

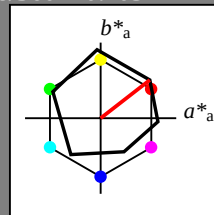
Input: Colorimetric Offset Reflective System ORS18

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

D50: hue O

LCH*Ma: 48 82 38

olv*Ma: 1.0 0.0 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

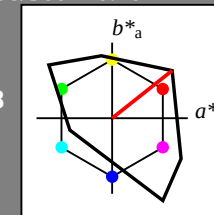
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 38/360 = 0.107$ lab^*tch and lab^*nch

D50: hue O

LCH*Ma: 54 101 38

olv*Ma: 1.0 0.0 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	54.19	79.36	63.0	101.33	38
Y _{Ma}	93.44	-14.18	82.59	83.8	100
L _{Ma}	82.82	-83.73	70.41	109.41	140
C _{Ma}	85.22	-55.9	-15.78	58.1	196
V _{Ma}	25.61	67.05	-108.87	127.87	302
M _{Ma}	58.76	91.18	-53.69	105.82	330
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	41.88	62.0	31.82	69.69	27
J _{CIE}	81.97	1.81	71.59	71.61	89
G _{CIE}	51.62	-41.11	11.52	42.7	164
B _{CIE}	29.2	-5.27	-49.33	49.62	264

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
 $LAB^*LAB = 95.41 \ 0.0 \ 0.0$
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$
 $LAB^*TCHa = 99.99 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 1.0 \ 0.0 \ 0.0$
 $lab^*tch = 1.0 \ 0.0 \ -$
 $lab^*nch = 0.0 \ 0.0 \ -$

relative Natural Colour (NC)
 $lab^*lrj = 1.0 \ 0.0 \ 0.0$
 $lab^*tce = 1.0 \ 0.0 \ -$
 $lab^*nce = 0.0 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.5 \ 0.5 \ 0.5 \ (1.0)$
 $cmyn3^* = 0.5 \ 0.5 \ 0.5 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.5$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.5$

standard and adapted CIELAB
 $LAB^*LAB = 47.72 \ 0.0 \ 0.0$
 $LAB^*LABa = 47.72 \ 0.0 \ 0.0$
 $LAB^*TCHa = 50.0 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.5 \ 0.0 \ 0.0$
 $lab^*tch = 0.5 \ 0.0 \ -$
 $lab^*nch = 0.5 \ 0.0 \ -$

relative Natural Colour (NC)
 $lab^*lrj = 0.5 \ 0.0 \ 0.0$
 $lab^*tce = 0.5 \ 0.0 \ -$
 $lab^*nce = 0.5 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 1.0 \ 1.0 \ 1.0 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.0$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 1.0$

standard and adapted CIELAB
 $LAB^*LAB = 0.03 \ 0.0 \ 0.0$
 $LAB^*LABa = 0.03 \ 0.0 \ 0.0$
 $LAB^*TCHa = 0.01 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.0 \ 0.0 \ 0.0$
 $lab^*tch = 0.0 \ 0.0 \ -$
 $lab^*nch = 1.0 \ 0.0 \ -$

relative Natural Colour (NC)
 $lab^*lrj = 0.0 \ 0.0 \ 0.0$
 $lab^*tce = 0.0 \ 0.0 \ -$
 $lab^*nce = 1.0 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 1.0 \ 0.5 \ 0.5 \ (1.0)$
 $cmyn3^* = 0.0 \ 0.5 \ 0.5 \ (0.0)$
 $olvi4^* = 1.0 \ 0.5 \ 0.5 \ 1.0$
 $cmyn4^* = 0.0 \ 0.5 \ 0.5 \ 0.0$

standard and adapted CIELAB
 $LAB^*LAB = 74.79 \ 39.67 \ 31.49$
 $LAB^*LABa = 74.79 \ 39.67 \ 31.49$
 $LAB^*TCHa = 75.0 \ 50.65 \ 38.44$

relative CIELAB lab*
 $lab^*lab = 0.784 \ 0.392 \ 0.311$
 $lab^*tch = 0.75 \ 0.5 \ 0.107$
 $lab^*nch = 0.0 \ 0.5 \ 0.107$

relative Natural Colour (NC)
 $lab^*lrj = 0.784 \ 0.479 \ 0.142$
 $lab^*tce = 0.75 \ 0.5 \ 0.046$
 $lab^*nce = 0.0 \ 0.5 \ r18j$

relative Inform. Technology (IT)
 $olvi3^* = 0.5 \ 0.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 0.5 \ 1.0 \ 1.0 \ (0.0)$
 $olvi4^* = 1.0 \ 0.5 \ 0.5 \ 0.5$
 $cmyn4^* = 0.0 \ 0.5 \ 0.5 \ 0.5$

standard and adapted CIELAB
 $LAB^*LAB = 27.1 \ 39.67 \ 31.49$
 $LAB^*LABa = 27.1 \ 39.67 \ 31.49$
 $LAB^*TCHa = 25.01 \ 50.65 \ 38.44$

relative CIELAB lab*
 $lab^*lab = 0.284 \ 0.392 \ 0.311$
 $lab^*tch = 0.25 \ 0.5 \ 0.107$
 $lab^*nch = 0.5 \ 0.5 \ 0.107$

relative Natural Colour (NC)
 $lab^*lrj = 0.284 \ 0.479 \ 0.142$
 $lab^*tce = 0.25 \ 0.5 \ 0.046$
 $lab^*nce = 0.5 \ 0.5 \ r18j$

relative Inform. Technology (IT)
 $olvi3^* = 1.0 \ 0.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 0.0 \ 1.0 \ 1.0 \ (0.0)$
 $olvi4^* = 1.0 \ 0.0 \ 0.0 \ 1.0$
 $cmyn4^* = 0.0 \ 1.0 \ 1.0 \ 0.0$

standard and adapted CIELAB
 $LAB^*LAB = 54.19 \ 79.34 \ 62.99$
 $LAB^*LABa = 54.19 \ 79.34 \ 62.99$
 $LAB^*TCHa = 50.0 \ 101.31 \ 38.44$

relative CIELAB lab*
 $lab^*lab = 0.568 \ 0.783 \ 0.622$
 $lab^*tch = 0.5 \ 1.0 \ 0.107$
 $lab^*nch = 0.0 \ 1.0 \ 0.107$

relative Natural Colour (NC)
 $lab^*lrj = 0.568 \ 0.958 \ 0.285$
 $lab^*tce = 0.5 \ 1.0 \ 0.046$
 $lab^*nce = 0.0 \ 1.0 \ r18j$

See for similar files: <http://www.ps.bam.de/PE00/>
Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1?BAM registration: 20060101-PE00/10Q/Q00E00SP.PS/.PDF BAM material: code=rhadata
application for evaluation and measurement of printer or monitor systems
/PE00 Form: 1/10, Serie: 1/1, Page: 1 Page count: 1

PE000-7, 3 step scales for constant CIELAB hue 38/360 = 0.105 (left)

3 step scales for constant CIELAB hue 38/360 = 0.107 (right)

BAM-test chart PE00; Colorimetric systems ORS18 & ORS18

D50: 3 step colour scales and coordinate data for 10 hues

input: $olv^* setrgbcolor$

output: Startup (S) data dependend

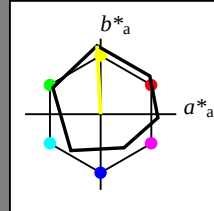
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 93/360 = 0.258$ lab^*tch and lab^*nch

D50: hue Y

LCH*Ma: 91 91 93

olv*Ma: 1.0 1.0 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

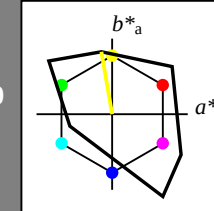
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 100/360 = 0.277$ lab^*tch and lab^*nch

D50: hue Y

LCH*Ma: 93 84 100

olv*Ma: 1.0 1.0 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	54.19	79.36	63.0	101.33	38
Y _{Ma}	93.44	-14.18	82.59	83.8	100
L _{Ma}	82.82	-83.73	70.41	109.41	140
C _{Ma}	85.22	-55.9	-15.78	58.1	196
V _{Ma}	25.61	67.05	-108.87	127.87	302
M _{Ma}	58.76	91.18	-53.69	105.82	330
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	41.88	62.0	31.82	69.69	27
J _{CIE}	81.97	1.81	71.59	71.61	89
G _{CIE}	51.62	-41.11	11.52	42.7	164
B _{CIE}	29.2	-5.27	-49.33	49.62	264

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 0.0 0.0

LAB*LABa 95.41 0.0 0.0

LAB*TCHa 99.99 0.01 -

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 -

lab*nch 0.0 0.0 -

relative Natural Colour (NC)

lab*lrj 1.0 0.0 0.0

lab*tce 1.0 0.0 -

lab*nce 0.0 0.0 -

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB 47.72 0.0 0.0

LAB*LABa 47.72 0.0 0.0

LAB*TCHa 50.0 0.01 -

relative CIELAB lab*

lab*lab 0.5 0.0 0.0

lab*tch 0.5 0.0 -

lab*nch 0.5 0.0 -

relative Natural Colour (NC)

lab*lrj 0.5 0.0 0.0

lab*tce 0.5 0.0 -

lab*nce 0.5 0.0 -

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB 94.42 -7.08 41.29

LAB*LABa 94.42 -7.08 41.29

LAB*TCHa 75.0 41.89 99.75

relative CIELAB lab*

lab*lab 0.99 -0.084 0.493

lab*tch 0.75 0.5 0.277

lab*nch 0.0 0.5 0.277

relative Natural Colour (NC)

lab*lrj 0.99 -0.114 0.487

lab*tce 0.75 0.5 0.287

lab*nce 0.0 0.5 j14g

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB 46.73 -7.08 41.29

LAB*LABa 46.73 -7.08 41.29

LAB*TCHa 25.01 41.89 99.75

relative CIELAB lab*

lab*lab 0.49 -0.084 0.493

lab*tch 0.25 0.5 0.277

lab*nch 0.5 0.5 0.277

relative Natural Colour (NC)

lab*lrj 0.49 -0.114 0.487

lab*tce 0.25 0.5 0.287

lab*nce 0.5 0.5 j14g

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB 93.43 -14.18 82.57

LAB*LABa 93.43 -14.18 82.57

LAB*TCHa 50.0 83.78 99.75

relative CIELAB lab*

lab*lab 0.979 -0.168 0.985

lab*tch 0.5 1.0 0.277

lab*nch 0.0 1.0 0.277

relative Natural Colour (NC)

lab*lrj 0.979 -0.229 0.973

lab*tce 0.5 1.0 0.287

lab*nce 0.0 1.0 j14g

blackness n^*

chromaticness c^*

0,25 0,50 0,75 1,00

$n^* = 0,00$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25 0,50 0,75 1,00

$n^* = 0,00$

$n^* = 0,50$

$n^* = 1,0$

blackness n^*

chromaticness c^*

0,25 0,50 0,75 1,00

$n^* = 0,00$

$n^* = 0,50$

$n^* = 1,0$

3 step scales for constant CIELAB hue 100/360 = 0.277 (right)

input: olv* setrgbcolor

output: Startup (S) data dependend

BAM-test chart PE00; Colorimetric systems ORS18 & ORS18

D50: 3 step colour scales and coordinate data for 10 hues

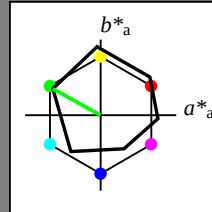
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.42$ lab^*tch and lab^*nch

D50: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

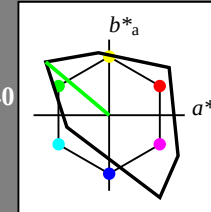
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 140/360 = 0.389$ lab^*tch and lab^*nch

D50: hue L

LCH*Ma: 83 109 140

olv*Ma: 0.0 1.0 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	54.19	79.36	63.0	101.33	38
Y _{Ma}	93.44	-14.18	82.59	83.8	100
L _{Ma}	82.82	-83.73	70.41	109.41	140
C _{Ma}	85.22	-55.9	-15.78	58.1	196
V _{Ma}	25.61	67.05	-108.87	127.87	302
M _{Ma}	58.76	91.18	-53.69	105.82	330
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	41.88	62.0	31.82	69.69	27
J _{CIE}	81.97	1.81	71.59	71.61	89
G _{CIE}	51.62	-41.11	11.52	42.7	164
B _{CIE}	29.2	-5.27	-49.33	49.62	264

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
 $LAB^*LAB = 95.41 \ 0.0 \ 0.0$
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$
 $LAB^*TCHa = 99.99 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 1.0 \ 0.0 \ 0.0$
 $lab^*tch = 1.0 \ 0.0 \ -$
 $lab^*nch = 0.0 \ 0.0 \ -$

relative Natural Colour (NC)
 $lab^*lrj = 1.0 \ 0.0 \ 0.0$
 $lab^*tce = 1.0 \ 0.0 \ -$
 $lab^*nce = 0.0 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.5 \ 1.0 \ 0.5 \ (1.0)$
 $cmyn3^* = 0.5 \ 0.0 \ 0.5 \ (0.0)$
 $olvi4^* = 0.5 \ 1.0 \ 0.5 \ 1.0$
 $cmyn4^* = 0.5 \ 0.0 \ 0.5 \ 0.0$

standard and adapted CIELAB
 $LAB^*LAB = 89.11 \ -41.85 \ 35.2$
 $LAB^*LABa = 89.11 \ -41.85 \ 35.2$
 $LAB^*TCHa = 75.0 \ 54.69 \ 139.94$

relative CIELAB lab*
 $lab^*lab = 0.934 \ -0.382 \ 0.322$
 $lab^*tch = 0.75 \ 0.5 \ 0.389$
 $lab^*nch = 0.0 \ 0.5 \ 0.389$

relative Natural Colour (NC)
 $lab^*lrj = 0.934 \ -0.436 \ 0.242$
 $lab^*tce = 0.75 \ 0.5 \ 0.419$
 $lab^*nce = 0.0 \ 0.5 \ 0.67g$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.5 \ 0.0 \ (1.0)$
 $cmyn3^* = 0.0 \ 0.5 \ 1.0 \ (0.0)$
 $olvi4^* = 0.5 \ 1.0 \ 0.5 \ 0.5$
 $cmyn4^* = 0.5 \ 0.0 \ 0.5 \ 0.5$

standard and adapted CIELAB
 $LAB^*LAB = 41.42 \ -41.85 \ 35.2$
 $LAB^*LABa = 41.42 \ -41.85 \ 35.2$
 $LAB^*TCHa = 25.01 \ 54.69 \ 139.94$

relative CIELAB lab*
 $lab^*lab = 0.434 \ -0.382 \ 0.322$
 $lab^*tch = 0.25 \ 0.5 \ 0.389$
 $lab^*nch = 0.5 \ 0.5 \ 0.389$

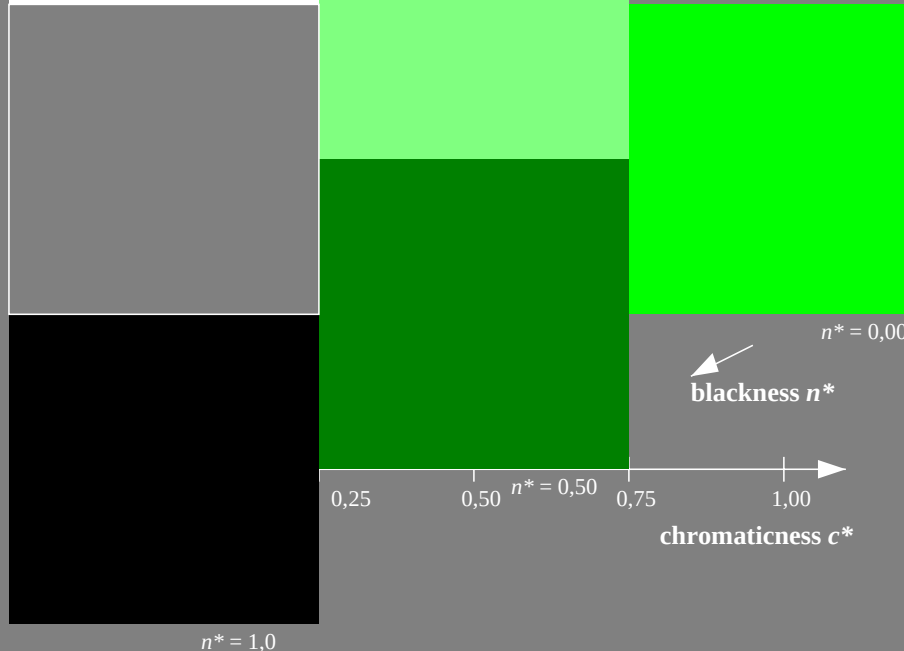
relative Natural Colour (NC)
 $lab^*lrj = 0.434 \ -0.436 \ 0.242$
 $lab^*tce = 0.25 \ 0.5 \ 0.419$
 $lab^*nce = 0.5 \ 0.5 \ 0.67g$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 1.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 1.0 \ 0.0 \ 1.0 \ (0.0)$
 $olvi4^* = 0.0 \ 1.0 \ 0.0 \ 1.0$
 $cmyn4^* = 1.0 \ 0.0 \ 1.0 \ 0.0$

standard and adapted CIELAB
 $LAB^*LAB = 82.81 \ -83.71 \ 70.4$
 $LAB^*LABa = 82.81 \ -83.71 \ 70.4$
 $LAB^*TCHa = 50.0 \ 109.39 \ 139.94$

relative CIELAB lab*
 $lab^*lab = 0.868 \ -0.764 \ 0.643$
 $lab^*tch = 0.5 \ 1.0 \ 0.389$
 $lab^*nch = 0.0 \ 1.0 \ 0.389$

relative Natural Colour (NC)
 $lab^*lrj = 0.868 \ -0.874 \ 0.484$
 $lab^*tce = 0.5 \ 1.0 \ 0.419$
 $lab^*nce = 0.0 \ 1.0 \ 0.67g$



relative Inform. Technology (IT)
 $olvi3^* = 0.5 \ 0.5 \ 0.5 \ (1.0)$
 $cmyn3^* = 0.5 \ 0.5 \ 0.5 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.5$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.5$

standard and adapted CIELAB
 $LAB^*LAB = 47.72 \ 0.0 \ 0.0$
 $LAB^*LABa = 47.72 \ 0.0 \ 0.0$
 $LAB^*TCHa = 50.0 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.5 \ 0.0 \ 0.0$
 $lab^*tch = 0.5 \ 0.0 \ -$
 $lab^*nch = 0.5 \ 0.0 \ -$

relative Natural Colour (NC)
 $lab^*lrj = 0.5 \ 0.0 \ 0.0$
 $lab^*tce = 0.5 \ 0.0 \ -$
 $lab^*nce = 0.5 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 1.0 \ 1.0 \ 1.0 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.0$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 1.0$

standard and adapted CIELAB
 $LAB^*LAB = 0.03 \ 0.0 \ 0.0$
 $LAB^*LABa = 0.03 \ 0.0 \ 0.0$
 $LAB^*TCHa = 0.01 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.0 \ 0.0 \ 0.0$
 $lab^*tch = 0.0 \ 0.0 \ -$
 $lab^*nch = 1.0 \ 0.0 \ -$

relative Natural Colour (NC)
 $lab^*lrj = 0.0 \ 0.0 \ 0.0$
 $lab^*tce = 0.0 \ 0.0 \ -$
 $lab^*nce = 1.0 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.5 \ 0.0 \ (1.0)$
 $cmyn3^* = 0.25 \ 0.5 \ 0.389$
 $olvi4^* = 0.5 \ 1.0 \ 0.5 \ 0.5$
 $cmyn4^* = 0.5 \ 0.0 \ 0.5 \ 0.5$

standard and adapted CIELAB
 $LAB^*LAB = 41.42 \ -41.85 \ 35.2$
 $LAB^*LABa = 41.42 \ -41.85 \ 35.2$
 $LAB^*TCHa = 25.01 \ 54.69 \ 139.94$

relative CIELAB lab*
 $lab^*lab = 0.434 \ -0.382 \ 0.322$
 $lab^*tch = 0.25 \ 0.5 \ 0.389$
 $lab^*nch = 0.5 \ 0.5 \ 0.389$

relative Natural Colour (NC)
 $lab^*lrj = 0.434 \ -0.436 \ 0.242$
 $lab^*tce = 0.25 \ 0.5 \ 0.419$
 $lab^*nce = 0.5 \ 0.5 \ 0.67g$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 1.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 1.0 \ 0.0 \ 1.0 \ (0.0)$
 $olvi4^* = 0.0 \ 1.0 \ 0.0 \ 1.0$
 $cmyn4^* = 1.0 \ 0.0 \ 1.0 \ 0.0$

standard and adapted CIELAB
 $LAB^*LAB = 82.81 \ -83.71 \ 70.4$
 $LAB^*LABa = 82.81 \ -83.71 \ 70.4$
 $LAB^*TCHa = 50.0 \ 109.39 \ 139.94$

relative CIELAB lab*
 $lab^*lab = 0.868 \ -0.764 \ 0.643$
 $lab^*tch = 0.5 \ 1.0 \ 0.389$
 $lab^*nch = 0.0 \ 1.0 \ 0.389$

relative Natural Colour (NC)
 $lab^*lrj = 0.868 \ -0.874 \ 0.484$
 $lab^*tce = 0.5 \ 1.0 \ 0.419$
 $lab^*nce = 0.0 \ 1.0 \ 0.67g$

3 step scales for constant CIELAB hue 140/360 = 0.389 (right)

input: $olv^* setrgbcolor$

output: Startup (S) data dependend

BAM-test chart PE00; Colorimetric systems ORS18 & ORS18

D50: 3 step colour scales and coordinate data for 10 hues

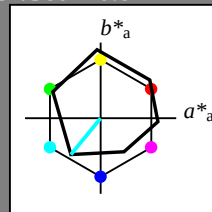
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 231/360 = 0.641$ lab^*tch and lab^*nch

D50: hue C

LCH*Ma: 57 62 231

olv*Ma: 0.0 1.0 1.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

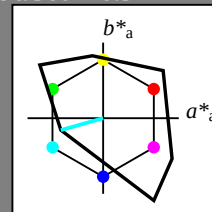
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 196/360 = 0.544$ lab^*tch and lab^*nch

D50: hue C

LCH*Ma: 85 58 196

olv*Ma: 0.0 1.0 1.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	54.19	79.36	63.0	101.33	38
Y _{Ma}	93.44	-14.18	82.59	83.8	100
L _{Ma}	82.82	-83.73	70.41	109.41	140
C _{Ma}	85.22	-55.9	-15.78	58.1	196
V _{Ma}	25.61	67.05	-108.87	127.87	302
M _{Ma}	58.76	91.18	-53.69	105.82	330
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	41.88	62.0	31.82	69.69	27
J _{CIE}	81.97	1.81	71.59	71.61	89
G _{CIE}	51.62	-41.11	11.52	42.7	164
B _{CIE}	29.2	-5.27	-49.33	49.62	264

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 0.0 0.0

LAB*LABa 95.41 0.0 0.0

LAB*TCHa 99.99 0.01 -

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 -

lab*nch 0.0 0.0 -

relative Natural Colour (NC)

lab*lrj 1.0 0.0 0.0

lab*tce 1.0 0.0 -

lab*nce 0.0 0.0 -

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB 47.72 0.0 0.0

LAB*LABa 47.72 0.0 0.0

LAB*TCHa 50.0 0.01 -

relative CIELAB lab*

lab*lab 0.5 0.0 0.0

lab*tch 0.5 0.0 -

lab*nch 0.5 0.0 -

relative Natural Colour (NC)

lab*lrj 0.5 0.0 0.0

lab*tce 0.5 0.0 -

lab*nce 0.5 0.0 -

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(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 0.03 0.0 0.0

LAB*LABa 0.03 0.0 0.0

LAB*TCHa 0.01 0.01 -

relative CIELAB lab*

lab*lab 0.0 0.0 0.0

lab*tch 0.0 0.0 -

lab*nch 1.0 0.0 -

relative Natural Colour (NC)

lab*lrj 0.0 0.0 0.0

lab*tce 0.0 0.0 -

lab*nce 1.0 0.0 -

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB 90.31 -27.94 -7.88

LAB*LABa 90.31 -27.94 -7.88

LAB*TCHa 75.0 29.04 195.77

relative CIELAB lab*

lab*lab 0.947 -0.48 -0.135

lab*tch 0.75 0.5 0.544

lab*nch 0.0 0.5 0.544

relative Natural Colour (NC)

lab*lrj 0.947 -0.439 -0.237

lab*tce 0.75 0.5 0.579

lab*nce 0.0 0.5 g31b

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 42.62 -27.94 -7.88

LAB*LABa 42.62 -27.94 -7.88

LAB*TCHa 25.01 29.04 195.77

relative CIELAB lab*

lab*lab 0.447 -0.48 -0.135

lab*tch 0.25 0.5 0.544

lab*nch 0.5 0.5 0.544

relative Natural Colour (NC)

lab*lrj 0.447 -0.439 -0.237

lab*tce 0.25 0.5 0.579

lab*nce 0.5 0.5 g31b

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB 85.21 -55.89 -15.78

LAB*LABa 85.21 -55.89 -15.78

LAB*TCHa 50.0 58.09 195.77

relative CIELAB lab*

lab*lab 0.893 -0.961 -0.271

lab*tch 0.5 1.0 0.544

lab*nch 0.0 1.0 0.544

relative Natural Colour (NC)

lab*lrj 0.893 -0.878 -0.475

lab*tce 0.5 1.0 0.579

lab*nce 0.0 1.0 g31b

0,25 0,50 0,75 1,00

$n^* = 0,00$

blackness n^*

chromaticness c^*

 $n^* = 1,0$

PE00-7, 3 step scales for constant CIELAB hue 231/360 = 0.641 (left)

BAM-test chart PE00; Colorimetric systems ORS18 & ORS18

D50: 3 step colour scales and coordinate data for 10 hues

3 step scales for constant CIELAB hue 196/360 = 0.544 (right)

input: olv* setrgbcolor

output: Startup (S) data dependend

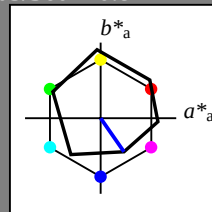
Input: Colorimetric Offset Reflective System ORS18

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

D50: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

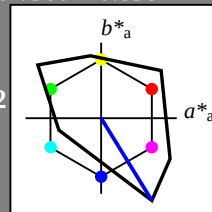
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 302/360 = 0.838$ lab^*tch and lab^*nch

D50: hue V

LCH*Ma: 26 128 302

olv*Ma: 0.0 0.0 1.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

TLS00; adapted (a) CIELAB data

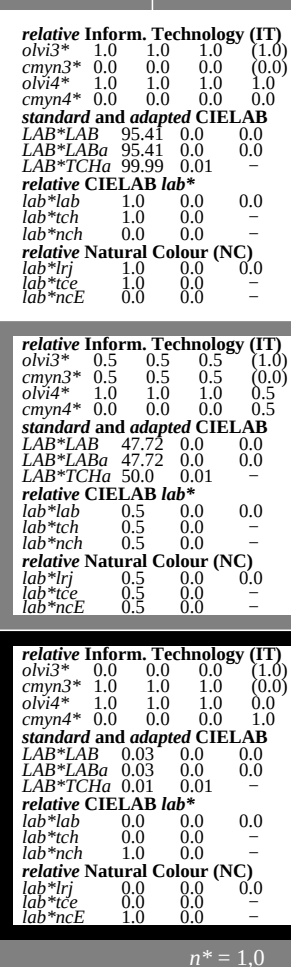
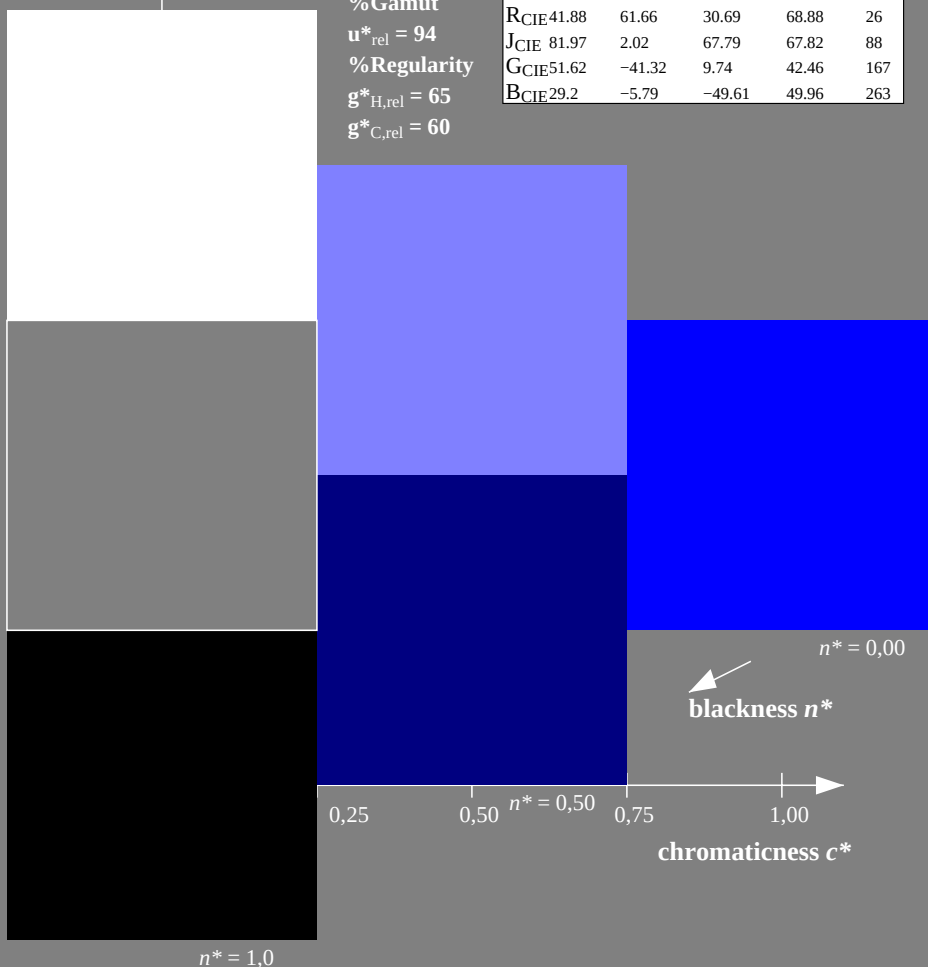
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	54.19	79.36	63.0	101.33	38
Y _{Ma}	93.44	-14.18	82.59	83.8	100
L _{Ma}	82.82	-83.73	70.41	109.41	140
C _{Ma}	85.22	-55.9	-15.78	58.1	196
V _{Ma}	25.61	67.05	-108.87	127.87	302
M _{Ma}	58.76	91.18	-53.69	105.82	330
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	41.88	62.0	31.82	69.69	27
J _{CIE}	81.97	1.81	71.59	71.61	89
G _{CIE}	51.62	-41.11	11.52	42.7	164
B _{CIE}	29.2	-5.27	-49.33	49.62	264

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	0.0	0.0	
LAB*LABa	95.41	0.0	0.0	
LAB*TCHa	99.99	0.01	-	
relative CIELAB lab*				
lab*lab	1.0	0.0	0.0	
lab*tch	1.0	0.0	-	
lab*nch	0.0	0.0	-	
relative Natural Colour (NC)				
lab*lrj	1.0	0.0	0.0	
lab*tce	1.0	0.0	-	
lab*nce	0.0	0.0	-	

relative Inform. Technology (IT)				
olvi3*	0.5	0.5	1.0	(1.0)
cmyn3*	0.5	0.5	0.0	(0.0)
olvi4*	0.5	0.5	1.0	1.0
cmyn4*	0.5	0.5	0.0	0.0
standard and adapted CIELAB				
LAB*LAB	60.51	33.52	-54.42	
LAB*LABa	60.51	33.52	-54.42	
LAB*TCHa	75.0	63.92	301.63	
relative CIELAB lab*				
lab*lab	0.634	0.262	-0.425	
lab*tch	0.75	0.5	0.838	
lab*nch	0.0	0.5	0.838	
relative Natural Colour (NC)				
lab*lrj	0.634	0.231	-0.442	
lab*tce	0.75	0.5	0.827	
lab*nce	0.0	0.5	0.838	

relative Inform. Technology (IT)				
olvi3*	0.0	0.0	0.5	(1.0)
cmyn3*	1.0	1.0	0.5	(0.0)
olvi4*	0.5	0.5	1.0	0.5
cmyn4*	0.5	0.5	0.0	0.5
standard and adapted CIELAB				
LAB*LAB	12.82	33.52	-54.42	
LAB*LABa	12.82	33.52	-54.42	
LAB*TCHa	25.01	63.92	301.63	
relative CIELAB lab*				
lab*lab	0.134	0.262	-0.425	
lab*tch	0.25	0.5	0.838	
lab*nch	0.5	0.5	0.838	
relative Natural Colour (NC)				
lab*lrj	0.134	0.231	-0.442	
lab*tce	0.25	0.5	0.827	
lab*nce	0.5	0.5	0.838	

relative Inform. Technology (IT)				
olvi3*	0.0	0.0	1.0	(1.0)
cmyn3*	1.0	1.0	0.0	(0.0)
olvi4*	0.0	0.0	1.0	1.0
cmyn4*	1.0	1.0	0.0	0.0
standard and adapted CIELAB				
LAB*LAB	25.61	67.04	-108.8	
LAB*LABa	25.61	67.04	-108.8	
LAB*TCHa	50.0	127.84	301.63	
relative CIELAB lab*				
lab*lab	0.268	0.524	-0.85	
lab*tch	0.5	1.0	0.838	
lab*nch	0.0	1.0	0.838	
relative Natural Colour (NC)				
lab*lrj	0.268	0.462	-0.885	
lab*tce	0.5	1.0	0.827	
lab*nce	0.0	1.0	0.838	



PE00-7, 3 step scales for constant CIELAB hue 305/360 = 0.847 (left)

3 step scales for constant CIELAB hue 302/360 = 0.838 (right)

BAM-test chart PE00; Colorimetric systems ORS18 & ORS18

D50: 3 step colour scales and coordinate data for 10 hues

input: olv* setrgbcolor

output: Startup (S) data dependend

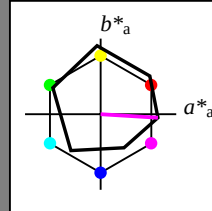
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 356/360 = 0.99$ lab^*tch and lab^*nch

D50: hue M

LCH*Ma: 50 76 356

olv*Ma: 1.0 0.0 1.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

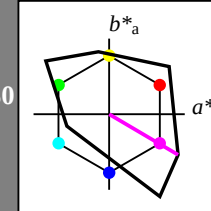
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 330/360 = 0.915$ lab^*tch and lab^*nch

D50: hue M

LCH*Ma: 59 106 330

olv*Ma: 1.0 0.0 1.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	54.19	79.36	63.0	101.33	38
Y _{Ma}	93.44	-14.18	82.59	83.8	100
L _{Ma}	82.82	-83.73	70.41	109.41	140
C _{Ma}	85.22	-55.9	-15.78	58.1	196
V _{Ma}	25.61	67.05	-108.87	127.87	302
M _{Ma}	58.76	91.18	-53.69	105.82	330
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	41.88	62.0	31.82	69.69	27
J _{CIE}	81.97	1.81	71.59	71.61	89
G _{CIE}	51.62	-41.11	11.52	42.7	164
B _{CIE}	29.2	-5.27	-49.33	49.62	264

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

$LAB^*LAB = 95.41 \ 0.0 \ 0.0$
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$
 $LAB^*TCHa = 99.99 \ 0.01 \ -$

relative CIELAB lab*

$lab^*lab = 1.0 \ 0.0 \ 0.0$
 $lab^*tch = 1.0 \ 0.0 \ -$
 $lab^*nch = 0.0 \ 0.0 \ -$

relative Natural Colour (NC)

$lab^*lrj = 1.0 \ 0.0 \ 0.0$
 $lab^*tce = 1.0 \ 0.0 \ -$
 $lab^*nce = 0.0 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.5 \ 0.5 \ 0.5 \ (1.0)$
 $cmyn3^* = 0.5 \ 0.5 \ 0.5 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.5$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.5$

standard and adapted CIELAB

$LAB^*LAB = 47.72 \ 0.0 \ 0.0$
 $LAB^*LABa = 47.72 \ 0.0 \ 0.0$
 $LAB^*TCHa = 50.0 \ 0.01 \ -$

relative CIELAB lab*

$lab^*lab = 0.5 \ 0.0 \ 0.0$
 $lab^*tch = 0.5 \ 0.0 \ -$
 $lab^*nch = 0.5 \ 0.0 \ -$

relative Natural Colour (NC)

$lab^*lrj = 0.5 \ 0.0 \ 0.0$
 $lab^*tce = 0.5 \ 0.0 \ -$
 $lab^*nce = 0.5 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 1.0 \ 1.0 \ 1.0 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.0$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 1.0$

standard and adapted CIELAB

$LAB^*LAB = 0.03 \ 0.0 \ 0.0$
 $LAB^*LABa = 0.03 \ 0.0 \ 0.0$
 $LAB^*TCHa = 0.01 \ 0.01 \ -$

relative CIELAB lab*

$lab^*lab = 0.0 \ 0.0 \ 0.0$
 $lab^*tch = 0.0 \ 0.0 \ -$
 $lab^*nch = 1.0 \ 0.0 \ -$

relative Natural Colour (NC)

$lab^*lrj = 0.0 \ 0.0 \ 0.0$
 $lab^*tce = 0.0 \ 0.0 \ -$
 $lab^*nce = 1.0 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 1.0 \ 0.5 \ 1.0 \ (1.0)$
 $cmyn3^* = 0.0 \ 0.5 \ 0.0 \ (0.0)$
 $olvi4^* = 1.0 \ 0.5 \ 1.0 \ 1.0$
 $cmyn4^* = 0.0 \ 0.5 \ 0.0 \ 0.0$

standard and adapted CIELAB

$LAB^*LAB = 77.08 \ 45.58 \ -26.83$
 $LAB^*LABa = 77.08 \ 45.58 \ -26.83$
 $LAB^*TCHa = 75.0 \ 52.9 \ 329.5$

relative CIELAB lab*

$lab^*lab = 0.808 \ 0.431 \ -0.253$
 $lab^*tch = 0.75 \ 0.5 \ 0.915$
 $lab^*nch = 0.0 \ 0.5 \ 0.915$

relative Natural Colour (NC)

$lab^*lrj = 0.808 \ 0.371 \ -0.334$
 $lab^*tce = 0.75 \ 0.5 \ 0.883$
 $lab^*nce = 0.0 \ 0.5 \ b53r$

relative Inform. Technology (IT)
 $olvi3^* = 0.5 \ 0.0 \ 0.5 \ (1.0)$
 $cmyn3^* = 0.5 \ 1.0 \ 0.5 \ (0.0)$
 $olvi4^* = 1.0 \ 0.5 \ 1.0 \ 0.5$
 $cmyn4^* = 0.0 \ 0.5 \ 0.0 \ 0.5$

standard and adapted CIELAB

$LAB^*LAB = 29.39 \ 45.58 \ -26.83$
 $LAB^*LABa = 29.39 \ 45.58 \ -26.83$
 $LAB^*TCHa = 25.01 \ 52.9 \ 329.5$

relative CIELAB lab*

$lab^*lab = 0.308 \ 0.431 \ -0.253$
 $lab^*tch = 0.25 \ 0.5 \ 0.915$
 $lab^*nch = 0.5 \ 0.5 \ 0.915$

relative Natural Colour (NC)

$lab^*lrj = 0.308 \ 0.371 \ -0.334$
 $lab^*tce = 0.25 \ 0.5 \ 0.883$
 $lab^*nce = 0.5 \ 0.5 \ b53r$

relative Inform. Technology (IT)
 $olvi3^* = 1.0 \ 0.0 \ 1.0 \ (1.0)$
 $cmyn3^* = 0.0 \ 1.0 \ 0.0 \ (0.0)$
 $olvi4^* = 1.0 \ 0.0 \ 1.0 \ 1.0$
 $cmyn4^* = 0.0 \ 1.0 \ 0.0 \ 0.0$

standard and adapted CIELAB

$LAB^*LAB = 58.76 \ 91.16 \ -53.68$
 $LAB^*LABa = 58.76 \ 91.16 \ -53.68$
 $LAB^*TCHa = 50.0 \ 105.8 \ 329.5$

relative CIELAB lab*

$lab^*lab = 0.616 \ 0.861 \ -0.506$
 $lab^*tch = 0.5 \ 1.0 \ 0.915$
 $lab^*nch = 0.0 \ 1.0 \ 0.915$

relative Natural Colour (NC)

$lab^*lrj = 0.616 \ 0.742 \ -0.669$
 $lab^*tce = 0.5 \ 1.0 \ 0.883$
 $lab^*nce = 0.0 \ 1.0 \ b53r$

0,25 0,50 $n^* = 0,50$ 0,75 1,00
 chromaticness c^*

blackness n^* $n^* = 0,00$ $n^* = 1,0$

PE000-7, 3 step scales for constant CIELAB hue 356/360 = 0.99 (left)

BAM-test chart PE00; Colorimetric systems ORS18 & ORS18

D50: 3 step colour scales and coordinate data for 10 hues

3 step scales for constant CIELAB hue 330/360 = 0.915 (right)

input: $olv^* setrgbcolor$

output: Startup (S) data dependend

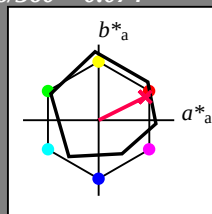
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 26/360 = 0.074$ lab^*tch and lab^*nch

D50: hue R

LCH*Ma: 49 76 26

olv*Ma: 1.0 0.0 0.3

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

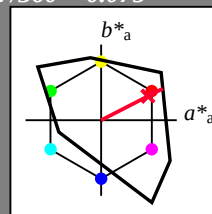
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 27/360 = 0.075$ lab^*tch and lab^*nch

D50: hue R

LCH*Ma: 55 92 27

olv*Ma: 1.0 0.0 0.18

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	54.19	79.36	63.0	101.33	38
Y _{Ma}	93.44	-14.18	82.59	83.8	100
L _{Ma}	82.82	-83.73	70.41	109.41	140
C _{Ma}	85.22	-55.9	-15.78	58.1	196
V _{Ma}	25.61	67.05	-108.87	127.87	302
M _{Ma}	58.76	91.18	-53.69	105.82	330
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	41.88	62.0	31.82	69.69	27
J _{CIE}	81.97	1.81	71.59	71.61	89
G _{CIE}	51.62	-41.11	11.52	42.7	164
B _{CIE}	29.2	-5.27	-49.33	49.62	264

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
 $LAB^*LAB = 95.41 \ 0.0 \ 0.0$
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$
 $LAB^*TCHa = 99.99 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 1.0 \ 0.0 \ 0.0$
 $lab^*tch = 1.0 \ 0.0 \ -$
 $lab^*nch = 0.0 \ 0.0 \ -$

relative Natural Colour (NC)
 $lab^*lrj = 1.0 \ 0.0 \ 0.0$
 $lab^*tce = 1.0 \ 0.0 \ -$
 $lab^*nce = 0.0 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.5 \ 0.5 \ 0.5 \ (1.0)$
 $cmyn3^* = 0.5 \ 0.5 \ 0.5 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.5$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.5$

standard and adapted CIELAB
 $LAB^*LAB = 47.72 \ 0.0 \ 0.0$
 $LAB^*LABa = 47.72 \ 0.0 \ 0.0$
 $LAB^*TCHa = 50.0 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.5 \ 0.0 \ 0.0$
 $lab^*tch = 0.5 \ 0.0 \ -$
 $lab^*nch = 0.5 \ 0.0 \ -$

relative Natural Colour (NC)
 $lab^*lrj = 0.5 \ 0.0 \ 0.0$
 $lab^*tce = 0.5 \ 0.0 \ -$
 $lab^*nce = 0.5 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 1.0 \ 1.0 \ 1.0 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.0$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 1.0$

standard and adapted CIELAB
 $LAB^*LAB = 0.03 \ 0.0 \ 0.0$
 $LAB^*LABa = 0.03 \ 0.0 \ 0.0$
 $LAB^*TCHa = 0.01 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.0 \ 0.0 \ 0.0$
 $lab^*tch = 0.0 \ 0.0 \ -$
 $lab^*nch = 1.0 \ 0.0 \ -$

relative Natural Colour (NC)
 $lab^*lrj = 0.0 \ 0.0 \ 0.0$
 $lab^*tce = 0.0 \ 0.0 \ -$
 $lab^*nce = 1.0 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 1.0 \ 0.5 \ 0.591 \ (1.0)$
 $cmyn3^* = 0.0 \ 0.5 \ 0.409 \ (0.0)$
 $olvi4^* = 1.0 \ 0.5 \ 0.591 \ 1.0$
 $cmyn4^* = 0.0 \ 0.5 \ 0.409 \ 0.0$

standard and adapted CIELAB
 $LAB^*LAB = 75.21 \ 40.74 \ 20.91$
 $LAB^*LABa = 75.21 \ 40.74 \ 20.91$
 $LAB^*TCHa = 75.0 \ 45.8 \ 27.17$

relative CIELAB lab*
 $lab^*lab = 0.788 \ 0.445 \ 0.228$
 $lab^*tch = 0.75 \ 0.5 \ 0.075$
 $lab^*nch = 0.0 \ 0.5 \ 0.075$

relative Natural Colour (NC)
 $lab^*lrj = 0.788 \ 0.5 \ 0.0$
 $lab^*tce = 0.75 \ 0.5 \ 1.0$
 $lab^*nce = 0.0 \ 0.5 \ 0.99r$

relative Inform. Technology (IT)
 $olvi3^* = 0.5 \ 0.0 \ 0.091 \ (1.0)$
 $cmyn3^* = 0.5 \ 1.0 \ 0.909 \ (0.0)$
 $olvi4^* = 1.0 \ 0.5 \ 0.591 \ 0.5$
 $cmyn4^* = 0.0 \ 0.5 \ 0.409 \ 0.5$

standard and adapted CIELAB
 $LAB^*LAB = 27.52 \ 40.74 \ 20.92$
 $LAB^*LABa = 27.52 \ 40.74 \ 20.92$
 $LAB^*TCHa = 25.01 \ 45.8 \ 27.18$

relative CIELAB lab*
 $lab^*lab = 0.288 \ 0.445 \ 0.228$
 $lab^*tch = 0.25 \ 0.5 \ 0.075$
 $lab^*nch = 0.5 \ 0.5 \ 0.075$

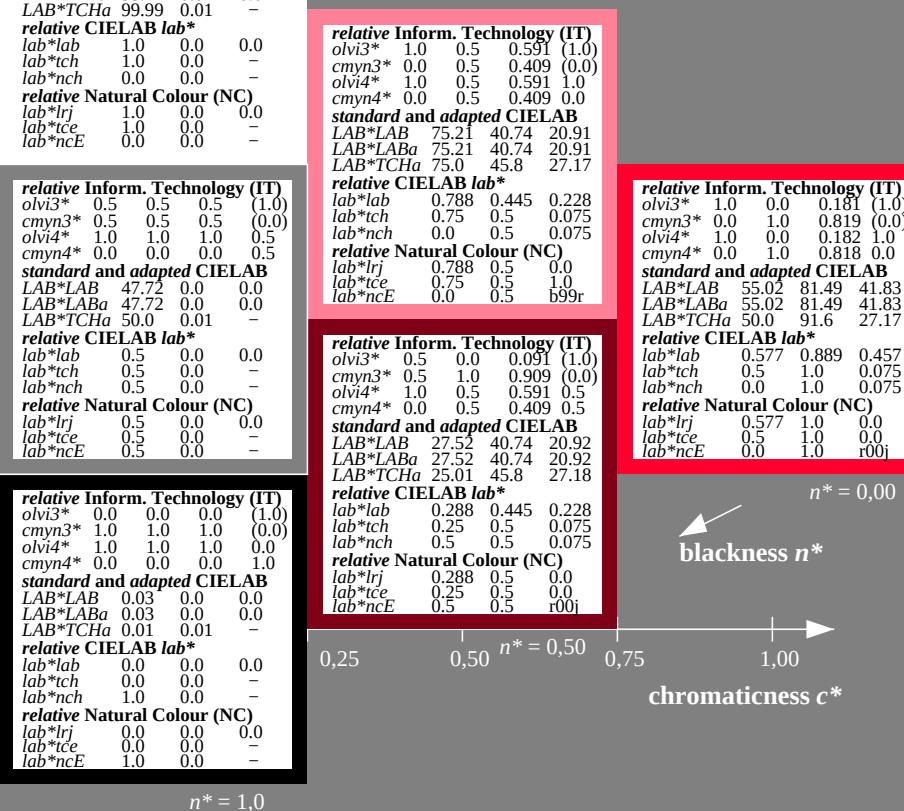
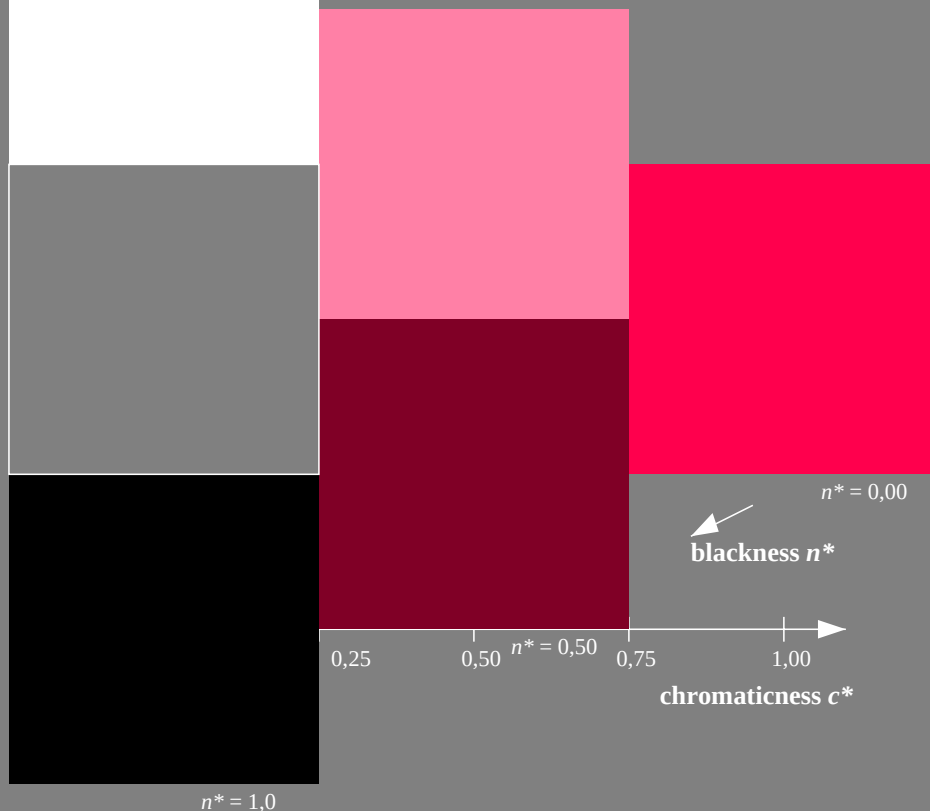
relative Natural Colour (NC)
 $lab^*lrj = 0.288 \ 0.5 \ 0.0$
 $lab^*tce = 0.25 \ 0.5 \ 0.0$
 $lab^*nce = 0.5 \ 0.5 \ 0.00j$

relative Inform. Technology (IT)
 $olvi3^* = 1.0 \ 0.0 \ 0.181 \ (1.0)$
 $cmyn3^* = 0.0 \ 1.0 \ 0.819 \ (0.0)$
 $olvi4^* = 1.0 \ 0.0 \ 0.182 \ 1.0$
 $cmyn4^* = 0.0 \ 1.0 \ 0.818 \ 0.0$

standard and adapted CIELAB
 $LAB^*LAB = 55.02 \ 81.49 \ 41.83$
 $LAB^*LABa = 55.02 \ 81.49 \ 41.83$
 $LAB^*TCHa = 50.0 \ 91.6 \ 27.17$

relative CIELAB lab*
 $lab^*lab = 0.577 \ 0.889 \ 0.457$
 $lab^*tch = 0.5 \ 1.0 \ 0.075$
 $lab^*nch = 0.0 \ 1.0 \ 0.075$

relative Natural Colour (NC)
 $lab^*lrj = 0.577 \ 1.0 \ 0.0$
 $lab^*tce = 0.5 \ 1.0 \ 0.0$
 $lab^*nce = 0.0 \ 1.0 \ 0.00j$



PE000-7, 3 step scales for constant CIELAB hue 26/360 = 0.074 (left)

3 step scales for constant CIELAB hue 27/360 = 0.075 (right)

BAM-test chart PE00; Colorimetric systems ORS18 & ORS18

D50: 3 step colour scales and coordinate data for 10 hues

input: $olv^* setrgbcolor$

output: Startup (S) data dependend

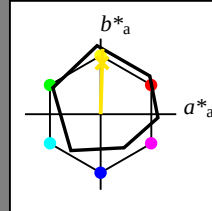
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 88/360 = 0.245$ lab^*tch and lab^*nch

D50: hue J

LCH*Ma: 86 86 88

olv*Ma: 1.0 0.9 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

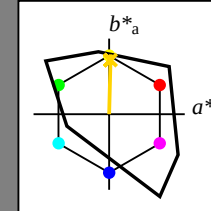
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 89/360 = 0.246$ lab^*tch and lab^*nch

D50: hue J

LCH*Ma: 87 79 89

olv*Ma: 1.0 0.83 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	54.19	79.36	63.0	101.33	38
Y _{Ma}	93.44	-14.18	82.59	83.8	100
L _{Ma}	82.82	-83.73	70.41	109.41	140
C _{Ma}	85.22	-55.9	-15.78	58.1	196
V _{Ma}	25.61	67.05	-108.87	127.87	302
M _{Ma}	58.76	91.18	-53.69	105.82	330
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	41.88	62.0	31.82	69.69	27
J _{CIE}	81.97	1.81	71.59	71.61	89
G _{CIE}	51.62	-41.11	11.52	42.7	164
B _{CIE}	29.2	-5.27	-49.33	49.62	264

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

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LABa	47.72	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(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	0.03	0.0	0.0
LAB*LABa	0.03	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

olvi3*	1.0	0.913	0.5	(1.0)
cmyn3*	0.0	0.087	0.5	(0.0)
olvi4*	1.0	0.914	0.5	1.0
cmyn4*	0.0	0.086	0.5	0.0

standard and adapted CIELAB

LAB*LAB	91.02	0.99	39.59
LAB*LABa	91.02	0.99	39.59
LAB*TCHa	75.0	39.61	88.56

relative CIELAB lab*

lab*lab	0.954	0.013	0.5
lab*tch	0.75	0.5	0.246
lab*nch	0.0	0.5	0.246

relative Natural Colour (NC)

lab*lrj	0.954	0.0	0.5
lab*tce	0.75	0.5	0.25
lab*nce	0.0	0.5	j00g

relative Inform. Technology (IT)

olvi3*	0.5	0.413	0.0	(1.0)
cmyn3*	0.5	0.587	1.0	(0.0)
olvi4*	1.0	0.913	0.5	0.5
cmyn4*	0.0	0.087	0.5	0.5

standard and adapted CIELAB

LAB*LAB	43.33	1.0	39.59
LAB*LABa	43.33	1.0	39.59
LAB*TCHa	25.01	39.6	88.55

relative CIELAB lab*

lab*lab	0.454	0.013	0.5
lab*tch	0.25	0.5	0.246
lab*nch	0.5	0.5	0.246

relative Natural Colour (NC)

lab*lrj	0.454	0.0	0.5
lab*tce	0.25	0.5	0.25
lab*nce	0.5	0.5	j99j

relative Inform. Technology (IT)

olvi3*	1.0	0.827	0.0	(1.0)
cmyn3*	0.0	0.173	1.0	(0.0)
olvi4*	1.0	0.827	0.0	1.0
cmyn4*	0.0	0.173	1.0	0.0

standard and adapted CIELAB

LAB*LAB	86.64	2.0	79.18
LAB*LABa	86.64	2.0	79.18
LAB*TCHa	50.0	79.21	88.56

relative CIELAB lab*

lab*lab	0.908	0.025	0.999
lab*tch	0.5	1.0	0.246
lab*nch	0.0	1.0	0.246

relative Natural Colour (NC)

lab*lrj	0.908	0.0	1.0
lab*tce	0.5	1.0	0.25
lab*nce	0.0	1.0	j00g

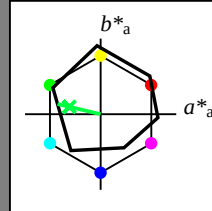
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 167/360 = 0.463$ lab^*tch and lab^*nch

D50: hue G

LCH*Ma: 52 59 167

olv*Ma: 0.0 1.0 0.26

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

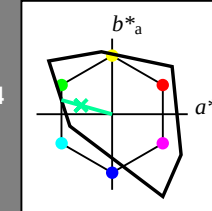
Output: Colorimetric Television Luminous System TLS00

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

D50: hue G

LCH*Ma: 84 70 164

olv*Ma: 0.0 1.0 0.6

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	54.19	79.36	63.0	101.33	38
Y _{Ma}	93.44	-14.18	82.59	83.8	100
L _{Ma}	82.82	-83.73	70.41	109.41	140
C _{Ma}	85.22	-55.9	-15.78	58.1	196
V _{Ma}	25.61	67.05	-108.87	127.87	302
M _{Ma}	58.76	91.18	-53.69	105.82	330
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	41.88	62.0	31.82	69.69	27
J _{CIE}	81.97	1.81	71.59	71.61	89
G _{CIE}	51.62	-41.11	11.52	42.7	164
B _{CIE}	29.2	-5.27	-49.33	49.62	264

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
 $LAB^*LAB = 95.41 \ 0.0 \ 0.0$
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$
 $LAB^*TCHa = 99.99 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 1.0 \ 0.0 \ 0.0$
 $lab^*tch = 1.0 \ 0.0 \ -$
 $lab^*nch = 0.0 \ 0.0 \ -$

relative Natural Colour (NC)
 $lab^*lrj = 1.0 \ 0.0 \ 0.0$
 $lab^*tce = 1.0 \ 0.0 \ -$
 $lab^*nce = 0.0 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.5 \ 1.0 \ 0.799 \ (1.0)$
 $cmyn3^* = 0.5 \ 0.0 \ 0.201 \ (0.0)$
 $olvi4^* = 0.5 \ 1.0 \ 0.8 \ 1.0$
 $cmyn4^* = 0.5 \ 0.0 \ 0.2 \ 0.0$

standard and adapted CIELAB
 $LAB^*LAB = 89.83 \ -33.52 \ 9.39$
 $LAB^*LABa = 89.83 \ -33.52 \ 9.39$
 $LAB^*TCHa = 75.0 \ 34.82 \ 164.36$

relative CIELAB lab*
 $lab^*lab = 0.941 \ -0.48 \ 0.135$
 $lab^*tch = 0.75 \ 0.5 \ 0.457$
 $lab^*nch = 0.0 \ 0.5 \ 0.457$

relative Natural Colour (NC)
 $lab^*lrj = 0.941 \ -0.499 \ 0.0$
 $lab^*tce = 0.75 \ 0.5 \ 0.5$
 $lab^*nce = 0.0 \ 0.5 \ g00b$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.5 \ 0.299 \ (1.0)$
 $cmyn3^* = 1.0 \ 0.5 \ 0.701 \ (0.0)$
 $olvi4^* = 0.5 \ 1.0 \ 0.799 \ 0.5$
 $cmyn4^* = 0.5 \ 0.0 \ 0.201 \ 0.5$

standard and adapted CIELAB
 $LAB^*LAB = 42.13 \ -33.52 \ 9.4$
 $LAB^*LABa = 42.13 \ -33.52 \ 9.4$
 $LAB^*TCHa = 25.01 \ 34.82 \ 164.34$

relative CIELAB lab*
 $lab^*lab = 0.442 \ -0.48 \ 0.135$
 $lab^*tch = 0.25 \ 0.5 \ 0.457$
 $lab^*nch = 0.5 \ 0.5 \ 0.457$

relative Natural Colour (NC)
 $lab^*lrj = 0.442 \ -0.499 \ 0.0$
 $lab^*tce = 0.25 \ 0.5 \ 0.5$
 $lab^*nce = 0.5 \ 0.5 \ g99g$

relative Inform. Technology (IT)
 $olvi3^* = 0.5 \ 0.5 \ 0.5 \ (1.0)$
 $cmyn3^* = 0.5 \ 0.5 \ 0.5 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.5$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.5$

standard and adapted CIELAB
 $LAB^*LAB = 47.72 \ 0.0 \ 0.0$
 $LAB^*LABa = 47.72 \ 0.0 \ 0.0$
 $LAB^*TCHa = 50.0 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.5 \ 0.0 \ 0.0$
 $lab^*tch = 0.5 \ 0.0 \ -$
 $lab^*nch = 0.5 \ 0.0 \ -$

relative Natural Colour (NC)
 $lab^*lrj = 0.5 \ 0.0 \ 0.0$
 $lab^*tce = 0.5 \ 0.0 \ -$
 $lab^*nce = 0.5 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 1.0 \ 1.0 \ 1.0 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.0$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 1.0$

standard and adapted CIELAB
 $LAB^*LAB = 0.03 \ 0.0 \ 0.0$
 $LAB^*LABa = 0.03 \ 0.0 \ 0.0$
 $LAB^*TCHa = 0.01 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.0 \ 0.0 \ 0.0$
 $lab^*tch = 0.0 \ 0.0 \ -$
 $lab^*nch = 1.0 \ 0.0 \ -$

relative Natural Colour (NC)
 $lab^*lrj = 0.0 \ 0.0 \ 0.0$
 $lab^*tce = 0.0 \ 0.0 \ -$
 $lab^*nce = 1.0 \ 0.0 \ -$

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

input: olv* setrgbcolor

output: Startup (S) data dependend

PE000-7, 3 step scales for constant CIELAB hue 167/360 = 0.463 (left)

BAM-test chart PE00; Colorimetric systems ORS18 & ORS18

D50: 3 step colour scales and coordinate data for 10 hues

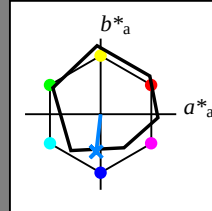
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 263/360 = 0.731$ lab^*tch and lab^*nch

D50: hue B

LCH*Ma: 42 47 263

olv*Ma: 0.0 0.52 1.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

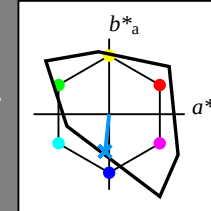
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 264/360 = 0.733$ lab^*tch and lab^*nch

D50: hue B

LCH*Ma: 61 54 264

olv*Ma: 0.0 0.59 1.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	54.19	79.36	63.0	101.33	38
Y _{Ma}	93.44	-14.18	82.59	83.8	100
L _{Ma}	82.82	-83.73	70.41	109.41	140
C _{Ma}	85.22	-55.9	-15.78	58.1	196
V _{Ma}	25.61	67.05	-108.87	127.87	302
M _{Ma}	58.76	91.18	-53.69	105.82	330
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	41.88	62.0	31.82	69.69	27
J _{CIE}	81.97	1.81	71.59	71.61	89
G _{CIE}	51.62	-41.11	11.52	42.7	164
B _{CIE}	29.2	-5.27	-49.33	49.62	264

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
 $LAB^*LAB = 95.41 \ 0.0 \ 0.0$
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$
 $LAB^*TCHa = 99.99 \ 0.01 \ -$

relative CIELAB lab^*
 $lab^*lab = 1.0 \ 0.0 \ 0.0$
 $lab^*tch = 1.0 \ 0.0 \ -$
 $lab^*nch = 0.0 \ 0.0 \ -$

relative Natural Colour (NC)
 $lab^*lrj = 1.0 \ 0.0 \ 0.0$
 $lab^*tce = 1.0 \ 0.0 \ -$
 $lab^*nce = 0.0 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.5 \ 0.5 \ 0.5 \ (1.0)$
 $cmyn3^* = 0.5 \ 0.5 \ 0.5 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.5$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.5$

standard and adapted CIELAB
 $LAB^*LAB = 47.72 \ 0.0 \ 0.0$
 $LAB^*LABa = 47.72 \ 0.0 \ 0.0$
 $LAB^*TCHa = 50.0 \ 0.01 \ -$

relative CIELAB lab^*
 $lab^*lab = 0.5 \ 0.0 \ 0.0$
 $lab^*tch = 0.5 \ 0.0 \ -$
 $lab^*nch = 0.5 \ 0.0 \ -$

relative Natural Colour (NC)
 $lab^*lrj = 0.5 \ 0.0 \ 0.0$
 $lab^*tce = 0.5 \ 0.0 \ -$
 $lab^*nce = 0.5 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 1.0 \ 1.0 \ 1.0 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.0$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 1.0$

standard and adapted CIELAB
 $LAB^*LAB = 0.03 \ 0.0 \ 0.0$
 $LAB^*LABa = 0.03 \ 0.0 \ 0.0$
 $LAB^*TCHa = 0.01 \ 0.01 \ -$

relative CIELAB lab^*
 $lab^*lab = 0.0 \ 0.0 \ 0.0$
 $lab^*tch = 0.0 \ 0.0 \ -$
 $lab^*nch = 1.0 \ 0.0 \ -$

relative Natural Colour (NC)
 $lab^*lrj = 0.0 \ 0.0 \ 0.0$
 $lab^*tce = 0.0 \ 0.0 \ -$
 $lab^*nce = 1.0 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.5 \ 0.796 \ 1.0 \ (1.0)$
 $cmyn3^* = 0.5 \ 0.204 \ 0.0 \ (0.0)$
 $olvi4^* = 0.5 \ 0.796 \ 1.0 \ 1.0$
 $cmyn4^* = 0.5 \ 0.204 \ 0.0 \ 0.0$

standard and adapted CIELAB
 $LAB^*LAB = 78.15 \ -2.87 \ -26.86$
 $LAB^*LABa = 78.15 \ -2.87 \ -26.86$
 $LAB^*TCHa = 75.0 \ 27.02 \ 263.88$

relative CIELAB lab^*
 $lab^*lab = 0.819 \ -0.052 \ -0.496$
 $lab^*tch = 0.75 \ 0.5 \ 0.733$
 $lab^*nch = 0.0 \ 0.5 \ 0.733$

relative Natural Colour (NC)
 $lab^*lrj = 0.819 \ 0.0 \ -0.499$
 $lab^*tce = 0.75 \ 0.5 \ 0.75$
 $lab^*nce = 0.0 \ 0.5 \ g99b$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.296 \ 0.5 \ (1.0)$
 $cmyn3^* = 1.0 \ 0.704 \ 0.5 \ (0.0)$
 $olvi4^* = 0.5 \ 0.796 \ 1.0 \ 0.5$
 $cmyn4^* = 0.5 \ 0.204 \ 0.0 \ 0.5$

standard and adapted CIELAB
 $LAB^*LAB = 30.46 \ -2.86 \ -26.87$
 $LAB^*LABa = 30.46 \ -2.86 \ -26.87$
 $LAB^*TCHa = 25.01 \ 27.03 \ 263.9$

relative CIELAB lab^*
 $lab^*lab = 0.319 \ -0.052 \ -0.496$
 $lab^*tch = 0.25 \ 0.5 \ 0.733$
 $lab^*nch = 0.5 \ 0.5 \ 0.733$

relative Natural Colour (NC)
 $lab^*lrj = 0.319 \ 0.0 \ -0.499$
 $lab^*tce = 0.25 \ 0.5 \ 0.75$
 $lab^*nce = 0.5 \ 0.5 \ b00r$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.592 \ 1.0 \ (1.0)$
 $cmyn3^* = 1.0 \ 0.408 \ 0.0 \ (0.0)$
 $olvi4^* = 0.0 \ 0.592 \ 1.0 \ 1.0$
 $cmyn4^* = 1.0 \ 0.408 \ 0.0 \ 0.0$

standard and adapted CIELAB
 $LAB^*LAB = 60.9 \ -5.74 \ -53.74$
 $LAB^*LABa = 60.9 \ -5.74 \ -53.74$
 $LAB^*TCHa = 50.0 \ 54.06 \ 263.89$

relative CIELAB lab^*
 $lab^*lab = 0.638 \ -0.105 \ -0.993$
 $lab^*tch = 0.5 \ 1.0 \ 0.733$
 $lab^*nch = 0.0 \ 1.0 \ 0.733$

relative Natural Colour (NC)
 $lab^*lrj = 0.638 \ 0.0 \ -0.999$
 $lab^*tce = 0.5 \ 1.0 \ 0.75$
 $lab^*nce = 0.0 \ 1.0 \ g99b$

0,25 0,50 $n^* = 0,50$ 0,75 1,00
chromaticness c^*

blackness n^* $n^* = 0,00$ $n^* = 1,0$

PE00-7, 3 step scales for constant CIELAB hue 263/360 = 0.731 (left)

BAM-test chart PE00; Colorimetric systems ORS18 & ORS18

D50: 3 step colour scales and coordinate data for 10 hues

3 step scales for constant CIELAB hue 264/360 = 0.733 (right)

input: $olv^* setrgbcolor$

output: Startup (S) data dependend