

Input: Colorimetric Offset Reflective System ORS18

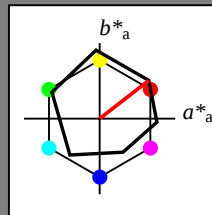
for hue $h^* = lab \cdot h = 38/360 = 0.105$ $lab \cdot tch$ and $lab \cdot nch$

D50: hue O

LCH*Ma: 48 82 38

olv*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	65.05	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

%Regularity

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

Output: Colorimetric Television Luminous System TLS00

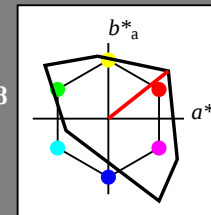
for hue $h^* = lab \cdot h = 38/360 = 0.107$ $lab \cdot tch$ and $lab \cdot nch$

D50: hue O

LCH*Ma: 54 101 38

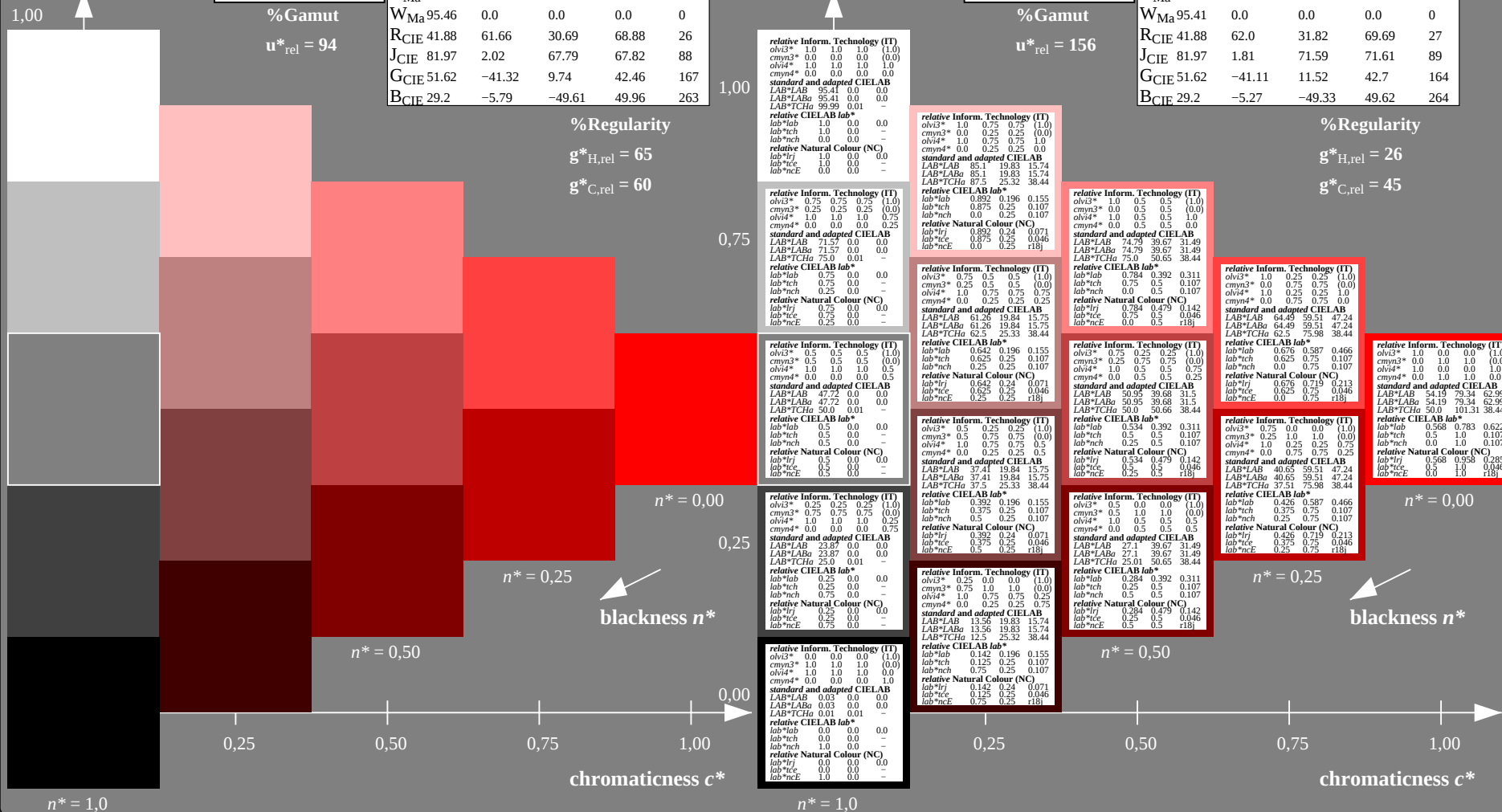
olv*Ma: 1.0 0.0 0.0

triangle lightness



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

%Regularity

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

PE400-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

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

BAM-test chart PE40; Colorimetric systems ORS18 & ORS18

D50: 5 step colour scales and coordinate data for 10 hues

input: $olv^* \text{ setrgbcolor}$

output: Startup (S) data dependend

Input: Colorimetric Offset Reflective System ORS18

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

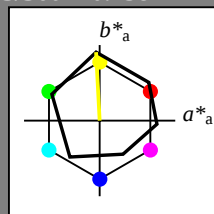
D50: hue Y

LCH*Ma: 91 91 93

olv*Ma: 1.0 1.0 0.0

triangle lightness

1,00



%Gamut

 $u^*_{rel} = 94$

ORS18; adapted (a) CIELAB data

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

%Regularity

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

Output: Colorimetric Television Luminous System TLS00

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

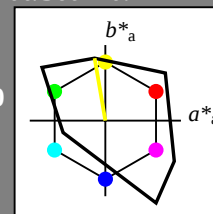
D50: hue Y

LCH*Ma: 93 84 100

olv*Ma: 1.0 1.0 0.0

triangle lightness

1,00



%Gamut

 $u^*_{rel} = 156$

TLS00; adapted (a) CIELAB data

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

%Regularity

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

PE40-7, 5 step scales for constant CIELAB hue 93/360 = 0.258 (left)



BAM-test chart PE40; Colorimetric systems ORS18 & ORS18

D50: 5 step colour scales and coordinate data for 10 hues

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

input: $olv^* \cdot setrgbcolor$

output: Startup (S) data dependend

Input: Colorimetric Offset Reflective System ORS18

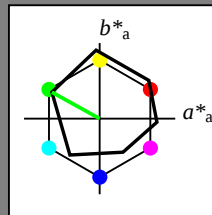
for hue $h^* = lab \cdot h = 151/360 = 0.42$ $lab \cdot tch$ and $lab \cdot nch$

D50: hue L

LCH*Ma: 51 72 151

olv*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	65.05	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

%Regularity

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

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Input: Colorimetric Offset Reflective System ORS18

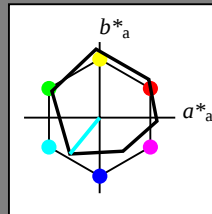
for hue $h^* = lab^*h = 231/360 = 0.641$ lab^*tch and lab^*nch

D50: hue C

LCH*Ma: 57 62 231

olv*Ma: 0.0 1.0 1.0

triangle lightness



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

%Regularity

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

1,00

0,75

blackness n^* chromaticness c^*

PE400-7, 5 step scales for constant CIELAB hue 231/360 = 0.641 (left)



BAM-test chart PE40; Colorimetric systems ORS18 & ORS18

D50: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Television Luminous System TLS00

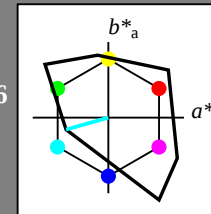
for hue $h^* = lab^*h = 196/360 = 0.544$ lab^*tch and lab^*nch

D50: hue C

LCH*Ma: 85 58 196

olv*Ma: 0.0 1.0 1.0

triangle lightness



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

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$ blackness n^* chromaticness c^*

5 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 $h^* = lab \cdot h = 356/360 = 0.99$ $lab \cdot tch$ and $lab \cdot nch$

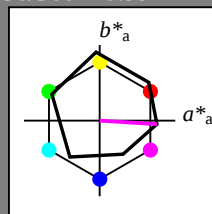
D50: hue M

LCH*Ma: 50 76 356

olv*Ma: 1.0 0.0 1.0

triangle lightness

1,00



%Gamut

 $u^*_{rel} = 94$

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

%Regularity

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

1,00

relative Inform. Technology (IT)

$olvi3^* = 1.0 \ 1.0 \ 1.0 \ (1.0)$
 $cmyn3^* = 0.0 \ 0.0 \ 0.0 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ (1.0)$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ (0.0)$

standard and adapted CIELAB

$LAB^*LAB = 95.41 \ 0.0 \ 0.0$
 $LAB^*Laba = 95.41 \ 0.0 \ 0.0$
 $LAB^*TCha = 95.99 \ 0.01 \ -$

relative CIELAB lab*

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

relative Natural Colour (NC)

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

standard and adapted CIELAB

$LAB^*LAB = 71.57 \ 0.0 \ 0.0$
 $LAB^*Laba = 71.57 \ 0.0 \ 0.0$
 $LAB^*TCha = 75.0 \ 0.01 \ -$

relative CIELAB lab*

$lab^*lab = 0.75 \ 0.0 \ 0.0$
 $lab^*tch = 0.75 \ 0.0 \ -$
 $lab^*nch = 0.25 \ 0.0 \ -$

relative Natural Colour (NC)

$lab^*trj = 0.75 \ 0.0 \ 0.0$
 $lab^*tce = 0.25 \ 0.0 \ -$
 $lab^*nce = 0.25 \ 0.0 \ -$

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)

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

standard and adapted CIELAB

$LAB^*LAB = 23.87 \ 0.0 \ 0.0$
 $LAB^*Laba = 23.87 \ 0.0 \ 0.0$
 $LAB^*TCha = 25.0 \ 0.01 \ -$

relative CIELAB lab*

$lab^*lab = 0.25 \ 0.0 \ 0.0$
 $lab^*tch = 0.25 \ 0.0 \ -$
 $lab^*nch = 0.25 \ 0.0 \ -$

relative Natural Colour (NC)

$lab^*trj = 0.25 \ 0.0 \ 0.0$
 $lab^*tce = 0.25 \ 0.0 \ -$
 $lab^*nce = 0.25 \ 0.0 \ -$

standard and adapted CIELAB

$LAB^*LAB = 14.7 \ 0.0 \ 0.0$
 $LAB^*Laba = 14.7 \ 0.0 \ 0.0$
 $LAB^*TCha = 12.5 \ 0.01 \ -$

relative CIELAB lab*

$lab^*lab = 0.154 \ 0.215 \ -0.126$
 $lab^*tch = 0.125 \ 0.25 \ 0.915$
 $lab^*nch = 0.75 \ 0.25 \ 0.915$

relative Natural Colour (NC)

$lab^*trj = 0.154 \ 0.185 \ -0.167$
 $lab^*tce = 0.125 \ 0.25 \ 0.883$
 $lab^*nce = 0.75 \ 0.25 \ 0.883$

standard and adapted CIELAB

$LAB^*LAB = 14.7 \ 22.79 \ -13.41$
 $LAB^*Laba = 14.7 \ 22.79 \ -13.41$
 $LAB^*TCha = 12.5 \ 26.44 \ 329.5$

relative CIELAB lab*

$lab^*lab = 0.154 \ 0.215 \ -0.126$
 $lab^*tch = 0.125 \ 0.25 \ 0.915$
 $lab^*nch = 0.75 \ 0.25 \ 0.915$

relative Natural Colour (NC)

$lab^*trj = 0.154 \ 0.185 \ -0.167$
 $lab^*tce = 0.125 \ 0.25 \ 0.883$
 $lab^*nce = 0.75 \ 0.25 \ 0.883$

standard and adapted CIELAB

$LAB^*LAB = 14.7 \ 22.79 \ -13.41$
 $LAB^*Laba = 14.7 \ 22.79 \ -13.41$
 $LAB^*TCha = 12.5 \ 26.44 \ 329.5$

relative CIELAB lab*

$lab^*lab = 0.154 \ 0.215 \ -0.126$
 $lab^*tch = 0.125 \ 0.25 \ 0.915$
 $lab^*nch = 0.75 \ 0.25 \ 0.915$

relative Natural Colour (NC)

$lab^*trj = 0.154 \ 0.185 \ -0.167$
 $lab^*tce = 0.125 \ 0.25 \ 0.883$
 $lab^*nce = 0.75 \ 0.25 \ 0.883$

standard and adapted CIELAB

$LAB^*LAB = 14.7 \ 22.79 \ -13.41$
 $LAB^*Laba = 14.7 \ 22.79 \ -13.41$
 $LAB^*TCha = 12.5 \ 26.44 \ 329.5$

relative CIELAB lab*

$lab^*lab = 0.154 \ 0.215 \ -0.126$
 $lab^*tch = 0.125 \ 0.25 \ 0.915$
 $lab^*nch = 0.75 \ 0.25 \ 0.915$

relative Natural Colour (NC)

$lab^*trj = 0.154 \ 0.185 \ -0.167$
 $lab^*tce = 0.125 \ 0.25 \ 0.883$
 $lab^*nce = 0.75 \ 0.25 \ 0.883$

standard and adapted CIELAB

$LAB^*LAB = 14.7 \ 22.79 \ -13.41$
 $LAB^*Laba = 14.7 \ 22.79 \ -13.41$
 $LAB^*TCha = 12.5 \ 26.44 \ 329.5$

relative CIELAB lab*

$lab^*lab = 0.154 \ 0.215 \ -0.126$
 $lab^*tch = 0.125 \ 0.25 \ 0.915$
 $lab^*nch = 0.75 \ 0.25 \ 0.915$

relative Natural Colour (NC)

$lab^*trj = 0.154 \ 0.185 \ -0.167$
 $lab^*tce = 0.125 \ 0.25 \ 0.883$
 $lab^*nce = 0.75 \ 0.25 \ 0.883$

standard and adapted CIELAB

$LAB^*LAB = 14.7 \ 22.79 \ -13.41$
 $LAB^*Laba = 14.7 \ 22.79 \ -13.41$
 $LAB^*TCha = 12.5 \ 26.44 \ 329.5$

relative CIELAB lab*

$lab^*lab = 0.154 \ 0.215 \ -0.126$
 $lab^*tch = 0.125 \ 0.25 \ 0.915$
 $lab^*nch = 0.75 \ 0.25 \ 0.915$

relative Natural Colour (NC)

$lab^*trj = 0.154 \ 0.185 \ -0.167$
 $lab^*tce = 0.125 \ 0.25 \ 0.883$
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$lab^*lab = 0.154 \ 0.215 \ -0.126$
 $lab^*tch = 0.125 \ 0.25 \ 0.915$
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relative Natural Colour (NC)

$lab^*trj = 0.154 \ 0.185 \ -0.167$
 $lab^*tce = 0.125 \ 0.25 \ 0.883$
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 $LAB^*Laba = 14.7 \ 22.79 \ -13.41$
 $LAB^*TCha = 12.5 \ 26.44 \ 329.5$

relative CIELAB lab*

$lab^*lab = 0.154 \ 0.215 \ -0.126$
 $lab^*tch = 0.125 \ 0.25 \ 0.915$
 $lab^*nch = 0.75 \ 0.25 \ 0.915$

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 $lab^*nce = 0.75 \ 0.25 \ 0.883$

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$LAB^*LAB = 14.7 \ 22.79 \ -13.41$
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 $lab^*nch = 0.75 \ 0.25 \ 0.915$

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 $lab^*tce = 0.125 \ 0.25 \ 0.883$
 $lab^*nce = 0.75 \ 0.25 \ 0.883$

standard and adapted CIELAB

$LAB^*LAB = 14.7 \ 22.79 \ -13.41$
 $LAB^*Laba = 14.7 \ 22.79 \ -13.41$
 $LAB^*TCha = 12.5 \ 26.44 \ 329.5$

relative CIELAB lab*

$lab^*lab = 0.154 \ 0.215 \ -0.126$
 $lab^*tch = 0.125 \ 0.25 \ 0.915$
 $lab^*nch = 0.75 \ 0.25 \ 0.915$

relative Natural Colour (NC)

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 $lab^*tce = 0.125 \ 0.25 \ 0.883$
 $lab^*nce = 0.75 \ 0.25 \ 0.883$

standard and adapted CIELAB

$LAB^*LAB = 14.7 \ 22.79 \ -13.41$
 $LAB^*Laba = 14.7 \ 22.79 \ -13.41$
 $LAB^*TCha = 12.5 \ 26.44 \ 329.5$

relative CIELAB lab*

$lab^*lab = 0.154 \ 0.215 \ -0.126$
 $lab^*tch = 0.125 \ 0.25 \ 0.915$
 $lab^*nch = 0.75 \ 0.25 \ 0.915$

relative Natural Colour (NC)

$lab^*trj = 0.154 \ 0.185 \ -0.167$
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 $lab^*nce = 0.75 \ 0.25 \ 0.883$

standard and adapted CIELAB

$LAB^*LAB = 14.7 \ 22.79 \ -13.41$
 $LAB^*Laba = 14.7 \ 22.79 \ -13.41$
 $LAB^*TCha = 12.5 \ 26.44 \ 329.5$

relative CIELAB lab*

$lab^*lab = 0.154 \ 0.215 \ -0.126$
 $lab^*tch = 0.125 \ 0.25 \ 0.915$
 $lab^*nch = 0.75 \ 0.25 \ 0.915$

relative Natural Colour (NC)

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 $lab^*tce = 0.125 \ 0.25 \ 0.883$
 $lab^*nce = 0.75 \ 0.25 \ 0.883$

standard and adapted CIELAB

$LAB^*LAB = 14.7 \ 22.79 \ -13.41$
 $LAB^*Laba = 14.7 \ 22.79 \ -13.41$
 $LAB^*TCha = 12.5 \ 26.44 \ 329.5$

relative CIELAB lab*

$lab^*lab = 0.154 \ 0.215 \ -0.126$
 $lab^*tch = 0.125 \ 0.25 \ 0.915$
 $lab^*nch = 0.75 \ 0.25 \ 0.915$

relative Natural Colour (NC)

$lab^*trj = 0.154 \ 0.185 \ -0.167$
 $lab^*tce = 0.125 \ 0.25 \ 0.883$
 $lab^*nce = 0.75 \ 0.25 \ 0.883$

standard and adapted CIELAB

$LAB^*LAB = 14.7 \ 22.79 \ -13.41$
 $LAB^*Laba = 14.7 \ 22.79 \ -13.41$
 $LAB^*TCha = 12.5 \ 26.44 \ 329.5$

relative CIELAB lab*

$lab^*lab = 0.154 \ 0.215 \ -0.126$
 $lab^*tch = 0.125 \ 0.25 \ 0.915$
 $lab^*nch = 0.75 \ 0.25 \ 0.915$

relative Natural Colour (NC)

$lab^*trj = 0.154 \ 0.185 \ -0.167$
 $lab^*tce = 0.125 \ 0.25 \ 0.883$
 $lab^*nce = 0.75 \ 0.25 \ 0.883$

standard and adapted CIELAB

$LAB^*LAB = 14.7 \ 22.79 \ -13.41$
 $LAB^*Laba =$

Input: Colorimetric Offset Reflective System ORS18

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

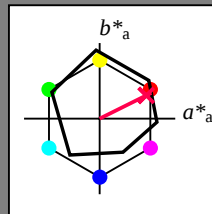
D50: hue R

LCH*Ma: 49 76 26

olv*Ma: 1.0 0.0 0.3

triangle lightness

1,00



%Gamut

 $u^*_{rel} = 94$

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

%Regularity

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

1,00

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0.0	(0.0)	
olvi4*	1.0	1.0	1.0	1.0	
cmyn4*	0.0	0.0	0.0	0.0	
standard and adapted CIELAB					
LAB*LAB	95.41	0.0	0.0		
LAB*LABa	95.41	0.0	0.0		
LAB*LABb	95.41	0.0	0.0		
LAB*LABc	95.41	0.0	0.0		
LAB*LABd	95.41	0.0	0.0		
LAB*LABe	95.41	0.0	0.0		
LAB*LABf	95.41	0.0	0.0		
LAB*LABg	95.41	0.0	0.0		
LAB*LABh	95.41	0.0	0.0		
LAB*LABi	95.41	0.0	0.0		
LAB*LABj	95.41	0.0	0.0		
LAB*LABk	95.41	0.0	0.0		
LAB*LABl	95.41	0.0	0.0		
LAB*LABm	95.41	0.0	0.0		
LAB*LABn	95.41	0.0	0.0		
LAB*LABo	95.41	0.0	0.0		
LAB*LABp	95.41	0.0	0.0		
LAB*LABq	95.41	0.0	0.0		
LAB*LABr	95.41	0.0	0.0		
LAB*LABs	95.41	0.0	0.0		
LAB*LABt	95.41	0.0	0.0		
LAB*LABu	95.41	0.0	0.0		
LAB*LABv	95.41	0.0	0.0		
LAB*LABw	95.41	0.0	0.0		
LAB*LABx	95.41	0.0	0.0		
LAB*LABy	95.41	0.0	0.0		
LAB*LABz	95.41	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.75	(1.0)	
cmyn3*	0.25	0.25	0.25	(0.0)	
olvi4*	1.0	1.0	1.0	1.0	
cmyn4*	0.0	0.0	0.0	0.0	
standard and adapted CIELAB					
LAB*LAB	71.57	0.0	0.0		
LAB*LABa	71.57	0.0	0.0		
LAB*LABb	71.57	0.0	0.0		
LAB*LABc	71.57	0.0	0.0		
LAB*LABd	71.57	0.0	0.0		
LAB*LABe	71.57	0.0	0.0		
LAB*LABf	71.57	0.0	0.0		
LAB*LABg	71.57	0.0	0.0		
LAB*LABh	71.57	0.0	0.0		
LAB*LABi	71.57	0.0	0.0		
LAB*LABj	71.57	0.0	0.0		
LAB*LABk	71.57	0.0	0.0		
LAB*LABl	71.57	0.0	0.0		
LAB*LABm	71.57	0.0	0.0		
LAB*LABn	71.57	0.0	0.0		
LAB*LABo	71.57	0.0	0.0		
LAB*LABp	71.57	0.0	0.0		
LAB*LABq	71.57	0.0	0.0		
LAB*LABr	71.57	0.0	0.0		
LAB*LABs	71.57	0.0	0.0		
LAB*LABt	71.57	0.0	0.0		
LAB*LABu	71.57	0.0	0.0		
LAB*LABv	71.57	0.0	0.0		
LAB*LABw	71.57	0.0	0.0		
LAB*LABx	71.57	0.0	0.0		
LAB*LABy	71.57	0.0	0.0		
LAB*LABz	71.57	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	1.0	
cmyn4*	0.0	0.0	0.0	0.0	
standard and adapted CIELAB					
LAB*LAB	47.72	0.0	0.0		
LAB*LABa	47.72	0.0	0.0		
LAB*LABb	47.72	0.0	0.0		
LAB*LABc	47.72	0.0	0.0		
LAB*LABd	47.72	0.0	0.0		
LAB*LABe	47.72	0.0	0.0		
LAB*LABf	47.72	0.0	0.0		
LAB*LABg	47.72	0.0	0.0		
LAB*LABh	47.72	0.0	0.0		
LAB*LABi	47.72	0.0	0.0		
LAB*LABj	47.72	0.0	0.0		
LAB*LABk	47.72	0.0	0.0		
LAB*LABl	47.72	0.0	0.0		
LAB*LABm	47.72	0.0	0.0		
LAB*LABn	47.72	0.0	0.0		
LAB*LABo	47.72	0.0	0.0		
LAB*LABp	47.72	0.0	0.0		
LAB*LABq	47.72	0.0	0.0		
LAB*LABr	47.72	0.0	0.0		
LAB*LABs	47.72	0.0	0.0		
LAB*LABt	47.72	0.0	0.0		
LAB*LABu	47.72	0.0	0.0		
LAB*LABv	47.72	0.0	0.0		
LAB*LABw	47.72	0.0	0.0		
LAB*LABx	47.72	0.0	0.0		
LAB*LABy	47.72	0.0	0.0		
LAB*LABz	47.72	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.25	0.25	0.25	(1.0)	
cmyn3*	0.75	0.75	0.75	(0.0)	
olvi4*	1.0	1.0	1.0	1.0	
cmyn4*	0.0	0.0	0.0	0.0	
standard and adapted CIELAB					
LAB*LAB	23.87	0.0	0.0		
LAB*LABa	23.87	0.0	0.0		
LAB*LABb	23.87	0.0	0.0		
LAB*LABc	23.87	0.0	0.0		
LAB*LABd	23.87	0.0	0.0		
LAB*LABe	23.87	0.0	0.0		
LAB*LABf	23.87	0.0	0.0		
LAB*LABg	23.87	0.0	0.0		
LAB*LABh	23.87	0.0	0.0		
LAB*LABi	23.87	0.0	0.0		
LAB*LABj	23.87	0.0	0.0		
LAB*LABk	23.87	0.0	0.0		
LAB*LABl	23.87	0.0	0.0		
LAB*LABm	23.87	0.0	0.0		
LAB*LABn	23.87	0.0	0.0		
LAB*LABo	23.87	0.0	0.0		
LAB*LABp	23.87	0.0	0.0		
LAB*LABq	23.87	0.0	0.0		
LAB*LABr	23.87	0.0	0.0		
LAB*LABs	23.87	0.0	0.0		
LAB*LABt	23.87	0.0	0.0		
LAB*LABu	23.87	0.0	0.0		
LAB*LABv	23.87	0.0	0.0		
LAB*LABw	23.87	0.0	0.0		
LAB*LABx	23.87	0.0	0.0		
LAB*LABy	23.87	0.0	0.0		
LAB*LABz	23.87	0.0	0.0		

relative Inform. Technology (IT)					
olvi3*	0.0	0.0	0.0	(1.0)	
cmyn3*	1.0	1.0	1.0	(0.0)	
olvi4*	1.0	1.0	1.0	1.0	
cmyn4*	0.0	0.0	0.0	0.0	
standard and adapted CIELAB					
LAB*LAB	0.03	0.0	0.0		
LAB*LABa	0.03	0.0	0.0		
LAB*LABb	0.03	0.0	0.0		
LAB*LABc	0.03	0.0	0.0		
LAB*LABd	0.03	0.0	0.0		
LAB*LABe	0.03	0.0	0.0		
LAB*LABf	0.03	0.0	0.0		
LAB*LABg	0.03	0.0	0.0		
LAB*LABh	0.03	0.0	0.0		
LAB*LABi	0.03	0.0	0.0		
LAB*LABj	0.03	0.0	0.0		
LAB*LABk	0.03	0.0	0.0		
LAB*LABl	0.03	0.0	0.0		
LAB*LABm	0.03	0.0	0.0		
LAB*LABn	0.03	0.0	0.0		
LAB*LABo	0.03	0.0	0.0		
LAB*LABp	0.03	0.0	0.0		
LAB*LABq	0.03	0.0	0.0		
LAB*LABr	0.03	0.0	0.0		
LAB*LABs	0.03	0.0	0.0		
LAB*LABt	0.03	0.0	0.0		
LAB*LABu	0.03	0.0	0.0		
LAB*LABv	0.03	0.0	0.0		
LAB*LABw	0.03	0.0	0.0		
LAB*LABx	0.03	0.0	0.0		
LAB*LABy	0.03	0.0	0.0		
LAB*LABz	0.03	0.0	0.0		

 $n^* = 1,0$ blackness n^* chromaticness c^*

0,00

0,25

0,50

0,75

1,00

1,25

1,50

1,75

2,00

2,25

2,50

2,75

3,00

3,25

3,50

3,75

4,00

4,25

4,50

4,75

5,00

5,25

5,50

5,75

6,00

6,25

6,50

6,75

7,00

7,25

7,50

7,75

8,00

8,25

8,50

8,75

9,00

9,25

9,50

9,75

10,00

10,25

10,50

10,75

11,00

11,25

11,50

11,75

12,00

12,25

12,50

12,75

13,00

13,25

13,50

13,75

14,00

14,25

14,50

14,75

15,00

15,25

15,50

15,75

16,00

16,25

16,50

16,75

17,00

17,25

Input: Colorimetric Offset Reflective System ORS18

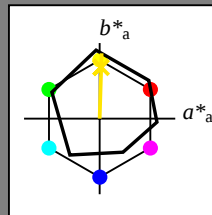
for hue $h^* = lab^*h = 88/360 = 0.245$ lab^*tch and lab^*nch

D50: hue J

LCH*Ma: 86 86 88

olv*Ma: 1.0 0.9 0.0

triangle lightness



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

%Regularity

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

Output: Colorimetric Television Luminous System TLS00

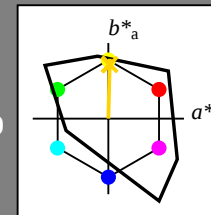
for hue $h^* = lab^*h = 89/360 = 0.246$ lab^*tch and lab^*nch

D50: hue J

LCH*Ma: 87 79 89

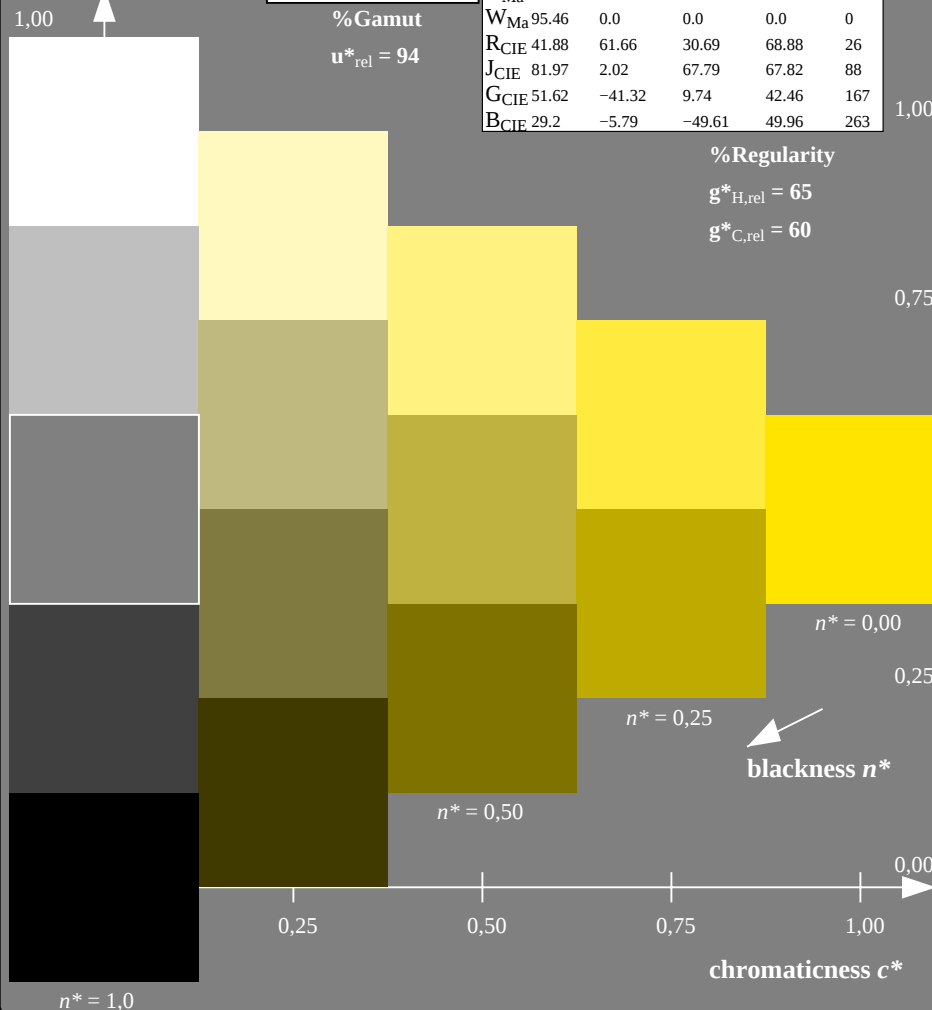
olv*Ma: 1.0 0.83 0.0

triangle lightness



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

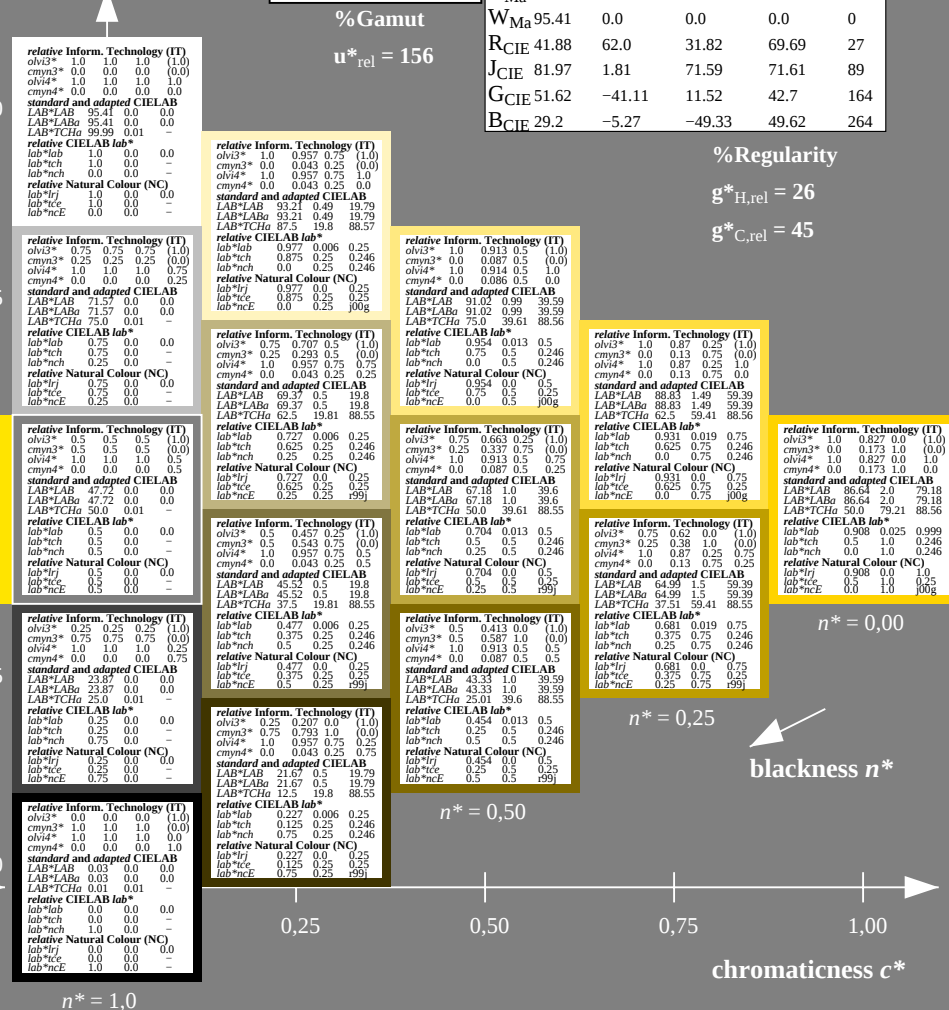
%Regularity

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

PE40-7, 5 step scales for constant CIELAB hue 88/360 = 0.245 (left)

BAM-test chart PE40; Colorimetric systems ORS18 & ORS18

D50: 5 step colour scales and coordinate data for 10 hues



5 step scales for constant CIELAB hue 89/360 = 0.246 (right)

input: $olv^* setrgbcolor$

output: Startup (S) data dependend

Input: Colorimetric Offset Reflective System ORS18

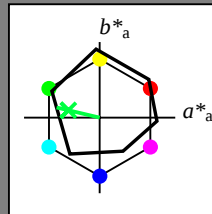
for hue $h^* = lab \cdot h = 167/360 = 0.463$ $lab \cdot tch$ and $lab \cdot nch$

D50: hue G

LCH*Ma: 52 59 167

olv*Ma: 0.0 1.0 0.26

triangle lightness



ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	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

%Regularity

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

1,00

0,75

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

PE40-7, 5 step scales for constant CIELAB hue 167/360 = 0.463 (left)

BAM-test chart PE40; Colorimetric systems ORS18 & ORS18

D50: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Television Luminous System TLS00

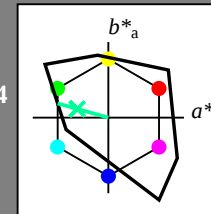
for hue $h^* = lab \cdot h = 164/360 = 0.457$ $lab \cdot tch$ and $lab \cdot nch$

D50: hue G

LCH*Ma: 84 70 164

olv*Ma: 0.0 1.0 0.6

triangle lightness



%Gamut

 $u^*_{rel} = 156$

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

%Regularity

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

1,00

0,75

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

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

input: $olv^* \cdot setrgbcolor$

output: Startup (S) data dependend

Input: Colorimetric Offset Reflective System ORS18

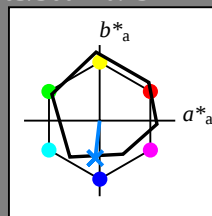
for hue $h^* = lab \cdot h = 263/360 = 0.731$ $lab \cdot tch$ and $lab \cdot nch$

D50: hue B

LCH*Ma: 42 47 263

olv*Ma: 0.0 0.52 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	65.05	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

%Regularity

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

1,00

0,75

blackness n^* chromaticness c^*

PE400-7, 5 step scales for constant CIELAB hue 263/360 = 0.731 (left)



BAM-test chart PE40; Colorimetric systems ORS18 & ORS18

D50: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Television Luminous System TLS00

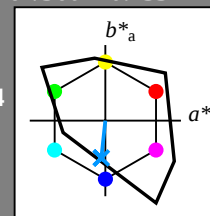
for hue $h^* = lab \cdot h = 264/360 = 0.733$ $lab \cdot tch$ and $lab \cdot nch$

D50: hue B

LCH*Ma: 61 54 264

olv*Ma: 0.0 0.59 1.0

triangle lightness



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

%Regularity

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

1,00

0,75

blackness n^* chromaticness c^*

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

input: $olv^* \cdot setrgbcolor$

output: Startup (S) data dependend