

See for similar files: <http://www.ps.bam.de/UE40/>
 Technical information: <http://www.ps.bam.de>

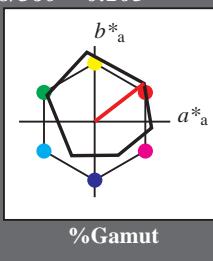
Version 2.1, io=0,0, CIEXYZ

Input: Colorimetric 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
 rgb*Ma: 1.0 0.0 0.0

triangle lightness

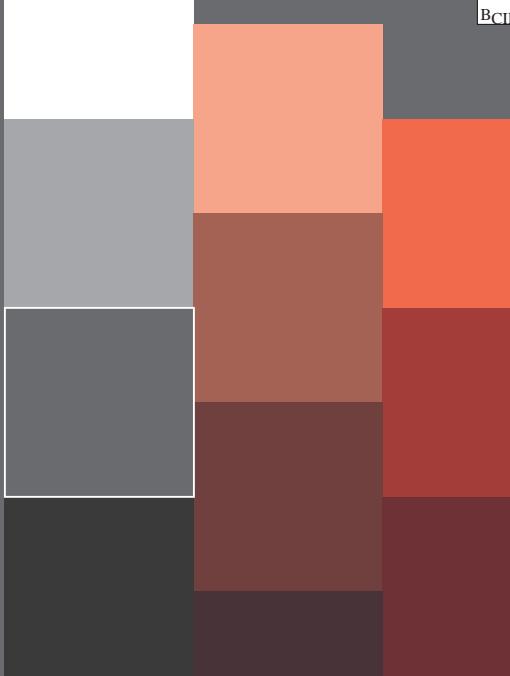
1,00



	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.37	50.52	82.62	38
Y _{Ma}	90.37	-10.27	91.77	92.34	96
L _{Ma}	50.9	-62.79	34.95	71.87	151
C _{Ma}	58.62	-30.35	-45.01	54.3	236
V _{Ma}	25.71	31.11	-44.42	54.24	305
M _{Ma}	48.13	75.27	-8.35	75.73	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.56	25
J _{CIE}	81.26	-2.17	67.76	67.79	92
G _{CIE}	52.23	-42.26	11.75	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 57$
 $g^*_{C,rel} = 59$



$n^* = 1,0$

0,25

$n^* = 0,50$

0,50

$n^* = 0,25$

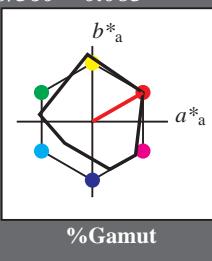
blackness n^*

chromaticness c^*

Output: Colorimetric Reflective System MRS18
 for hue $h^* = lab^*h = 30/360 = 0.083$
 lab^*tch and lab^*nch

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

1,00



%Gamut

$u^*_{rel} = 91$

	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	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
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.56	25
J _{CIE}	81.26	-2.17	67.76	67.79	92
G _{CIE}	52.23	-42.26	11.75	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$
 $g^*_{C,rel} = 52$

	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
relative Inform. Technology (IT) olv3*	1.0	1.0	1.0	(1,0)	
cmy3*	0.0	0.0	0.0	(0,0)	
olv4*	1.0	1.0	1.0		
cmy4*	0.0	0.0	0.0		
standard and adapted CIELAB					
LAB* _{Lab}	50.71	15.97	4.75		
LAB* _{TCh}	95.41	0.0	-		
LAB* _{TCh} a	99.99	0.01	-		
relative CIELAB lab^*					
lab* _{Lab}	0.0	0.0	0.0		
lab* _{TCh}	1.0	0.0	-		
lab* _{nCh}	0.0	0.0	-		
relative Natural Colour (NC) olv3*	1.0	0.0	0.0		
lab* _{Lab}	1.0	0.0	-		
lab* _{TCh}	0.0	0.0	-		
lab* _{nCh}	0.0	0.0	-		
relative Inform. Technology (IT) olv3*	1.0	0.75	0.75	(1,0)	
cmy3*	1.0	0.75	0.75	(0,0)	
olv4*	1.0	0.75	0.75		
cmy4*	1.0	0.75	0.75		
standard and adapted CIELAB					
LAB* _{Lab}	83.96	16.73	9.59		
LAB* _{TCh}	87.19	19.29	1.00		
LAB* _{TCh} a	99.99	0.01	-		
relative CIELAB lab^*					
lab* _{Lab}	0.852	0.217	0.124		
lab* _{TCh}	0.875	0.25	0.083		
lab* _{nCh}	0.0	0.25	0.083		
relative Natural Colour (NC) olv3*	1.0	0.25	0.25	(1,0)	
lab* _{Lab}	1.0	0.25	0.25	(0,0)	
lab* _{TCh}	0.0	0.25	0.25		
lab* _{nCh}	0.0	0.25	0.25		
relative Inform. Technology (IT) olv3*	1.0	0.75	0.75	(1,0)	
cmy3*	0.0	0.75	0.75	(0,0)	
olv4*	1.0	0.75	0.75		
cmy4*	1.0	0.75	0.75		
standard and adapted CIELAB					
LAB* _{Lab}	72.53	33.47	19.18		
LAB* _{TCh}	78.39	38.58	29.82		
LAB* _{TCh} a	99.99	0.01	-		
relative CIELAB lab^*					
lab* _{Lab}	0.704	0.434	0.249		
lab* _{TCh}	0.725	0.452	0.261		
lab* _{nCh}	0.0	0.452	0.261		
relative CIELAB lab^*					
lab* _{Lab}	0.852	0.217	0.124		
lab* _{TCh}	0.875	0.25	0.083		
lab* _{nCh}	0.0	0.25	0.083		
relative Inform. Technology (IT) olv3*	1.0	0.25	0.25	(1,0)	
cmy3*	0.0	0.25	0.25	(0,0)	
olv4*	1.0	0.25	0.25		
cmy4*	1.0	0.25	0.25		
standard and adapted CIELAB					
LAB* _{Lab}	64.61	33.31	21.09		
LAB* _{TCh}	69.17	38.58	29.82		
LAB* _{TCh} a	99.99	0.01	-		
relative CIELAB lab^*					
lab* _{Lab}	0.602	0.217	0.124		
lab* _{TCh}	0.621	0.25	0.083		
lab* _{nCh}	0.25	0.25	0.083		
relative Natural Colour (NC) olv3*	1.0	0.25	0.25	(1,0)	
lab* _{Lab}	1.0	0.25	0.25	(0,0)	
lab* _{TCh}	0.0	0.25	0.25		
lab* _{nCh}	0.0	0.25	0.25		
relative Inform. Technology (IT) olv3*	1.0	0.75	0.75	(1,0)	
cmy3*	0.25	0.75	0.75	(0,0)	
olv4*	1.0	0.75	0.75		
cmy4*	1.0	0.75	0.75		
standard and adapted CIELAB					
LAB* _{Lab}	53.17	33.31	21.09		
LAB* _{TCh}	58.32	38.58	29.82		
LAB* _{TCh} a	99.99	0.01	-		
relative CIELAB lab^*					
lab* _{Lab}	0.454	0.344	0.249		
lab* _{TCh}	0.475	0.352	0.25		
lab* _{nCh}	0.0	0.352	0.25		
relative Natural Colour (NC) olv3*	1.0	0.25	0.25	(1,0)	
lab* _{Lab}	1.0	0.25	0.25	(0,0)	
lab* _{TCh}	0.0	0.25	0.25		
lab* _{nCh}	0.0	0.25	0.25		
relative Inform. Technology (IT) olv3*	1.0	0.75	0.75	(1,0)	
cmy3*	0.25	0.75	0.75	(0,0)	
olv4*	1.0	0.75	0.75		
cmy4*	1.0	0.75	0.75		
standard and adapted CIELAB					
LAB* _{Lab}	33.82	13.67	19.79		
LAB* _{TCh}	33.82	13.34	19.18		
LAB* _{TCh} a	99.99	0.01	-		
relative CIELAB lab^*					
lab* _{Lab}	0.204	0.434	0.249		
lab* _{TCh}	0.225	0.452	0.261		
lab* _{nCh}	0.25	0.452	0.261		
relative Natural Colour (NC) olv3*	1.0	0.25	0.25	(1,0)	
lab* _{Lab}	1.0	0.25	0.25	(0,0)	
lab* _{TCh}	0.0	0.25	0.25		
lab* _{nCh}	0.0	0.25	0.25		
relative Inform. Technology (IT) olv3*	1.0	1.0	1.0	(1,0)	
cmy3*	1.0	1.0	1.0	(0,0)	
olv4*	1.0	1.0	1.0		
cmy4*	1.0	1.0	1.0		
standard and adapted CIELAB					
LAB* _{Lab}	18.02	0.5	-0.46		
LAB* _{TCh}	25.92	17.08	9.66		
LAB* _{TCh} a	25.92	16.73	9.59		
relative CIELAB lab^*					
lab* _{Lab}	0.102	0.217	0.124		
lab* _{TCh}	0.125	0.25	0.083		
lab* _{nCh}	0.25	0.25	0.083		
relative Natural Colour (NC) olv3*	1.0	0.25	0.25	(1,0)	
lab* _{Lab}	1.0	0.25	0.25	(0,0)	
lab* _{TCh}	0.0	0.25	0.25		
lab* _{nCh}	0.0	0.25	0.25		
relative Inform. Technology (IT) olv3*	1.0	0.0	0.0	(1,0)	
cmy3*	0.0	0.0	0.0	(0,0)	
olv4*	1.0	0.0	0.0		
cmy4*	1.0	0.0	0.0		
standard and adapted CIELAB					
LAB* _{Lab}	0.01	0.01	0.01		
LAB* _{TCh}	0.01	0.01	0.01		
LAB* _{TCh} a	0.01	0.01	0.01		

5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

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

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

UE40-7, 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

See for similar files: <http://www.ps.bam.de/UE40/>

Technical information: <http://www.ps.bam.de>

Version 2.1, io=0,0, CIEXYZ

Input: Colorimetric Reflective System ORS18

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

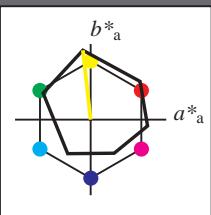
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness



%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

1,00



1,00



1,00



1,00



1,00



1,00



1,00



1,00



1,00



1,00



1,00



1,00



1,00



1,00



1,00



1,00



1,00



1,00



1,00



1,00



1,00



1,00



Output: Colorimetric Reflective System MRS18

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

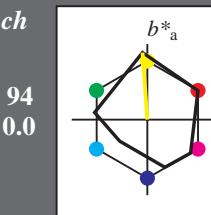
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 89 94

rgb*Ma: 1.0 1.0 0.0

triangle lightness



%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



0,75



0,50



0,25



0,00



n* = 0,00



0,25



n* = 0,25



0,50



n* = 0,50



0,75



1,00



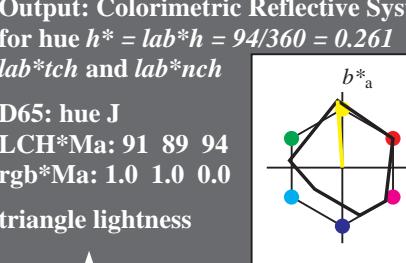
chromaticness c*



n* = 1,0



blackness n*



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

	$L^*=L^*_a$	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



0,75



0,50



0,25



0,00



n* = 0,00



0,25



n* = 0,25



0,50



chromaticness c*

0,00



0,25



0,50



0,75



1,00



n* = 1,0



blackness n*



chromaticness c*



n* = 1,0

1,00



0,75



0,50



0,25



0,00

n* = 0,00

0,25

n* = 0,50

0,75

1,00

n* = 1,0

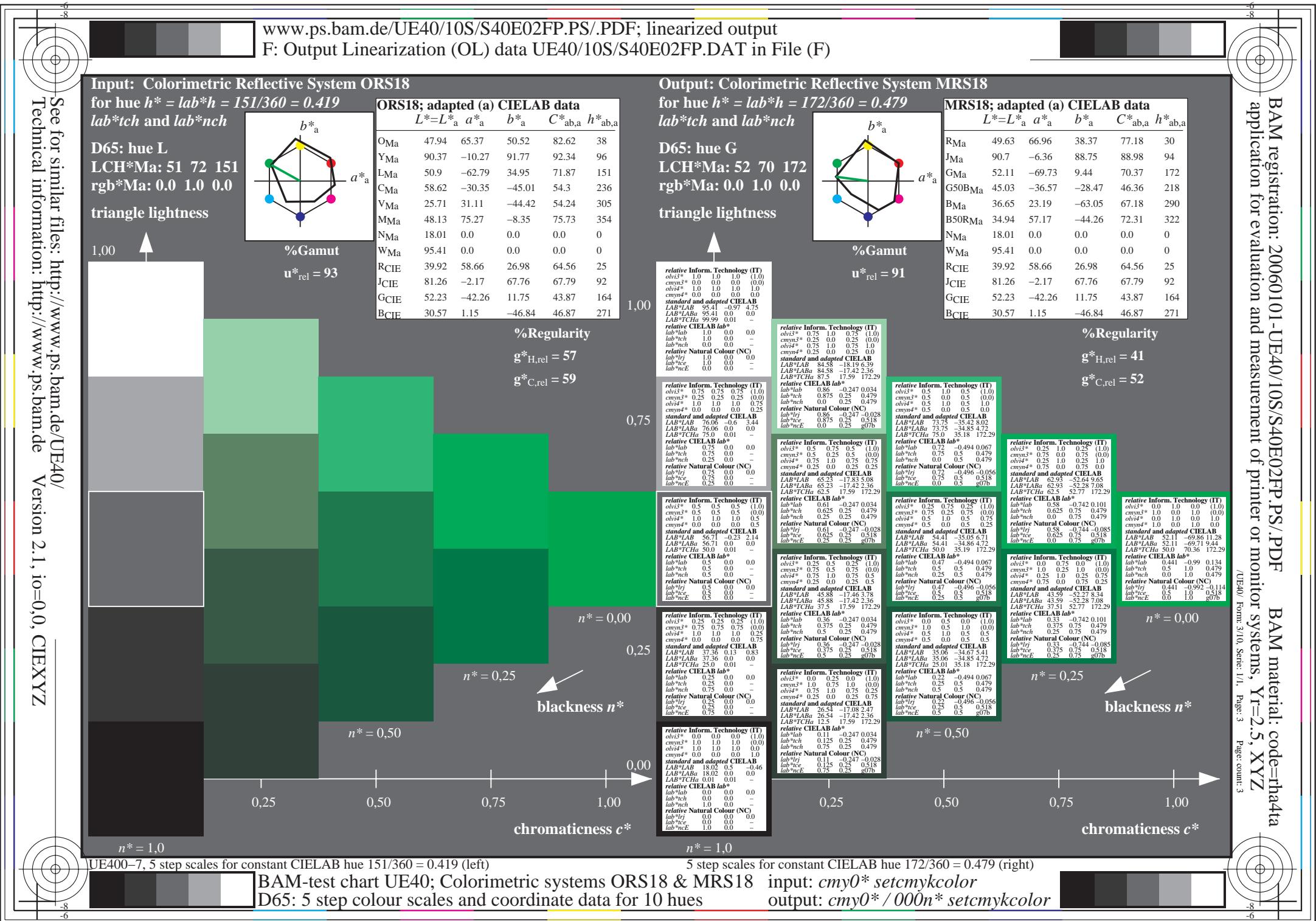
blackness n*

chromaticness c*

n* = 1,0

blackness n*

chromaticness c*



See for similar files: <http://www.ps.bam.de/UE40/>
 Technical information: <http://www.ps.bam.de>

Version 2.1, io=0,0, CIEXYZ

Input: Colorimetric Reflective System ORS18

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

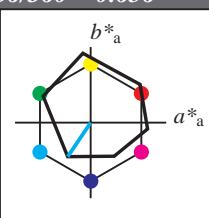
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 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

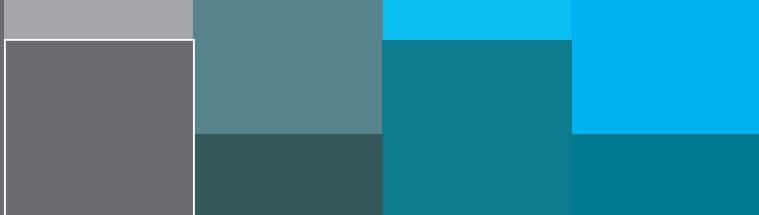
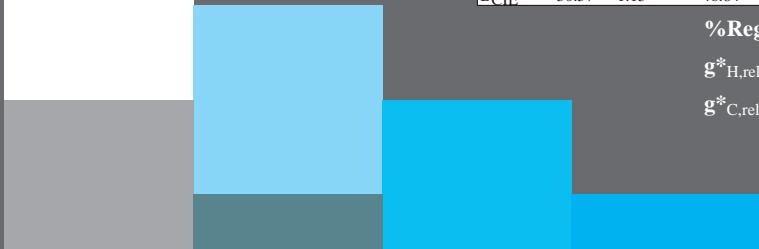
triangle lightness



%Regularity

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

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



$n^* = 0,50$

$n^* = 0,25$

blackness n^*

$n^* = 0,00$

chromaticness c^*

$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 236/360 = 0.656 (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 $h^* = lab^*h = 218/360 = 0.605$

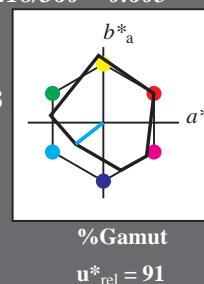
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 218

rgb*Ma: 0.0 1.0 1.0

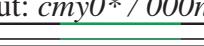
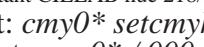
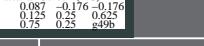
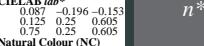
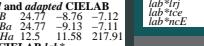
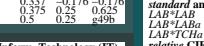
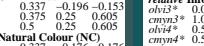
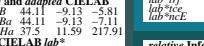
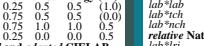
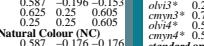
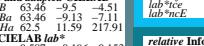
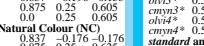
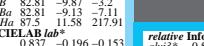
triangle lightness



%Regularity

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

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



5 step scales for constant CIELAB hue 218/360 = 0.605 (right)

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

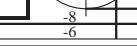


$n^* = 0,00$

blackness n^*

$n^* = 0,25$

chromaticness c^*



$n^* = 0,50$

blackness n^*

$n^* = 1,00$

chromaticness c^*



See for similar files: <http://www.ps.bam.de/UE40/>

Technical information: <http://www.ps.bam.de> Version 2.1, io=0, CIEXYZ

Input: Colorimetric Reflective System ORS18

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

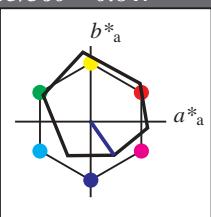
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness



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



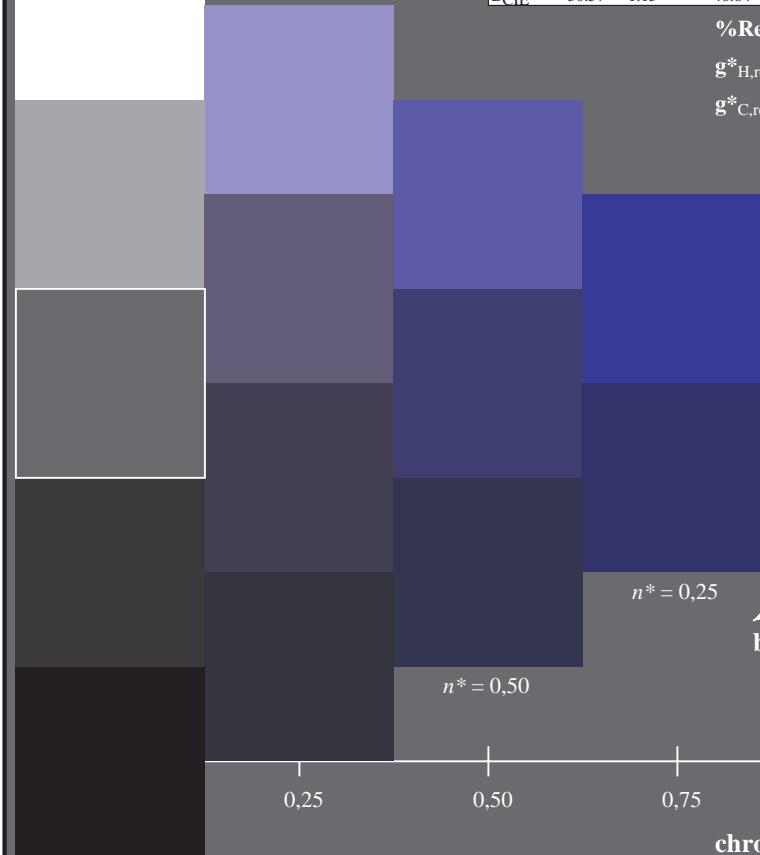
ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.37	50.52	82.62	38
Y _{Ma}	90.37	-10.27	91.77	92.34	96
L _{Ma}	50.9	-62.79	34.95	71.87	151
C _{Ma}	58.62	-30.35	-45.01	54.3	236
V _{Ma}	25.71	31.11	-44.42	54.24	305
M _{Ma}	48.13	75.27	-8.35	75.73	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.56	25
J _{CIE}	81.26	-2.17	67.76	67.79	92
G _{CIE}	52.23	-42.26	11.75	43.87	164
B _{CIE}	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 $h^* = lab^*h = 290/360 = 0.806$

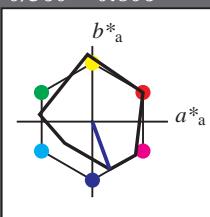
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness



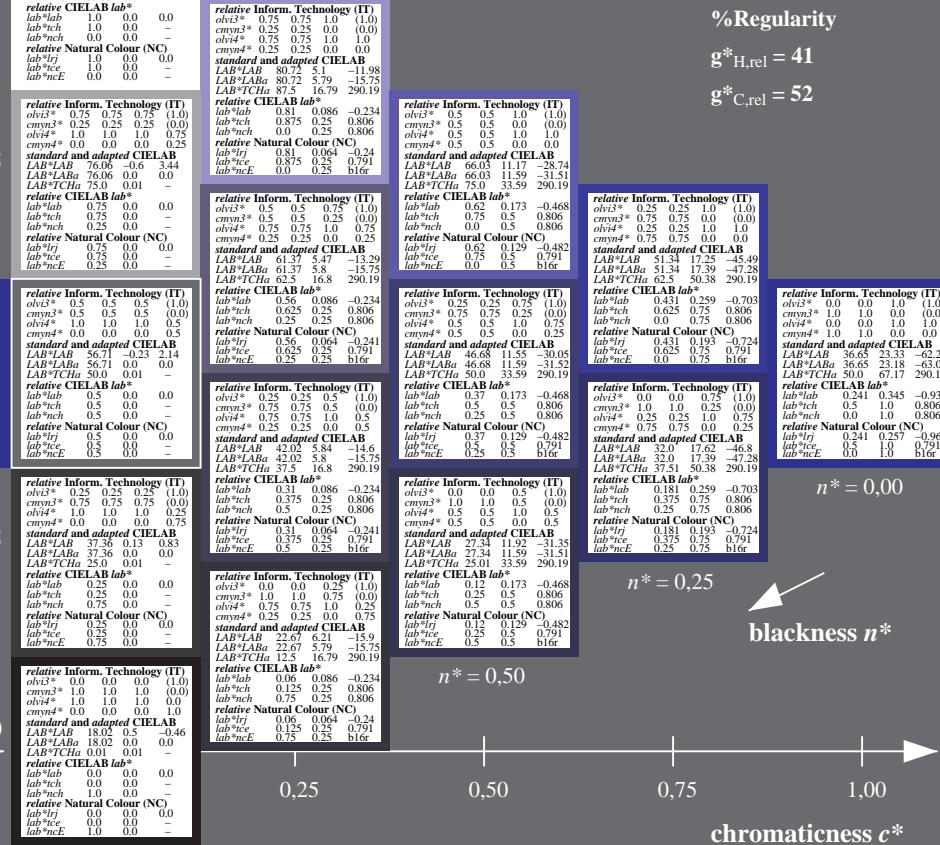
%Gamut
 $u^*_{rel} = 91$



%Regularity

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

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



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



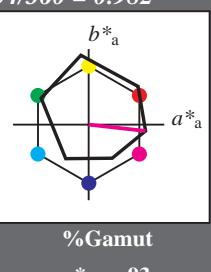
See for similar files: <http://www.ps.bam.de/UE40/>

Technical information: <http://www.ps.bam.de>

Version 2.1, io=0,0, CIEXYZ

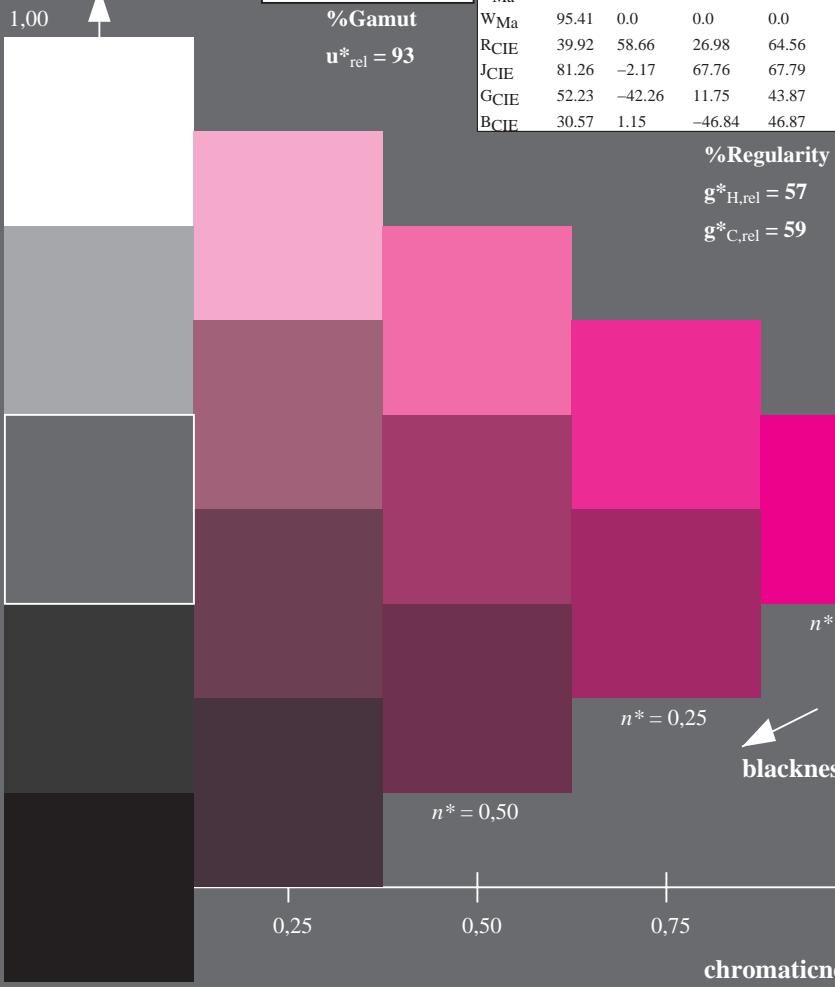
Input: Colorimetric Reflective System ORS18
 for hue $h^* = lab^*h = 354/360 = 0.982$
 lab^*tch and lab^*nch

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



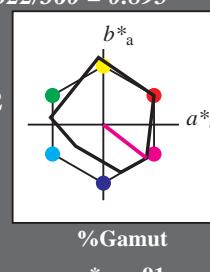
%Gamut
 $u^*_{rel} = 93$

	$L^*=L^*_a$	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



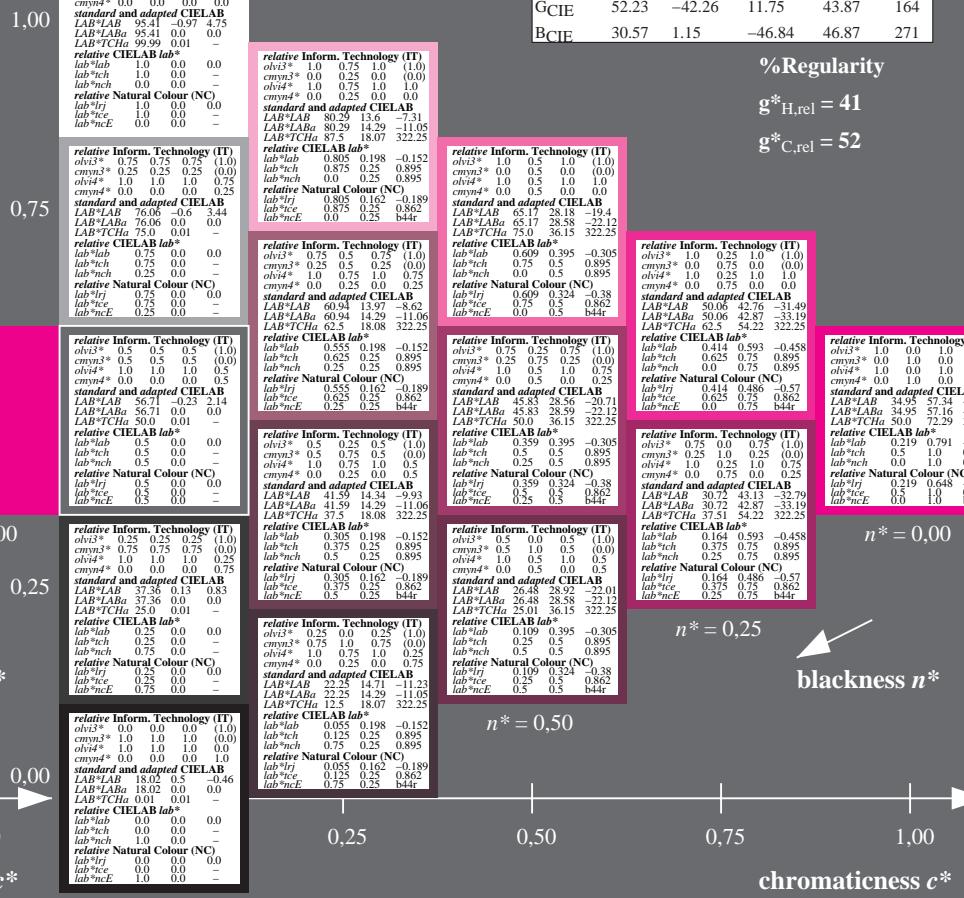
Output: Colorimetric Reflective System MRS18
 for hue $h^* = lab^*h = 322/360 = 0.895$
 lab^*tch and lab^*nch

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



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

	$L^*=L^*_a$	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



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

5 step scales for constant CIELAB hue 322/360 = 0.895 (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: $cmy0^* / 000n^* \text{ setcmykcolor}$

See for similar files: <http://www.ps.bam.de/UE40/>

Technical information: <http://www.ps.bam.de> Version 2.1, io=0, CIEXYZ

Input: Colorimetric Reflective System ORS18

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

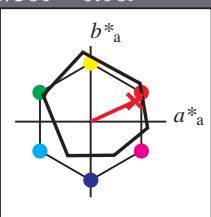
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness



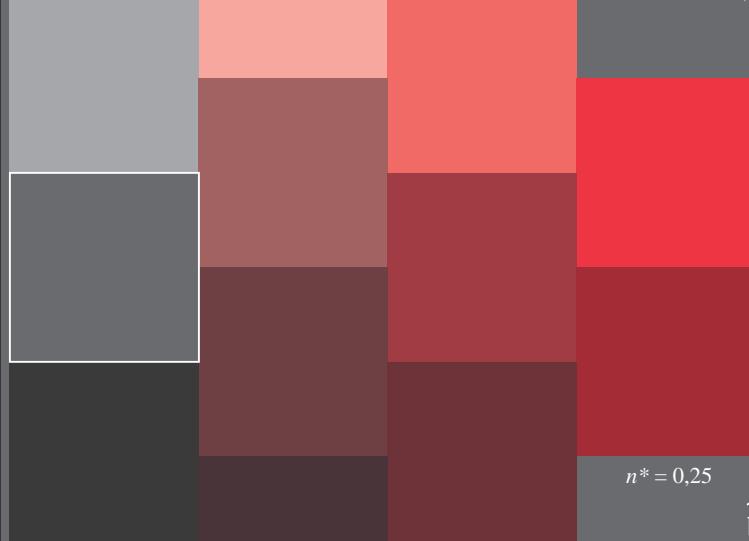
ORS18; adapted (a) CIELAB data

	$L^*=L_a^*$	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

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

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



$n^* = 1,0$

UE400-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (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 $h^* = lab^*h = 25/360 = 0.069$

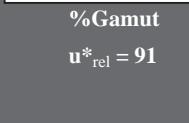
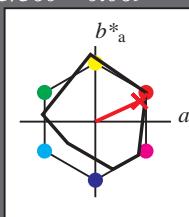
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

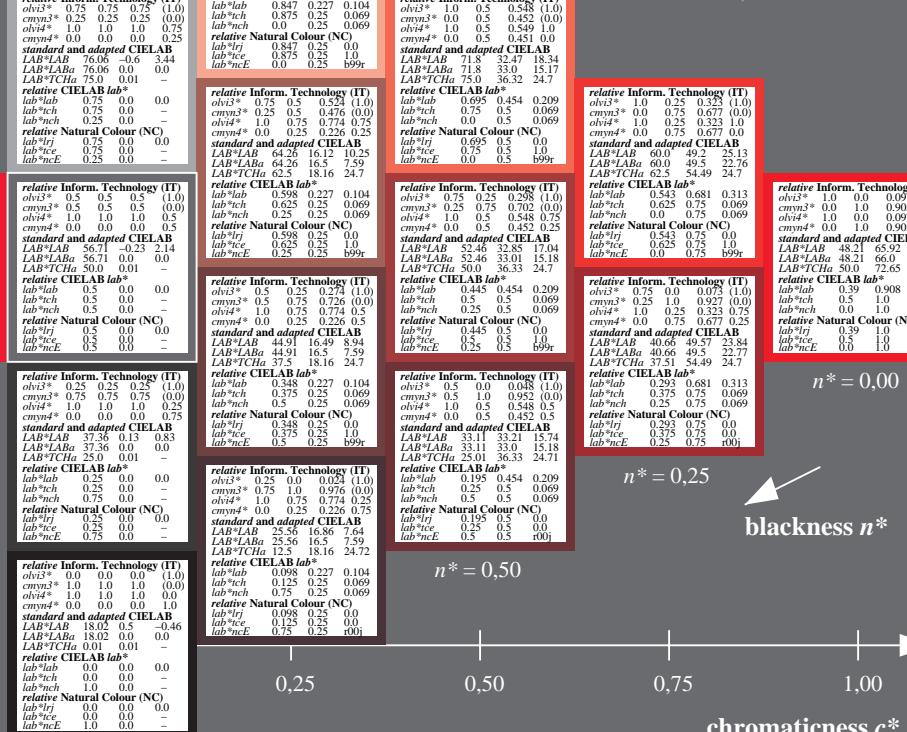
triangle lightness



%Regularity

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

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



$n^* = 1,0$

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

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

See for similar files: <http://www.ps.bam.de/UE40/>
 Technical information: <http://www.ps.bam.de>

Version 2.1, io=0,0, CIEXYZ

Input: Colorimetric Reflective System ORS18

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

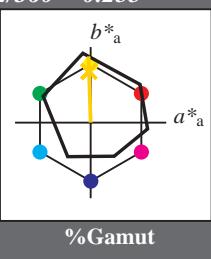
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness



ORS18; adapted (a) CIELAB data

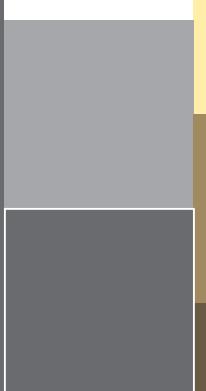
	$L^*=L_a^*$	a^*_a	b^*_a	$C_{ab,a}^*$	$h_{ab,a}^*$
O _{Ma}	47.94	65.37	50.52	82.62	38
Y _{Ma}	90.37	-10.27	91.77	92.34	96
L _{Ma}	50.9	-62.79	34.95	71.87	151
C _{Ma}	58.62	-30.35	-45.01	54.3	236
V _{Ma}	25.71	31.11	-44.42	54.24	305
M _{Ma}	48.13	75.27	-8.35	75.73	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.56	25
J _{CIE}	81.26	-2.17	67.76	67.79	92
G _{CIE}	52.23	-42.26	11.75	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.87	271

1,00



%Gamut

$u^*_{rel} = 93$



%Regularity

$g^*_{H,rel} = 57$
 $g^*_{C,rel} = 59$

relative Inform. Technology (IT)
 $oliv3^*$ 1.0 1.0 1.0 (1.0)
 $cmy3^*$ 0.0 0.0 0.0 (0.0)
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.0
 standard and adapted CIELAB
 LAB^*LAB 93.75 -0.69 47.75
 LAB^*TCh 95.41 -0.00
 LAB^*TCh 99.99 0.01

relative CIELAB lab*
 lab^*tch 1.0 0.0 0.0
 lab^*nch 1.0 0.0 0.0
 lab^*lrc 1.0 0.0 0.0
 lab^*nre 0.0 0.0 0.0

relative Inform. Technology (II)
 $oliv3^*$ 0.75 0.75 0.75 (1.0)
 $cmy3^*$ 0.25 0.25 0.25
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 76.06 -0.6 3.44
 LAB^*TCh 76.06 0.0 0.0
 relative CIELAB lab*
 lab^*tch 0.75 0.0 0.0
 lab^*nch 0.75 0.0 0.0
 lab^*lrc 0.75 0.0 0.0
 lab^*nre 0.25 0.0 0.0

relative Inform. Technology (III)
 $oliv3^*$ 0.5 0.5 0.5 (1.0)
 $cmy3^*$ 0.5 0.5 0.5
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 56.71 0.23 2.14
 LAB^*TCh 56.71 0.0 0.0
 relative CIELAB lab*
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 0.0
 lab^*lrc 0.5 0.0 0.0
 lab^*nre 0.25 0.0 0.0

relative Inform. Technology (IV)
 $oliv3^*$ 0.5 0.5 0.5 (1.0)
 $cmy3^*$ 0.5 0.5 0.5
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 37.36 0.13 0.83
 LAB^*TCh 37.36 0.0 0.0
 relative CIELAB lab*
 lab^*tch 0.25 0.0 0.0
 lab^*nch 0.25 0.0 0.0
 lab^*lrc 0.25 0.0 0.0
 lab^*nre 0.12 0.0 0.0

relative Inform. Technology (V)
 $oliv3^*$ 0.5 0.5 0.5 (1.0)
 $cmy3^*$ 0.5 0.5 0.5
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 18.02 0.5 -0.46
 LAB^*TCh 0.01 0.0 0.0
 relative CIELAB lab*
 lab^*tch 0.0 0.0 0.0
 lab^*nch 0.0 0.0 0.0
 lab^*lrc 0.0 0.0 0.0
 lab^*nre 0.0 0.0 0.0

relative Inform. Technology (VI)
 $oliv3^*$ 0.5 0.5 0.5 (1.0)
 $cmy3^*$ 0.5 0.5 0.5
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 53.35 -0.68 45.05
 LAB^*TCh 55.03 -0.68 21.56
 LAB^*TCh 62.5 21.58 91.84
 relative CIELAB lab*
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 0.0
 lab^*lrc 0.5 0.0 0.0
 lab^*nre 0.25 0.0 0.0

relative Inform. Technology (VII)
 $oliv3^*$ 0.5 0.5 0.5 (1.0)
 $cmy3^*$ 0.5 0.5 0.5
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 72.7 -1.92 46.37
 LAB^*TCh 72.7 0.0 0.0
 relative CIELAB lab*
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 0.0
 lab^*lrc 0.5 0.0 0.0
 lab^*nre 0.25 0.0 0.0

relative Inform. Technology (VIII)
 $oliv3^*$ 0.5 0.5 0.5 (1.0)
 $cmy3^*$ 0.5 0.5 0.5
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 74.38 -1.26 24.91
 LAB^*TCh 74.38 -0.68 21.57
 LAB^*TCh 80.56 -0.68 91.84
 relative CIELAB lab*
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 0.0
 lab^*lrc 0.5 0.0 0.0
 lab^*nre 0.25 0.0 0.0

relative Inform. Technology (IX)
 $oliv3^*$ 0.5 0.5 0.5 (1.0)
 $cmy3^*$ 0.5 0.5 0.5
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 53.35 -0.68 45.05
 LAB^*TCh 55.03 -0.68 21.56
 LAB^*TCh 62.5 21.58 91.84
 relative CIELAB lab*
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 0.0
 lab^*lrc 0.5 0.0 0.0
 lab^*nre 0.25 0.0 0.0

relative Inform. Technology (X)
 $oliv3^*$ 0.5 0.5 0.5 (1.0)
 $cmy3^*$ 0.5 0.5 0.5
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 53.35 -0.68 45.05
 LAB^*TCh 55.03 -0.68 21.56
 LAB^*TCh 62.5 21.58 91.84
 relative CIELAB lab*
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 0.0
 lab^*lrc 0.5 0.0 0.0
 lab^*nre 0.25 0.0 0.0

relative Inform. Technology (XI)
 $oliv3^*$ 0.5 0.5 0.5 (1.0)
 $cmy3^*$ 0.5 0.5 0.5
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 53.35 -0.68 45.05
 LAB^*TCh 55.03 -0.68 21.56
 LAB^*TCh 62.5 21.58 91.84
 relative CIELAB lab*
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 0.0
 lab^*lrc 0.5 0.0 0.0
 lab^*nre 0.25 0.0 0.0

relative Inform. Technology (XII)
 $oliv3^*$ 0.5 0.5 0.5 (1.0)
 $cmy3^*$ 0.5 0.5 0.5
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 53.35 -0.68 45.05
 LAB^*TCh 55.03 -0.68 21.56
 LAB^*TCh 62.5 21.58 91.84
 relative CIELAB lab*
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 0.0
 lab^*lrc 0.5 0.0 0.0
 lab^*nre 0.25 0.0 0.0

relative Inform. Technology (XIII)
 $oliv3^*$ 0.5 0.5 0.5 (1.0)
 $cmy3^*$ 0.5 0.5 0.5
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 53.35 -0.68 45.05
 LAB^*TCh 55.03 -0.68 21.56
 LAB^*TCh 62.5 21.58 91.84
 relative CIELAB lab*
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 0.0
 lab^*lrc 0.5 0.0 0.0
 lab^*nre 0.25 0.0 0.0

relative Inform. Technology (XIV)
 $oliv3^*$ 0.5 0.5 0.5 (1.0)
 $cmy3^*$ 0.5 0.5 0.5
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 53.35 -0.68 45.05
 LAB^*TCh 55.03 -0.68 21.56
 LAB^*TCh 62.5 21.58 91.84
 relative CIELAB lab*
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 0.0
 lab^*lrc 0.5 0.0 0.0
 lab^*nre 0.25 0.0 0.0

relative Inform. Technology (XV)
 $oliv3^*$ 0.5 0.5 0.5 (1.0)
 $cmy3^*$ 0.5 0.5 0.5
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 53.35 -0.68 45.05
 LAB^*TCh 55.03 -0.68 21.56
 LAB^*TCh 62.5 21.58 91.84
 relative CIELAB lab*
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 0.0
 lab^*lrc 0.5 0.0 0.0
 lab^*nre 0.25 0.0 0.0

relative Inform. Technology (XVI)
 $oliv3^*$ 0.5 0.5 0.5 (1.0)
 $cmy3^*$ 0.5 0.5 0.5
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 53.35 -0.68 45.05
 LAB^*TCh 55.03 -0.68 21.56
 LAB^*TCh 62.5 21.58 91.84
 relative CIELAB lab*
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 0.0
 lab^*lrc 0.5 0.0 0.0
 lab^*nre 0.25 0.0 0.0

relative Inform. Technology (XVII)
 $oliv3^*$ 0.5 0.5 0.5 (1.0)
 $cmy3^*$ 0.5 0.5 0.5
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 53.35 -0.68 45.05
 LAB^*TCh 55.03 -0.68 21.56
 LAB^*TCh 62.5 21.58 91.84
 relative CIELAB lab*
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 0.0
 lab^*lrc 0.5 0.0 0.0
 lab^*nre 0.25 0.0 0.0

relative Inform. Technology (XVIII)
 $oliv3^*$ 0.5 0.5 0.5 (1.0)
 $cmy3^*$ 0.5 0.5 0.5
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 53.35 -0.68 45.05
 LAB^*TCh 55.03 -0.68 21.56
 LAB^*TCh 62.5 21.58 91.84
 relative CIELAB lab*
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 0.0
 lab^*lrc 0.5 0.0 0.0
 lab^*nre 0.25 0.0 0.0

relative Inform. Technology (XIX)
 $oliv3^*$ 0.5 0.5 0.5 (1.0)
 $cmy3^*$ 0.5 0.5 0.5
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 53.35 -0.68 45.05
 LAB^*TCh 55.03 -0.68 21.56
 LAB^*TCh 62.5 21.58 91.84
 relative CIELAB lab*
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 0.0
 lab^*lrc 0.5 0.0 0.0
 lab^*nre 0.25 0.0 0.0

relative Inform. Technology (XX)
 $oliv3^*$ 0.5 0.5 0.5 (1.0)
 $cmy3^*$ 0.5 0.5 0.5
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 53.35 -0.68 45.05
 LAB^*TCh 55.03 -0.68 21.56
 LAB^*TCh 62.5 21.58 91.84
 relative CIELAB lab*
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 0.0
 lab^*lrc 0.5 0.0 0.0
 lab^*nre 0.25 0.0 0.0

relative Inform. Technology (XXI)
 $oliv3^*$ 0.5 0.5 0.5 (1.0)
 $cmy3^*$ 0.5 0.5 0.5
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 53.35 -0.68 45.05
 LAB^*TCh 55.03 -0.68 21.56
 LAB^*TCh 62.5 21.58 91.84
 relative CIELAB lab*
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 0.0
 lab^*lrc 0.5 0.0 0.0
 lab^*nre 0.25 0.0 0.0

relative Inform. Technology (XXII)
 $oliv3^*$ 0.5 0.5 0.5 (1.0)
 $cmy3^*$ 0.5 0.5 0.5
 $oliv4^*$ 1.0 1.0 1.0
 $cmy4^*$ 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB^*LAB 53.35 -0.68 45.05
 LAB^*TCh 55.03 -0.68 21.56
 LAB^*TCh 62.5 21.58 91.84
 relative CIELAB lab*
 lab^*tch 0.5 0.0 0.0
 lab^*nch 0.5 0.0 0.0
 lab^*lrc 0.5 0.0 0.0
 lab^*nre 0.25 0.0 0.0

Output: Colorimetric Reflective System MRS18

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

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 86 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness



%Gamut

$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data

	$L^*=L_a^*$	a^*_a	b^*_a	$C_{ab,a}^*$	$h_{ab,a}^*$
R _{Ma}	49.63	66.96	38.37	77.18	30
J _{Ma}	90.7	-6.36	88.75	88.98	94
G _{Ma}	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
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.56	25
J _{CIE}	81.26	-2.17	67.76	67.79	92
G _{CIE}	52.23	-42.26	11.75	43.87	1

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

See for similar files: <http://www.ps.bam.de/UE40/>

Technical information: <http://www.ps.bam.de>

Version 2.1, io=0,0, CIEXYZ

Input: Colorimetric Reflective System ORS18

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

lab^*tch and lab^*nch

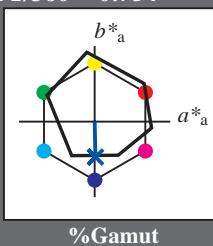
D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness

1,00



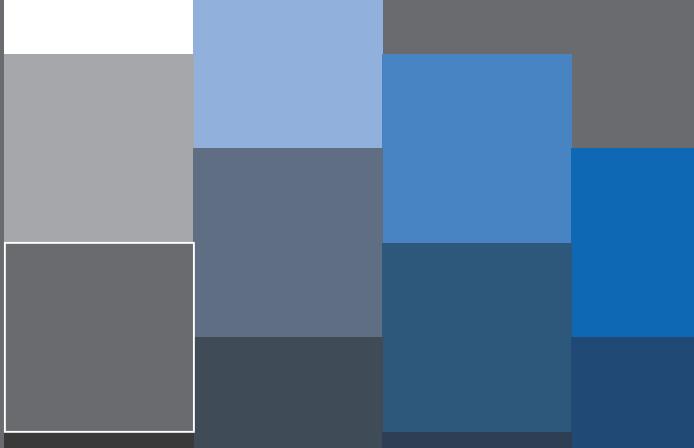
ORS18; adapted (a) CIELAB data

	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.37	50.52	82.62	38
Y _{Ma}	90.37	-10.27	91.77	92.34	96
L _{Ma}	50.9	-62.79	34.95	71.87	151
C _{Ma}	58.62	-30.35	-45.01	54.3	236
V _{Ma}	25.71	31.11	-44.42	54.24	305
M _{Ma}	48.13	75.27	-8.35	75.73	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.56	25
J _{CIE}	81.26	-2.17	67.76	67.79	92
G _{CIE}	52.23	-42.26	11.75	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.87	271

%Regularity

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

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



$n^* = 0,50$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

UE400-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (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 $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

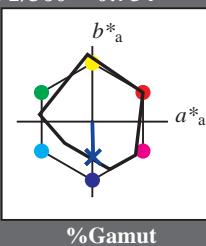
D65: hue B

LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

triangle lightness

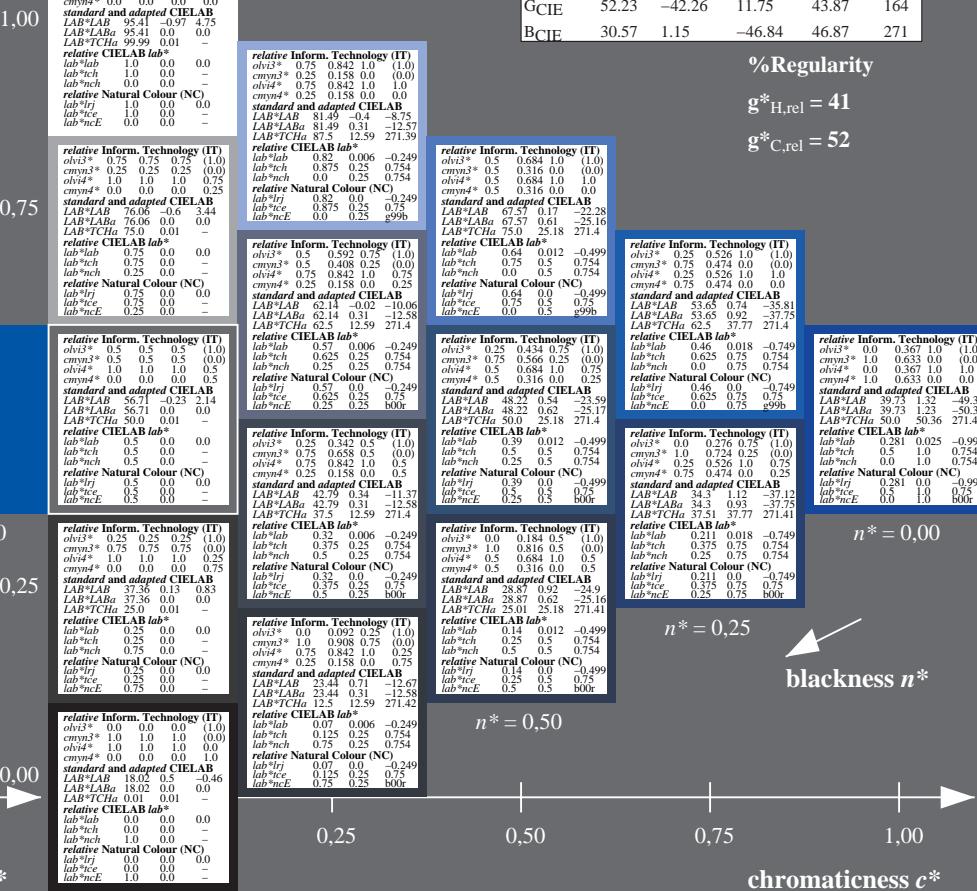
1,00



%Regularity

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

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



$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness c^*

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

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