

Input: Colorimetric Offset Reflective System ORS18

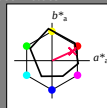
for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 52 69 25

olv*Ma: 1.0 0.0 0.32



triangle lightness t^*

%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data					
$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
O _{Ma}	51.74	60.16	46.48	76.02	38
Y _{Ma}	90.77	-9.44	84.41	84.94	96
L _{Ma}	54.46	-57.8	32.16	66.15	151
C _{Ma}	61.56	-27.91	-41.41	49.95	236
V _{Ma}	31.3	28.61	-40.85	49.88	305
M _{Ma}	51.91	69.26	-7.69	69.68	354
N _{Ma}	24.2	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	44.36	53.97	24.82	59.4	25
J _{CIE}	82.39	-1.99	62.34	62.37	92
G _{CIE}	55.68	-38.87	10.82	40.36	164
B _{CIE}	35.76	1.06	-43.09	43.11	271

Output: Colorimetric Offset Reflective System ORS18

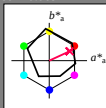
for hue $h^* = lab^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 52 69 25

olv*Ma: 1.0 0.0 0.32



triangle lightness t^*

%Gamut

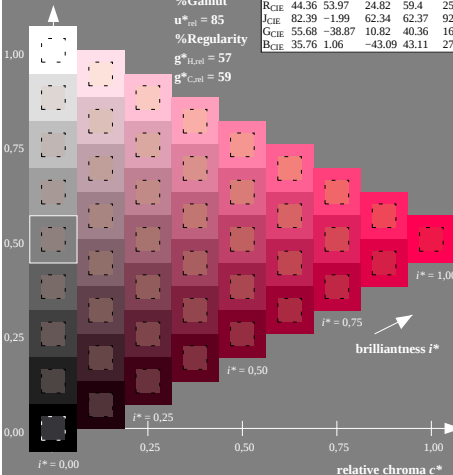
$u^*_{rel} = 85$

%Regularity

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

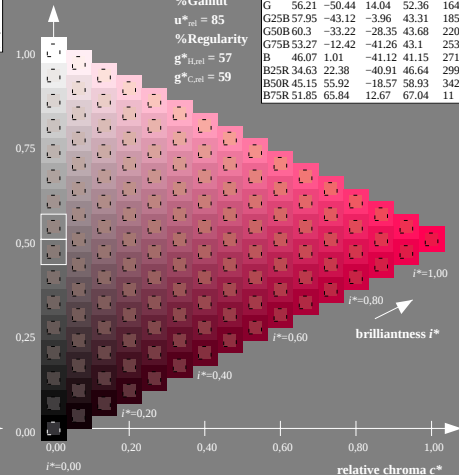
$g^*_{C,rel} = 59$

ORS18; adapted (a) CIELAB data					
$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	411



ZE910-7N, 9 step scales for constant CIELAB hue 25/360 = 0.069 (left)

BAM-test chart ZE91; Colorimetric systems, Page 1/24
D65: 9 and 16 step colour scales for 4 elementary hues



ZE910-7N, 16 step scales for constant CIELAB hue 25/360 = 0.069 (right)

input: $rgb / cmy0$ set($rgb/cmyk$)color
output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

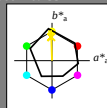
for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 87 81 92

olv*Ma: 1.0 0.9 0.0



triangle lightness t^*

%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	51.74	60.16	46.48	76.02	38
Y _{Ma}	90.77	-9.44	84.41	84.94	96
L _{Ma}	54.46	-57.8	32.16	66.15	151
C _{Ma}	61.56	-27.91	-41.41	49.95	236
V _{Ma}	31.3	28.61	-40.85	49.88	305
M _{Ma}	51.91	69.26	-7.69	69.68	354
N _{Ma}	24.2	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	44.36	53.97	24.82	59.4	25
J _{CIE}	82.39	-1.99	62.34	62.37	92
G _{CIE}	55.68	-38.87	10.82	40.36	164
B _{CIE}	35.76	1.06	-43.09	43.11	271

Output: Colorimetric Offset Reflective System ORS18

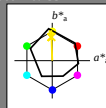
for hue $h^* = lab^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 87 81 92

olv*Ma: 1.0 0.9 0.0



triangle lightness t^*

%Gamut

$u^*_{rel} = 85$

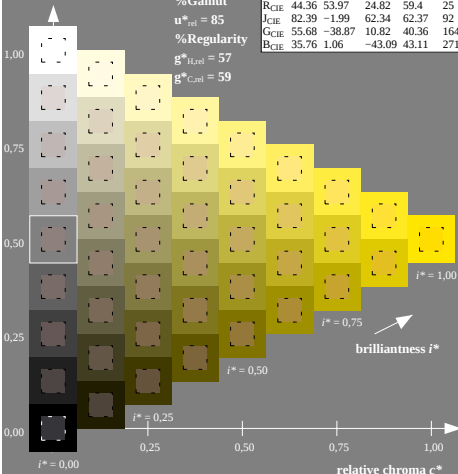
%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	41.31	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	411



ZE910-7N, 9 step scales for constant CIELAB hue 92/360 = 0.255 (left)

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ZE910-7N, 16 step scales for constant CIELAB hue 92/360 = 0.255 (right)

BAM-test chart ZE91; Colorimetric systems, Page 2/24
D65: 9 and 16 step colour scales for 4 elementary hues

input: $rgb / cmy0$ set($rgb/cmyk$)color
output: no change compared to input

BAM registration: 20071001-ZE91/L91E00N1.PS/TXT
application for evaluation and measurement of printer or monitor systems

BAM material: code=ha4ta

Input: Colorimetric Offset Reflective System ORS18

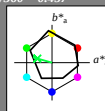
for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 52 164

olv*Ma: 0.0 1.0 0.25



triangle lightness t^*

%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma} 51.74	60.16	46.48	76.02	38
Y _{Ma} 90.77	-9.44	84.41	84.94	96
L _{Ma} 54.46	-57.8	32.16	66.15	151
C _{Ma} 61.56	-27.91	-41.41	49.95	236
V _{Ma} 31.3	28.61	-40.85	49.88	305
M _{Ma} 51.91	69.26	-7.69	69.68	354
N _{Ma} 24.2	0.0	0.0	0.0	0
W _{Ma} 95.41	0.0	0.0	0.0	0
R _{CIE} 44.36	53.97	24.82	59.4	25
J _{CIE} 82.39	-1.99	62.34	62.37	92
G _{CIE} 55.68	-38.87	10.82	40.36	164
B _{CIE} 35.76	1.06	-43.09	43.11	271

Output: Colorimetric Offset Reflective System ORS18

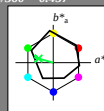
for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 52 164

olv*Ma: 0.0 1.0 0.25



triangle lightness t^*

%Gamut

$u^*_{rel} = 85$

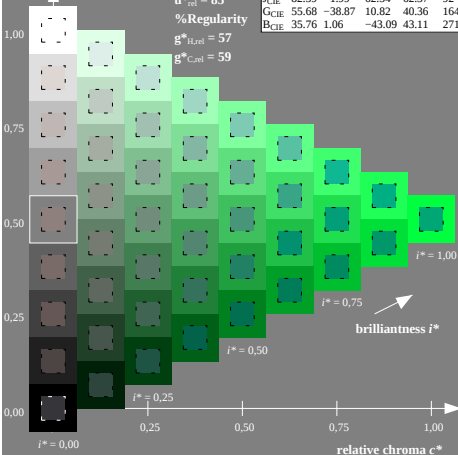
%Regularity

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

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

ORS18; adapted (a) CIELAB data

$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R 51.79	63.09	29.02	69.44	25
R25J 53.73	56.6	48.42	74.48	41
R50J 65.47	35.67	59.82	69.65	59
R75J 76.51	15.98	70.55	72.34	77
J 86.93	-2.58	80.67	80.71	92
J25G 84.92	-17.23	75.99	77.92	103
J50G 73.11	-32.96	59.0	67.58	119
J75G 60.06	-50.34	40.22	64.44	141
G 56.21	-50.44	14.04	52.36	164
G25B 57.95	-43.12	-3.96	43.31	185
G50B 60.3	-33.22	-28.35	43.68	220
G75B 53.27	-12.42	-41.26	43.1	253
B 46.07	1.01	-41.12	41.15	271
B25R 34.63	22.38	-40.91	46.64	299
B50R 45.15	55.92	-18.57	58.93	342
B75R 51.85	65.84	12.67	67.04	411



ZE910-7N, 9 step scales for constant CIELAB hue 164/360 = 0.457 (left)

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ZE910-7N, 16 step scales for constant CIELAB hue 164/360 = 0.457 (right)

BAM-test chart ZE91; Colorimetric systems, Page 3/24
D65: 9 and 16 step colour scales for 4 elementary hues

input: $rgb / cmy0$ set($rgb / cmyk$)color
output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

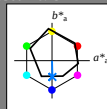
for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 46 41 271

olv*Ma: 0.0 0.49 1.0



triangle lightness t^*

%Gamut
 $u^*_{rel} = 85$

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

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

ORS18; adapted (a) CIELAB data				
$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	51.74	60.16	46.48	76.02
Y _{Ma}	90.77	-9.44	84.41	84.94
L _{Ma}	54.46	-57.8	32.16	66.15
V _{Ma}	61.56	-27.91	-41.41	49.95
M _{Ma}	31.3	28.61	-40.85	49.88
N _{Ma}	51.91	69.26	-7.69	69.68
M _{Ma}	24.2	0.0	0.0	0.0
W _{Ma}	95.41	0.0	0.0	0.0
R _{CIE}	44.36	53.97	24.82	59.4
J _{CIE}	82.39	-1.99	62.34	62.37
G _{CIE}	55.68	-38.87	10.82	40.36
B _{CIE}	35.76	1.06	-43.09	43.11

Output: Colorimetric Offset Reflective System ORS18

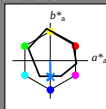
for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 46 41 271

olv*Ma: 0.0 0.49 1.0



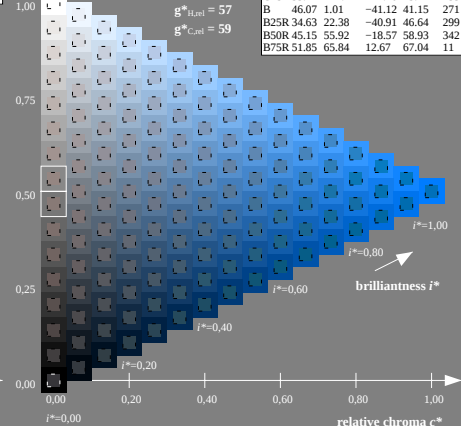
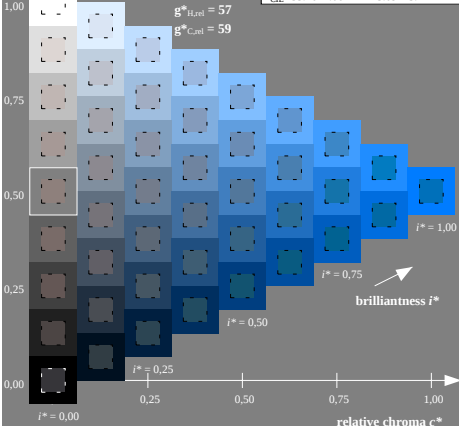
triangle lightness t^*

%Gamut
 $u^*_{rel} = 85$

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

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

ORS18; adapted (a) CIELAB data				
$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44
R25J	53.73	56.6	48.42	74.48
R50J	65.47	35.67	59.82	69.65
J	76.51	15.98	70.55	72.34
J	86.93	-2.58	80.67	80.71
J25G	84.92	-17.23	75.99	77.92
J50G	73.11	-32.96	59.0	67.58
J75G	60.06	-50.34	40.22	64.44
G	56.21	-50.44	14.04	52.36
G25B	57.95	-43.12	-3.96	43.31
G50B	60.3	-33.22	-28.35	43.68
G75B	53.27	-12.42	-41.26	41.31
B	46.07	1.01	-41.12	41.15
B25R	34.63	22.38	-40.91	46.64
B50R	45.15	55.92	-18.57	58.93
B75R	51.85	65.84	12.67	67.04



ZE910-7N, 9 step scales for constant CIELAB hue 271/360 = 0.754 (left)

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ZE910-7N, 16 step scales for constant CIELAB hue 271/360 = 0.754 (right)

BAM-test chart ZE91; Colorimetric systems, Page 4/24
D65: 9 and 16 step colour scales for 4 elementary hues

input: $rgb / cmy0$ set($rgb/cmyk$)color
output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

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

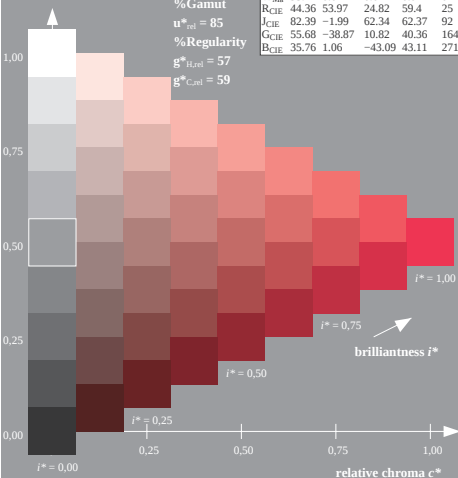
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 52 69 25

olv*Ma: 1.0 0.0 0.32

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	51.74	60.16	46.48	76.02	38
Y _{Ma}	90.77	-9.44	84.41	84.94	96
L _{Ma}	54.46	-57.8	32.16	66.15	151
C _{Ma}	61.56	-27.91	-41.41	49.95	236
V _{Ma}	31.3	28.61	-40.85	49.88	305
M _{Ma}	51.91	69.26	-7.69	69.68	354
N _{Ma}	24.2	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	44.36	53.97	24.82	59.4	25
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B _{CIE}	35.76	1.06	-43.09	43.11	271

Output: Colorimetric Offset Reflective System ORS18

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

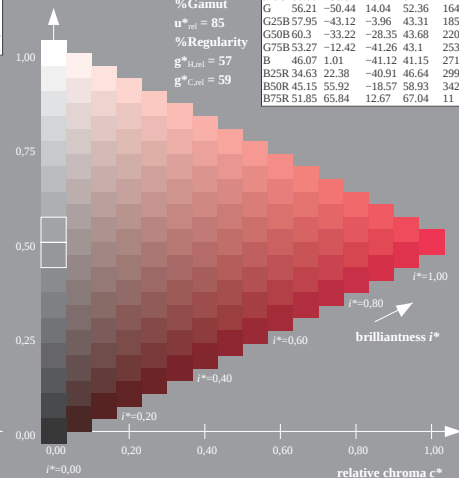
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 52 69 25

olv*Ma: 1.0 0.0 0.32

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
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ZE910-7N, 9 step scales for constant CIELAB hue 25/360 = 0.069 (left)

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ZE910-7N, 16 step scales for constant CIELAB hue 25/360 = 0.069 (right)

BAM-test chart ZE91; Colorimetric systems, Page 5/24
D65: 9 and 16 step colour scales for 4 elementary hues

input: `rgb / cmy0 set(rgb/cmyk)color`
output: `->cmy5* setcmykcolor`

Input: Colorimetric Offset Reflective System ORS18

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

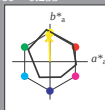
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 87 81 92

olv*Ma: 1.0 0.9 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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V _{Ma}	31.3	28.61	-40.85	49.88	305
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N _{Ma}	24.2	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	44.36	53.97	24.82	59.4	25
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B _{CIE}	35.76	1.06	-43.09	43.11	271

Output: Colorimetric Offset Reflective System ORS18

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

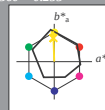
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 87 81 92

olv*Ma: 1.0 0.9 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

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R50J	65.47	35.67	59.82	69.65	59
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J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	411

ZE910-7N, 9 step scales for constant CIELAB hue 92/360 = 0.255 (left)

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ZE910-7N, 16 step scales for constant CIELAB hue 92/360 = 0.255 (right)

BAM-test chart ZE91; Colorimetric systems, Page 6/24
D65: 9 and 16 step colour scales for 4 elementary hues

input: $rgb / cmy0$ set($rgb/cmyk$)color
output: $\rightarrow cmy5^*$ set($cmyk$)color

Input: Colorimetric Offset Reflective System ORS18

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

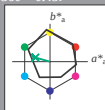
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 52 164

olv*Ma: 0.0 1.0 0.25

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data					
$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
O _{Ma}	51.74	60.16	46.48	76.02	38
Y _{Ma}	90.77	-9.44	84.41	84.94	96
L _{Ma}	54.46	-57.8	32.16	66.15	151
C _{Ma}	61.56	-27.91	-41.41	49.95	236
V _{Ma}	31.3	28.61	-40.85	49.88	305
M _{Ma}	51.91	69.26	-7.69	69.68	354
N _{Ma}	24.2	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	44.36	53.97	24.82	59.4	25
J _{CIE}	82.39	-1.99	62.34	62.37	92
G _{CIE}	55.68	-38.87	10.82	40.36	164
B _{CIE}	35.76	1.06	-43.09	43.11	271

Output: Colorimetric Offset Reflective System ORS18

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

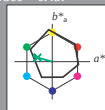
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 52 164

olv*Ma: 0.0 1.0 0.25

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data					
$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	411

ZE910-7N, 9 step scales for constant CIELAB hue 164/360 = 0.457 (left)

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ZE910-7N, 16 step scales for constant CIELAB hue 164/360 = 0.457 (right)

BAM-test chart ZE91; Colorimetric systems, Page 7/24
D65: 9 and 16 step colour scales for 4 elementary hues

input: $rgb / cmy0 \text{ set}(rgb/cmyk)color$
output: $\rightarrow cmy5* \text{ set}cmykcolor$

Input: Colorimetric Offset Reflective System ORS18

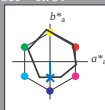
for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

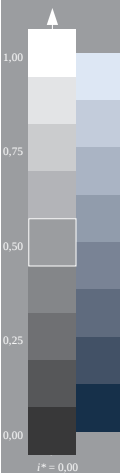
D65: hue B

LCH*Ma: 46 41 271

olv*Ma: 0.0 0.49 1.0



triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data					
$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
O _{Ma}	51.74	60.16	46.48	76.02	38
Y _{Ma}	90.77	-9.44	84.41	84.94	96
L _{Ma}	54.46	-57.8	32.16	66.15	151
C _{Ma}	61.56	-27.91	-41.41	49.95	236
V _{Ma}	31.3	28.61	-40.85	49.88	305
M _{Ma}	51.91	69.26	-7.69	69.68	354
N _{Ma}	24.2	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	44.36	53.97	24.82	59.4	25
J _{CIE}	82.39	-1.99	62.34	62.37	92
G _{CIE}	55.68	-38.87	10.82	40.36	164
B _{CIE}	35.76	1.06	-43.09	43.11	271

Output: Colorimetric Offset Reflective System ORS18

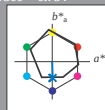
for hue $h^* = lab^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

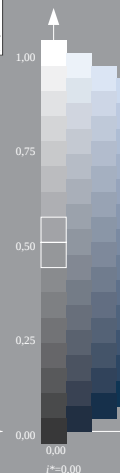
D65: hue B

LCH*Ma: 46 41 271

olv*Ma: 0.0 0.49 1.0



triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data					
$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	411

ZE910-7N, 9 step scales for constant CIELAB hue 271/360 = 0.754 (left)

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ZE910-7N, 16 step scales for constant CIELAB hue 271/360 = 0.754 (right)

BAM-test chart ZE91; Colorimetric systems, Page 8/24
D65: 9 and 16 step colour scales for 4 elementary hues

input: $rgb / cmy0$ set($rgb/cmyk$)color
output: $\rightarrow cmy5^* setcmykcolor$

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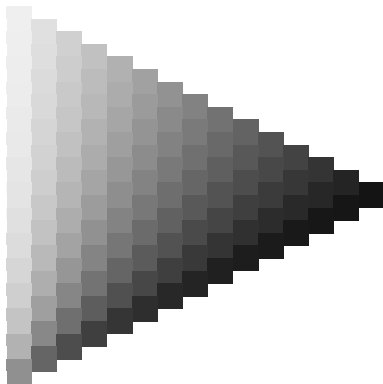
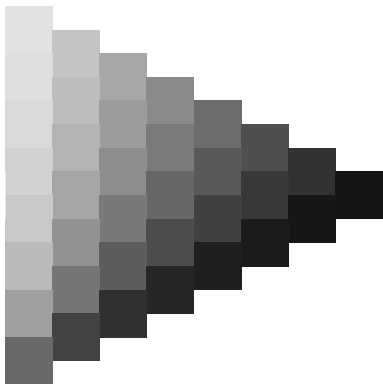
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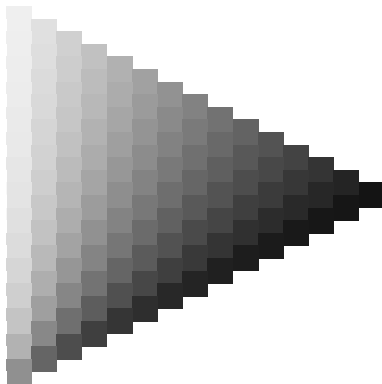
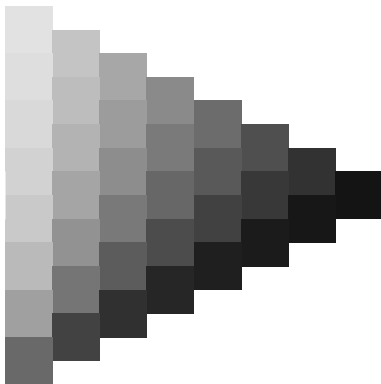
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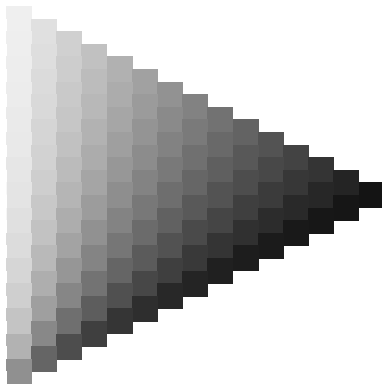
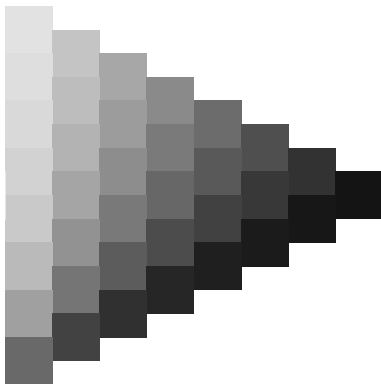
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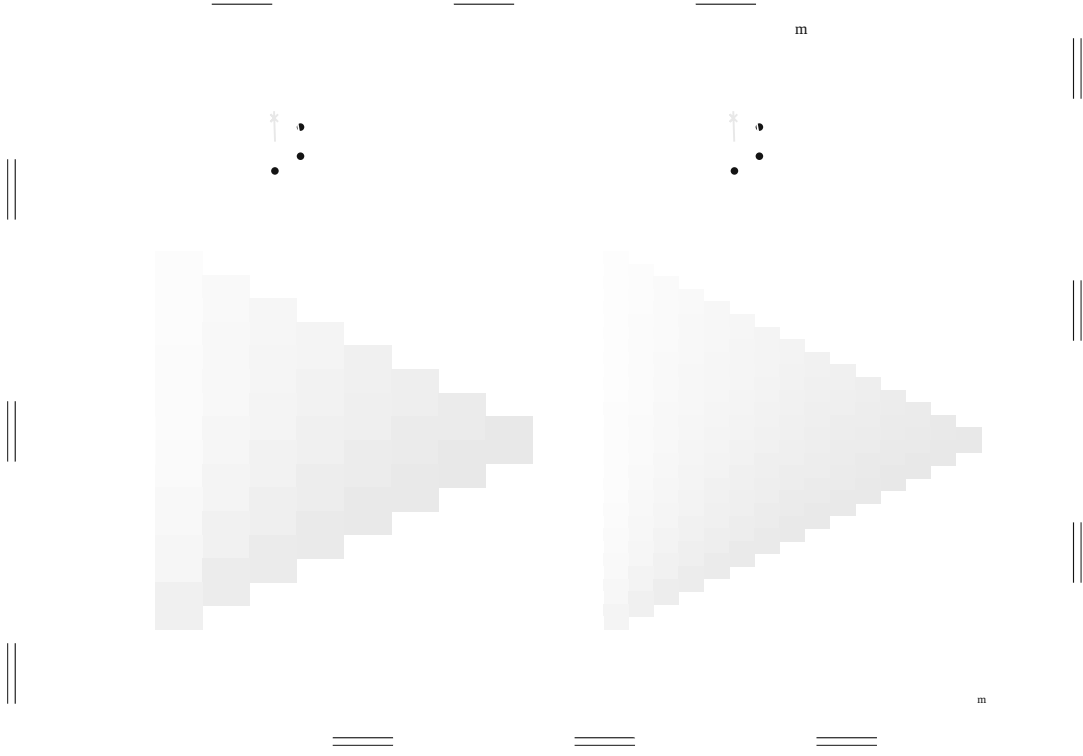
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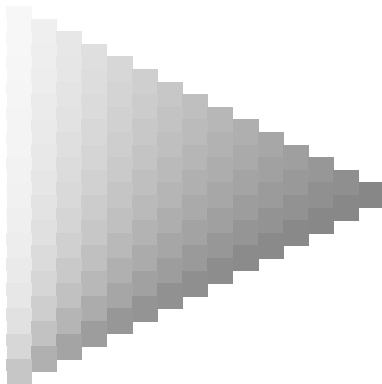
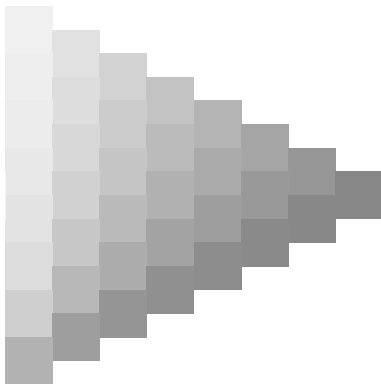
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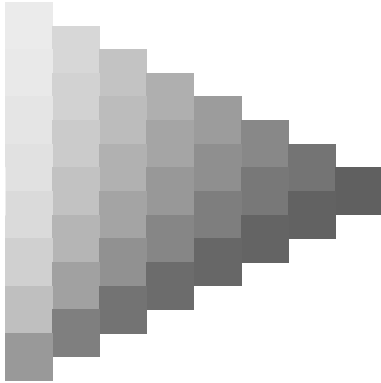
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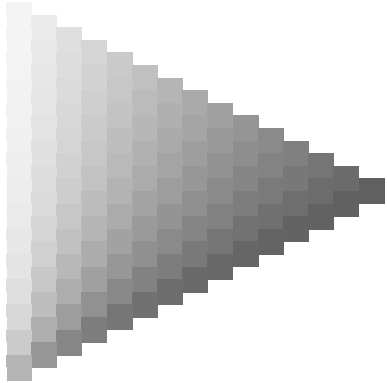


m

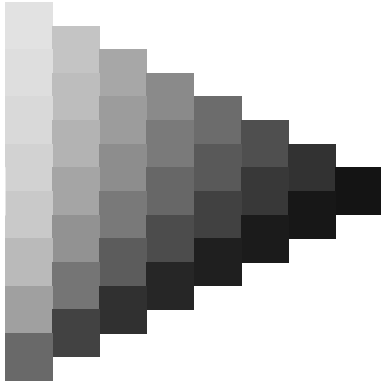
m



y



y



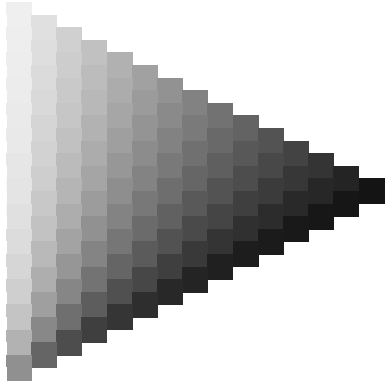
• $\frac{1}{2}$,

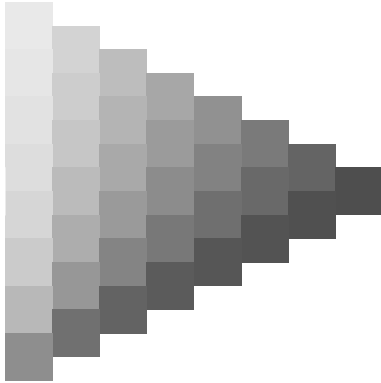


y

y

• $\frac{1}{2}$,





y



y

y



y

Input: Colorimetric Offset Reflective System ORS18

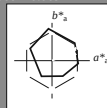
for hue $h^* = \text{lab}^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 52 69 25

olv*Ma: 1.0 0.0 0.32



triangle lightness t^*

%Gamut

$u^*_{\text{rel}} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	51.74	60.16	46.48	76.02	38
Y _{Ma}	90.77	-9.44	84.41	84.94	96
L _{Ma}	54.46	-57.8	32.16	66.15	151
C _{Ma}	61.56	-27.91	-41.41	49.95	236
V _{Ma}	31.3	28.61	-40.85	49.88	305
M _{Ma}	51.91	69.26	-7.69	69.68	354
N _{Ma}	24.2	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	44.36	53.97	24.82	59.4	25
J _{CIE}	82.39	-1.99	62.34	62.37	92
G _{CIE}	55.68	-38.87	10.82	40.36	164
B _{CIE}	35.76	1.06	-43.09	43.11	271

Output: Colorimetric Offset Reflective System ORS18

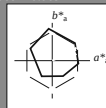
for hue $h^* = \text{lab}^*h = 25/360 = 0.069$

lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 52 69 25

olv*Ma: 1.0 0.0 0.32



triangle lightness t^*

%Gamut

$u^*_{\text{rel}} = 85$

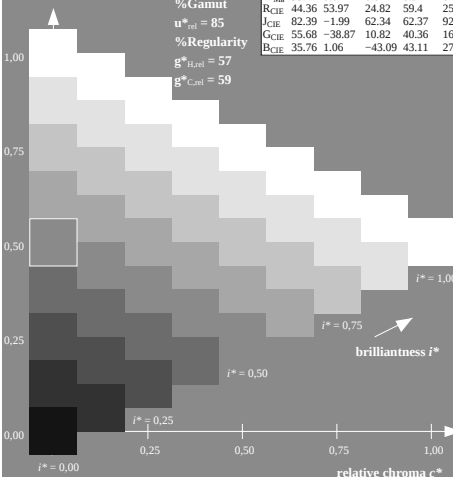
%Regularity

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

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

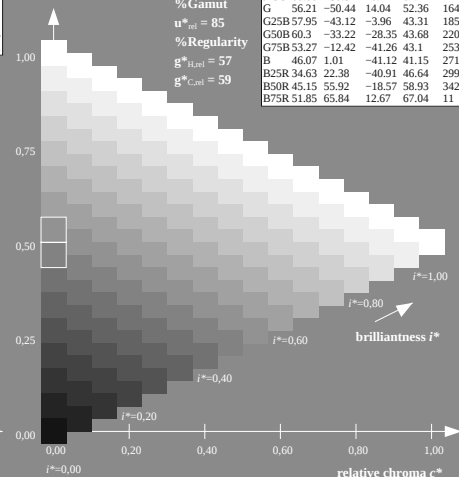
ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	41.31	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	411



ZE910-7N, 9 step scales for constant CIELAB hue 25/360 = 0.069 (left)

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ZE910-7N, 16 step scales for constant CIELAB hue 25/360 = 0.069 (right)

BAM-test chart ZE91; Colorimetric systems, Page 21/24

D65: 9 and 16 step colour scales for 4 elementary hues

input: $\text{rgb} / \text{cmy}0 \text{ set}(\text{rgb}/\text{cmyk})\text{color}$

output: $\rightarrow \text{cmy}n5 \text{ set}(\text{cmyk})\text{color}$

Input: Colorimetric Offset Reflective System ORS18

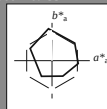
for hue $h^* = \text{lab}^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 87 81 92

olv*Ma: 1.0 0.9 0.0



triangle lightness t^*

%Gamut
 $u^*_{\text{rel}} = 85$
%Regularity
 $g^*_{H,\text{rel}} = 57$
 $g^*_{C,\text{rel}} = 59$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	51.74	60.16	46.48	76.02	38
Y _{Ma}	90.77	-9.44	84.41	84.94	96
L _{Ma}	54.46	-57.8	32.16	66.15	151
C _{Ma}	61.56	-27.91	-41.41	49.95	236
V _{Ma}	31.3	28.61	-40.85	49.88	305
M _{Ma}	51.91	69.26	-7.69	69.68	354
N _{Ma}	24.2	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	44.36	53.97	24.82	59.4	25
J _{CIE}	82.39	-1.99	62.34	62.37	92
G _{CIE}	55.68	-38.87	10.82	40.36	164
B _{CIE}	35.76	1.06	-43.09	43.11	271

Output: Colorimetric Offset Reflective System ORS18

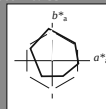
for hue $h^* = \text{lab}^*h = 92/360 = 0.255$

lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 87 81 92

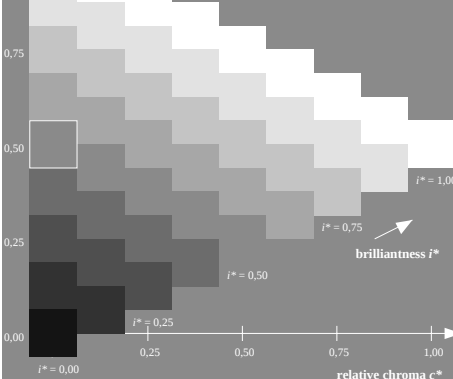
olv*Ma: 1.0 0.9 0.0



triangle lightness t^*

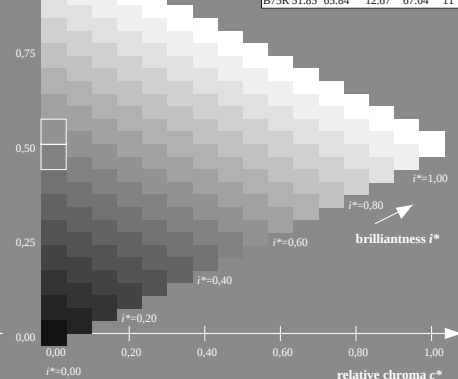
%Gamut
 $u^*_{\text{rel}} = 85$
%Regularity
 $g^*_{H,\text{rel}} = 57$
 $g^*_{C,\text{rel}} = 59$

ORS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	411



ZE910-7N, 9 step scales for constant CIELAB hue 92/360 = 0.255 (left)

BAM-test chart ZE91; Colorimetric systems, Page 22/24
D65: 9 and 16 step colour scales for 4 elementary hues



ZE910-7N, 16 step scales for constant CIELAB hue 92/360 = 0.255 (right)

input: $\text{rgb} / \text{cmy}0 \text{ set}(\text{rgb}/\text{cmyk})\text{color}$
output: $\rightarrow \text{cmy}n5 \text{ set}(\text{cmyk})\text{color}$

Input: Colorimetric Offset Reflective System ORS18

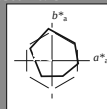
for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

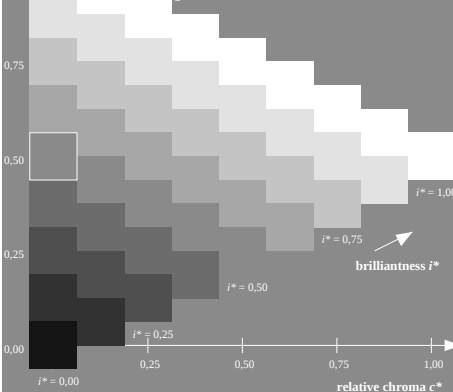
LCH*Ma: 56 52 164

olv*Ma: 0.0 1.0 0.25



triangle lightness t^*

%Gamut
 $u^*_{rel} = 85$
%Regularity
 $g^*_{H,rel} = 57$
 $g^*_{C,rel} = 59$



ZE910-7N, 9 step scales for constant CIE LAB hue 164/360 = 0.457 (left)

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Output: Colorimetric Offset Reflective System ORS18

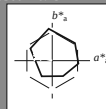
for hue $h^* = lab^*h = 164/360 = 0.457$

lab^*tch and lab^*nch

D65: hue G

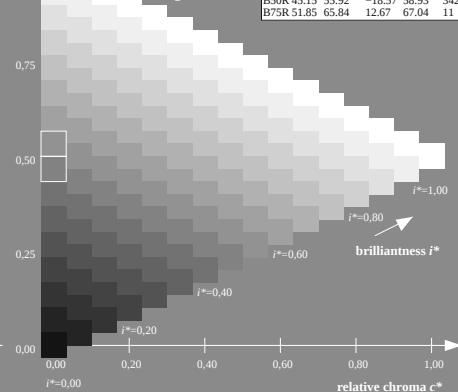
LCH*Ma: 56 52 164

olv*Ma: 0.0 1.0 0.25



triangle lightness t^*

%Gamut
 $u^*_{rel} = 85$
%Regularity
 $g^*_{H,rel} = 57$
 $g^*_{C,rel} = 59$



ZE910-7N, 16 step scales for constant CIE LAB hue 164/360 = 0.457 (right)

BAM-test chart ZE91; Colorimetric systems, Page 23/24
D65: 9 and 16 step colour scales for 4 elementary hues

input: $rgb / cmy0 \text{ set}(rgb/cmyk)color$
output: $\rightarrow cmy5 \text{ set}cmykcolor$

Input: Colorimetric Offset Reflective System ORS18

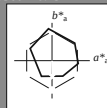
for hue $h^* = \text{lab}^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

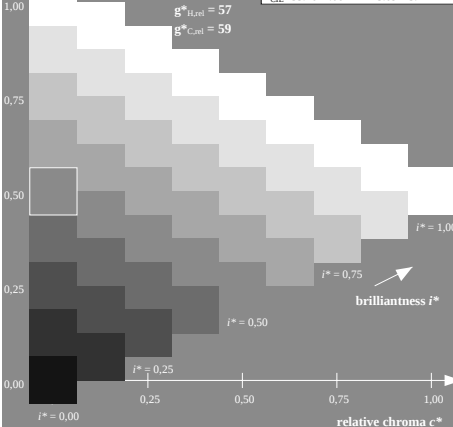
LCH*Ma: 46 41 271

olv*Ma: 0.0 0.49 1.0



triangle lightness t^*

%Gamut
 $u^*_{\text{rel}} = 85$
%Regularity
 $g^*_{H,\text{rel}} = 57$
 $g^*_{C,\text{rel}} = 59$



ZE910-7N, 9 step scales for constant CIELAB hue 271/360 = 0.754 (left)

Output: Colorimetric Offset Reflective System ORS18

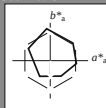
for hue $h^* = \text{lab}^*h = 271/360 = 0.754$

lab^*tch and lab^*nch

D65: hue B

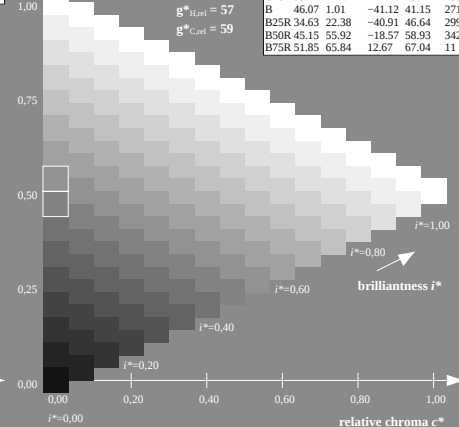
LCH*Ma: 46 41 271

olv*Ma: 0.0 0.49 1.0



triangle lightness t^*

%Gamut
 $u^*_{\text{rel}} = 85$
%Regularity
 $g^*_{H,\text{rel}} = 57$
 $g^*_{C,\text{rel}} = 59$



ZE910-7N, 16 step scales for constant CIELAB hue 271/360 = 0.754 (right)

BAM-test chart ZE91; Colorimetric systems, Page 24/24
D65: 9 and 16 step colour scales for 4 elementary hues

input: $\text{rgb} / \text{cmy}0 \text{ set}(\text{rgb}/\text{cmyk})\text{color}$
output: $\rightarrow \text{cmy}n5 \text{ setcmykcolor}$