

Input: Colorimetric Reflective System ORS18

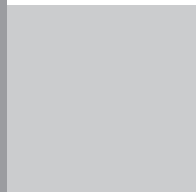
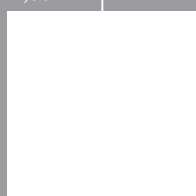
for hue $h^* = lab \cdot h = 38/360 = 0.105$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue O
 LCH*Ma: 48 83 38
 rgb*Ma: 1.0 0.0 0.0

triangle lightness

1,00

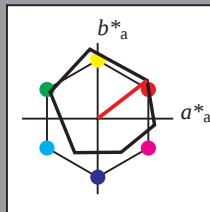


$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)



BAM-test chart UE40; Colorimetric systems ORS18 & MRS18
 D65: 5 step colour scales and coordinate data for 10 hues



$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

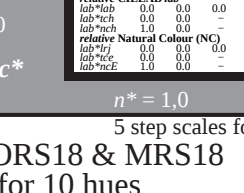
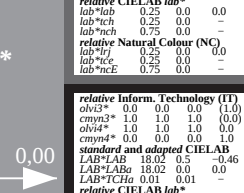
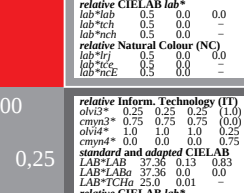
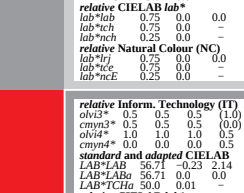
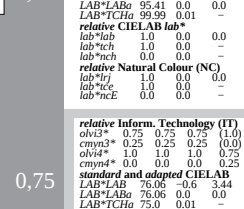
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

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

1,00



$n^* = 1,0$

Output: Colorimetric Reflective System MRS18

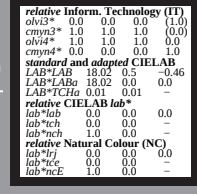
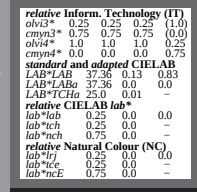
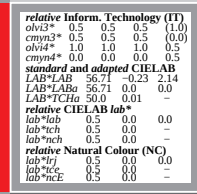
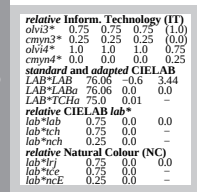
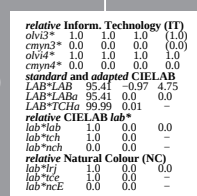
for hue $h^* = lab \cdot h = 30/360 = 0.083$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue R
 LCH*Ma: 50 77 30
 rgb*Ma: 1.0 0.0 0.0

triangle lightness

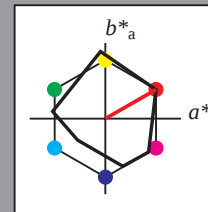
1,00



$n^* = 1,0$

5 step scales for constant CIELAB hue 30/360 = 0.083 (right)

input: $cmY0^* \text{ setcmYkcolor}$
 output: $cmY0^* / 000n^* \text{ setcmYkcolor}$



$u^*_{rel} = 91$

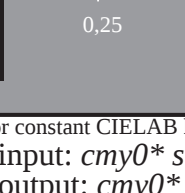
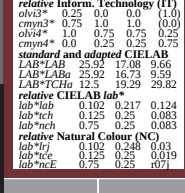
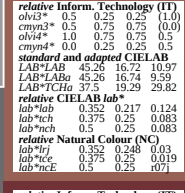
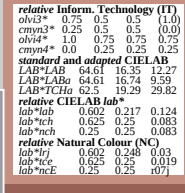
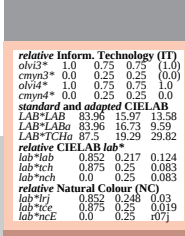
MRS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
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	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

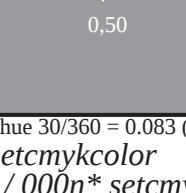
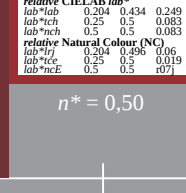
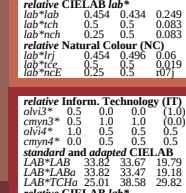
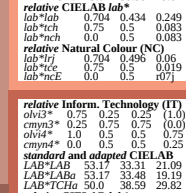
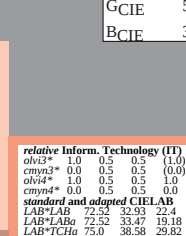
%Regularity

$g^*_{H,rel} = 41$

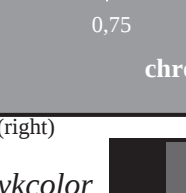
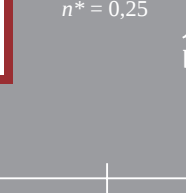
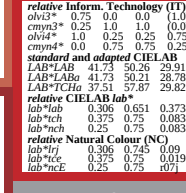
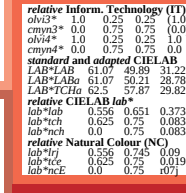
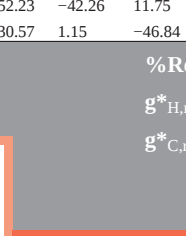
$g^*_{C,rel} = 52$



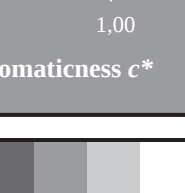
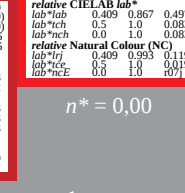
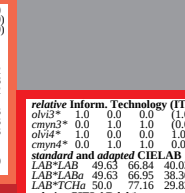
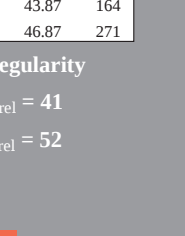
$n^* = 1,0$



$n^* = 1,0$



$n^* = 1,0$



$n^* = 1,0$

Input: Colorimetric Reflective System ORS18

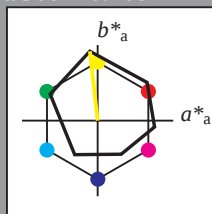
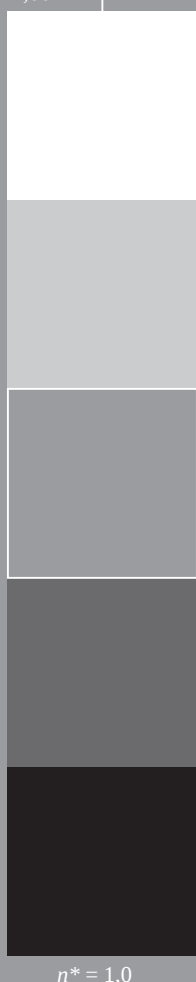
for hue $h^* = lab^*h = 96/360 = 0.268$

lab^*tch and lab^*nch

D65: hue Y
LCH*Ma: 90 92 96
rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



%Gamut
 $u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

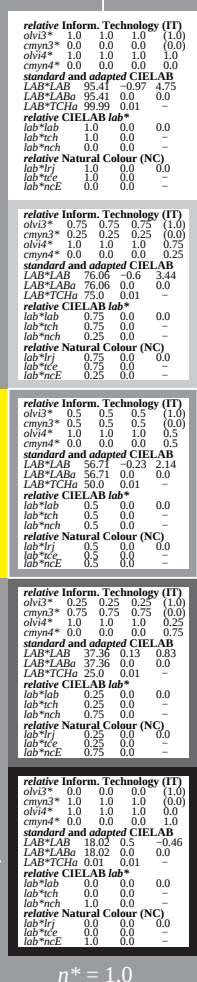
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

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

1,00



Output: Colorimetric Reflective System MRS18

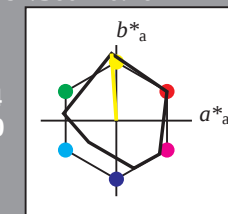
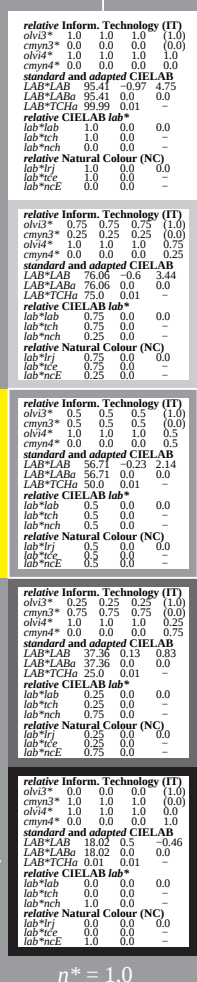
for hue $h^* = lab^*h = 94/360 = 0.261$

lab^*tch and lab^*nch

D65: hue J
LCH*Ma: 91 89 94
rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



%Gamut
 $u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data

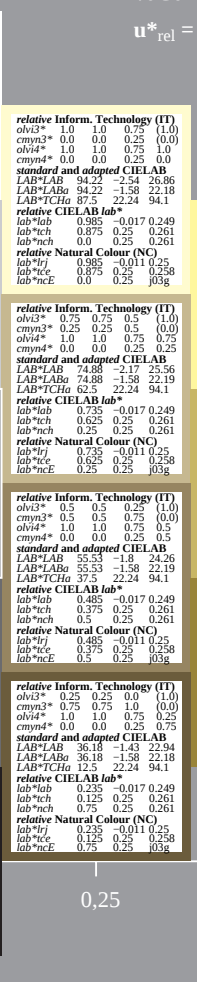
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00



Output: Colorimetric Reflective System MRS18

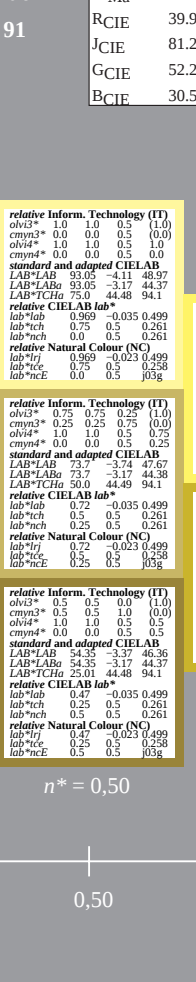
for hue $h^* = lab^*h = 94/360 = 0.261$

lab^*tch and lab^*nch

D65: hue J
LCH*Ma: 91 89 94
rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



Output: Colorimetric Reflective System MRS18

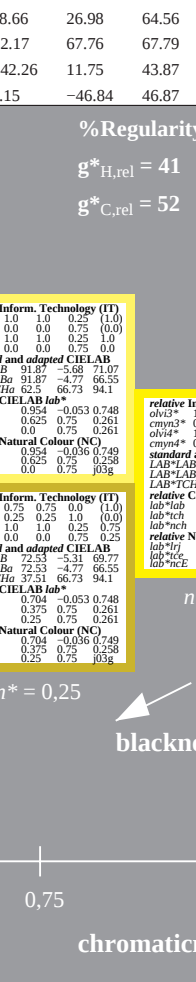
for hue $h^* = lab^*h = 94/360 = 0.261$

lab^*tch and lab^*nch

D65: hue J
LCH*Ma: 91 89 94
rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



Output: Colorimetric Reflective System MRS18

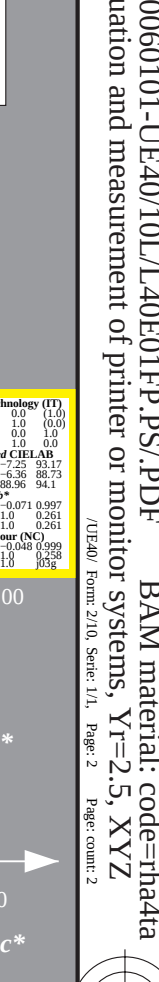
for hue $h^* = lab^*h = 94/360 = 0.261$

lab^*tch and lab^*nch

D65: hue J
LCH*Ma: 91 89 94
rgb*Ma: 1.0 1.0 0.0

triangle lightness

1,00



BAM-test chart UE40; Colorimetric systems ORS18 & MRS18

D65: 5 step colour scales and coordinate data for 10 hues

5 step scales for constant CIELAB hue 94/360 = 0.261 (right)

input: $cmY0^* setcmykcolor$

output: $cmY0^* / 000n^* setcmykcolor$

Input: Colorimetric Reflective System ORS18

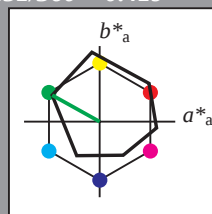
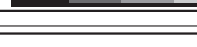
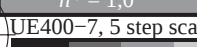
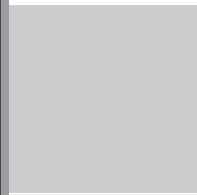
for hue $h^* = lab^*h = 151/360 = 0.419$

lab^*tch and lab^*nch

D65: hue L
LCH*Ma: 51 72 151
rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00



%Gamut
 $u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
GMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	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	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

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

Output: Colorimetric Reflective System MRS18

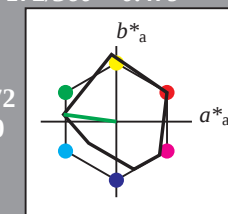
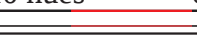
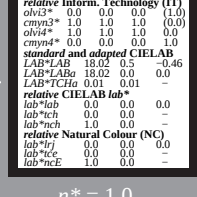
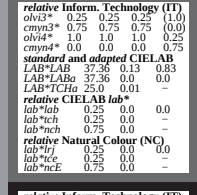
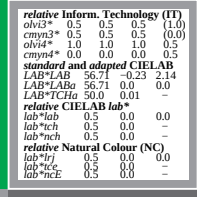
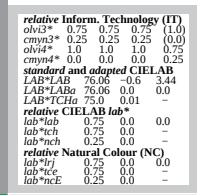
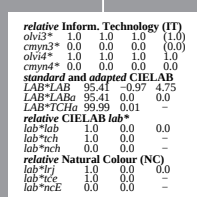
for hue $h^* = lab^*h = 172/360 = 0.479$

lab^*tch and lab^*nch

D65: hue G
LCH*Ma: 52 70 172
rgb*Ma: 0.0 1.0 0.0

triangle lightness

1,00



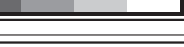
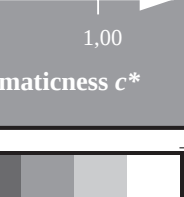
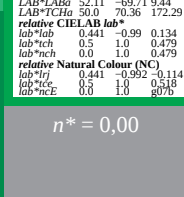
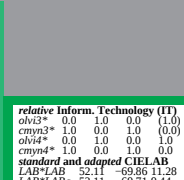
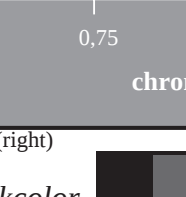
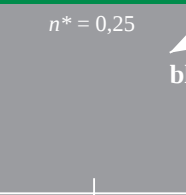
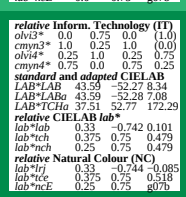
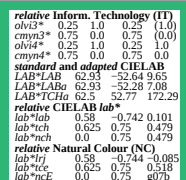
%Gamut
 $u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
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	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$



UE400-7, 5 step scales for constant CIELAB hue 151/360 = 0.419 (left)

5 step scales for constant CIELAB hue 172/360 = 0.479 (right)

BAM-test chart UE40; Colorimetric systems ORS18 & MRS18

D65: 5 step colour scales and coordinate data for 10 hues

input: $cmy0^* setcmykcolor$

output: $cmy0^* / 000n^* setcmykcolor$

Input: Colorimetric Reflective System ORS18

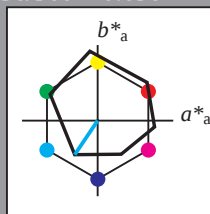
for hue $h^* = lab \cdot h = 236/360 = 0.656$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue C
LCH*Ma: 59 54 236
rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00



%Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	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	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

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

1,00

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	-0.97	4.75		
LAB*Lab	95.41	0.0	0.0		
LAB*TCha	98.99	0.01	0.0		
relative CIELAB lab*					
lab*lab	1.0	0.0	0.0		
lab*tch	1.0	0.0	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	1.0	0.0	0.0		
lab*tce	1.0	0.0	0.0		
lab*nce	0.0	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	0.75	
cmyn4*	0.0	0.0	0.0	0.25	
standard and adapted CIELAB					
LAB*LAB	76.06	-0.6	3.44		
LAB*Lab	76.06	0.0	0.0		
LAB*TCha	75.0	0.01	0.0		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.25	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.5	0.5	(1.0)	
cmyn3*	0.5	0.5	0.5	(0.0)	
olvi4*	0.75	1.0	1.0	0.5	
cmyn4*	0.0	0.0	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	56.71	-0.23	2.14		
LAB*Lab	56.71	0.0	0.0		
LAB*TCha	50.0	0.01	0.0		
relative CIELAB lab*					
lab*lab	0.5	0.0	0.0		
lab*tch	0.5	0.0	0.0		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	0.25	
cmyn4*	0.0	0.0	0.0	0.75	
standard and adapted CIELAB					
LAB*LAB	37.36	-0.13	0.83		
LAB*Lab	37.36	0.0	0.0		
LAB*TCha	25.0	0.01	0.0		
relative CIELAB lab*					
lab*lab	0.25	0.0	0.0		
lab*tch	0.25	0.0	0.0		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.0	0.0		
lab*tce	0.75	0.0	0.0		
lab*nce	0.75	0.0	0.0		

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	-0.46		
LAB*Lab	18.02	0.0	0.0		
LAB*TCha	0.01	0.0	0.0		
relative CIELAB lab*					
lab*lab	0.0	0.0	0.0		
lab*tch	0.0	0.0	0.0		
lab*nch	1.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	1.0	0.0	0.0		
lab*nce	1.0	0.0	0.0		

$n^* = 1,0$

Output: Colorimetric Reflective System MRS18

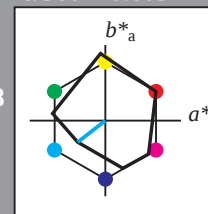
for hue $h^* = lab \cdot h = 218/360 = 0.605$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue G50B
LCH*Ma: 45 46 218
rgb*Ma: 0.0 1.0 1.0

triangle lightness

1,00



%Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
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	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

relative Inform. Technology (IT)					
olvi3*	0.75	1.0	1.0	(1.0)	
cmyn3*	0.25	0.0	0.0	(0.0)	
olvi4*	0.75	1.0	1.0	1.0	
cmyn4*	0.25	0.0	0.0	0.0	
standard and adapted CIELAB					
LAB*LAB	82.81	-9.87	-3.2		
LAB*Lab	82.81	-9.13	-7.11		
LAB*TCha	87.5	11.58	217.91		
relative CIELAB lab*					
lab*lab	0.75	0.0	0.0		
lab*tch	0.75	0.0	0.0		
lab*nch	0.25	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.75	0.0	0.0		
lab*tce	0.75	0.0	0.0		
lab*nce	0.25	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.5	0.75	0.75	(1.0)	
cmyn3*	0.5	0.25	0.25	(0.0)	
olvi4*	0.75	1.0	1.0	0.75	
cmyn4*	0.5	0.0	0.0	0.25	
standard and adapted CIELAB					
LAB*LAB	63.46	-9.5	-4.51		
LAB*Lab	63.46	-9.13	-7.11		
LAB*TCha	62.5	11.59	217.91		
relative CIELAB lab*					
lab*lab	0.5	0.75	0.75		
lab*tch	0.5	0.25	0.25		
lab*nch	0.5	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.5	0.75	0.75		
lab*tce	0.5	0.25	0.25		
lab*nce	0.5	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.75	0.75	(1.0)	
cmyn3*	0.75	0.25	0.25	(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	50.87	-18.4	-12.48		
LAB*Lab	50.87	-18.28	-14.23		
LAB*TCha	50.0	23.18	217.91		
relative CIELAB lab*					
lab*lab	0.25	0.75	0.75		
lab*tch	0.25	0.25	0.25		
lab*nch	0.75	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.25	0.75	0.75		
lab*tce	0.75	0.25	0.25		
lab*nce	0.75	0.0	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	31.52	-18.03	-13.78		
LAB*Lab	31.52	-18.27	-14.23		
LAB*TCha	25.01	23.17	217.91		
relative CIELAB lab*					
lab*lab	0.0	0.5	0.5		
lab*tch	0.0	0.25	0.25		
lab*nch	1.0	0.5	0.5		
relative Natural Colour (NC)					
lab*trj	0.0	0.5	0.5		
lab*tce	1.0	0.25	0.25		
lab*nce	1.0	0.5	0.5		

relative Inform. Technology (IT)					
olvi3*	0.087	-0.196	-0.153		
cmyn3*	0.125	0.25	0.605		
olvi4*	0.125	0.25	0.605		
cmyn4*	0.087	0.125	0.625		
standard and adapted CIELAB					
LAB*LAB	24.77	-9.13	-7.11		
LAB*Lab	24.77	-9.13	-7.11		
LAB*TCha	12.5	11.58	217.91		
relative CIELAB lab*					
lab*lab	0.087	-0.196	-0.153		
lab*tch	0.125	0.25	0.605		
lab*nch	0.125	0.25	0.605		
relative Natural Colour (NC)					
lab*trj	0.087	0.125	0.625		
lab*tce	0.125	0.25	0.625		
lab*nce	0.125	0.25	0.625		

$n^* = 0,50$

relative Inform. Technology (IT)	
----------------------------------	--

Input: Colorimetric Reflective System ORS18

for hue $h^* = \text{lab}^*h = 305/360 = 0.847$

lab^*tch and lab^*nch

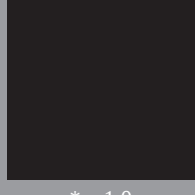
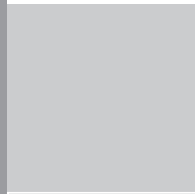
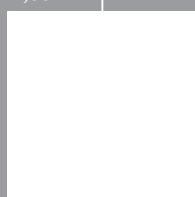
D65: hue V

LCH*Ma: 26 54 305

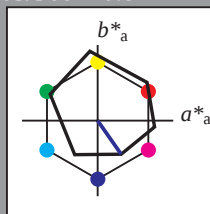
rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00



$n^* = 1,0$



%Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

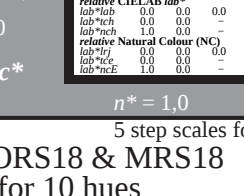
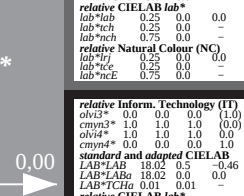
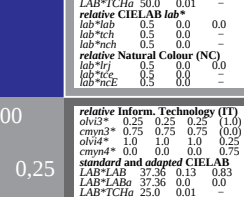
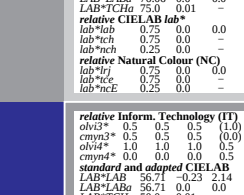
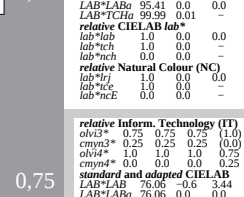
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
GMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

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

1,00



$n^* = 1,0$

Output: Colorimetric Reflective System MRS18

for hue $h^* = \text{lab}^*h = 290/360 = 0.806$

lab^*tch and lab^*nch

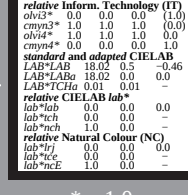
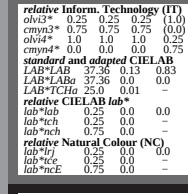
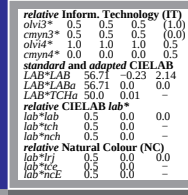
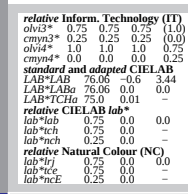
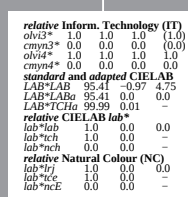
D65: hue B

LCH*Ma: 37 67 290

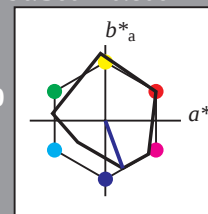
rgb*Ma: 0.0 0.0 1.0

triangle lightness

1,00

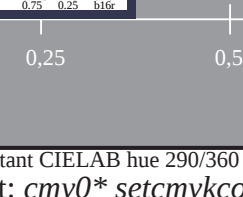
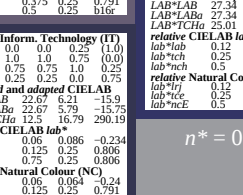
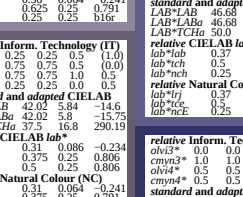
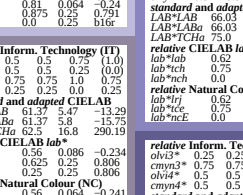
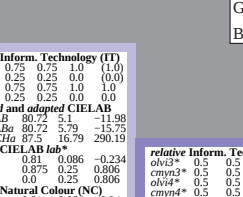


$n^* = 1,0$



%Gamut

$u^*_{rel} = 91$



$n^* = 1,0$

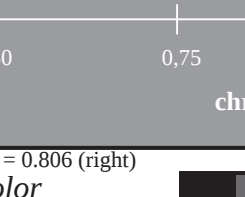
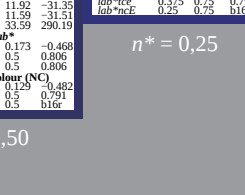
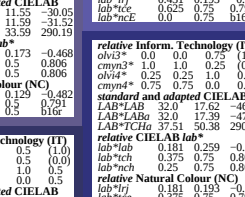
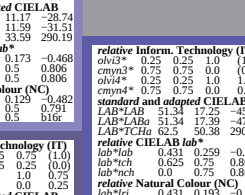
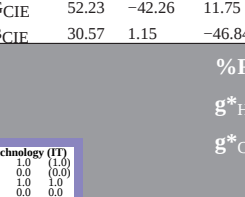
MRS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
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	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

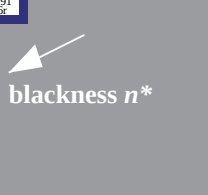
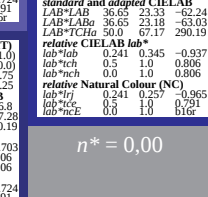
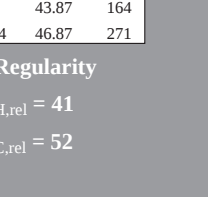
%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$



$n^* = 1,0$



$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

5 step scales for constant CIELAB hue 290/360 = 0.806 (right)

BAM-test chart UE40; Colorimetric systems ORS18 & MRS18

D65: 5 step colour scales and coordinate data for 10 hues

input: $\text{cmy}0^* \text{ setcmykcolor}$

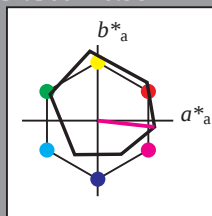
output: $\text{cmy}0^* / 000n^* \text{ setcmykcolor}$

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab \cdot h = 354/360 = 0.982$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue M
 LCH*Ma: 48 76 354
 rgb*Ma: 1.0 0.0 1.0
 triangle lightness



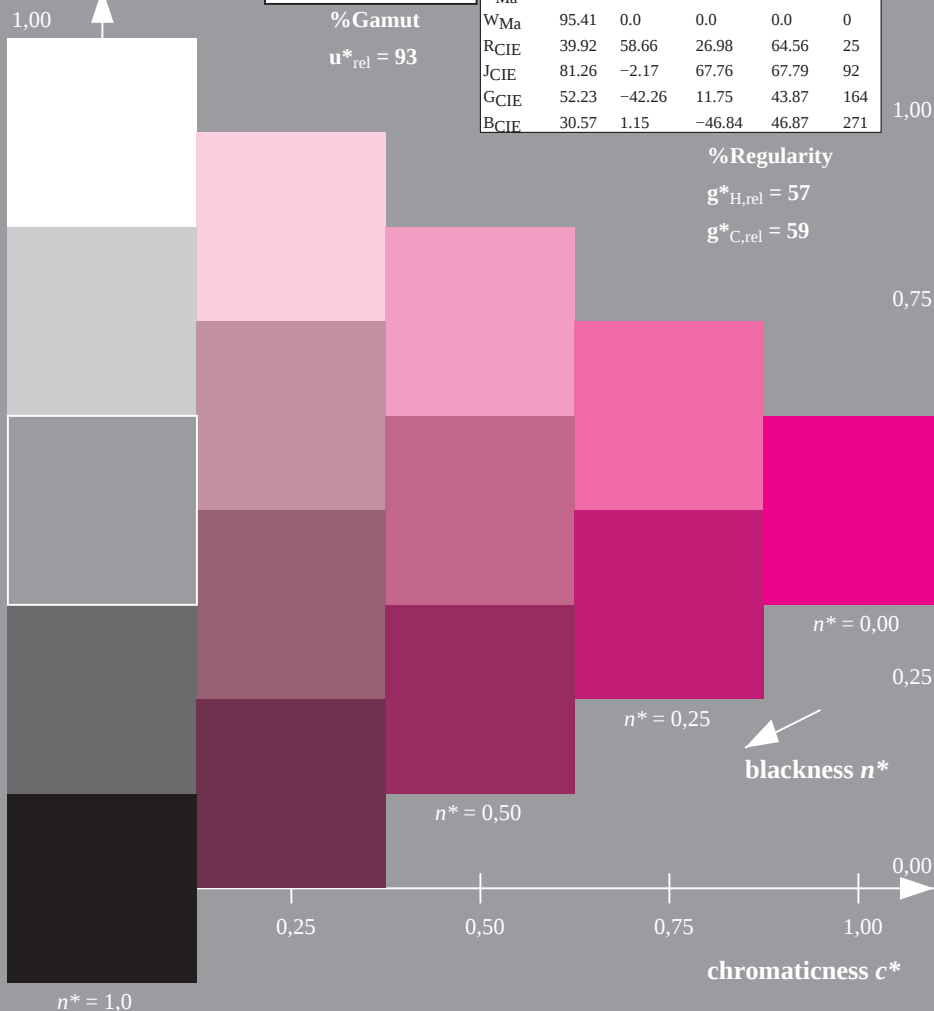
ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	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	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

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



UE400-7, 5 step scales for constant CIELAB hue 354/360 = 0.982 (left)



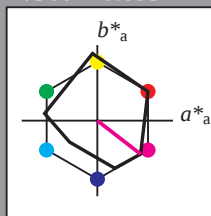
BAM-test chart UE40; Colorimetric systems ORS18 & MRS18
 D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab \cdot h = 322/360 = 0.895$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue B50R
 LCH*Ma: 35 72 322
 rgb*Ma: 1.0 0.0 1.0
 triangle lightness



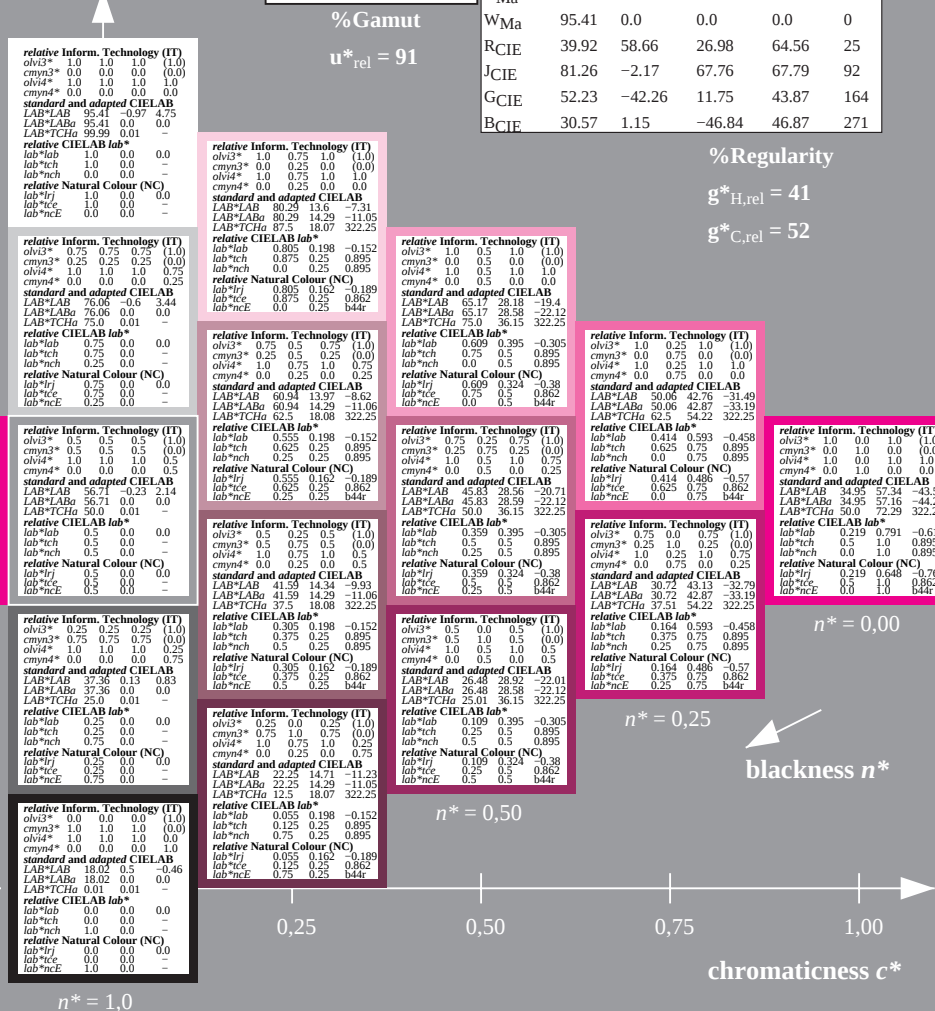
MRS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
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	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$



5 step scales for constant CIELAB hue 322/360 = 0.895 (right)

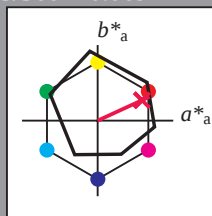
input: $cmy0^* \text{ setcmykcolor}$
 output: $cmy0^* / 000n^* \text{ setcmykcolor}$

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab \cdot h = 25/360 = 0.069$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue R
 LCH*Ma: 48 75 25
 rgb*Ma: 1.0 0.0 0.32
 triangle lightness

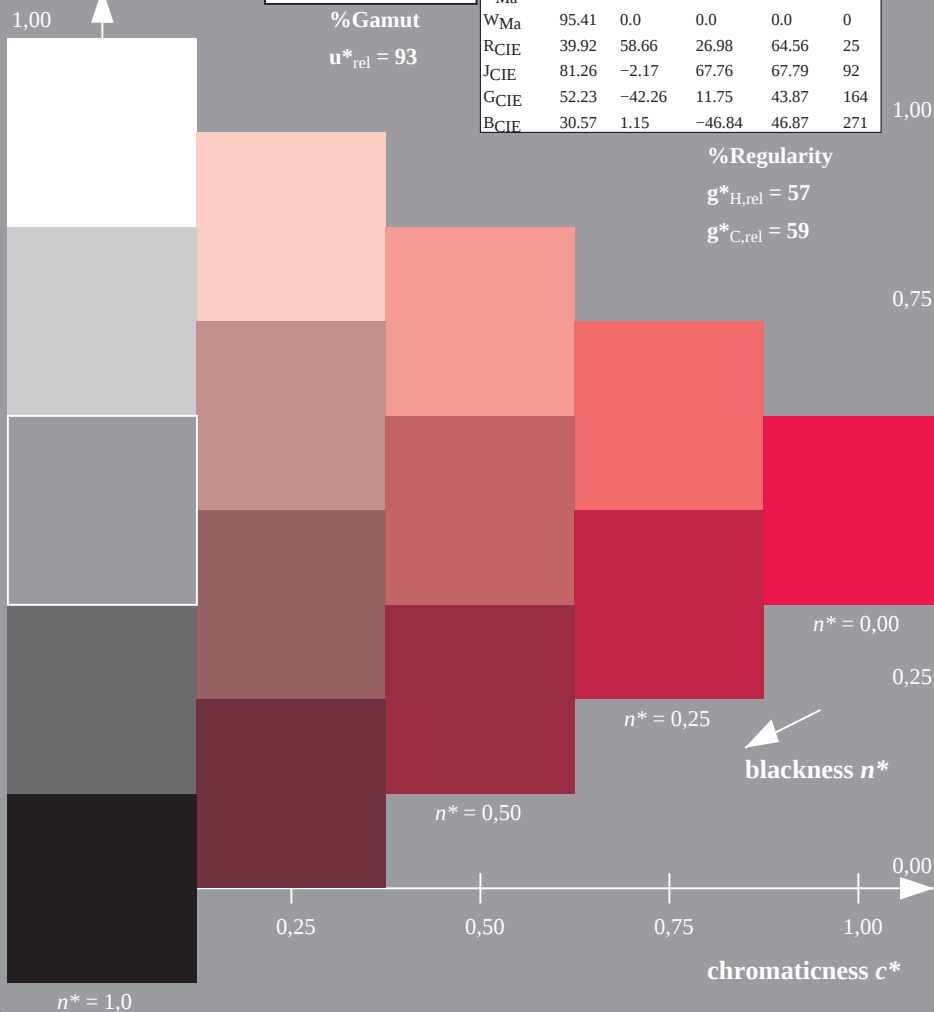


	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

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



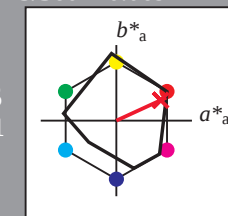
UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab \cdot h = 25/360 = 0.069$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue R
 LCH*Ma: 48 73 25
 rgb*Ma: 1.0 0.0 0.1
 triangle lightness

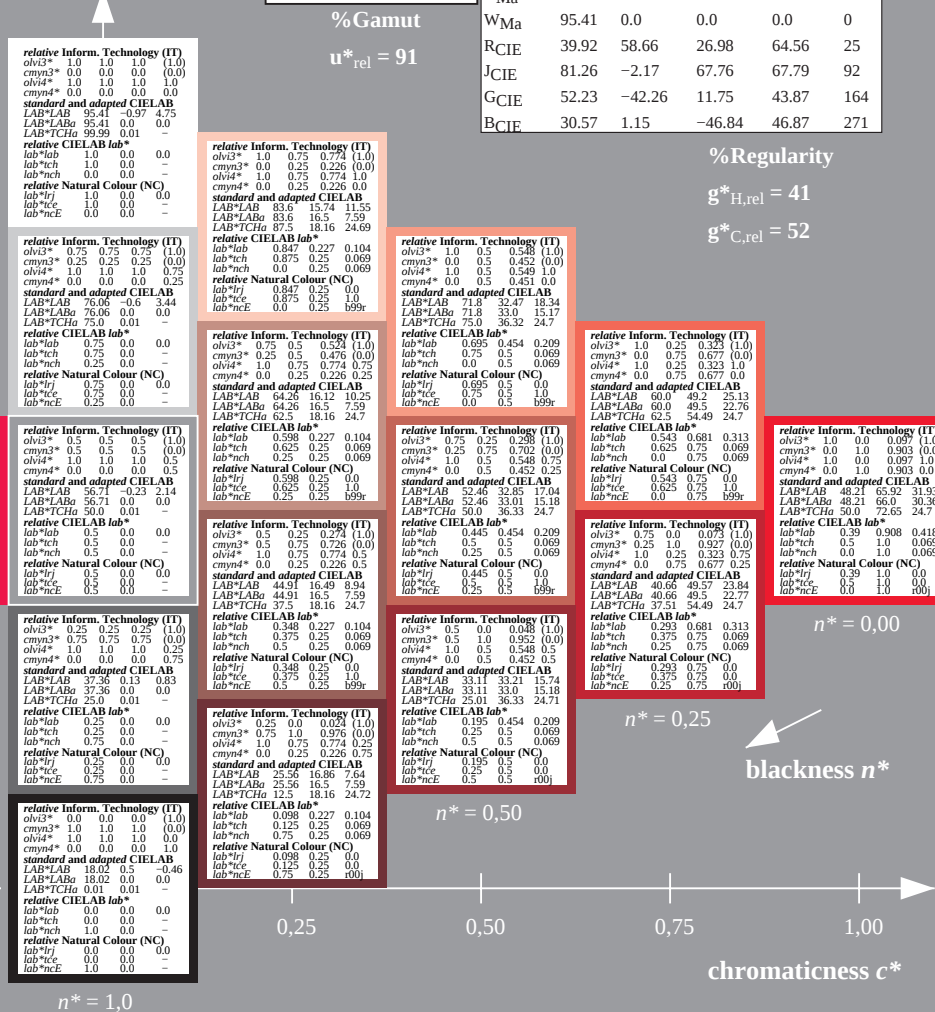


	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$



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

BAM-test chart UE40; Colorimetric systems ORS18 & MRS18

D65: 5 step colour scales and coordinate data for 10 hues

input: $cmy0^* \text{ setcmykcolor}$

output: $cmy0^* / 000n^* \text{ setcmykcolor}$

Input: Colorimetric 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

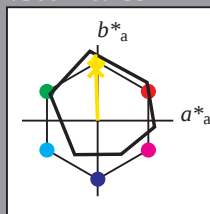
rgb*Ma: 1.0 0.9 0.0

triangle lightness

1,00

%Gamut

$u^*_{rel} = 93$



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	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	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

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

1,00

relative Inform. Technology (IT)

$cmyn3^* 1.0 1.0 1.0 (1.0)$
 $cmyn3^* 0.0 0.0 0.0 (0.0)$
 $cmyn4^* 1.0 1.0 1.0 1.0$
 $cmyn4^* 0.0 0.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 95.41 -0.97 4.75$
 $LAB^*LAB 95.41 0.0 0.0$
 $LAB^*TCha 98.99 0.01 0.0$

relative CIELAB lab*

$lab^*lab 1.0 0.0 0.0$
 $lab^*tch 1.0 0.0 0.0$
 $lab^*nch 0.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 1.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 0.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 76.06 -0.6 3.44$
 $LAB^*LAB 76.06 0.0 0.0$
 $LAB^*TCha 75.0 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.75 0.0 0.0$
 $lab^*tch 0.75 0.0 0.0$
 $lab^*nch 0.25 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.75 0.0 0.0$
 $lab^*tce 0.25 0.0 0.0$
 $lab^*nce 0.25 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 56.71 0.23 2.14$
 $LAB^*LAB 56.71 0.0 0.0$
 $LAB^*TCha 50.0 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.5 0.0 0.0$
 $lab^*tch 0.5 0.0 0.0$
 $lab^*nch 0.5 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.5 0.0 0.0$
 $lab^*tce 0.5 0.0 0.0$
 $lab^*nce 0.5 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

relative CIELAB lab*

$lab^*lab 0.0 0.0 0.0$
 $lab^*tch 0.0 0.0 0.0$
 $lab^*nch 1.0 0.0 0.0$

relative Natural Colour (NC)

$lab^*lrj 0.0 0.0 0.0$
 $lab^*tce 1.0 0.0 0.0$
 $lab^*nce 1.0 0.0 0.0$

standard and adapted CIELAB

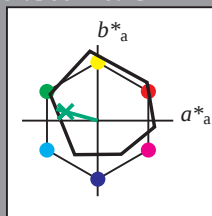
$LAB^*LAB 18.02 0.0 0.0$
 $LAB^*LAB 18.02 0.0 0.0$
 $LAB^*TCha 0.01 0.01 0.0$

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab \cdot h = 164/360 = 0.457$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue G
LCH*Ma: 53 57 164
rgb*Ma: 0.0 1.0 0.25
triangle lightness



ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	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	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$

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

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

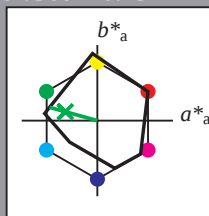
chromaticness c^*

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab \cdot h = 164/360 = 0.457$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue G
LCH*Ma: 56 66 164
rgb*Ma: 0.1 1.0 0.0
triangle lightness



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
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	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

1,00

0,75

$n^* = 0,00$

0,25

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)

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

BAM-test chart UE40; Colorimetric systems ORS18 & MRS18

D65: 5 step colour scales and coordinate data for 10 hues

input: $cmy0^* \text{ setcmykcolor}$

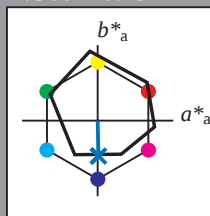
output: $cmy0^* / 000n^* \text{ setcmykcolor}$

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab \cdot h = 271/360 = 0.754$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue B
 LCH*Ma: 42 45 271
 rgb*Ma: 0.0 0.49 1.0
 triangle lightness



1,00

% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	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	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 57$

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

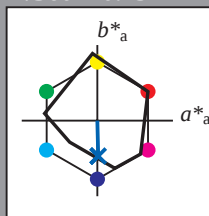
1,00

Output: Colorimetric Reflective System MRS18

for hue $h^* = lab \cdot h = 271/360 = 0.754$

$lab \cdot tch$ and $lab \cdot nch$

D65: hue B
 LCH*Ma: 40 50 271
 rgb*Ma: 0.0 0.37 1.0
 triangle lightness



% Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
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	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

0,75

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	-0.97	4.75		
LAB*LABa	95.41	0.0	0.0		
LAB*TCha	98.99	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*trj	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	0.52	0.75	(1.0)	
cmyn3*	0.5	0.408	0.25	(0.0)	
olvi4*	0.5	0.842	1.0	0.5	
cmyn4*	0.0	0.0	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	62.14	-0.02	-10.06		
LAB*LABa	62.14	0.31	-12.58		
LAB*TCha	62.5	12.59	27.14		
relative CIELAB lab*					
lab*lab	0.5	0.006	-0.249		
lab*tch	0.5	0.006	-0.249		
lab*nch	0.5	0.006	-0.249		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

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	1.0	
cmyn4*	0.0	0.0	0.0	0.0	
standard and adapted CIELAB					
LAB*LAB	18.02	0.0	0.0		
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	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.52	0.75	(1.0)	
cmyn3*	0.5	0.408	0.25	(0.0)	
olvi4*	0.5	0.842	1.0	0.5	
cmyn4*	0.0	0.0	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	62.14	-0.02	-10.06		
LAB*LABa	62.14	0.31	-12.58		
LAB*TCha	62.5	12.59	27.14		
relative CIELAB lab*					
lab*lab	0.5	0.006	-0.249		
lab*tch	0.5	0.006	-0.249		
lab*nch	0.5	0.006	-0.249		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

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	1.0	
cmyn4*	0.0	0.0	0.0	0.0	
standard and adapted CIELAB					
LAB*LAB	18.02	0.0	0.0		
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	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	-		

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	1.0	
cmyn4*	0.0	0.0	0.0	0.0	
standard and adapted CIELAB					
LAB*LAB	18.02	0.0	0.0		
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	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.5	0.52	0.75	(1.0)	
cmyn3*	0.5	0.408	0.25	(0.0)	
olvi4*	0.5	0.842	1.0	0.5	
cmyn4*	0.0	0.0	0.0	0.5	
standard and adapted CIELAB					
LAB*LAB	62.14	-0.02	-10.06		
LAB*LABa	62.14	0.31	-12.58		
LAB*TCha	62.5	12.59	27.14		
relative CIELAB lab*					
lab*lab	0.5	0.006	-0.249		
lab*tch	0.5	0.006	-0.249		
lab*nch	0.5	0.006	-0.249		
relative Natural Colour (NC)					
lab*trj	0.5	0.0	0.0		
lab*tce	0.5	0.0	0.0		
lab*nce	0.5	0.0	0.0		

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	1.0	
cmyn4*	0.0	0.0	0.0	0.0	
standard and adapted CIELAB					
LAB*LAB	18.02	0.0	0.0		
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	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	-		

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	1.0	
cmyn4*	0.0	0.0	0.0	0.0	
standard and adapted CIELAB					
LAB*LAB	18.02	0.0	0.0		
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	0.0		
lab*nch	0.0	0.0	0.0		
relative Natural Colour (NC)					
lab*trj	0.0	0.0	0.0		
lab*tce	0.0	0.0	0.0		
lab*nce	1.0	0.0	-		

relative Inform. Technology (IT)					
olvi3*	0.25	0.276	0.75	(1.0)	
cmyn3*	0.25	0.526	1.0	(0.0)	
olvi4*	0.25	0.526	1.0	1.0	
cmyn4*	0.0	0.0	0.0	0.0	
standard and adapted CIELAB					
LAB*LAB	33.65	0.74	-35.81		
LAB*LABa	33.65	0.92	-37.75		
LAB*TCha	62.5	37.77	27.14		
relative CIELAB lab*					
lab*lab	0.46	0.018	-0.749		
lab*tch	0.46	0.018	-0.749		
lab*nch	0.46	0.018	-0.749		