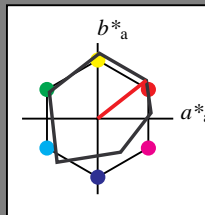


Input: Colorimetric Offset Reflective System ORS18

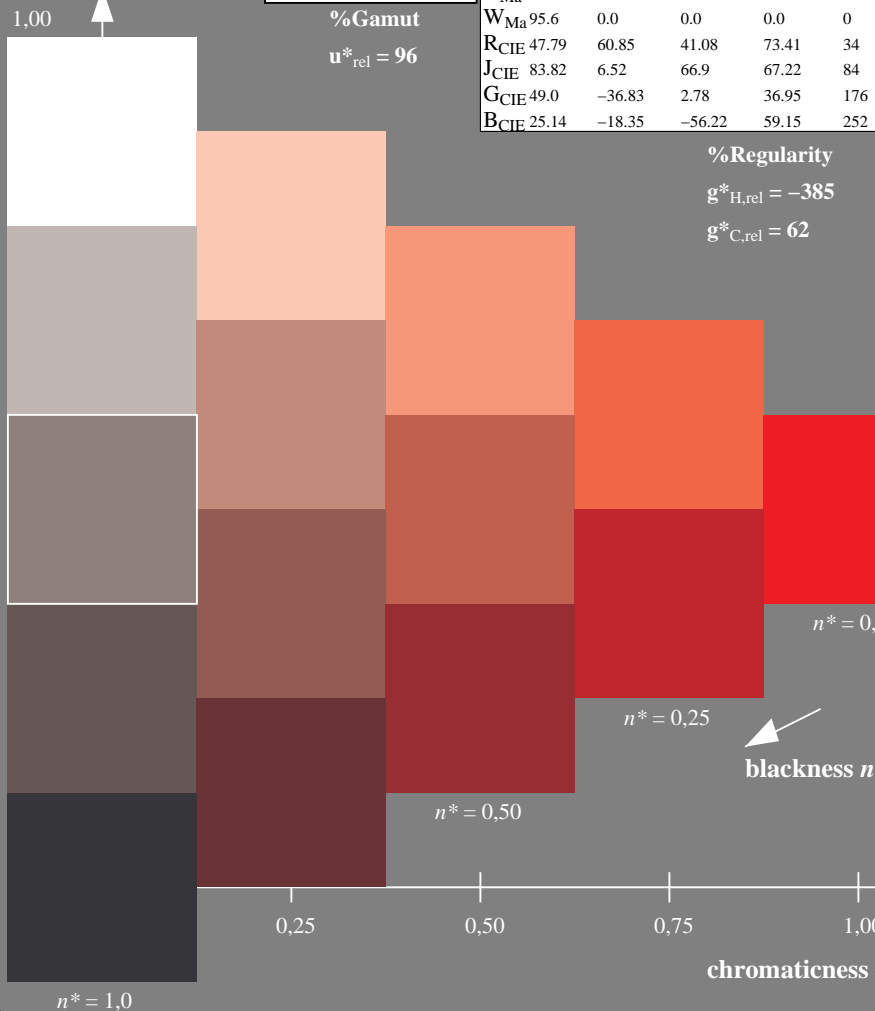
for hue $h^* = lab^*h = 38/360 = 0.106$
 lab^*tch and lab^*nch

A: hue O
 LCH*Ma: 48 82 38
 olv*Ma: 1.0 0.0 0.0
 triangle lightness



ORS18; adapted (a) CIELAB data

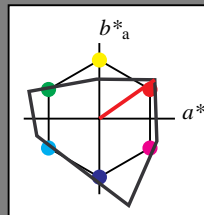
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252



Output: Colorimetric Television Luminous System TLS00

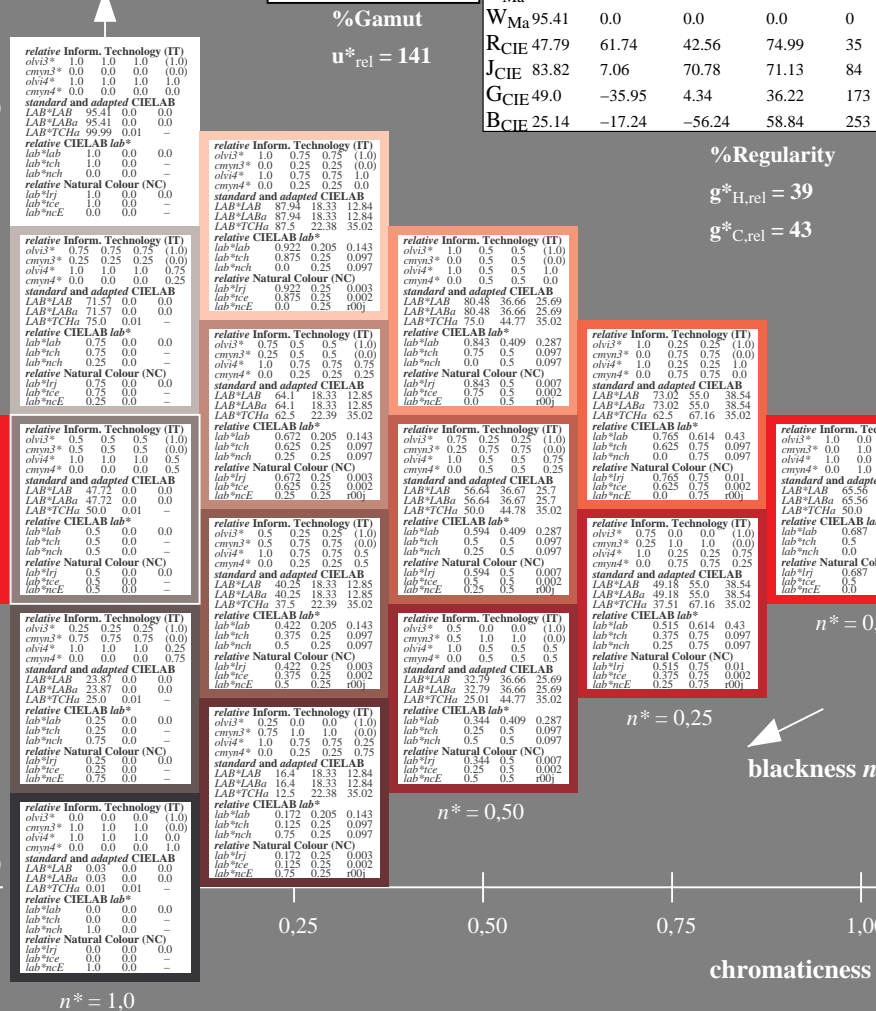
for hue $h^* = lab^*h = 35/360 = 0.097$
 lab^*tch and lab^*nch

A: hue O
 LCH*Ma: 66 90 35
 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}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	74.48	-92.97	36.0	93.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253



SE400-7, 5 step scales for constant CIELAB hue 38/360 = 0.106 (left)

5 step scales for constant CIELAB hue 35/360 = 0.097 (right)

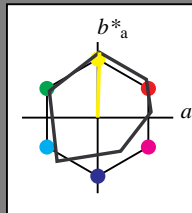
BAM-test chart SE40; Colorimetric systems ORS18 & TLS00
 A: 5 step colour scales and coordinate data for 10 hues

input: $cmY0^* setcmykcolor$
 output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

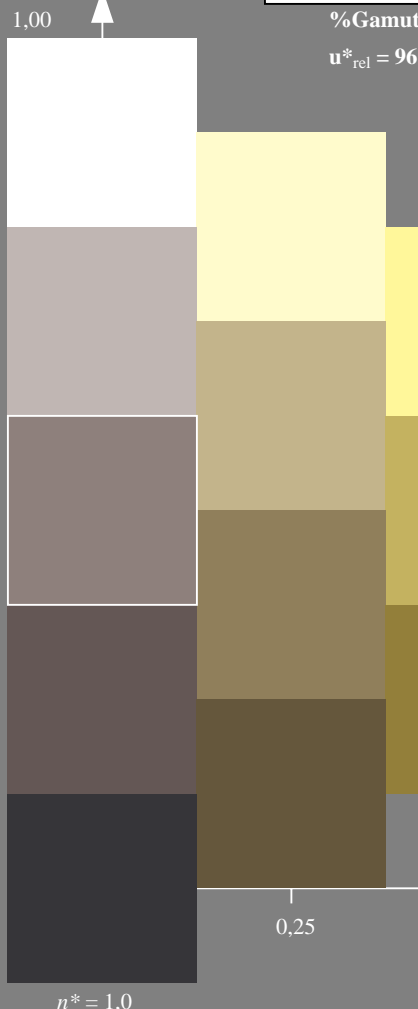
for hue $h^* = lab^*h = 88/360 = 0.246$
 lab^*tch and lab^*nch

A: hue Y
 LCH*Ma: 93 86 88
 olv*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	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252



%Regularity

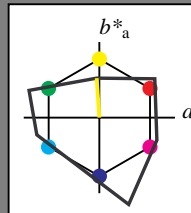
$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

Output: Colorimetric Television Luminous System TLS00

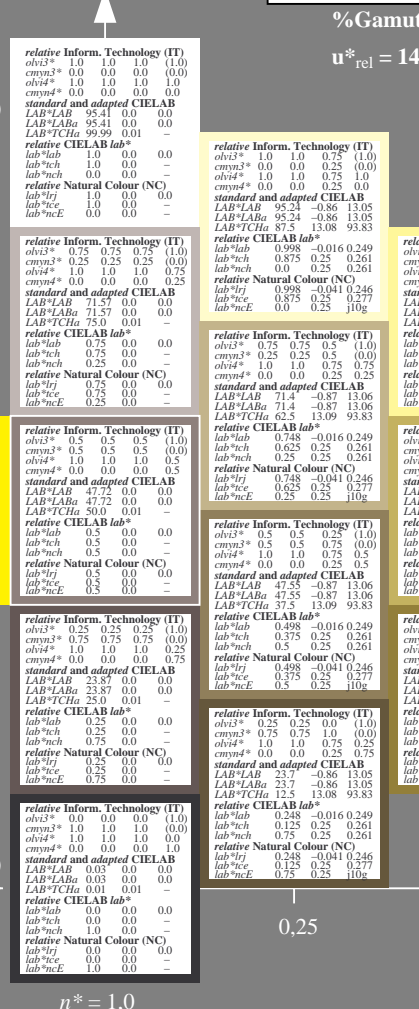
for hue $h^* = lab^*h = 94/360 = 0.261$
 lab^*tch and lab^*nch

A: hue Y
 LCH*Ma: 95 52 94
 olv*Ma: 1.0 1.0 0.0
 triangle lightness



TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	74.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253



%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$

SE400-7, 5 step scales for constant CIELAB hue 88/360 = 0.246 (left)

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

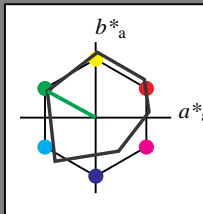
BAM-test chart SE40; Colorimetric systems ORS18 & TLS00
 A: 5 step colour scales and coordinate data for 10 hues

input: $cmY^*_{set} cmykcolor$
 output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

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

A: hue L
 LCH*Ma: 51 73 151
 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	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

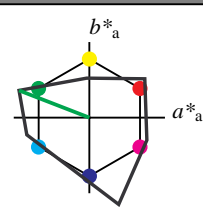
$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 159/360 = 0.441$
 lab^*tch and lab^*nch

A: hue L
 LCH*Ma: 77 100 159
 olv*Ma: 0.0 1.0 0.0
 triangle lightness



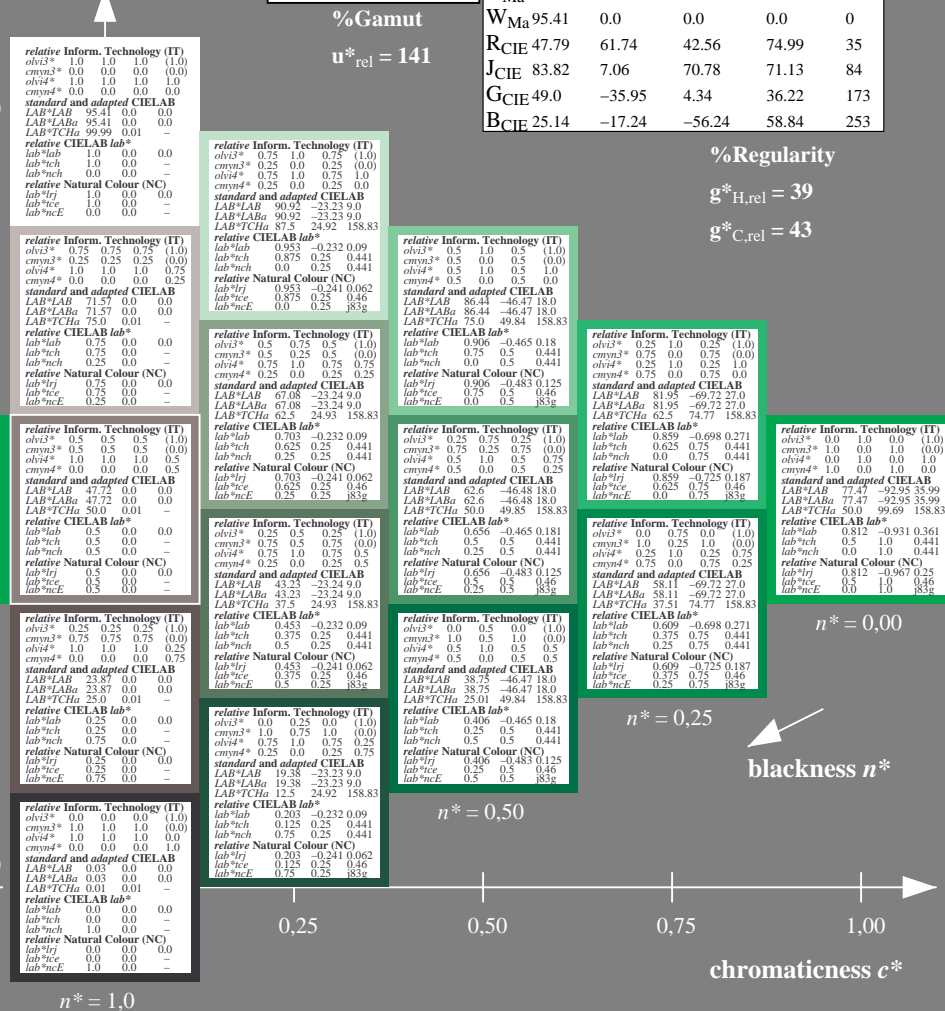
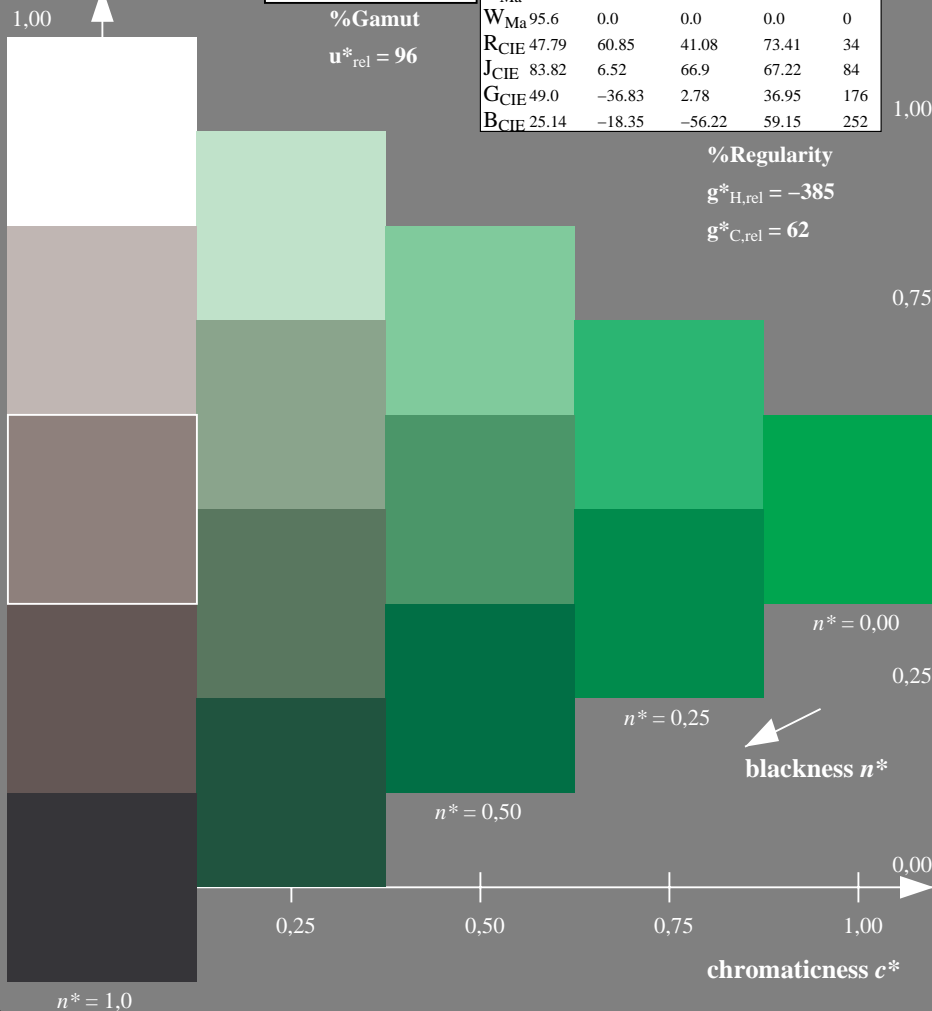
TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	77.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$



SE400-7, 5 step scales for constant CIELAB hue 151/360 = 0.42 (left)

5 step scales for constant CIELAB hue 159/360 = 0.441 (right)

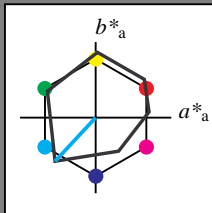
BAM-test chart SE40; Colorimetric systems ORS18 & TLS00
 A: 5 step colour scales and coordinate data for 10 hues

input: $cmY0^* setcmykcolor$
 output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

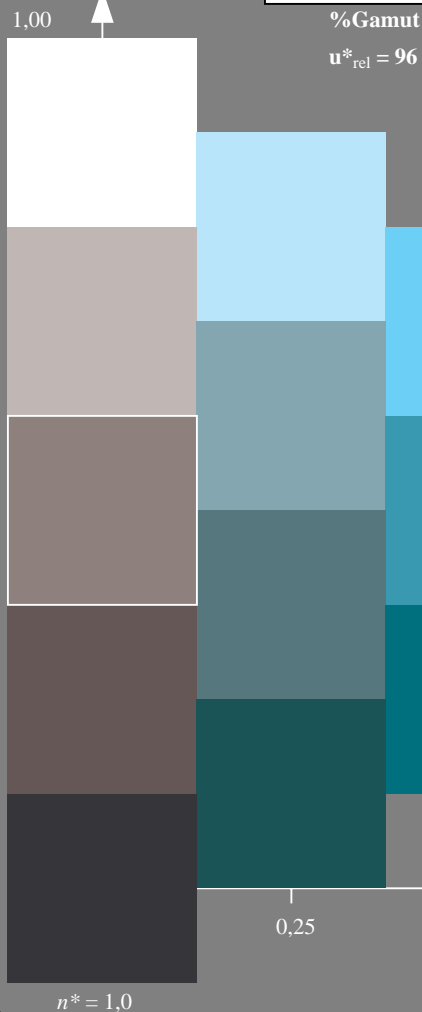
for hue $h^* = lab^*h = 227/360 = 0.631$
 lab^*tch and lab^*nch

A: hue C
 LCH*Ma: 51 79 227
 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	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252



%Regularity
 $g^*_{H,rel} = -385$
 $g^*_{C,rel} = 62$

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
 $LAB^*LAB 95.41 0.0 0.0$
 $LAB^*LAb 95.41 0.0 0.0$
 $LAB^*TCh 99.99 0.01 -$

relative CIELAB lab*
 $lab^*lab 1.0 0.0 0.0$
 $lab^*nch 1.0 0.0 -$
 $lab^*tch 0.0 0.0 -$
relative Natural Colour (NC)
 $lab^*trj 1.0 0.0 0.0$
 $lab^*tce 1.0 0.0 -$
 $lab^*nce 0.0 0.0 -$

relative Inform. Technology (IT)
 $olvi3^* 0.75 0.75 0.75 (1.0)$
 $cmyn3^* 0.25 0.25 0.25 (0.0)$
 $olvi4^* 1.0 1.0 1.0 0.75$
 $cmyn4^* 0.0 0.0 0.0 0.25$
standard and adapted CIELAB
 $LAB^*LAB 71.57 0.0 0.0$
 $LAB^*LAb 71.57 0.0 0.0$
 $LAB^*TCh 75.0 0.01 -$

relative CIELAB lab*
 $lab^*lab 0.75 0.75 0.75 (1.0)$
 $lab^*nch 0.75 0.0 -$
 $lab^*tch 0.25 0.0 -$
relative Natural Colour (NC)
 $lab^*trj 0.75 0.0 0.0$
 $lab^*tce 0.75 0.0 -$
 $lab^*nce 0.25 0.0 -$

relative Inform. Technology (IT)
 $olvi3^* 0.5 0.5 0.5 (0.0)$
 $cmyn3^* 0.5 0.5 0.5 (0.0)$
 $olvi4^* 1.0 1.0 1.0 0.5$
 $cmyn4^* 0.0 0.0 0.0 0.5$
standard and adapted CIELAB
 $LAB^*LAB 47.72 0.0 0.0$
 $LAB^*LAb 47.72 0.0 0.0$
 $LAB^*TCh 50.0 0.01 -$

relative CIELAB lab*
 $lab^*lab 0.5 0.5 0.5 (1.0)$
 $lab^*nch 0.5 0.0 -$
 $lab^*tch 0.0 0.0 -$
relative Natural Colour (NC)
 $lab^*trj 0.5 0.0 0.0$
 $lab^*tce 0.5 0.0 -$
 $lab^*nce 0.5 0.0 -$

relative Inform. Technology (IT)
 $olvi3^* 0.25 0.25 0.25 (1.0)$
 $cmyn3^* 0.75 0.75 0.75 (0.0)$
 $olvi4^* 1.0 1.0 1.0 0.25$
 $cmyn4^* 0.0 0.0 0.0 0.75$
standard and adapted CIELAB
 $LAB^*LAB 23.87 0.0 0.0$
 $LAB^*LAb 23.87 0.0 0.0$
 $LAB^*TCh 25.0 0.01 -$

relative CIELAB lab*
 $lab^*lab 0.25 0.0 0.0$
 $lab^*nch 0.25 0.0 -$
 $lab^*tch 0.0 0.0 -$
relative Natural Colour (NC)
 $lab^*trj 0.25 0.0 0.0$
 $lab^*tce 0.25 0.0 -$
 $lab^*nce 0.75 0.0 -$

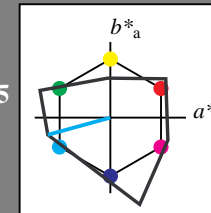
relative Inform. Technology (IT)
 $olvi3^* 0.0 0.0 0.0 (1.0)$
 $cmyn3^* 1.0 1.0 1.0 (0.0)$
 $olvi4^* 1.0 1.0 1.0 0.0$
 $cmyn4^* 0.0 0.0 0.0 1.0$
standard and adapted CIELAB
 $LAB^*LAB 0.03 0.0 0.0$
 $LAB^*LAb 0.03 0.0 0.0$
 $LAB^*TCh 0.0 0.01 -$

relative CIELAB lab*
 $lab^*lab 0.0 0.0 0.0$
 $lab^*nch 0.0 0.0 -$
 $lab^*tch 1.0 0.0 -$
relative Natural Colour (NC)
 $lab^*trj 0.0 0.0 0.0$
 $lab^*tce 0.0 0.0 -$
 $lab^*nce 1.0 0.0 -$

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 195/360 = 0.543$
 lab^*tch and lab^*nch

A: hue C
 LCH*Ma: 78 86 195
 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}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	77.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253

%Gamut
 $u^*_{rel} = 141$

%Regularity
 $g^*_{H,rel} = 39$
 $g^*_{C,rel} = 43$

relative Inform. Technology (IT)
 $olvi3^* 0.75 1.0 1.0 (1.0)$
 $cmyn3^* 0.25 0.0 0.0 (0.0)$
 $olvi4^* 0.75 1.0 1.0 1.0$
 $cmyn4^* 0.25 0.0 0.0 0.0$
standard and adapted CIELAB
 $LAB^*LAB 91.14 -20.66 -5.68$
 $LAB^*LAb 91.14 -20.66 -5.68$
 $LAB^*TCh 87.5 21.43 195.38$

relative CIELAB lab*
 $lab^*lab 0.75 1.0 1.0 (1.0)$
 $lab^*nch 0.875 0.25 0.543$
 $lab^*tch 0.0 0.25 0.543$
relative Natural Colour (NC)
 $lab^*trj 0.955 -0.225 -0.105$
 $lab^*tce 0.875 0.25 0.57$
 $lab^*nce 0.0 0.25 0.276$

relative Inform. Technology (IT)
 $olvi3^* 0.5 0.75 0.75 (1.0)$
 $cmyn3^* 0.5 0.25 0.25 (0.0)$
 $olvi4^* 0.75 1.0 1.0 0.75$
 $cmyn4^* 0.0 0.0 0.0 0.25$
standard and adapted CIELAB
 $LAB^*LAB 67.3 -20.67 -5.68$
 $LAB^*LAb 67.3 -20.67 -5.68$
 $LAB^*TCh 62.5 21.44 195.38$

relative CIELAB lab*
 $lab^*lab 0.5 0.75 0.75 (1.0)$
 $lab^*nch 0.625 0.25 0.543$
 $lab^*tch 0.25 0.25 0.543$
relative Natural Colour (NC)
 $lab^*trj 0.705 -0.225 -0.105$
 $lab^*tce 0.625 0.25 0.57$
 $lab^*nce 0.25 0.25 0.276$

relative Inform. Technology (IT)
 $olvi3^* 0.25 0.5 0.5 (0.0)$
 $cmyn3^* 0.75 1.0 1.0 0.5$
 $olvi4^* 0.25 0.0 0.0 0.5$
 $cmyn4^* 0.0 0.0 0.0 0.5$
standard and adapted CIELAB
 $LAB^*LAB 43.45 -20.67 -5.68$
 $LAB^*LAb 43.45 -20.67 -5.68$
 $LAB^*TCh 37.5 21.44 195.38$

relative CIELAB lab*
 $lab^*lab 0.25 0.5 0.5 (1.0)$
 $lab^*nch 0.375 0.25 0.543$
 $lab^*tch 0.25 0.25 0.543$
relative Natural Colour (NC)
 $lab^*trj 0.455 -0.225 -0.105$
 $lab^*tce 0.375 0.25 0.57$
 $lab^*nce 0.5 0.25 0.276$

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
 $LAB^*LAB 19.6 -20.66 -5.68$
 $LAB^*LAb 19.6 -20.66 -5.68$
 $LAB^*TCh 12.5 21.43 195.38$

relative CIELAB lab*
 $lab^*lab 0.0 0.5 0.5 (1.0)$
 $lab^*nch 0.125 0.25 0.543$
 $lab^*tch 0.0 0.5 0.543$
relative Natural Colour (NC)
 $lab^*trj 0.305 -0.225 -0.105$
 $lab^*tce 0.125 0.25 0.57$
 $lab^*nce 0.75 0.25 0.276$

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
 $LAB^*LAB 0.03 0.0 0.0$
 $LAB^*LAb 0.03 0.0 0.0$
 $LAB^*TCh 0.0 0.01 -$

relative CIELAB lab*
 $lab^*lab 0.0 0.0 0.0$
 $lab^*nch 0.0 0.0 -$
 $lab^*tch 1.0 0.0 -$
relative Natural Colour (NC)
 $lab^*trj 0.0 0.0 0.0$
 $lab^*tce 0.0 0.0 -$
 $lab^*nce 1.0 0.0 -$

relative Inform. Technology (IT)
 $olvi3^* 0.5 1.0 1.0 (1.0)$
 $cmyn3^* 0.5 0.0 0.0 (0.0)$
 $olvi4^* 0.5 1.0 1.0 1.0$
 $cmyn4^* 0.0 0.0 0.0 0.0$
standard and adapted CIELAB
 $LAB^*LAB 86.88 -41.33 -11.36$
 $LAB^*LAb 86.88 -41.33 -11.36$
 $LAB^*TCh 75.0 42.88 195.38$

relative CIELAB lab*
 $lab^*lab 0.5 1.0 1.0 (1.0)$
 $lab^*nch 0.75 0.5 0.543$
 $lab^*tch 0.0 0.5 0.543$
relative Natural Colour (NC)
 $lab^*trj 0.911 -0.452 -0.211$
 $lab^*tce 0.75 0.5 0.57$
 $lab^*nce 0.0 0.5 0.276$

relative Inform. Technology (IT)
 $olvi3^* 0.25 1.0 1.0 (1.0)$
 $cmyn3^* 0.75 0.75 0.75 (0.0)$
 $olvi4^* 0.25 1.0 1.0 1.0$
 $cmyn4^* 0.0 0.0 0.0 0.0$
standard and adapted CIELAB
 $LAB^*LAB 82.61 -62.01 -17.05$
 $LAB^*LAb 82.61 -62.01 -17.05$
 $LAB^*TCh 62.5 64.32 195.38$

relative CIELAB lab*
 $lab^*lab 0.25 1.0 1.0 (1.0)$
 $lab^*nch 0.625 0.75 0.543$
 $lab^*tch 0.0 0.75 0.543$
relative Natural Colour (NC)
 $lab^*trj 0.866 -0.678 -0.317$
 $lab^*tce 0.625 0.75 0.57$
 $lab^*nce 0.0 0.75 0.276$

relative Inform. Technology (IT)
 $olvi3^* 0.0 0.75 0.75 (1.0)$
 $cmyn3^* 1.0 0.25 0.25 (0.0)$
 $olvi4^* 0.25 1.0 1.0 0.75$
 $cmyn4^* 1.0 0.0 0.0 0.25$
standard and adapted CIELAB
 $LAB^*LAB 58.77 -62.01 -17.05$
 $LAB^*LAb 58.77 -62.01 -17.05$
 $LAB^*TCh 50.0 85.75 195.38$

relative CIELAB lab*
 $lab^*lab 0.0 0.75 0.75 (1.0)$
 $lab^*nch 0.375 0.25 0.543$
 $lab^*tch 0.0 0.25 0.543$
relative Natural Colour (NC)
 $lab^*trj 0.821 -0.904 -0.423$
 $lab^*tce 0.5 1.0 0.57$
 $lab^*nce 0.0 1.0 0.276$

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
 $LAB^*LAB 39.19 -41.33 -11.36$
 $LAB^*LAb 39.19 -41.33 -11.36$
 $LAB^*TCh 37.5 64.32 195.38$

relative CIELAB lab*
 $lab^*lab 0.0 0.5 0.5 (1.0)$
 $lab^*nch 0.411 -0.481 -0.132$
 $lab^*tch 0.25 0.5 0.543$
 $lab^*nch 0.1 0.5 0.543$
relative Natural Colour (NC)
 $lab^*trj 0.616 -0.452 -0.211$
 $lab^*tce 0.25 0.5 0.57$
 $lab^*nce 0.5 0.5 0.276$

relative Inform. Technology (IT)
 $olvi3^* 0.0 0.0 0.0 (1.0)$
 $cmyn3^* 1.0 0.0 0.0 (0.0)$
 $olvi4^* 1.0 0.0 0.0 0.0$
 $cmyn4^* 0.0 0.0 0.0 1.0$
standard and adapted CIELAB
 $LAB^*LAB 0.03 0.0 0.0$
 $LAB^*LAb 0.03 0.0 0.0$
 $LAB^*TCh 0.0 0.01 -$

relative CIELAB lab*
 $lab^*lab 0.0 0.0 0.0$
 $lab^*nch 0.0 0.0 -$
 $lab^*tch 1.0 0.0 -$
relative Natural Colour (NC)
 $lab^*trj 0.0 0.0 0.0$
 $lab^*tce 0.0 0.0 -$
 $lab^*nce 1.0 0.0 -$

SE40-7, 5 step scales for constant CIELAB hue 227/360 = 0.631 (left)

5 step scales for constant CIELAB hue 195/360 = 0.543 (right)

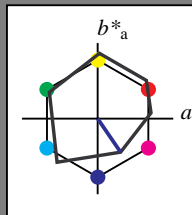
BAM-test chart SE40; Colorimetric systems ORS18 & TLS00
 A: 5 step colour scales and coordinate data for 10 hues

input: $cmY0^* setcmykcolor$
 output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 304/360 = 0.845$
 lab^*tch and lab^*nch

A: hue V
 LCH*Ma: 26 54 304
 olv*Ma: 0.0 0.0 1.0
 triangle lightness



ORS18; adapted (a) CIELAB data

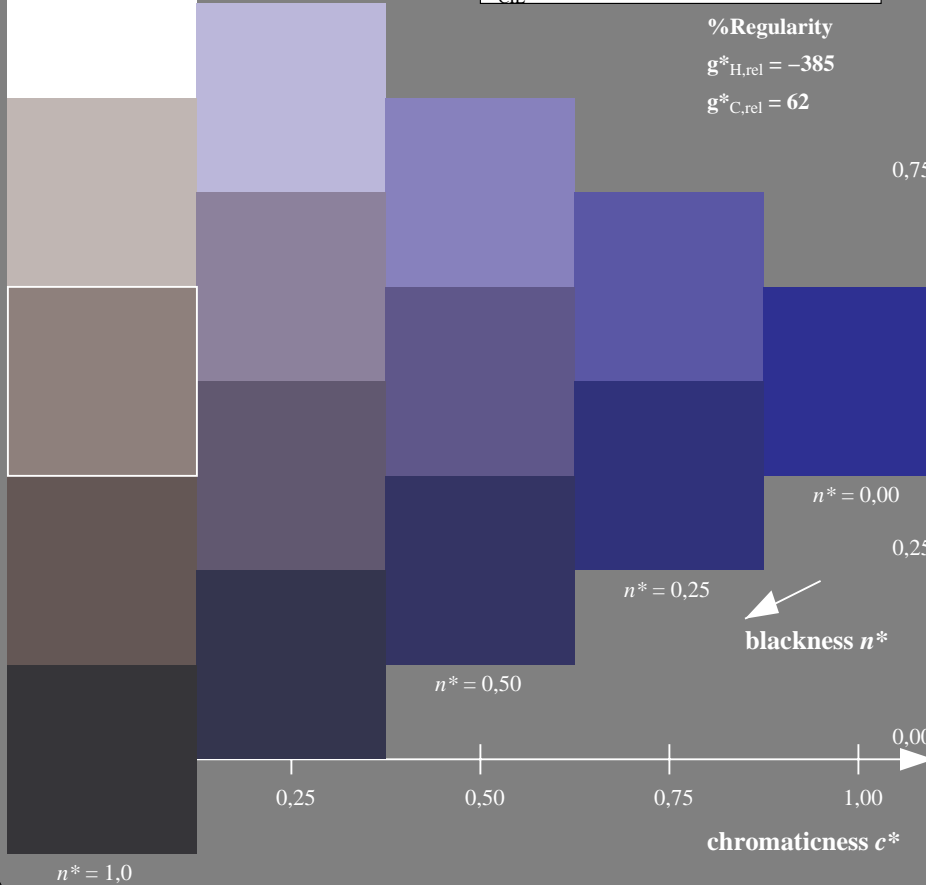
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252



%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

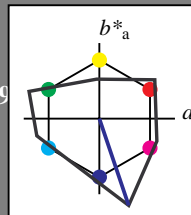


SE400-7, 5 step scales for constant CIELAB hue 304/360 = 0.845 (left)

Output: Colorimetric Television Luminous System TLS00

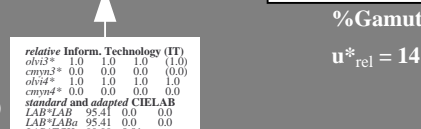
for hue $h^* = lab^*h = 289/360 = 0.802$
 lab^*tch and lab^*nch

A: hue V
 LCH*Ma: 13 121 289
 olv*Ma: 0.0 0.0 1.0
 triangle lightness



TLS00; adapted (a) CIELAB data

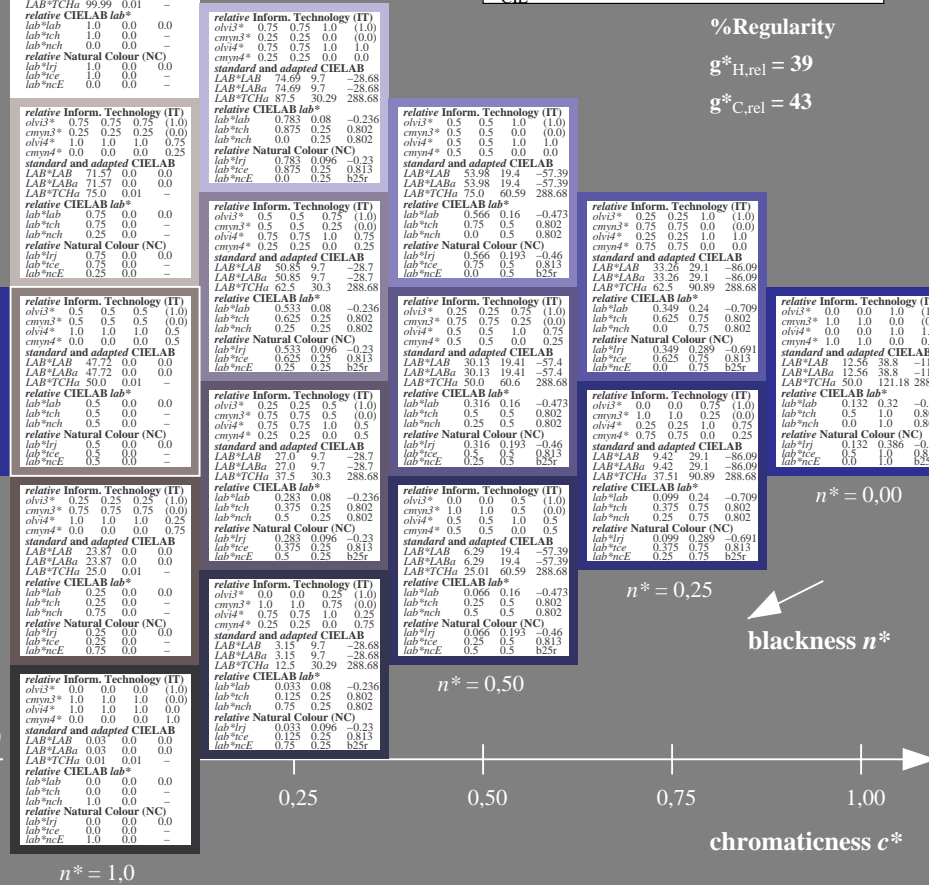
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	77.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253



%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$



5 step scales for constant CIELAB hue 289/360 = 0.802 (right)

BAM-test chart SE40; Colorimetric systems ORS18 & TLS00
 A: 5 step colour scales and coordinate data for 10 hues

input: $cmY0^* setcmykcolor$
 output: no change compared to input

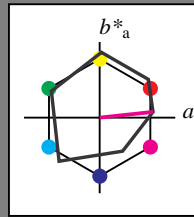
See for similar files: <http://www.ps.bam.de/SE40/>
 Technical information: <http://www.ps.bam.de> Version 2.1, io=0,0

BAM registration: 20060101-SE40/10S/S40E04NP.PS/.PDF BAM material: code=rhadt4
 application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

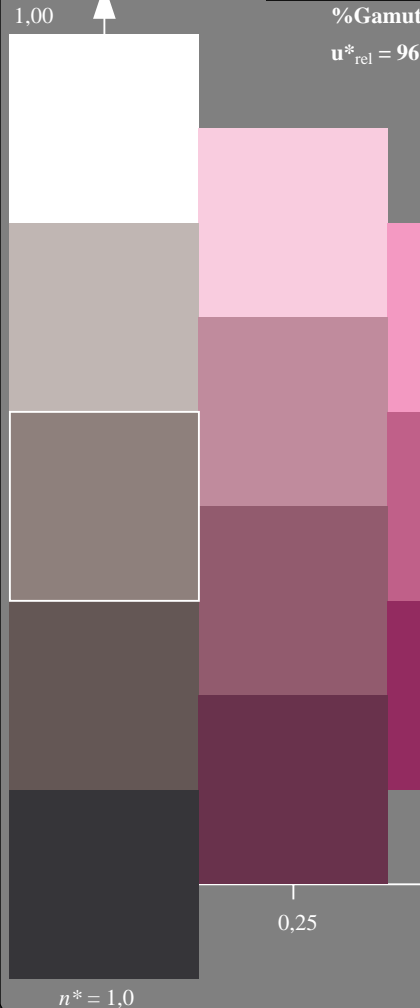
for hue $h^* = lab^*h = 6/360 = 0.017$
 lab^*tch and lab^*nch

A: hue M
 LCH*Ma: 56 71 6
 olv*Ma: 1.0 0.0 1.0
 triangle lightness



ORS18; adapted (a) CIELAB data

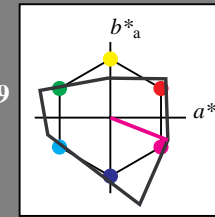
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252



Output: Colorimetric Television Luminous System TLS00

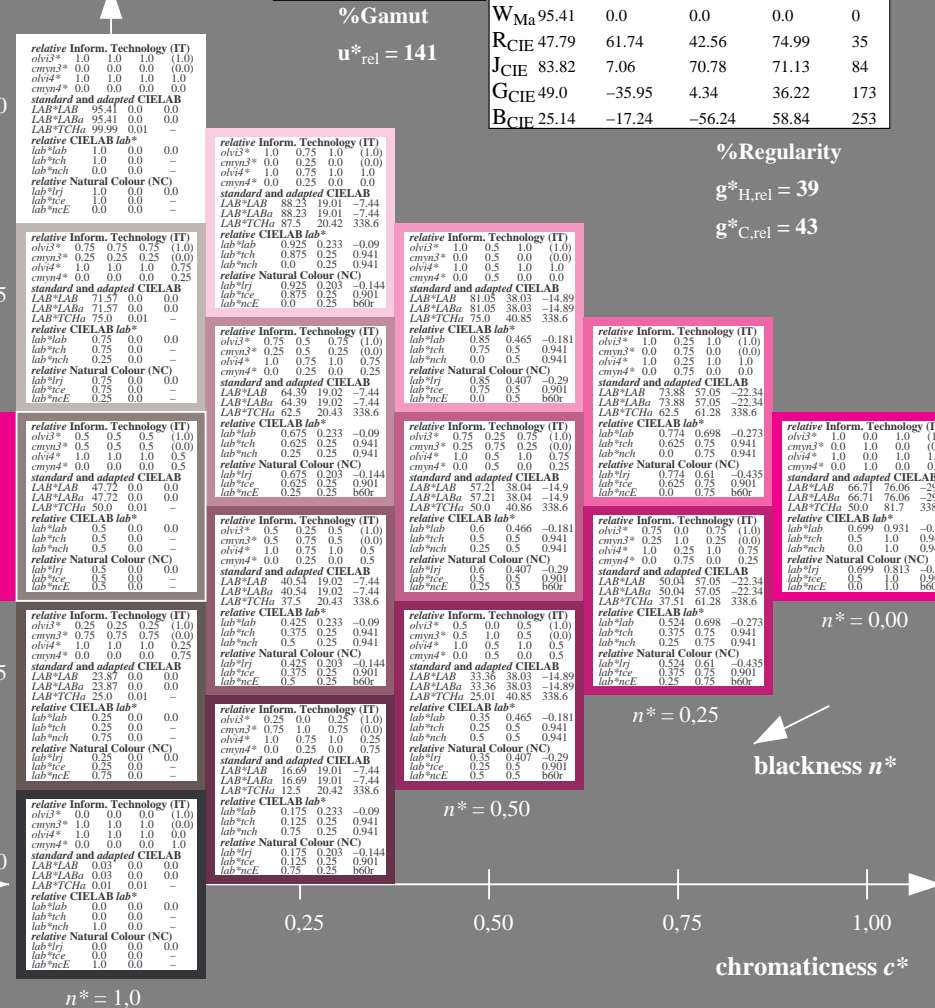
for hue $h^* = lab^*h = 339/360 = 0.941$
 lab^*tch and lab^*nch

A: hue M
 LCH*Ma: 67 82 339
 olv*Ma: 1.0 0.0 1.0
 triangle lightness



TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	77.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253



SE40-7, 5 step scales for constant CIELAB hue 6/360 = 0.017 (left)

5 step scales for constant CIELAB hue 339/360 = 0.941 (right)

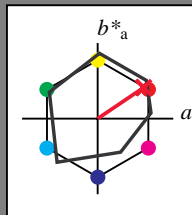
BAM-test chart SE40; Colorimetric systems ORS18 & TLS00
 A: 5 step colour scales and coordinate data for 10 hues

input: $cmY0^*$ setcmYcolor
 output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

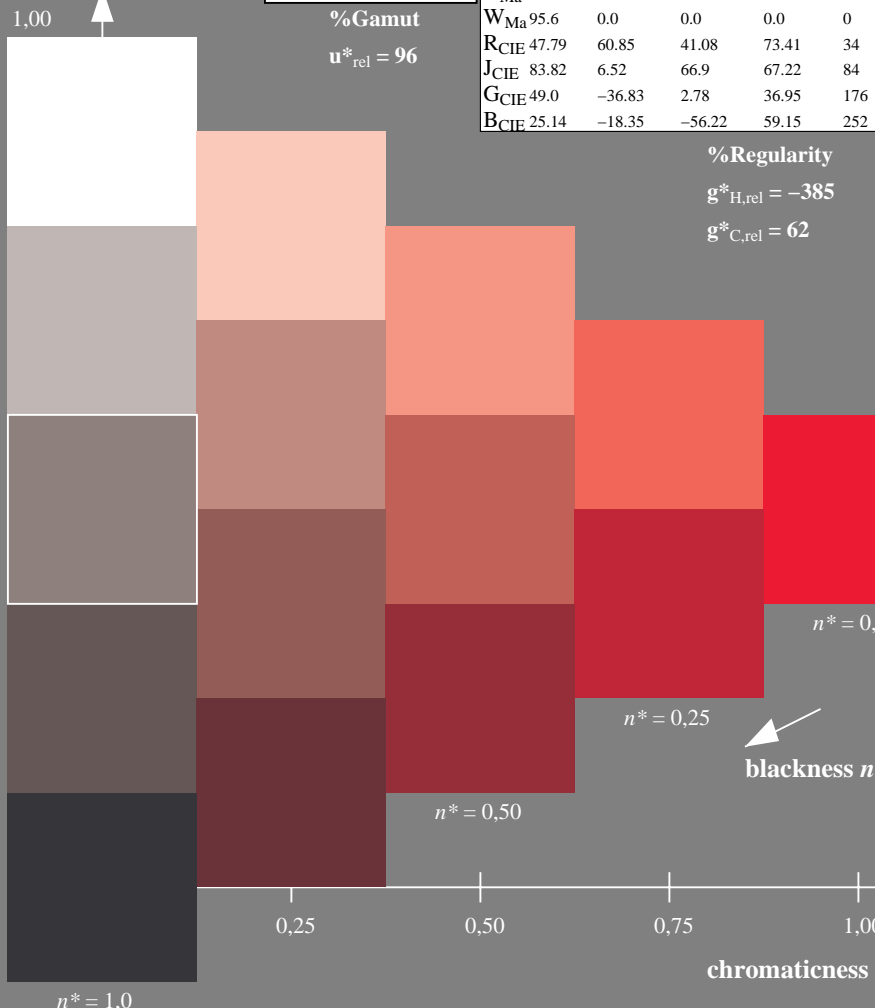
for hue $h^* = lab^*h = 34/360 = 0.095$
 lab^*tch and lab^*nch

A: hue R
 LCH*Ma: 49 79 34
 olv*Ma: 1.0 0.0 0.15
 triangle lightness



ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

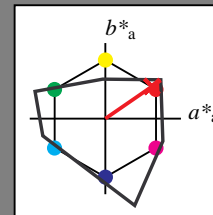


SE400-7, 5 step scales for constant CIELAB hue 34/360 = 0.095 (left)

Output: Colorimetric Television Luminous System TLS00

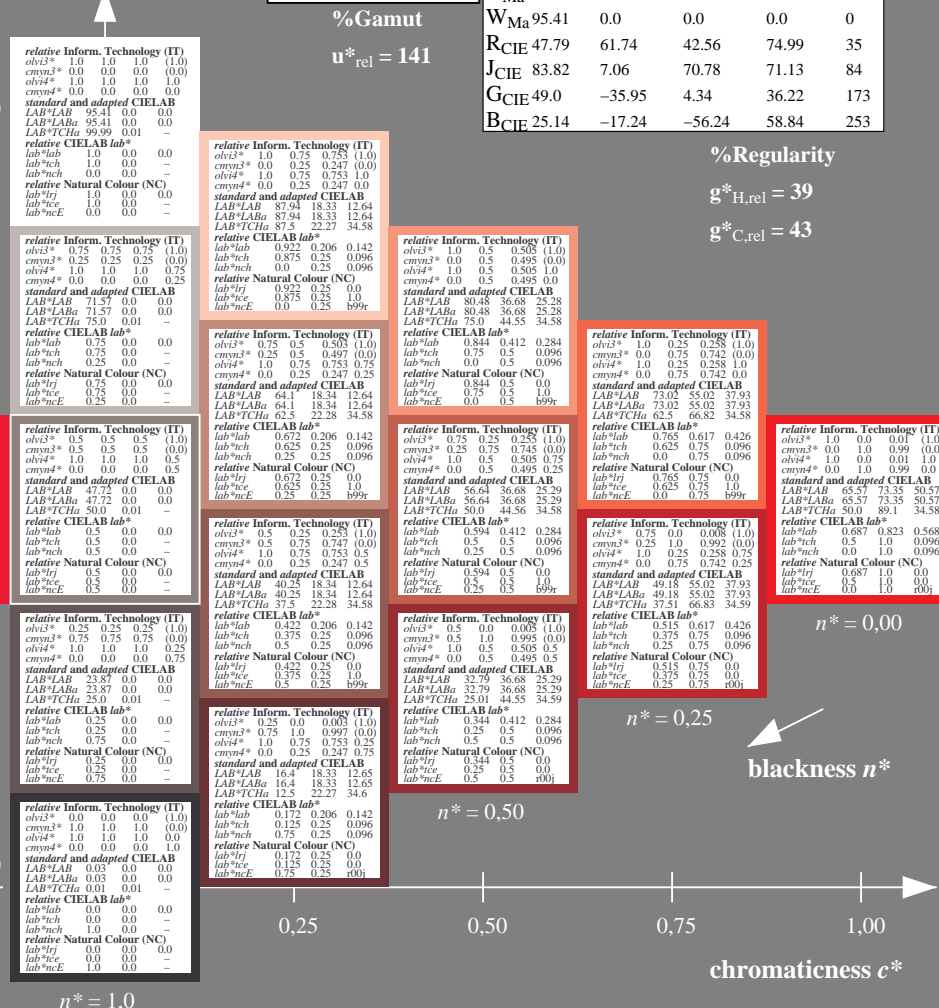
for hue $h^* = lab^*h = 35/360 = 0.096$
 lab^*tch and lab^*nch

A: hue R
 LCH*Ma: 66 89 35
 olv*Ma: 1.0 0.0 0.01
 triangle lightness



TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	77.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253



5 step scales for constant CIELAB hue 35/360 = 0.096 (right)

BAM-test chart SE40; Colorimetric systems ORS18 & TLS00
 A: 5 step colour scales and coordinate data for 10 hues

input: $cmY0^*$ set *cmYcolor*
 output: *no change compared to input*

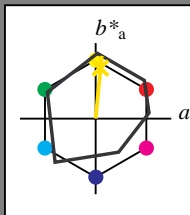
See for similar files: <http://www.ps.bam.de/SE40/>
 Technical information: <http://www.ps.bam.de> Version 2.1, io=0,0

BAM registration: 20060101-SE40/10S/S40E06NP.PS/.PDF
 application for evaluation and measurement of printer or monitor systems
 SE400 Form: 7/10, Serie: 1/1, Page: 7 Page count: 7
 BAM material: code=rhadt4

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 84/360 = 0.235$
 lab^*tch and lab^*nch

A: hue J
 LCH*Ma: 89 83 84
 olv*Ma: 1.0 0.91 0.0
 triangle lightness



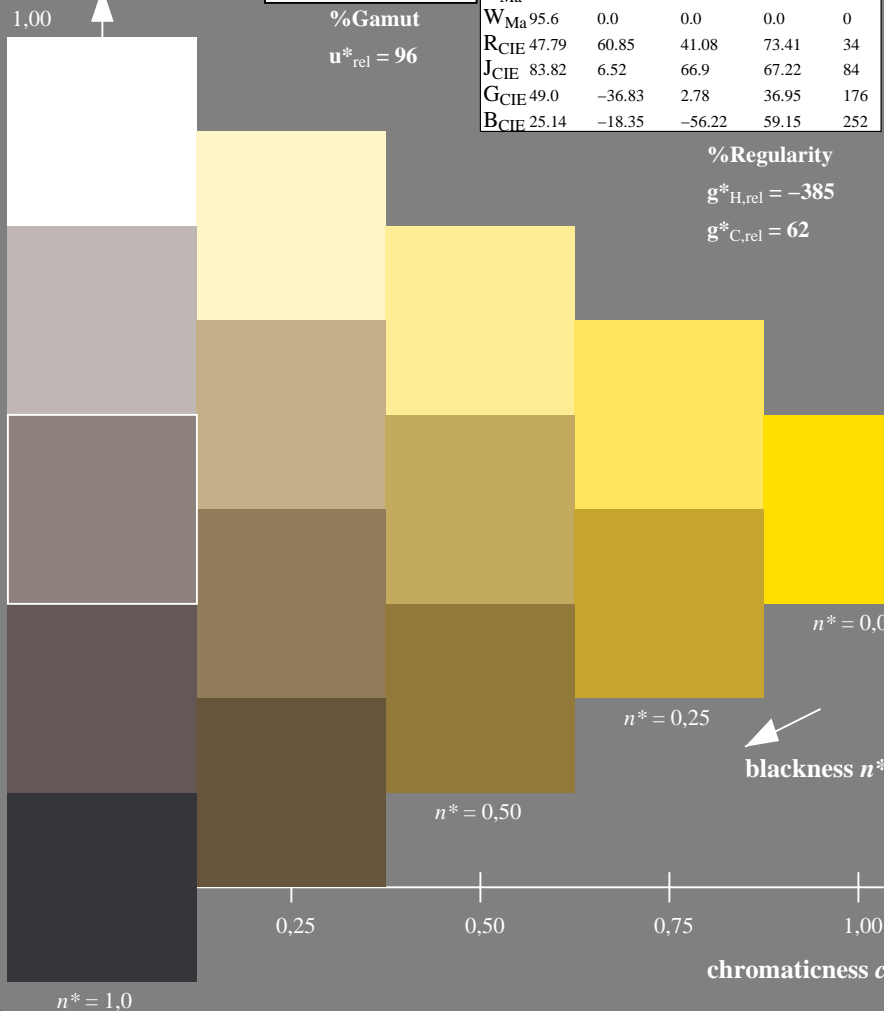
ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

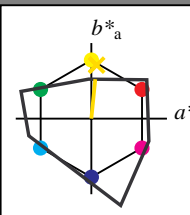


SE400-7, 5 step scales for constant CIELAB hue 84/360 = 0.235 (left)

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 84/360 = 0.234$
 lab^*tch and lab^*nch

A: hue J
 LCH*Ma: 91 52 84
 olv*Ma: 1.0 0.89 0.0
 triangle lightness



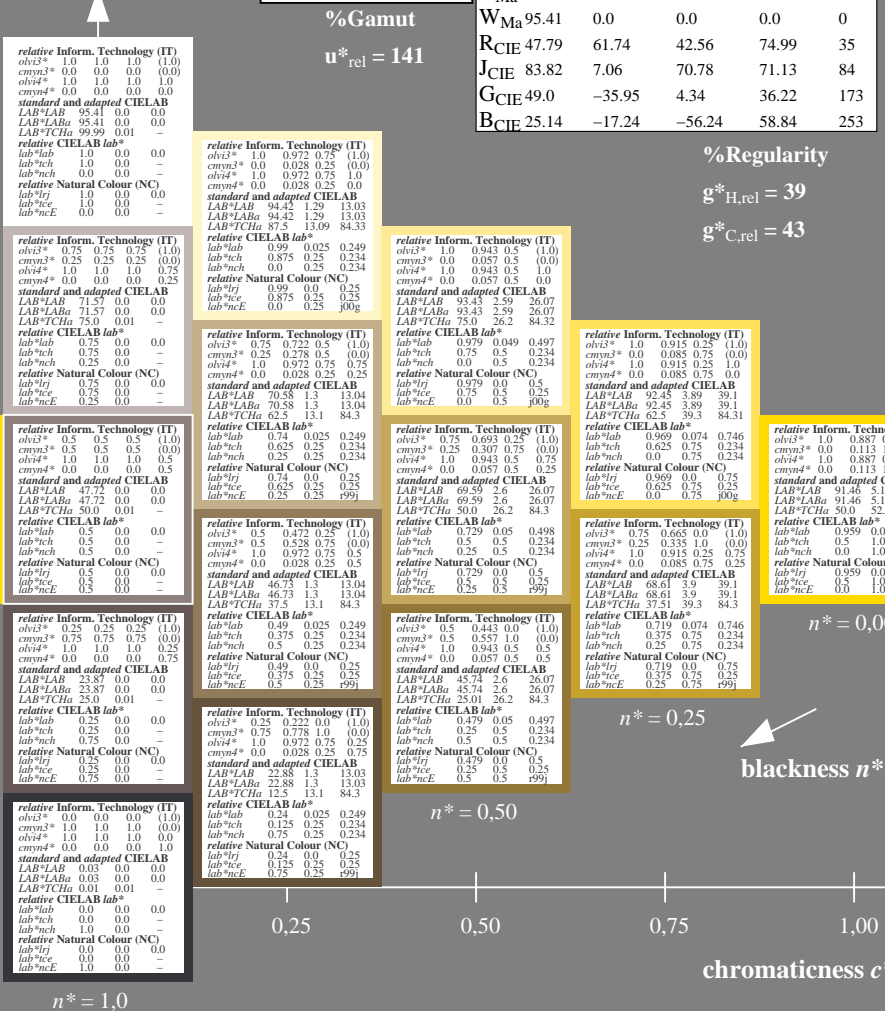
TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	77.48	-92.97	36.0	93.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$



5 step scales for constant CIELAB hue 84/360 = 0.234 (right)

BAM-test chart SE40; Colorimetric systems ORS18 & TLS00
 A: 5 step colour scales and coordinate data for 10 hues

input: $cmY0^* setcmykcolor$
 output: no change compared to input

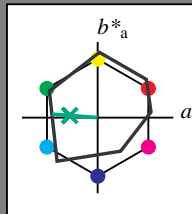
See for similar files: <http://www.ps.bam.de/SE40/>
 Technical information: <http://www.ps.bam.de> Version 2.1, io=0,0

BAM registration: 20060101-SE40/10S/S40E07NP.PS/.PDF BAM material: code=rhadt4
 application for evaluation and measurement of printer or monitor systems
 /SE40/ Form: 8/10, Serie: 1/1, Page: 8 Page count: 8

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 176/360 = 0.488$
 lab^*tch and lab^*nch

A: hue G
 LCH*Ma: 51 61 176
 olv*Ma: 0.0 1.0 0.33
 triangle lightness



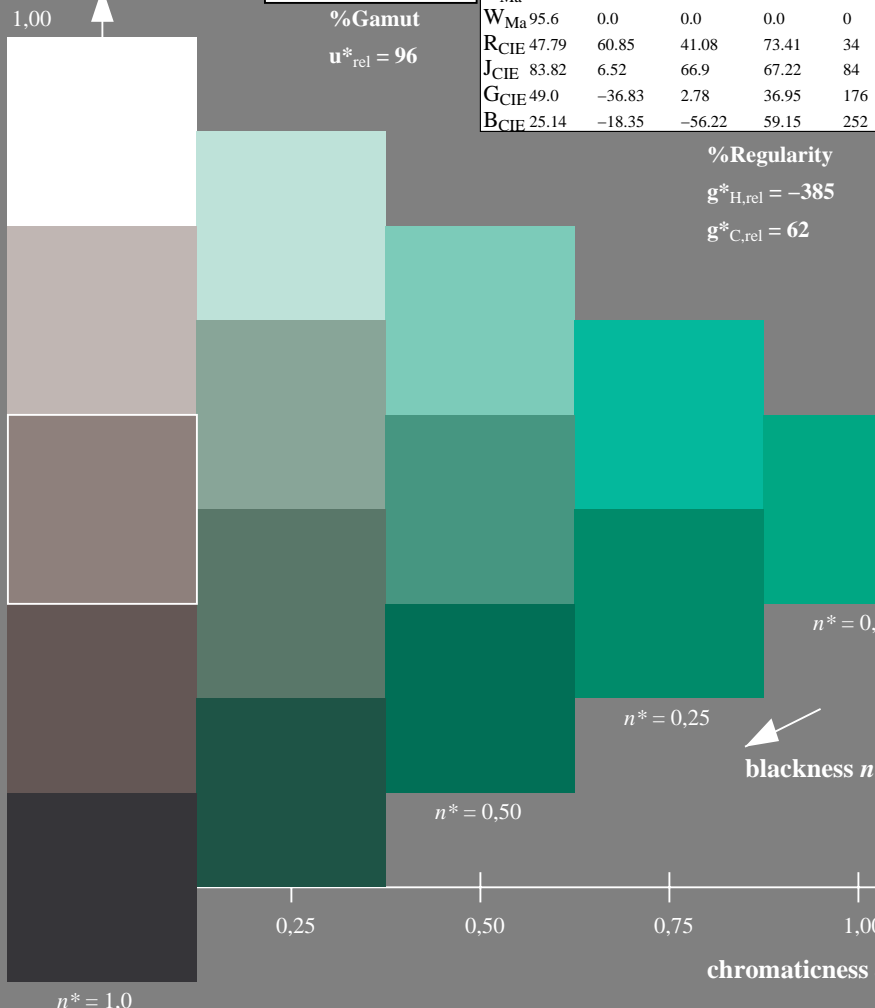
ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

$g^*_{H,rel} = -385$

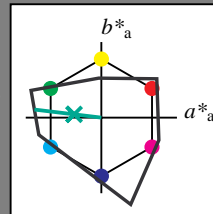
$g^*_{C,rel} = 62$



Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 173/360 = 0.481$
 lab^*tch and lab^*nch

A: hue G
 LCH*Ma: 78 89 173
 olv*Ma: 0.0 1.0 0.43
 triangle lightness



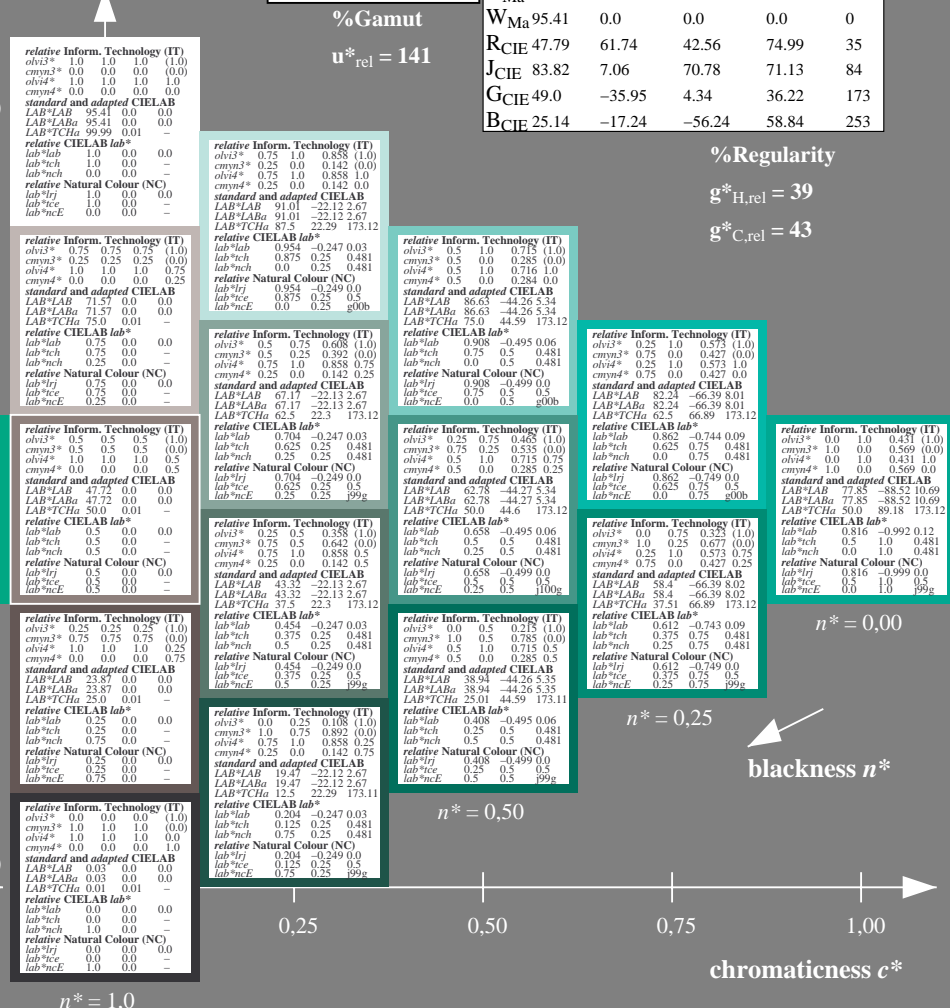
TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	74.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$



SE400-7, 5 step scales for constant CIELAB hue 176/360 = 0.488 (left)

5 step scales for constant CIELAB hue 173/360 = 0.481 (right)

BAM-test chart SE40; Colorimetric systems ORS18 & TLS00

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

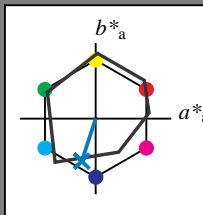
input: $cmY0^* setcmykcolor$

output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 252/360 = 0.7$
 lab^*tch and lab^*nch

A: hue B
 LCH*Ma: 40 55 252
 olv*Ma: 0.0 0.56 1.0
 triangle lightness



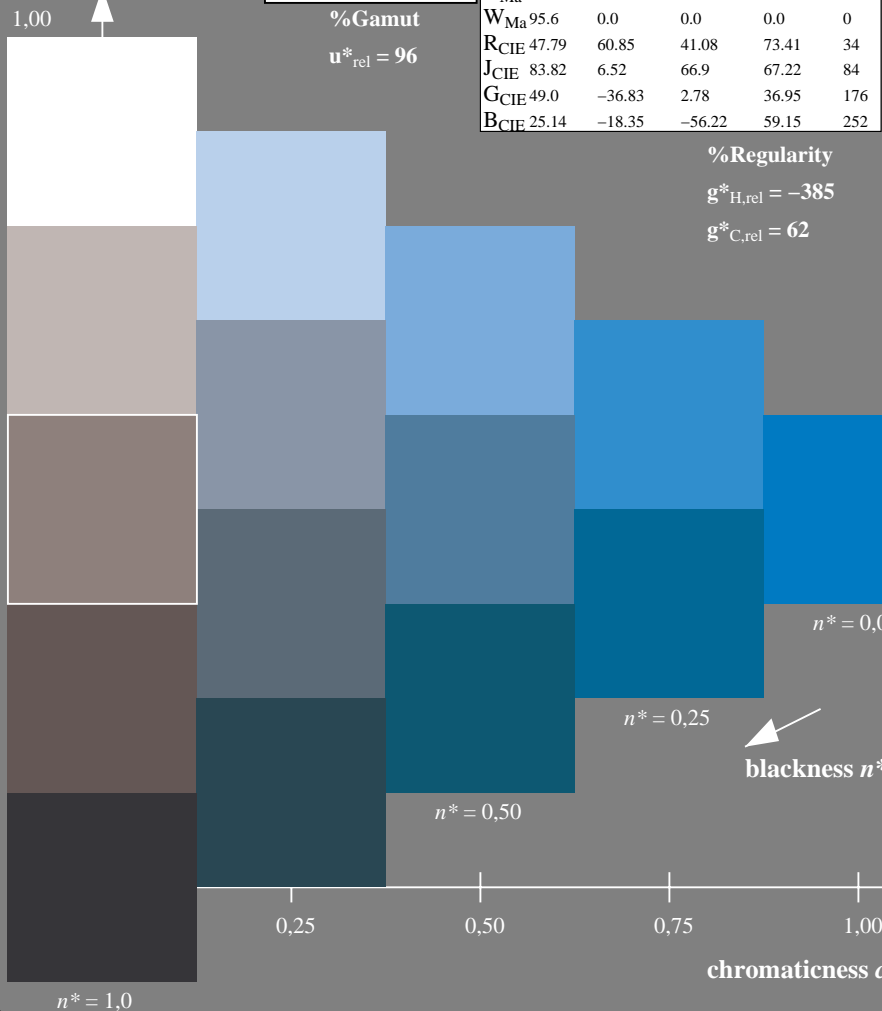
ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

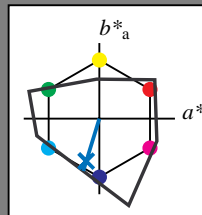


SE400-7, 5 step scales for constant CIELAB hue 252/360 = 0.7 (left)

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 253/360 = 0.703$
 lab^*tch and lab^*nch

A: hue B
 LCH*Ma: 45 72 253
 olv*Ma: 0.0 0.49 1.0
 triangle lightness



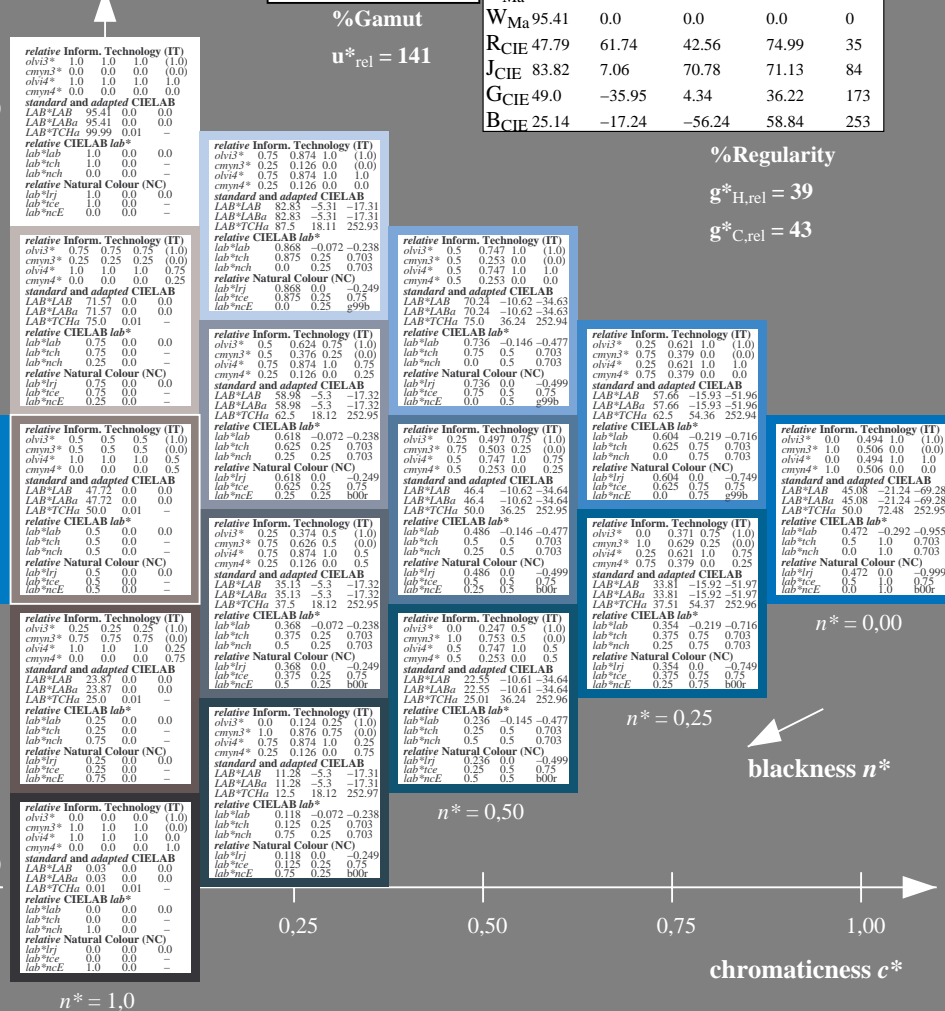
TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	74.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$



5 step scales for constant CIELAB hue 253/360 = 0.703 (right)

BAM-test chart SE40; Colorimetric systems ORS18 & TLS00
 A: 5 step colour scales and coordinate data for 10 hues

input: $cmY0^*$ setcmYcolor
 output: no change compared to input

See for similar files: <http://www.ps.bam.de/SE40/>
 Technical information: <http://www.ps.bam.de> Version 2.1, io=0,0

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