



See for similar files: <http://www.ps.bam.de/UE42/>

Technical information: <http://www.ps.bam.de> Version 2.1, io=01, CIEXYZ

Input: Colorimetric Reflective System ORS18

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

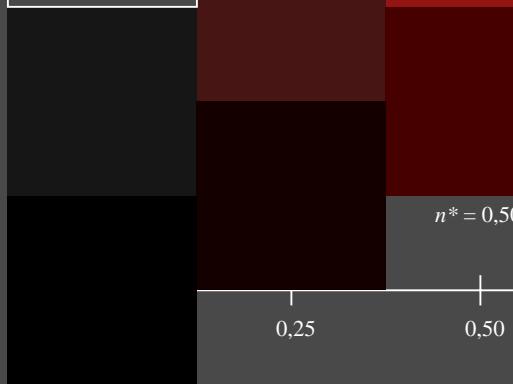
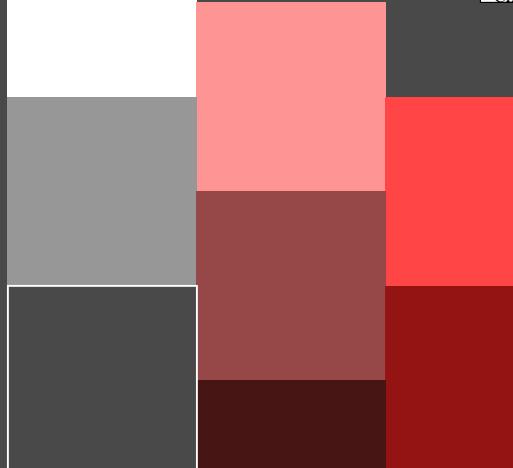
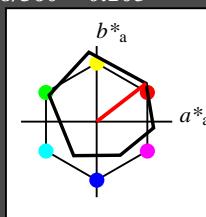
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness



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

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 24/360 = 0.067$

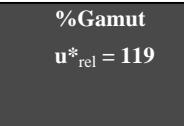
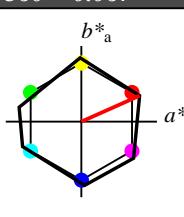
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 84 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.69	27.98	65.01	25
J _{CIE}	81.26	-2.9	71.56	71.62	92
G _{CIE}	52.23	-42.45	13.59	44.59	162
B _{CIE}	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

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

%Regularity

$g^*_{H,rel} = 204$

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

%Regularity

$g^*_{H,rel} = 24.01$

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

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

5 step scales for constant CIELAB hue 24/360 = 0.067 (right)

input: $cmy0^* setcmykcolor$
 output: $olv^* setrgbcolor / w^* setgray$

$n^* = 1,0$

0,00

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

chromaticness c^*

$n^* = 1,0$

0,00

$n^* = 0,50$

$n^* = 0,25$

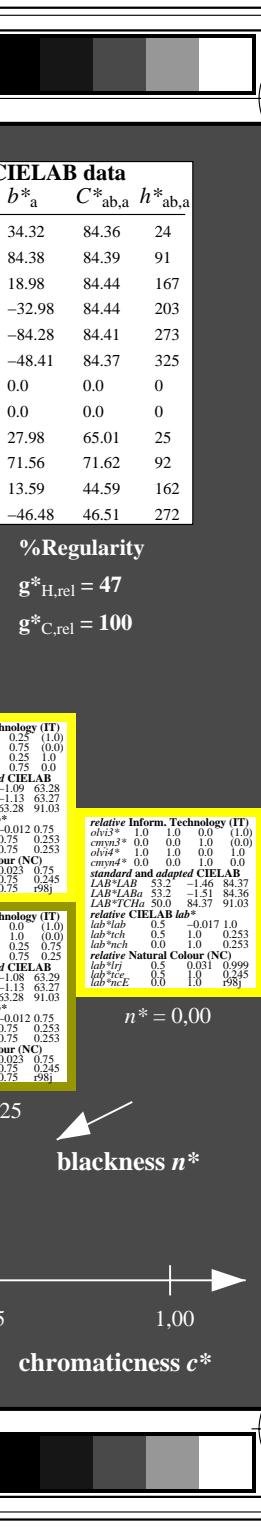
$n^* = 0,00$

chromaticness c^*

UE40-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

BAM-test chart UE42; Colorimetric systems ORS18 & NRS11
 D65: 5 step colour scales and coordinate data for 10 hues





Input: Colorimetric Reflective System ORS18

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

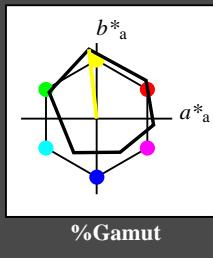
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 90 92 96

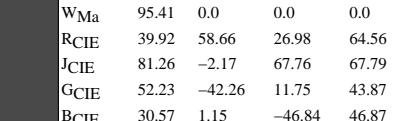
rgb*Ma: 1.0 1.0 0.0

triangle lightness



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



Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 91/360 = 0.253$

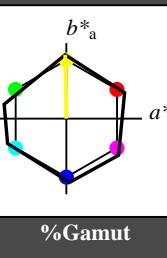
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 53 84 91

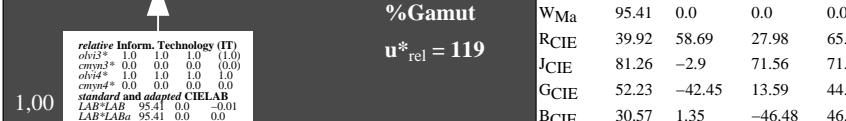
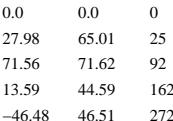
rgb*Ma: 1.0 1.0 0.0

triangle lightness



NRS11; adapted (a) CIELAB data

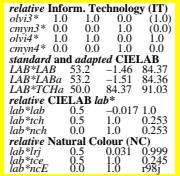
	$L^*=L_a^*$	a^*_a	b^*_a	$C_{ab,a}^*$	$h_{ab,a}^*$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.69	27.98	65.01	25
J _{CIE}	81.26	-2.9	71.56	71.62	92
G _{CIE}	52.23	-42.45	13.59	44.59	162
B _{CIE}	30.57	1.35	-46.48	46.51	272



%Regularity

$g^*_{H,rel} = 47$

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

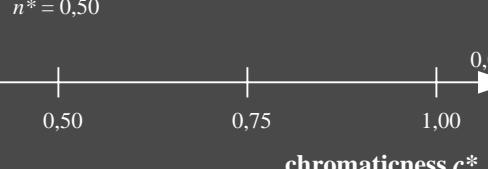


n* = 0,00



n* = 0,25

chromaticness c*



n* = 1,0

5 step scales for constant CIELAB hue 91/360 = 0.253 (right)

n* = 1,0

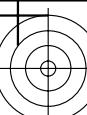
UE420-7, 5 step scales for constant CIELAB hue 96/360 = 0.268 (left)

BAM-test chart UE42; Colorimetric systems ORS18 & NRS11

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

input: cmy0* setcmykcolor

output: olv* setrgbcolor / w* setgray



Input: Colorimetric Reflective System ORS18

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

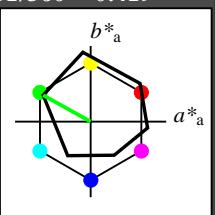
lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness



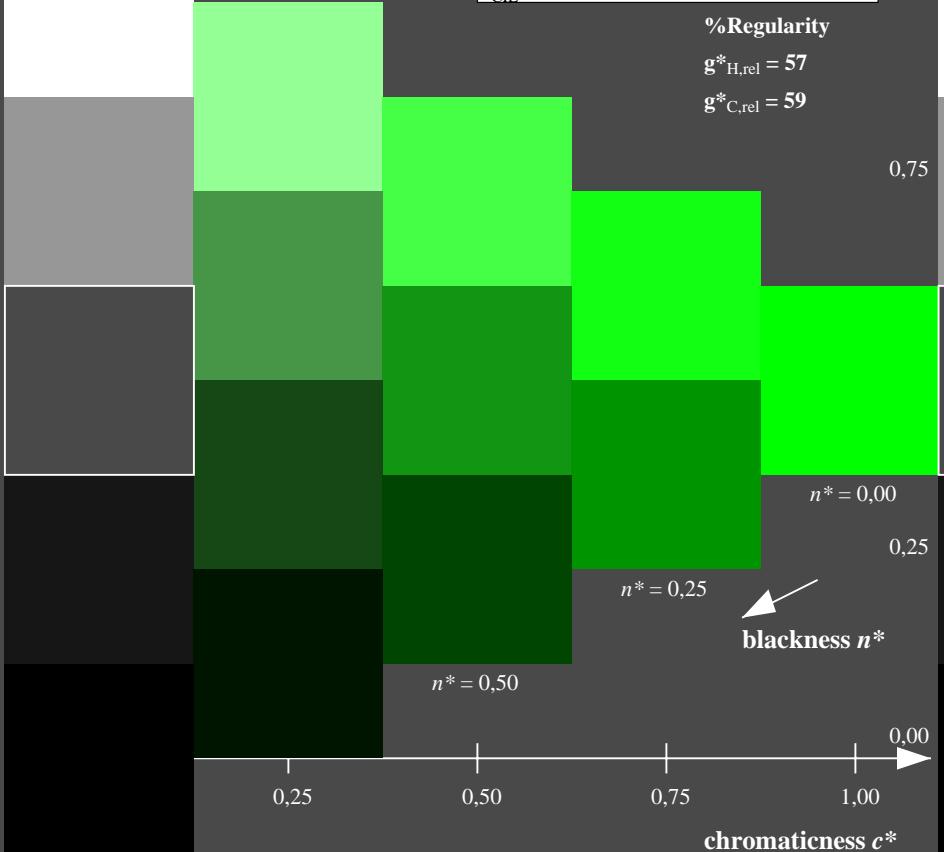
ORS18; adapted (a) CIELAB data

	$L^*=L_a^*$	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 NRS11

for hue $h^* = lab^*h = 167/360 = 0.464$

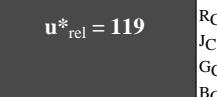
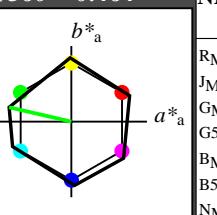
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 84 167

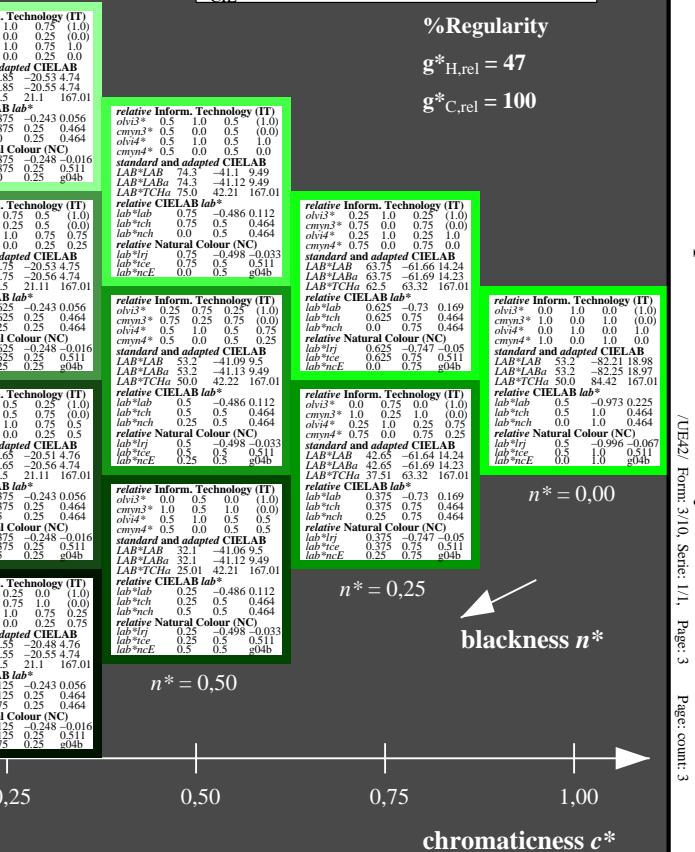
rgb*Ma: 0.0 1.0 0.0

triangle lightness



%Regularity

$g^*_{H,rel} = 47$
 $g^*_{C,rel} = 100$



See for similar files: <http://www.ps.bam.de/UE42/>

Technical information: <http://www.ps.bam.de> Version 2.1, io=01, CIEXYZ



Input: Colorimetric Reflective System ORS18

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

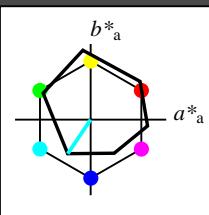
lab^*tch and lab^*nch

D65: hue C

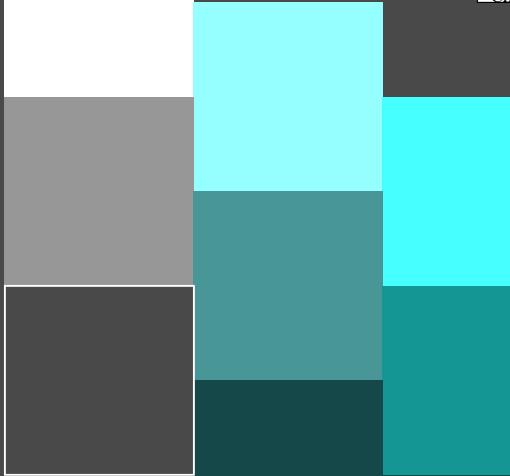
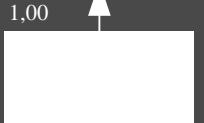
LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness



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



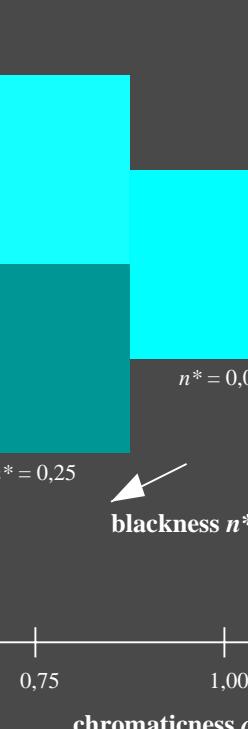
ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	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

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

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



Output: Colorimetric Reflective System NRS11

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

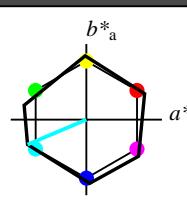
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness



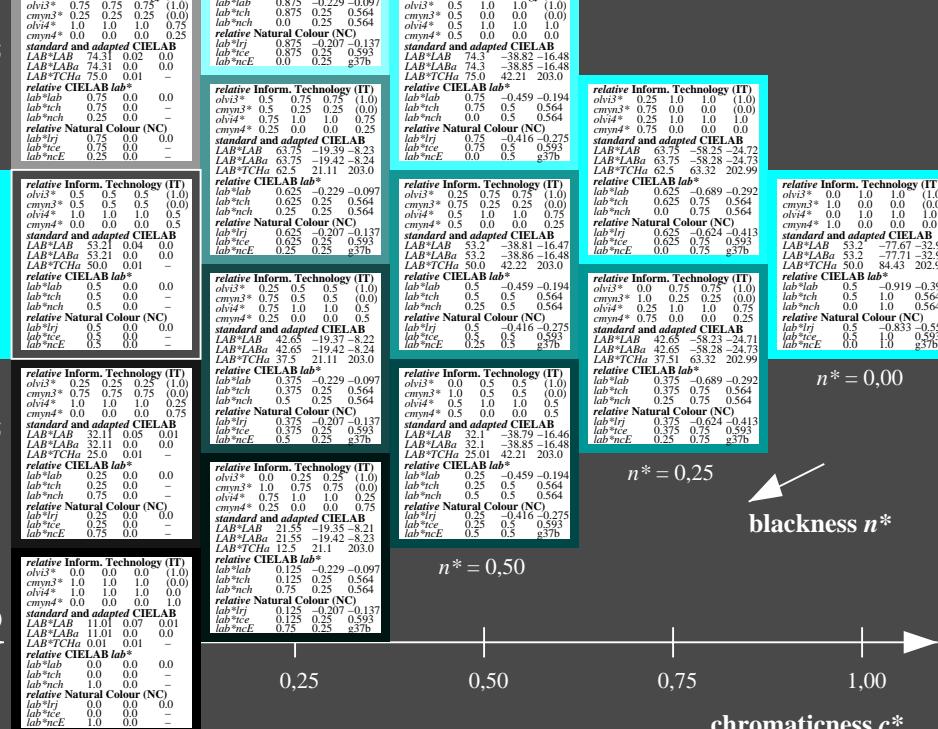
%Gamut
 $u^*_{rel} = 119$



%Regularity

$g^*_{H,rel} = 47$

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



$n^* = 1,0$

UE420-7, 5 step scales for constant CIELAB hue 236/360 = 0.656 (left)

BAM-test chart UE42; Colorimetric systems ORS18 & NRS11
 D65: 5 step colour scales and coordinate data for 10 hues

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

input: $cmy0^* setcmykcolor$
 output: $olv^* setrgbcolor / w^* setgray$



Input: Colorimetric Reflective System ORS18

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

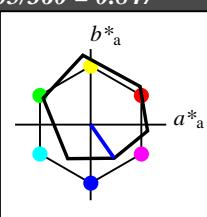
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 1.0

triangle lightness



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

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

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

1,00

0,75

n* = 0,00

0,25

n* = 0,25

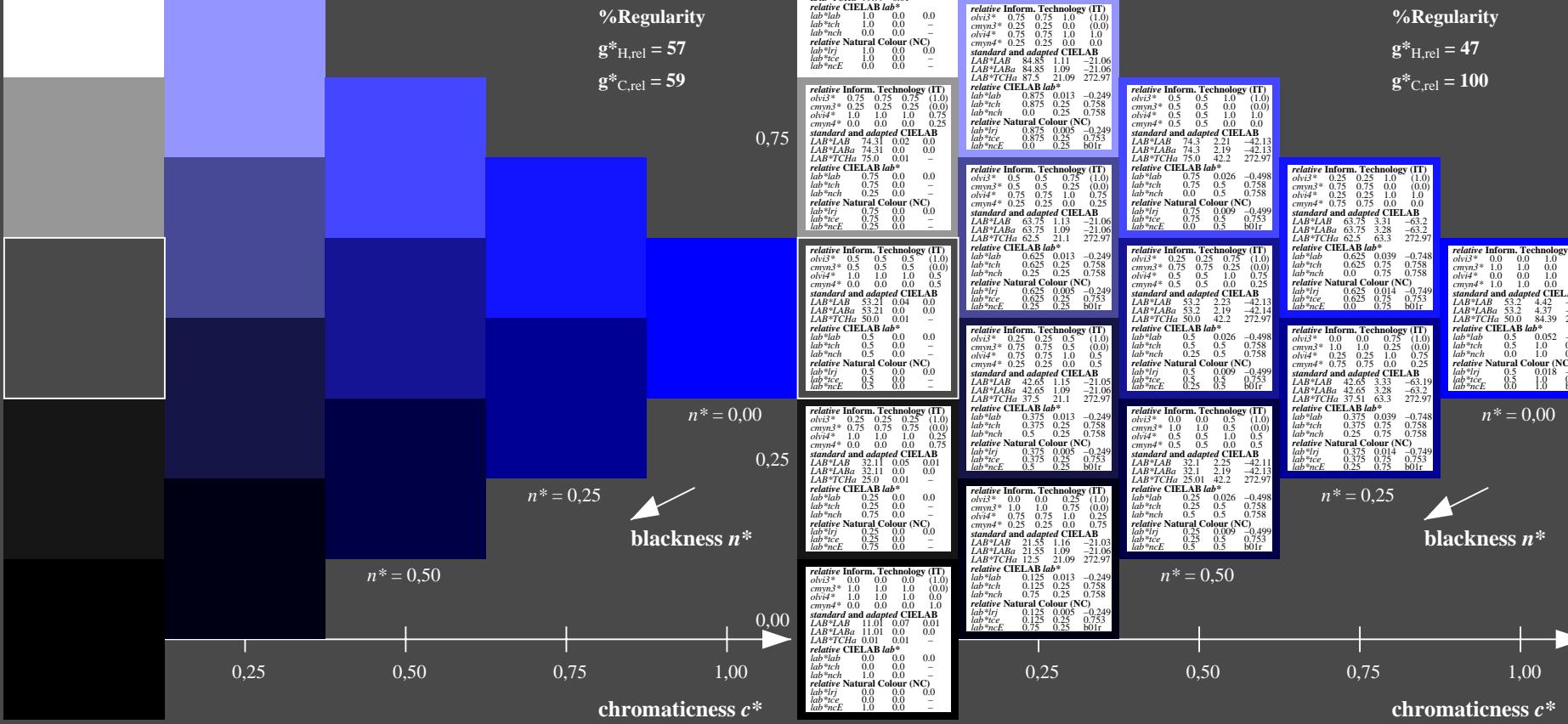
0,50

n* = 1,00

blackness n*

chromaticness c*

n* = 1,0



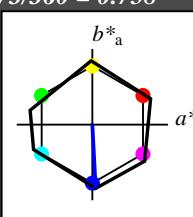
UE420-7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

BAM-test chart UE42; Colorimetric systems ORS18 & NRS11
D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 273/360 = 0.758$

lab^*tch and lab^*nch



NRS11; adapted (a) CIELAB data

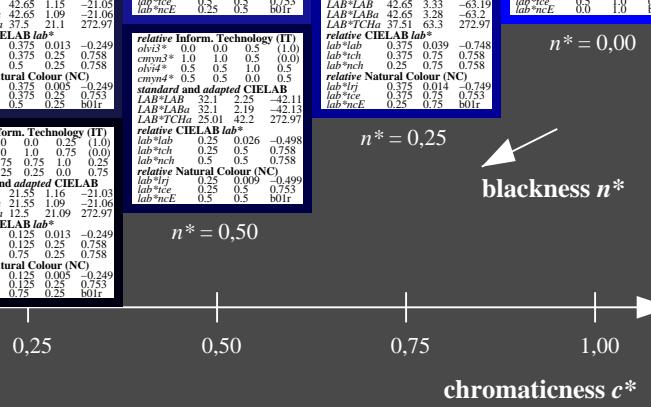
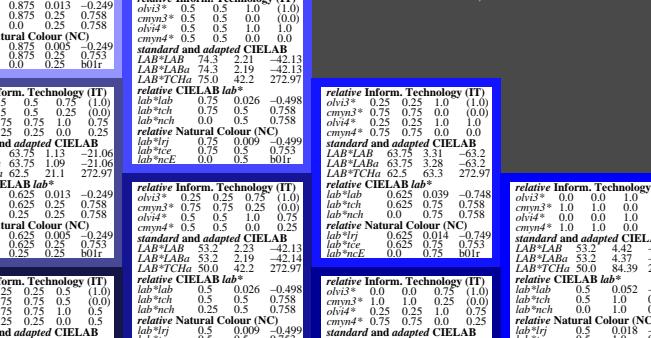
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.69	27.98	65.01	25
J _{CIE}	81.26	-2.9	71.56	71.62	92
G _{CIE}	52.23	-42.45	13.59	44.59	162
B _{CIE}	30.57	1.35	-46.48	46.51	272



%Regularity

$g^*_{H,rel} = 47$

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



5 step scales for constant CIELAB hue 273/360 = 0.758 (right)

input: cmy0* setcmykcolor
output: olv* setrgbcolor / w* setgray



See for similar files: <http://www.ps.bam.de/UE42/>
Technical information: <http://www.ps.bam.de>

Version 2.1, io=01, CIEXYZ

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

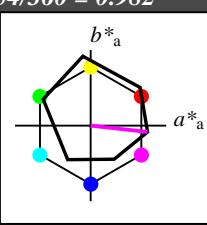
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness



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



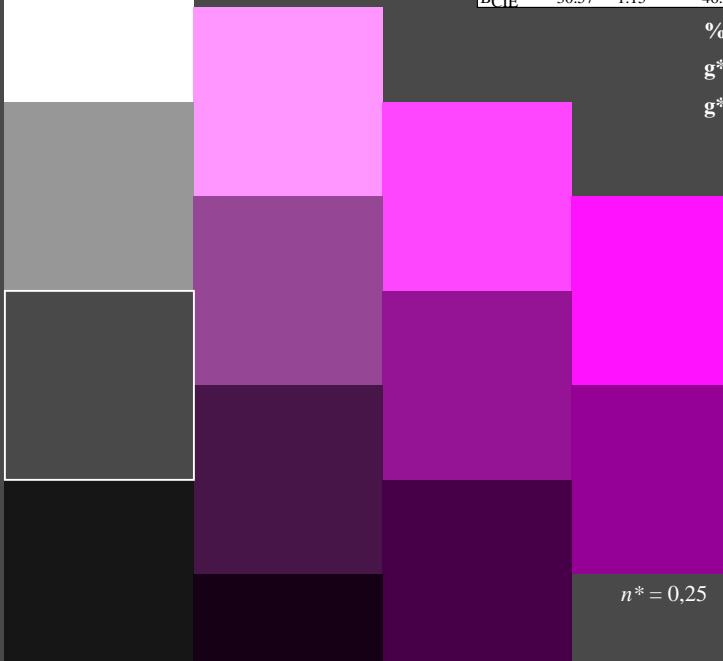
%Gamut

$u^*_{rel} = 93$

%Regularity

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

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



$n^* = 0,50$

$n^* = 0,25$

blackness n^*

chromaticness c^*

$n^* = 1,0$

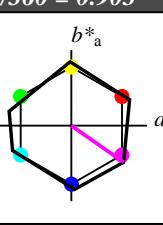
UE420-7, 5 step scales for constant CIELAB hue 354/360 = 0.982 (left)

BAM-test chart UE42; Colorimetric systems ORS18 & NRS11
D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Reflective System NRS11

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

lab^*tch and lab^*nch



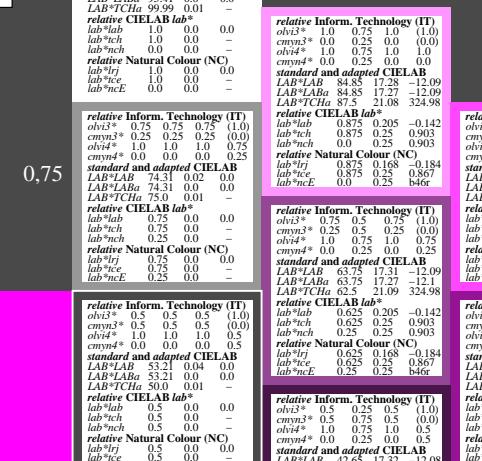
%Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

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



$n^* = 0,00$

$n^* = 0,25$

blackness n^*

chromaticness c^*

$n^* = 1,0$

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

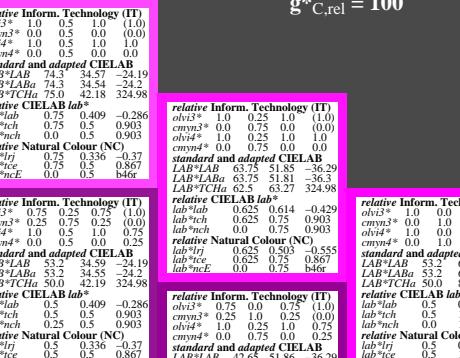
input: $cmy0^* setcmykcolor$
output: $olv^* setrgbcolor / w^* setgray$

	$L^*=L_a^*$	a^*_a	b^*_a	$C_{ab,a}^*$	$h_{ab,a}^*$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.69	27.98	65.01	25
J _{CIE}	81.26	-2.17	71.56	71.62	92
G _{CIE}	52.23	-42.26	13.59	44.59	162
B _{CIE}	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

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



$n^* = 0,00$

$n^* = 0,25$

blackness n^*

chromaticness c^*

$n^* = 1,0$

$n^* = 0,00$

blackness n^*

chromaticness c^*

$n^* = 1,0$

input: $cmy0^* setcmykcolor$
output: $olv^* setrgbcolor / w^* setgray$

$n^* = 0,00$

$n^* = 0,25$

blackness n^*

chromaticness c^*

$n^* = 1,0$

input: $cmy0^* setcmykcolor$
output: $olv^* setrgbcolor / w^* setgray$

www.ps.bam.de/UE42/10S/S42E06FP.PS/.PDF; linearized output
 F: Output Linearization (OL) data UE42/10S/S42E06FP.DAT in File (F)

See for similar files: <http://www.ps.bam.de/UE42/>
 Technical information: <http://www.ps.bam.de>

Version 2.1, io=01, CIEXYZ

Input: Colorimetric Reflective System ORS18
 for hue $h^* = lab^*h = 25/360 = 0.069$

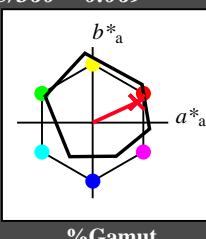
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness



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

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

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

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



Output: Colorimetric Reflective System NRS11

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

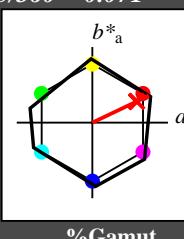
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 83 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness



%Gamut
 $u^*_{rel} = 119$

1,00



NRS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.69	27.98	65.01	25
J _{CIE}	81.26	-2.9	71.56	71.62	92
G _{CIE}	52.23	-42.45	13.59	44.59	162
B _{CIE}	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

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



relative Inform. Technology (IT)
 olv^3* 1.0 0.757 0.75 (1.0)
 $cmy3*$ 0.25 0.495 0.5 (0.0)
 olv^4* 1.0 1.0 0.0
 $cmy4*$ 0.0 0.0 0.0

standard and adapted CIELAB
 LAB^*LAB 0.0 0.0 0.0
 LAB^*Lab 95.41 0.0 0.0
 LAB^*LCh 99.99 0.01 -

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

relative Inform. Technology (IT)
 olv^3* 1.0 0.757 0.75 (1.0)
 $cmy3*$ 0.25 0.495 0.5 (0.0)
 olv^4* 1.0 1.0 0.0
 $cmy4*$ 0.0 0.0 0.0

standard and adapted CIELAB
 LAB^*LAB 74.31 0.02 0.0
 LAB^*Lab 74.31 0.0 0.0
 LAB^*LCh 75.01 0.01 -

relative CIELAB lab^*
 lab^*lab 0.75 0.0 0.0
 lab^*tch 0.75 0.0 0.0
 lab^*nch 0.75 0.0 0.0

relative Inform. Technology (IT)
 olv^3* 0.75 0.507 0.5 (1.0)
 $cmy3*$ 0.25 0.495 0.5 (0.0)
 olv^4* 0.75 0.5 0.0
 $cmy4*$ 0.0 0.243 0.25 (0.0)

standard and adapted CIELAB
 LAB^*LAB 63.75 18.76 8.93
 LAB^*Lab 63.75 18.76 8.93
 LAB^*LCh 62.5 20.74 25.49

relative CIELAB lab^*
 lab^*lab 0.625 0.226 0.108
 lab^*tch 0.25 0.25 0.071
 lab^*nch 0.0 0.25 0.071

relative Inform. Technology (IT)
 olv^3* 0.75 0.507 0.5 (1.0)
 $cmy3*$ 0.25 0.495 0.5 (0.0)
 olv^4* 0.75 0.5 0.0
 $cmy4*$ 0.0 0.243 0.25 (0.0)

standard and adapted CIELAB
 LAB^*LAB 53.5 37.49 17.86
 LAB^*Lab 53.5 37.49 17.86
 LAB^*LCh 52.2 37.47 17.86

relative CIELAB lab^*
 lab^*lab 0.625 0.677 0.232
 lab^*tch 0.25 0.75 0.071
 lab^*nch 0.0 0.75 0.071

relative Inform. Technology (IT)
 olv^3* 0.75 0.271 0.25 (1.0)
 $cmy3*$ 0.25 0.271 0.25 (0.0)
 olv^4* 0.75 0.5 0.071
 $cmy4*$ 0.0 0.486 0.25 (0.0)

standard and adapted CIELAB
 LAB^*LAB 53.75 56.16 26.77
 LAB^*Lab 53.75 56.16 26.77
 LAB^*LCh 52.5 56.22 25.49

relative CIELAB lab^*
 lab^*lab 0.625 0.677 0.232
 lab^*tch 0.25 0.75 0.071
 lab^*nch 0.0 0.75 0.071

relative Inform. Technology (IT)
 olv^3* 0.75 0.271 0.25 (1.0)
 $cmy3*$ 0.25 0.271 0.25 (0.0)
 olv^4* 0.75 0.5 0.071
 $cmy4*$ 0.0 0.486 0.25 (0.0)

standard and adapted CIELAB
 LAB^*LAB 53.75 56.16 26.77
 LAB^*Lab 53.75 56.16 26.77
 LAB^*LCh 52.5 56.22 25.49

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

blackness n^*

chromaticness c^*

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

chromaticness c^*

UE420-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

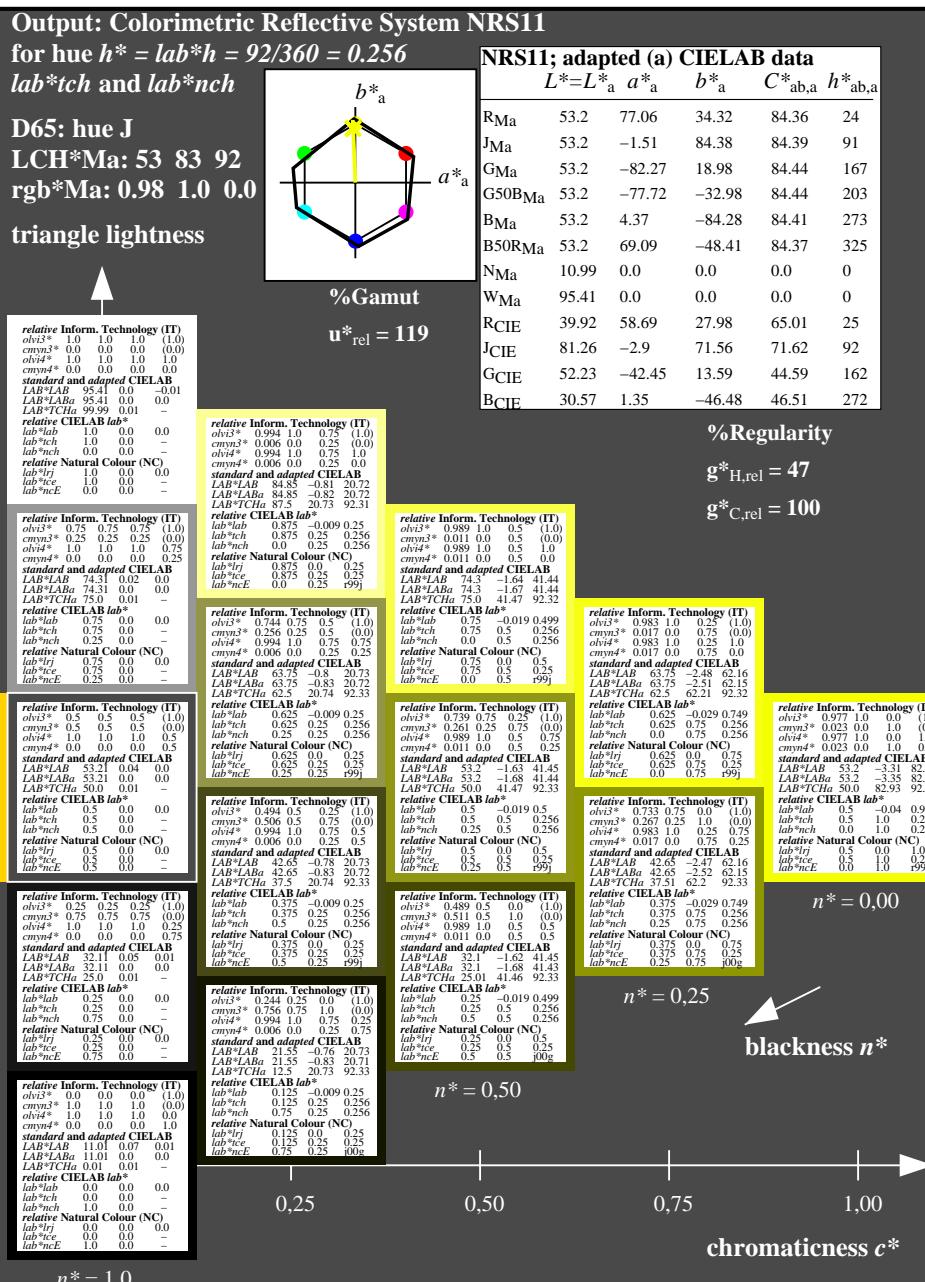
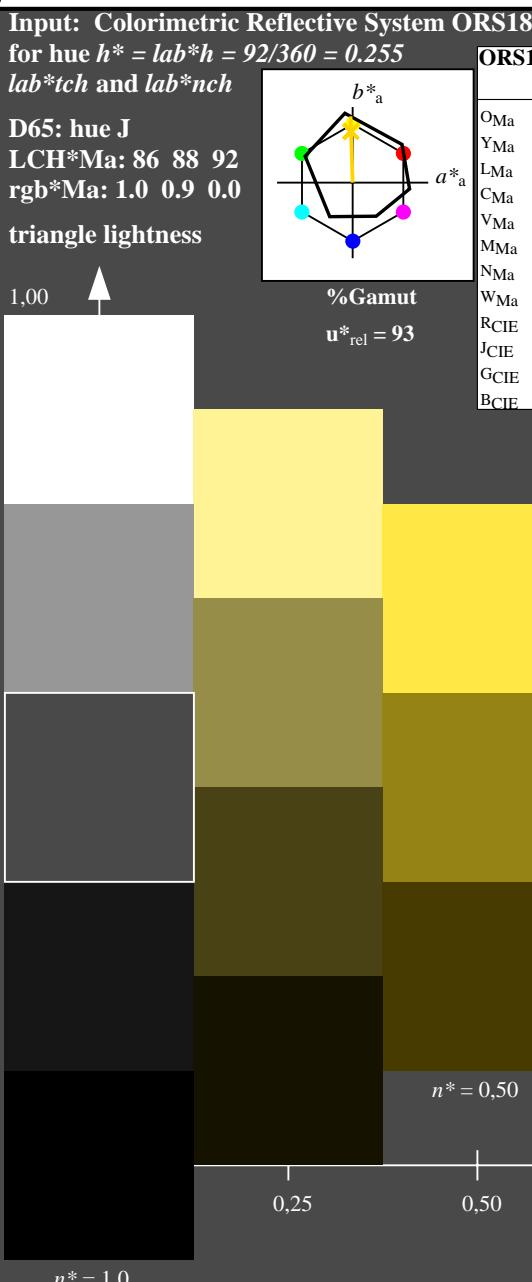
5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

BAM-test chart UE42; Colorimetric systems ORS18 & NRS11
 D65: 5 step colour scales and coordinate data for 10 hues

input: $cmy0*$ setcmykcolor
 output: olv^* setrgbcolor / w^* setgray



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
 $u^*_{rel} = 93$



UE420-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)
 BAM-test chart UE42; Colorimetric systems ORS18 & NRS11
 D65: 5 step colour scales and coordinate data for 10 hues
 input: $cmy0^* setcmykcolor$
 output: $olv^* setrgbcolor / w^* setgray$

See for similar files: <http://www.ps.bam.de/UE42/>

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

Version 2.1, io=0/1, CIEXYZ

Input: Colorimetric Reflective System ORS18

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

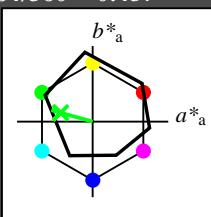
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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



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

%Regularity

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

1,00

0,75

0,50

0,25

0,00

n* = 0,00

0,25

0,50

0,75

1,00

chromaticness c*

n* = 0,50

n* = 0,25

blackness n*

n* = 1,0

UE420-7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)

BAM-test chart UE42; Colorimetric systems ORS18 & NRS11
 D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Reflective System NRS11

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

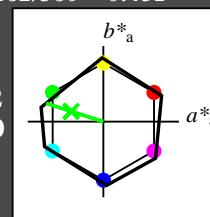
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 80 162

rgb*Ma: 0.08 1.0 0.0

triangle lightness



%Gamut
 $u^*_{rel} = 119$

1,00

0,75

0,50

0,25

0,00

n* = 0,00

0,25

0,50

0,75

1,00

chromaticness c*

%Regularity

$g^*_{H,rel} = 47$
 $g^*_{C,rel} = 100$

n* = 0,00

blackness n*

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

input: cmy0* setcmykcolor
 output: olv* setrgbcolor / w* setgray



Input: Colorimetric Reflective System ORS18

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

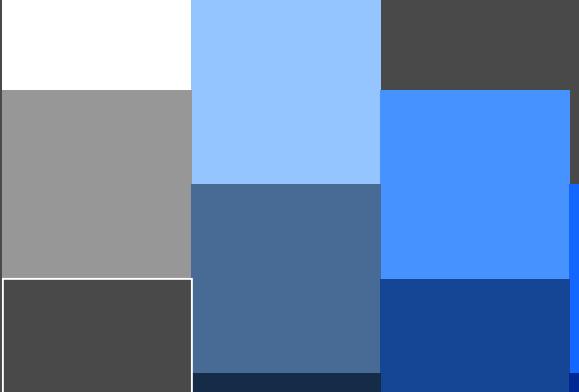
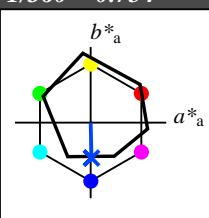
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness



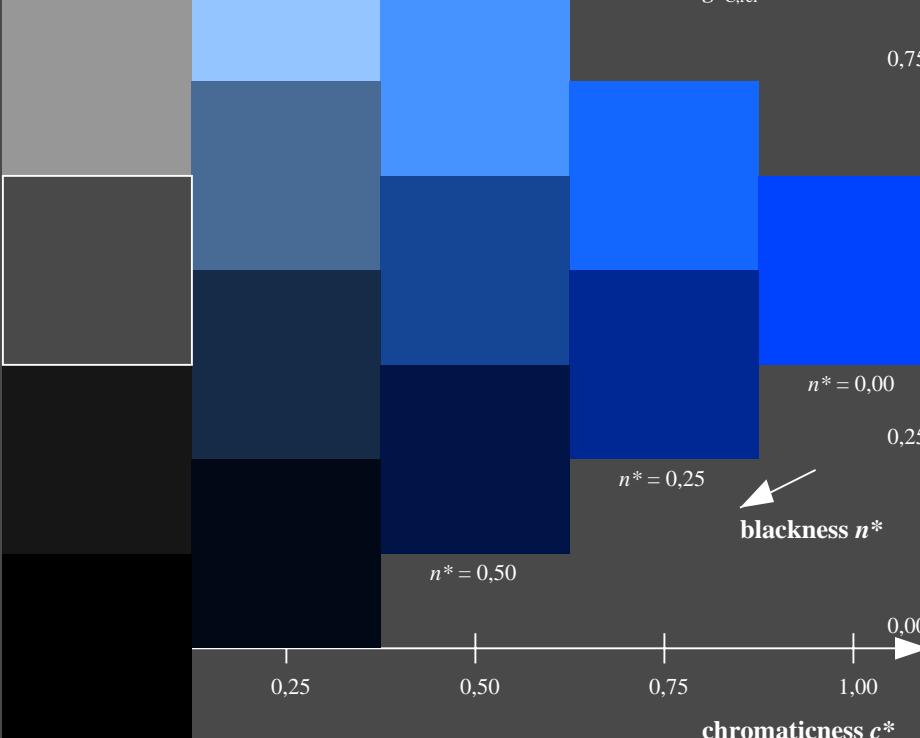
ORS18; adapted (a) CIELAB data

	$L^*=L_a^*$	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

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

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



$n^* = 1,0$

$n^* = 0,50$

$n^* = 0,25$

$n^* = 0,00$

blackness n^*

$n^* = 0,00$

chromaticness c^*

UE420-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

BAM-test chart UE42; Colorimetric systems ORS18 & NRS11
D65: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Reflective System NRS11

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

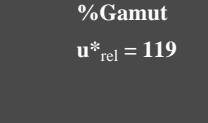
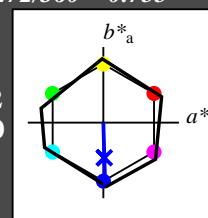
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 53 83 272

rgb*Ma: 0.0 0.02 1.0

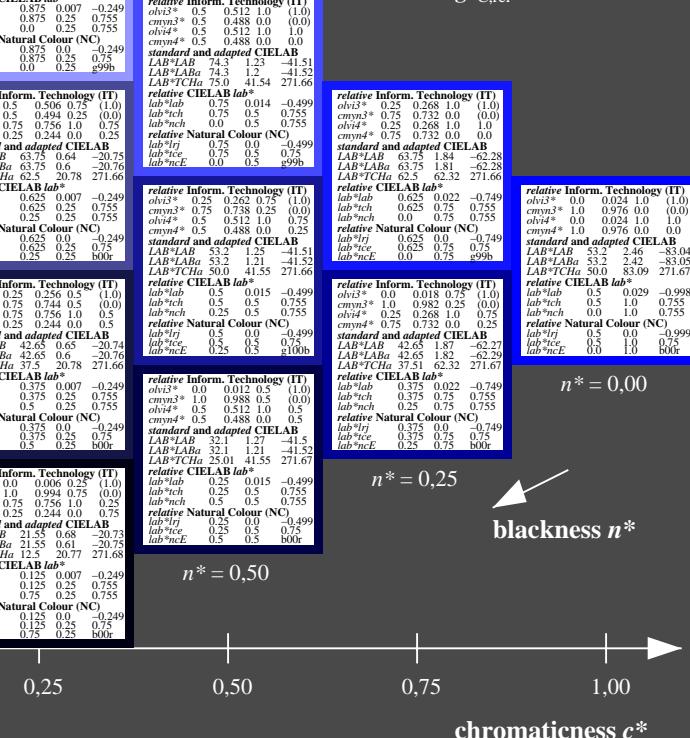
triangle lightness



%Regularity

$g^*_{H,rel} = 47$

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



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

input: $cmy0^* setcmykcolor$
output: $olv^* setrgbcolor / w^* setgray$