right)

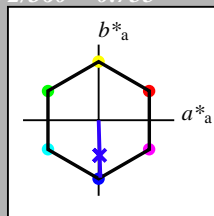
BAM-test chart NE07; Colorimetric systems SRS18 & ORS18  
 D65: 3 step colour scales and coordinate data for 10 hues

input:  $olv^* setrgbcolor$   
 output:  $olv^* setrgbcolor / w^* setgray$

Input: Colorimetric Standard Reflective System SRS18

for hue  $h^* = lab^*h = 272/360 = 0.755$   
 $lab^*tch$  and  $lab^*nch$

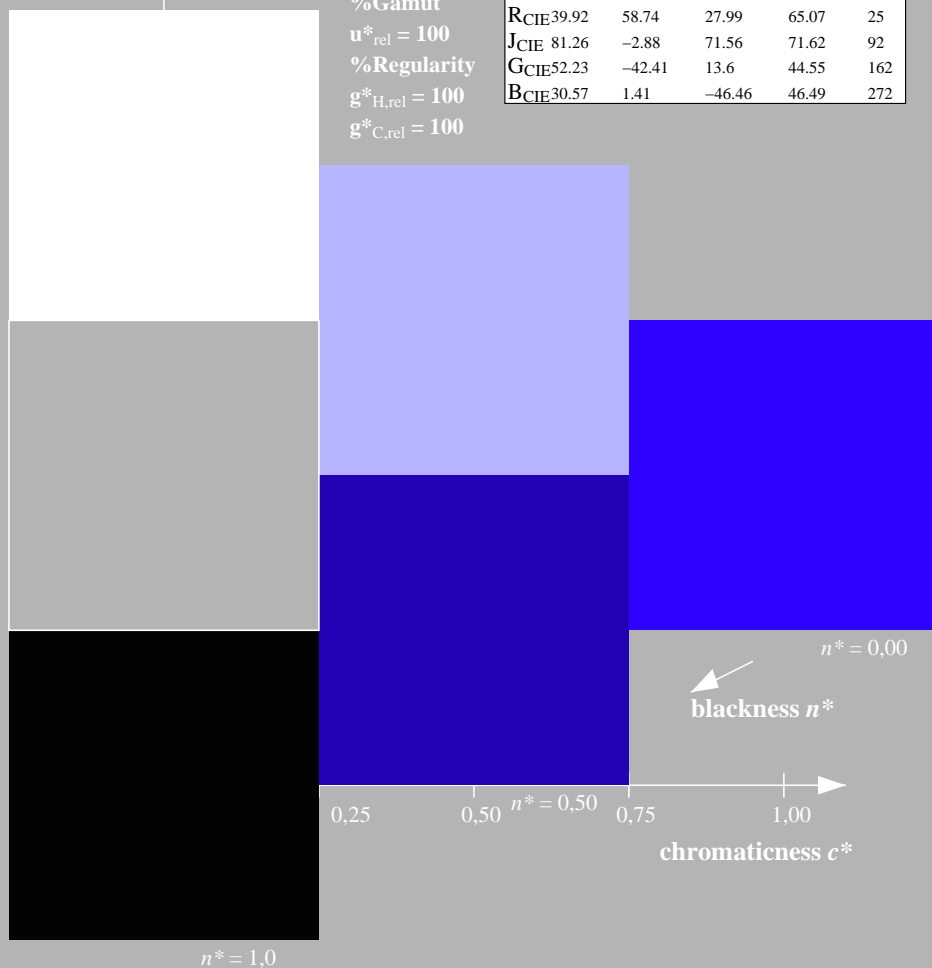
D65: hue B  
 LCH\*Ma: 57 76 272  
 olv\*Ma: 0.03 0.0 1.0  
 triangle lightness  $t^*$



**SRS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	56.71	67.03	38.7	77.4	30
YMa	56.71	0.0	77.4	77.4	90
LMa	56.71	-67.02	38.7	77.4	150
CMa	56.71	-67.02	-38.69	77.4	210
VMa	56.71	0.0	-77.39	77.4	270
MMa	56.71	67.03	-38.69	77.4	330
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

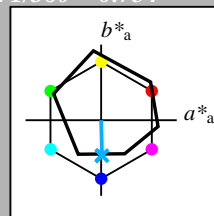
%Gamut  
 $u^*_{rel} = 100$   
 %Regularity  
 $g^*_{H,rel} = 100$   
 $g^*_{C,rel} = 100$



Output: Colorimetric Offset Reflective System ORS18

for hue  $h^* = lab^*h = 271/360 = 0.754$   
 $lab^*tch$  and  $lab^*nch$

D65: hue B  
 LCH\*Ma: 42 45 271  
 olv\*Ma: 0.0 0.49 1.0  
 triangle lightness  $t^*$



**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271

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

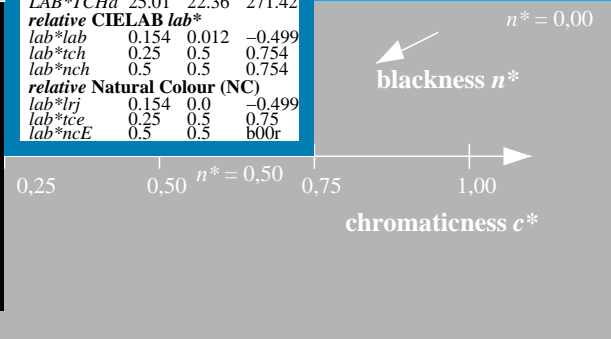
**relative Inform. Technology (IT)**  
 $olvi3^* = 1.0 \ 1.0 \ 1.0 \ (1.0)$   
 $cmyn3^* = 0.0 \ 0.0 \ 0.0 \ (0.0)$   
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 1.0$   
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 95.41 \ -0.98 \ 4.75$   
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 99.99 \ 0.01 \ -$   
**relative CIELAB lab\***  
 $lab^*lab = 1.0 \ 0.0 \ 0.0$   
 $lab^*tch = 1.0 \ 0.0 \ -$   
 $lab^*nch = 0.0 \ 0.0 \ -$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 1.0 \ 0.0 \ 0.0$   
 $lab^*tce = 1.0 \ 0.0 \ -$   
 $lab^*nce = 0.0 \ 0.0 \ -$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.5 \ 0.744 \ 1.0 \ (1.0)$   
 $cmyn3^* = 0.5 \ 0.256 \ 0.0 \ (0.0)$   
 $olvi4^* = 0.5 \ 0.744 \ 1.0 \ 1.0$   
 $cmyn4^* = 0.5 \ 0.256 \ 0.0 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 68.6 \ 0.07 \ -19.39$   
 $LAB^*LABa = 68.6 \ 0.55 \ -22.34$   
 $LAB^*TCHa = 75.0 \ 22.36 \ 271.4$   
**relative CIELAB lab\***  
 $lab^*lab = 0.654 \ 0.012 \ -0.499$   
 $lab^*tch = 0.75 \ 0.5 \ 0.754$   
 $lab^*nch = 0.0 \ 0.5 \ 0.754$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.654 \ 0.0 \ -0.499$   
 $lab^*tce = 0.75 \ 0.5 \ 0.75$   
 $lab^*nce = 0.0 \ 0.5 \ g99b$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.5 \ 0.5 \ 0.5 \ (1.0)$   
 $cmyn3^* = 0.5 \ 0.5 \ 0.5 \ (0.0)$   
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.5$   
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.5$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 56.71 \ -0.24 \ 2.14$   
 $LAB^*LABa = 56.71 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 50.0 \ 0.01 \ -$   
**relative CIELAB lab\***  
 $lab^*lab = 0.5 \ 0.0 \ 0.0$   
 $lab^*tch = 0.5 \ 0.0 \ -$   
 $lab^*nch = 0.5 \ 0.0 \ -$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.5 \ 0.0 \ 0.0$   
 $lab^*tce = 0.5 \ 0.0 \ -$   
 $lab^*nce = 0.5 \ 0.0 \ -$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.0 \ 0.244 \ 0.5 \ (1.0)$   
 $cmyn3^* = 1.0 \ 0.756 \ 0.5 \ (0.0)$   
 $olvi4^* = 0.5 \ 0.744 \ 1.0 \ 0.5$   
 $cmyn4^* = 0.5 \ 0.256 \ 0.0 \ 0.5$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 29.9 \ 0.82 \ -22.01$   
 $LAB^*LABa = 29.9 \ 0.55 \ -22.34$   
 $LAB^*TCHa = 25.01 \ 22.36 \ 271.42$   
**relative CIELAB lab\***  
 $lab^*lab = 0.154 \ 0.012 \ -0.499$   
 $lab^*tch = 0.25 \ 0.5 \ 0.754$   
 $lab^*nch = 0.5 \ 0.5 \ 0.754$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.154 \ 0.0 \ -0.499$   
 $lab^*tce = 0.25 \ 0.5 \ 0.75$   
 $lab^*nce = 0.5 \ 0.5 \ b00r$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.0 \ 0.488 \ 1.0 \ (1.0)$   
 $cmyn3^* = 1.0 \ 0.512 \ 0.0 \ (0.0)$   
 $olvi4^* = 0.0 \ 0.488 \ 1.0 \ 1.0$   
 $cmyn4^* = 1.0 \ 0.512 \ 0.0 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 41.79 \ 1.14 \ -43.55$   
 $LAB^*LABa = 41.79 \ 1.1 \ -44.69$   
 $LAB^*TCHa = 50.0 \ 44.71 \ 271.41$   
**relative CIELAB lab\***  
 $lab^*lab = 0.307 \ 0.025 \ -0.998$   
 $lab^*tch = 0.5 \ 1.0 \ 0.754$   
 $lab^*nch = 0.0 \ 1.0 \ 0.754$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.307 \ 0.0 \ -0.999$   
 $lab^*tce = 0.5 \ 1.0 \ 0.75$   
 $lab^*nce = 0.0 \ 1.0 \ b00r$



NE070-7, 3 step scales for constant CIELAB hue 272/360 = 0.755 (left)

3 step scales for constant CIELAB hue 271/360 = 0.754 (right)

BAM-test chart NE07; Colorimetric systems SRS18 & ORS18  
 D65: 3 step colour scales and coordinate data for 10 hues

input:  $olv^* \ setrgbcolor$   
 output:  $olv^* \ setrgbcolor / w^* \ setgray$