See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

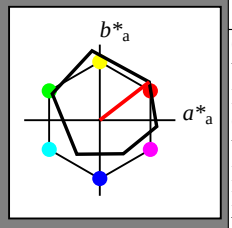
for hue $h^* = lab^*h = 38/360 = 0.105$

lab*tch* and *lab*nch

D65: hue O

LCH*Ma: 48 83 38

olv*Ma: 1.0 0.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

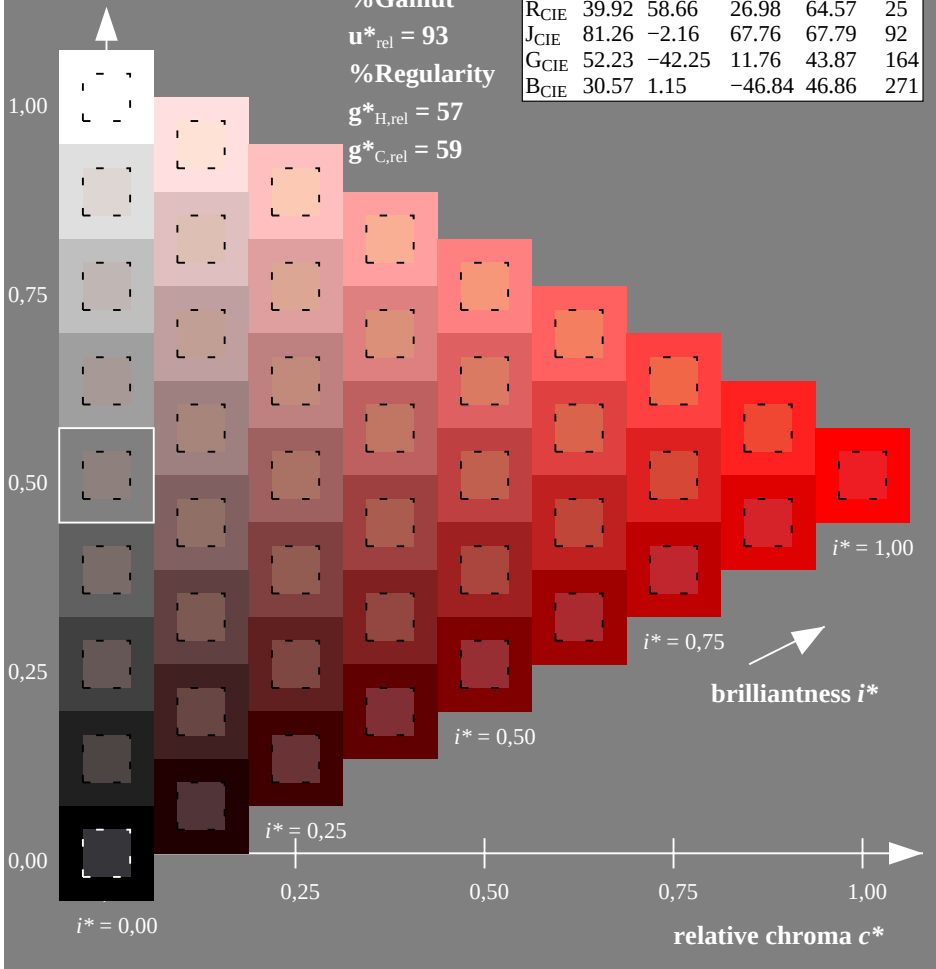
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

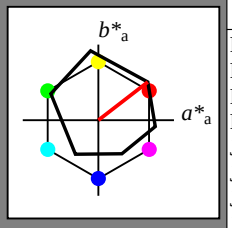
for hue $h^* = lab^*h = 38/360 = 0.105$

lab*tch* and *lab*nch

D65: hue O

LCH*Ma: 48 83 38

olv*Ma: 1.0 0.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

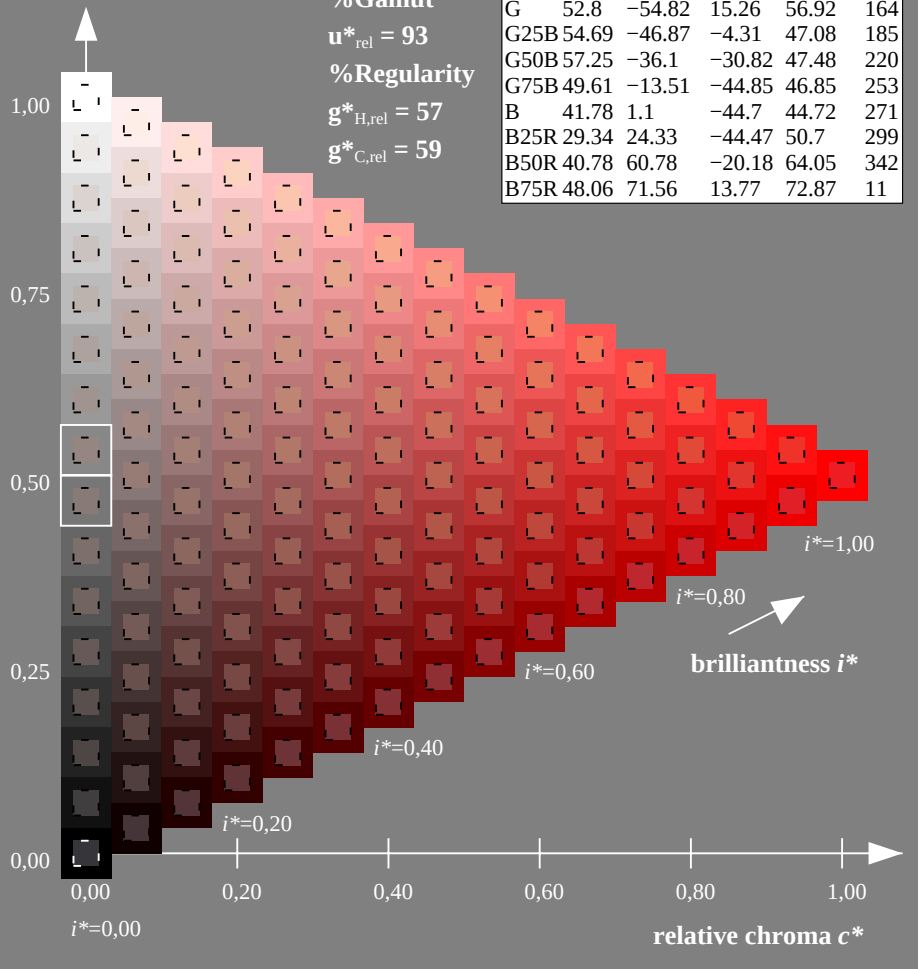
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 38/360 = 0.105 (left) Page 1/60 ZE620−7N, 16 step scales for constant CIELAB hue 38/360 = 0.105 (right)

Input: Colorimetric Offset Reflective System ORS18

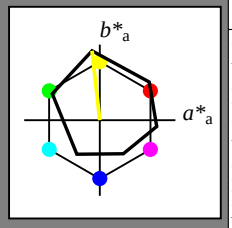
for hue *h = lab*h = 96/360 = 0.268**

lab*tch* and *lab*nch

D65: hue Y

LCH*Ma: 90 92 96

olv*Ma: 1.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

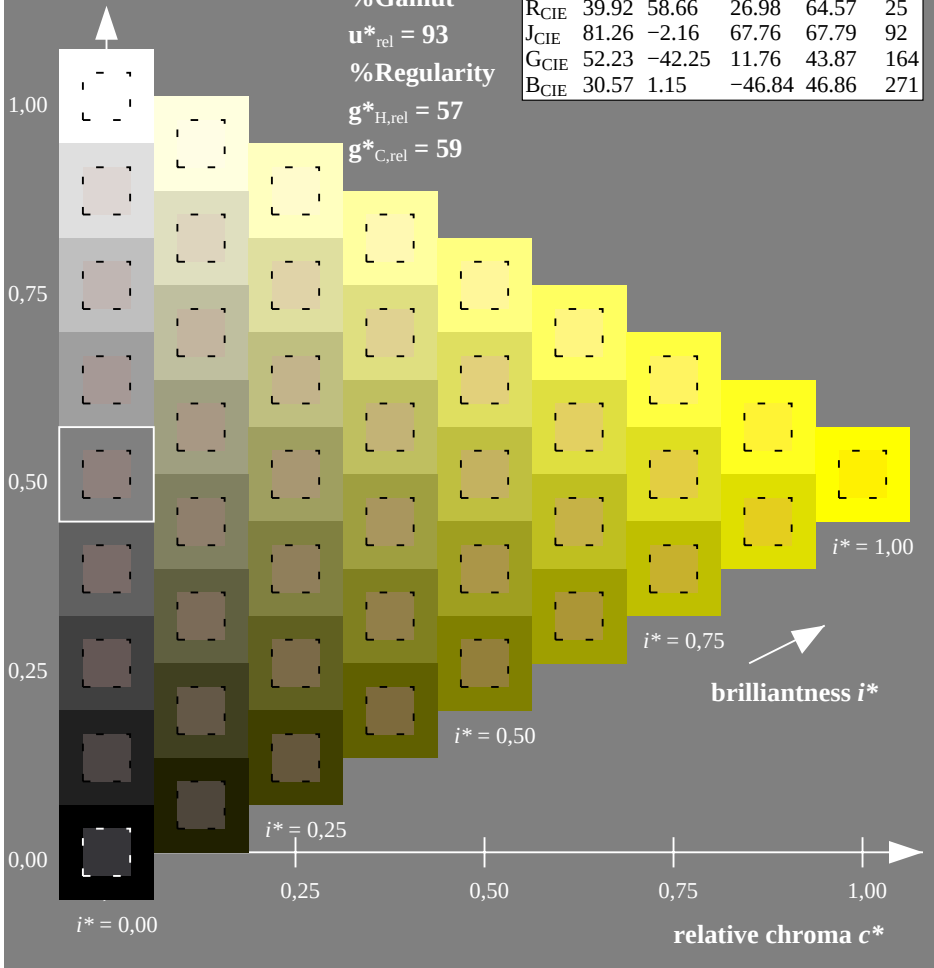
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

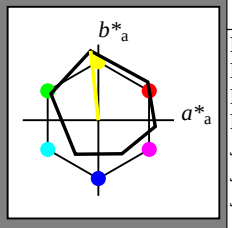
for hue *h = lab*h = 96/360 = 0.268**

lab*tch* and *lab*nch

D65: hue Y

LCH*Ma: 90 92 96

olv*Ma: 1.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

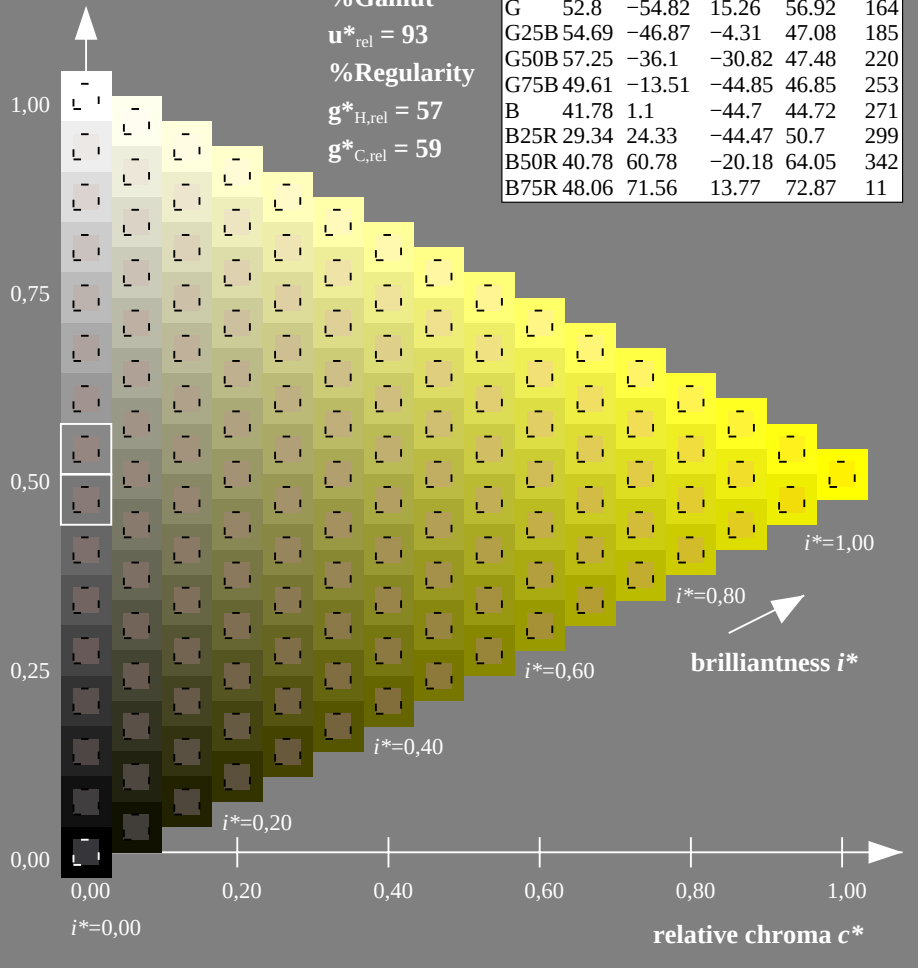
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 96/360 = 0.268 (left)

ZE620−7N, 16 step scales for constant CIELAB hue 96/360 = 0.268 (right)

BAM-test chart ZE62; Colorimetric systems, Page 2/60
D65: 9 and 16 step colour scales for 10 hues

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

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

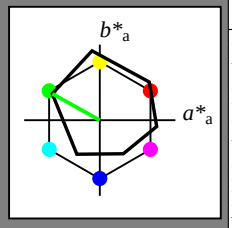
for hue $h^* = lab^*h = 151/360 = 0.419$

lab*tch* and *lab*nch

D65: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

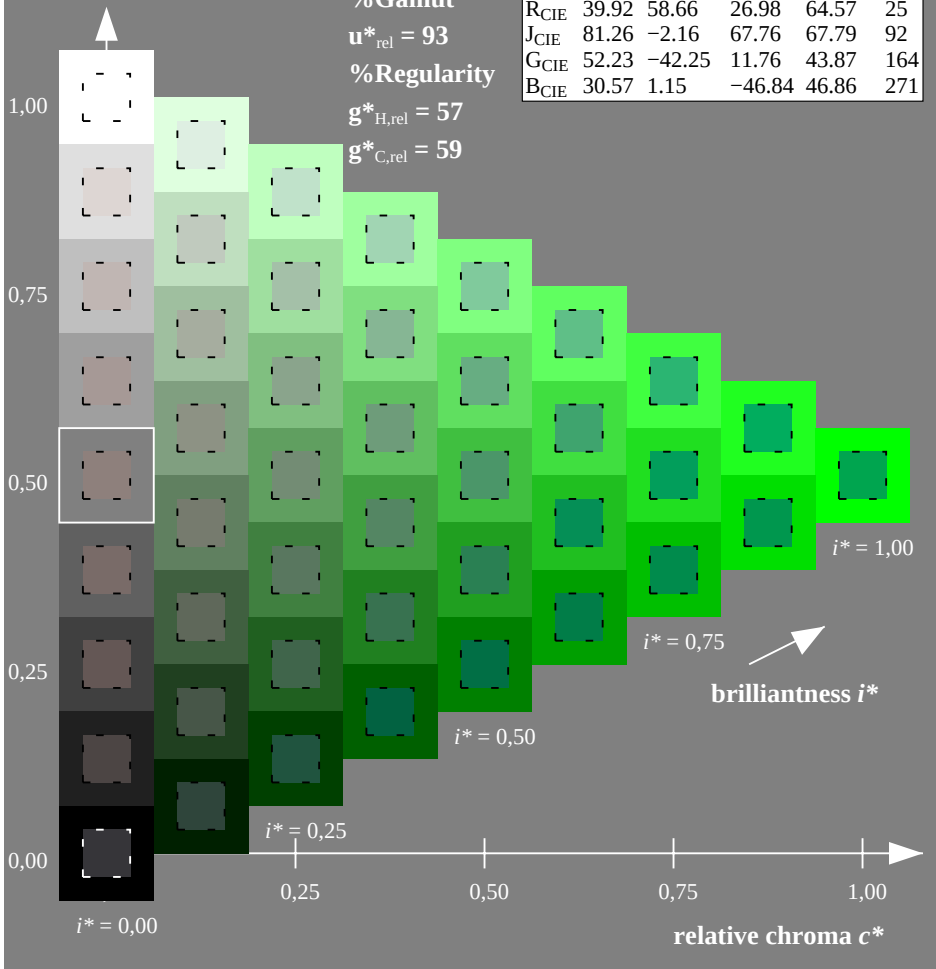
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

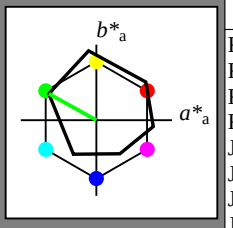
for hue $h^* = lab^*h = 151/360 = 0.419$

lab*tch* and *lab*nch

D65: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

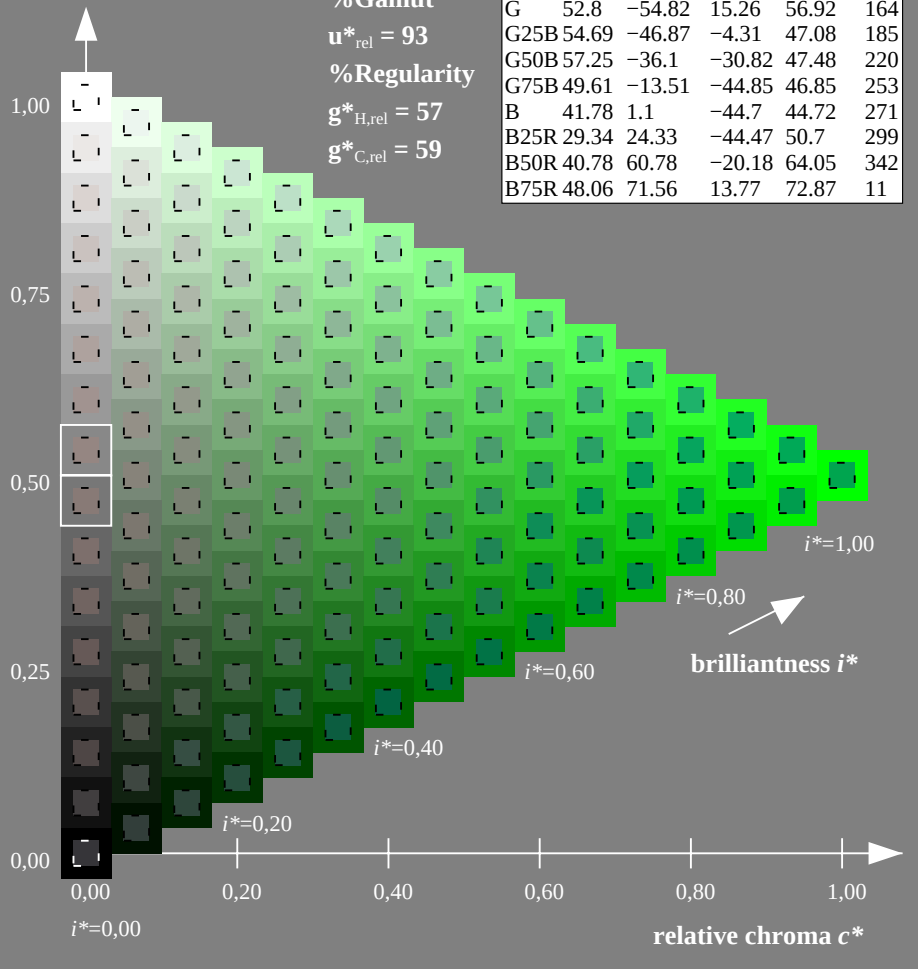
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 151/360 = 0.419 (left) Page 3/60 ZE620−7N, 16 step scales for constant CIELAB hue 151/360 = 0.419 (right)

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

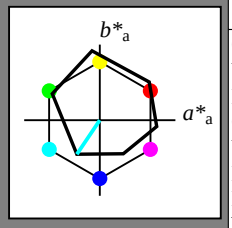
for hue $h^* = lab^*h = 236/360 = 0.656$

lab*tch* and *lab*nch

D65: hue C

LCH*Ma: 59 54 236

olv*Ma: 0.0 1.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

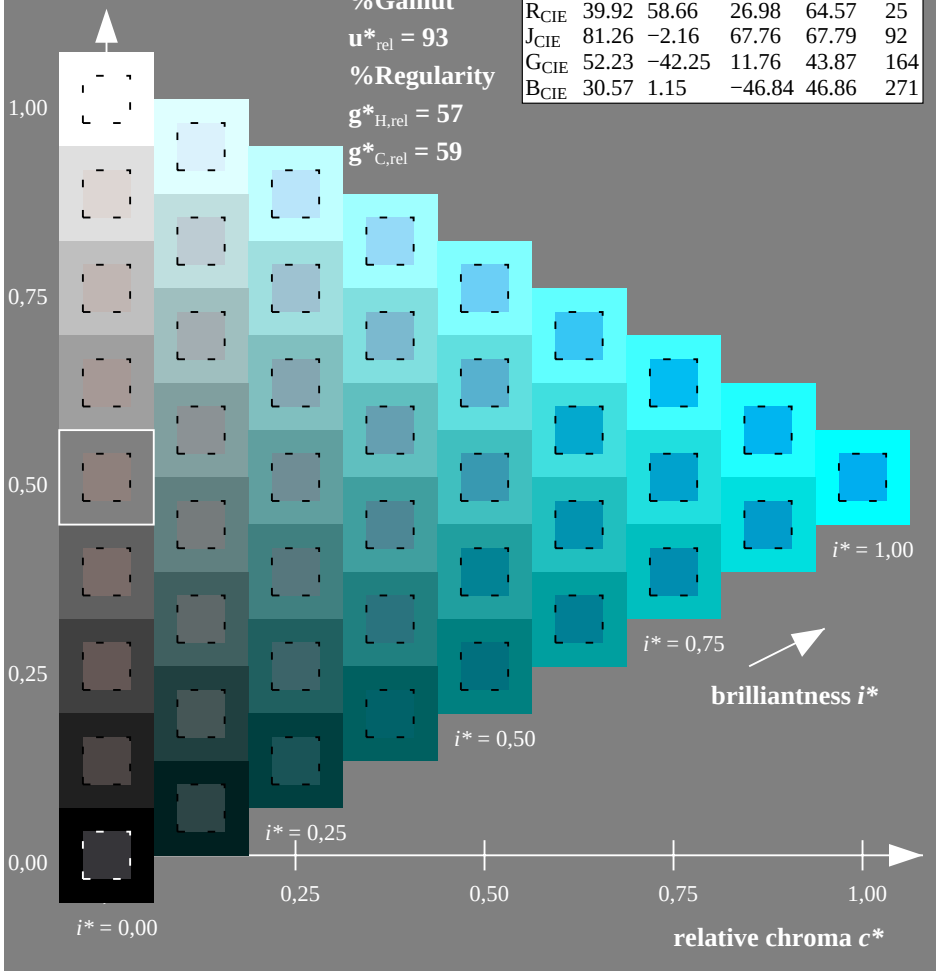
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

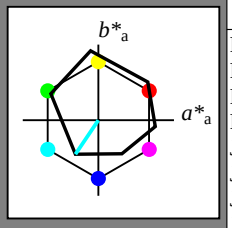
for hue $h^* = lab^*h = 236/360 = 0.656$

lab*tch* and *lab*nch

D65: hue C

LCH*Ma: 59 54 236

olv*Ma: 0.0 1.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

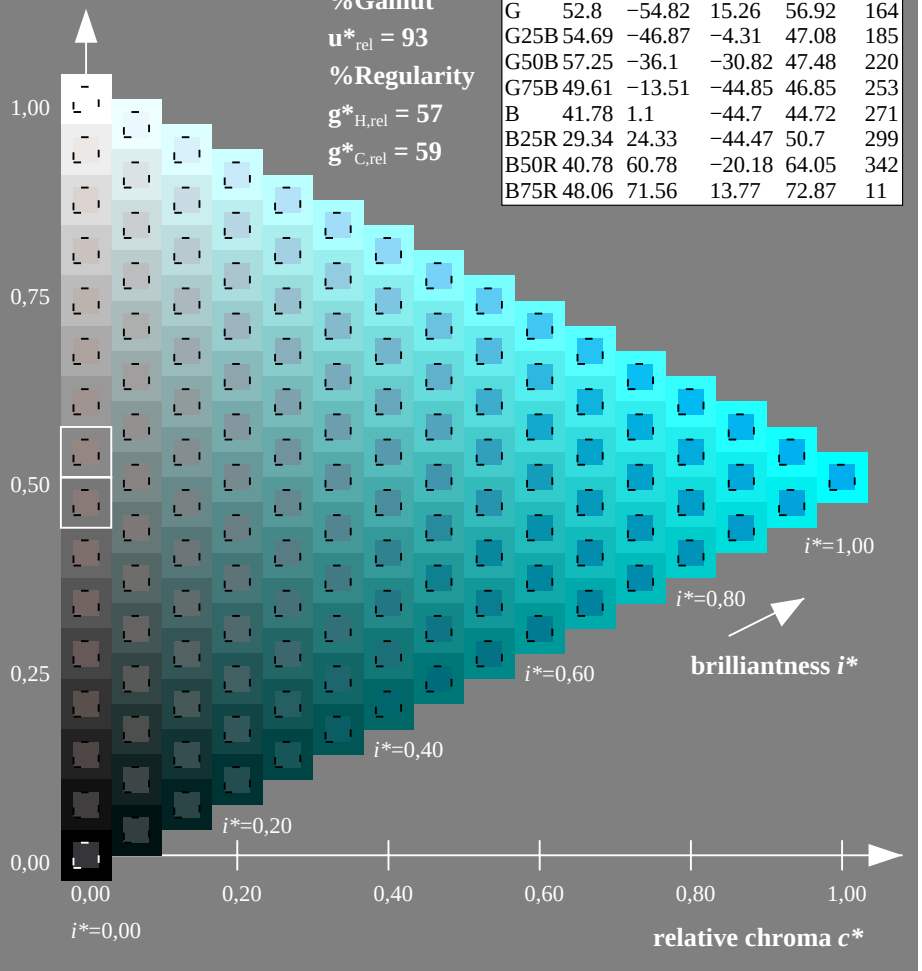
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 236/360 = 0.656 (left) Page 4/60 ZE620−7N, 16 step scales for constant CIELAB hue 236/360 = 0.656 (right)

Input: Colorimetric Offset Reflective System ORS18

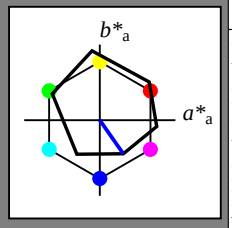
for hue *h = lab*h = 305/360 = 0.847**

lab*tch* and *lab*nch

D65: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

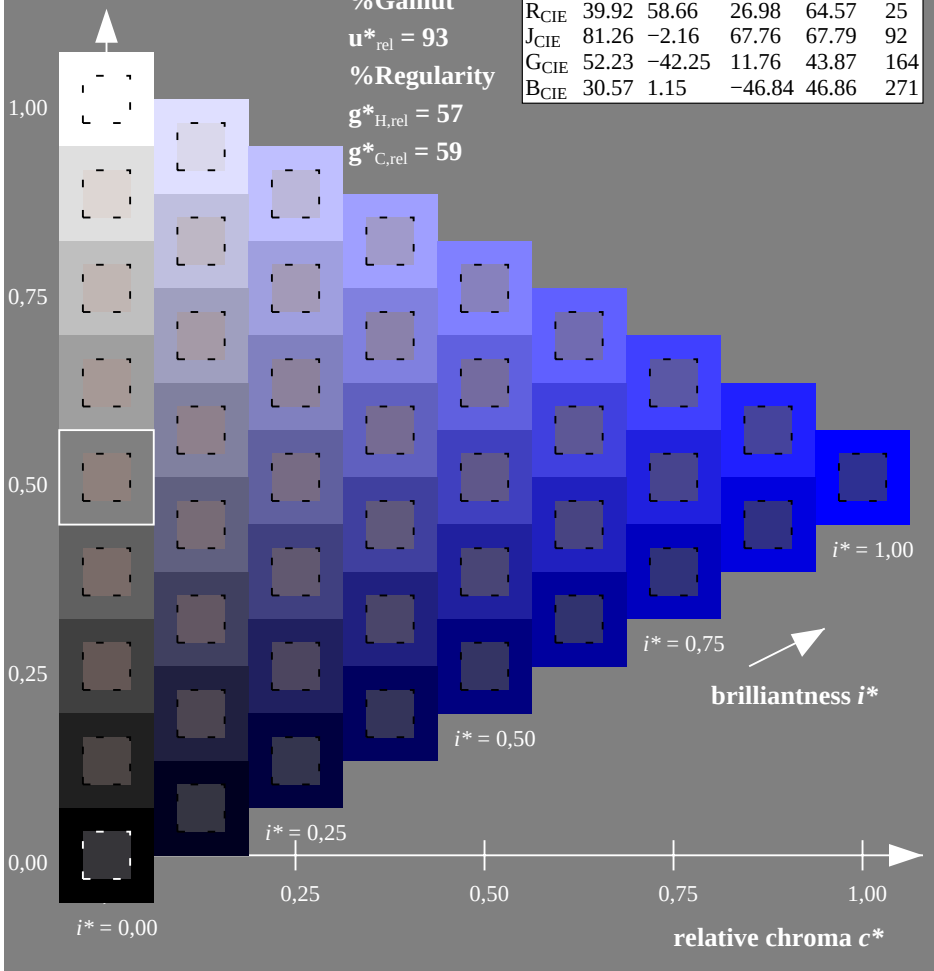
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

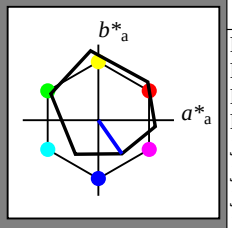
for hue *h = lab*h = 305/360 = 0.847**

lab*tch* and *lab*nch

D65: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

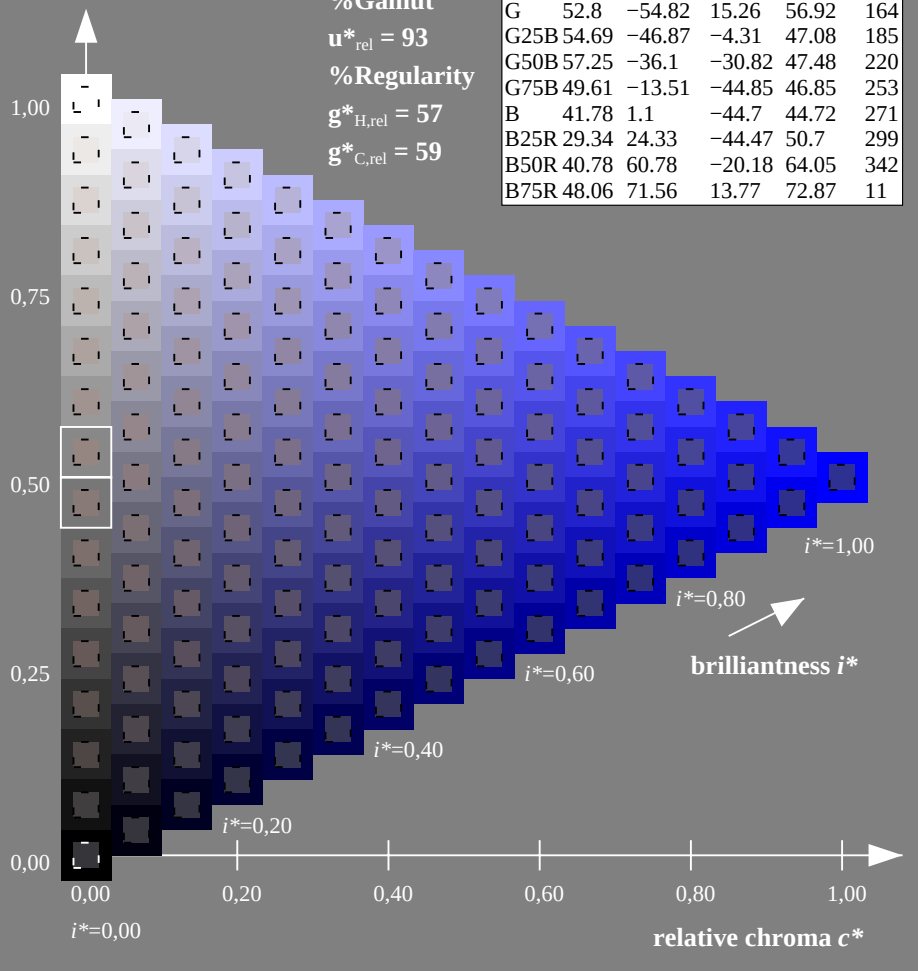
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 305/360 = 0.847 (left)

ZE620−7N, 16 step scales for constant CIELAB hue 305/360 = 0.847 (right)

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

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

Input: Colorimetric Offset Reflective System ORS18

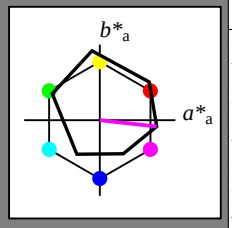
for hue *h = lab*h = 354/360 = 0.982**

lab*tch* and *lab*nch

D65: hue M

LCH*Ma: 48 76 354

olv*Ma: 1.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

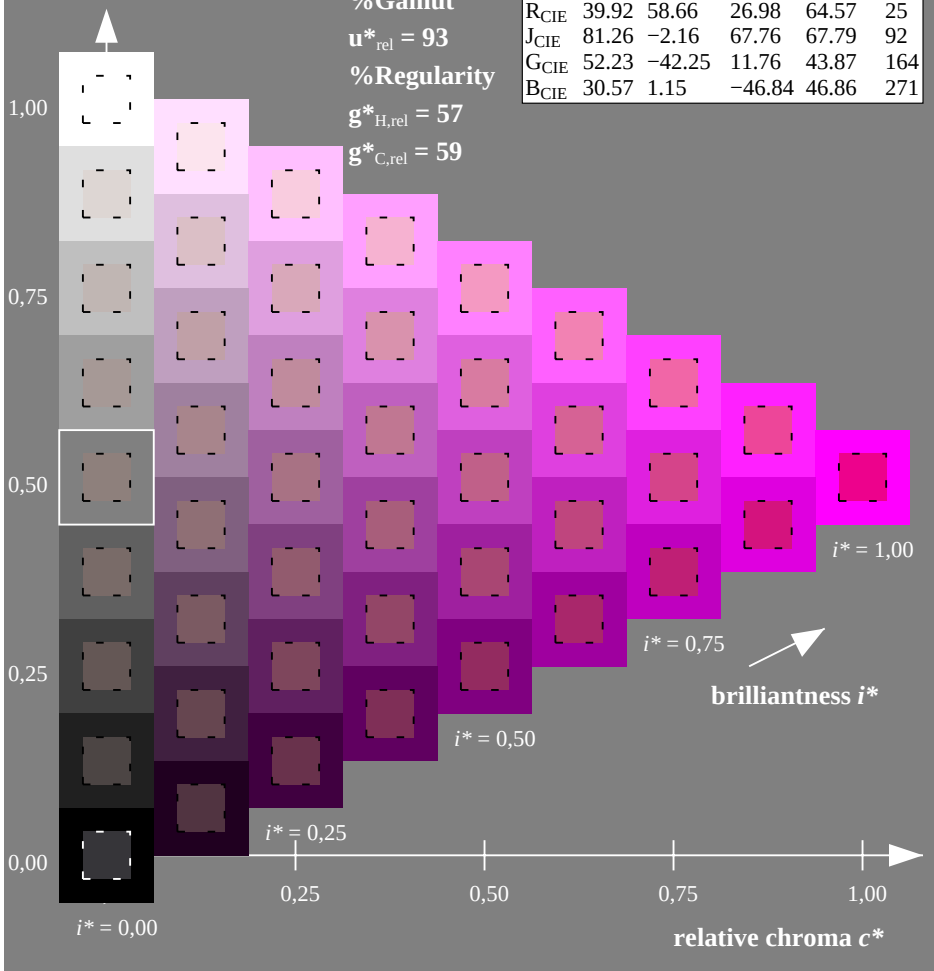
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

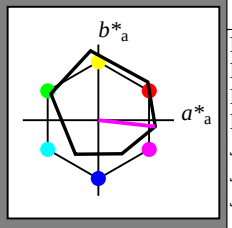
for hue *h = lab*h = 354/360 = 0.982**

lab*tch* and *lab*nch

D65: hue M

LCH*Ma: 48 76 354

olv*Ma: 1.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

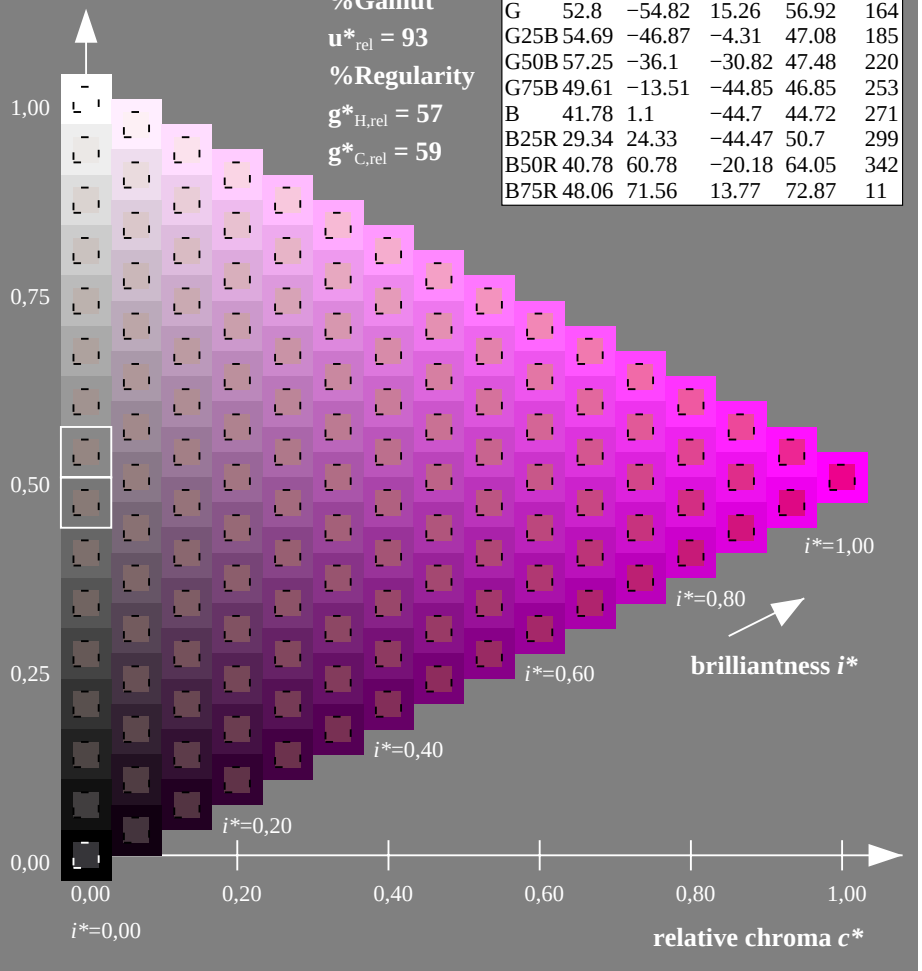
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 354/360 = 0.982 (left)

ZE620−7N, 16 step scales for constant CIELAB hue 354/360 = 0.982 (right)

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

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

Input: Colorimetric Offset Reflective System ORS18

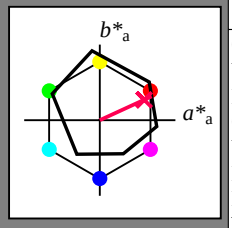
for hue *h = lab*h = 25/360 = 0.069**

lab*tch* and *lab*nch

D65: hue R

LCH*Ma: 48 75 25

olv*Ma: 1.0 0.0 0.32



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

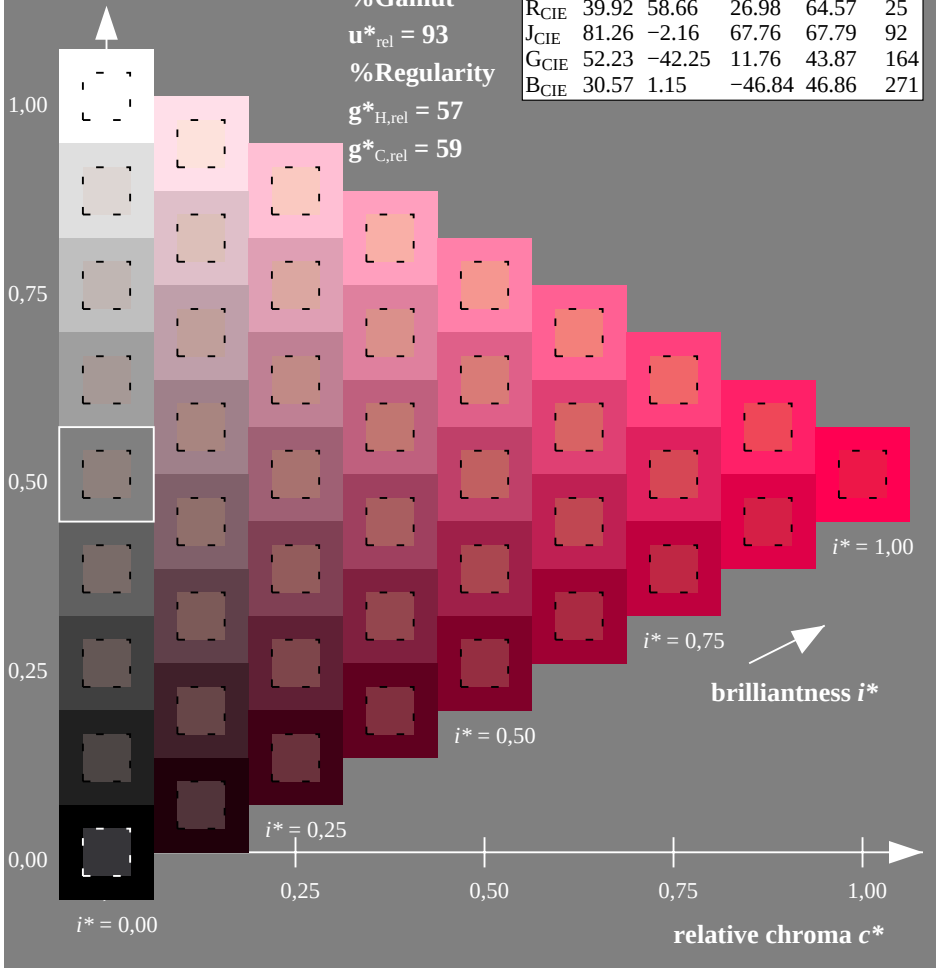
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

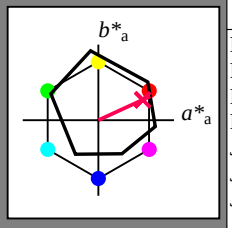
for hue *h = lab*h = 25/360 = 0.069**

lab*tch* and *lab*nch

D65: hue R

LCH*Ma: 48 75 25

olv*Ma: 1.0 0.0 0.32



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

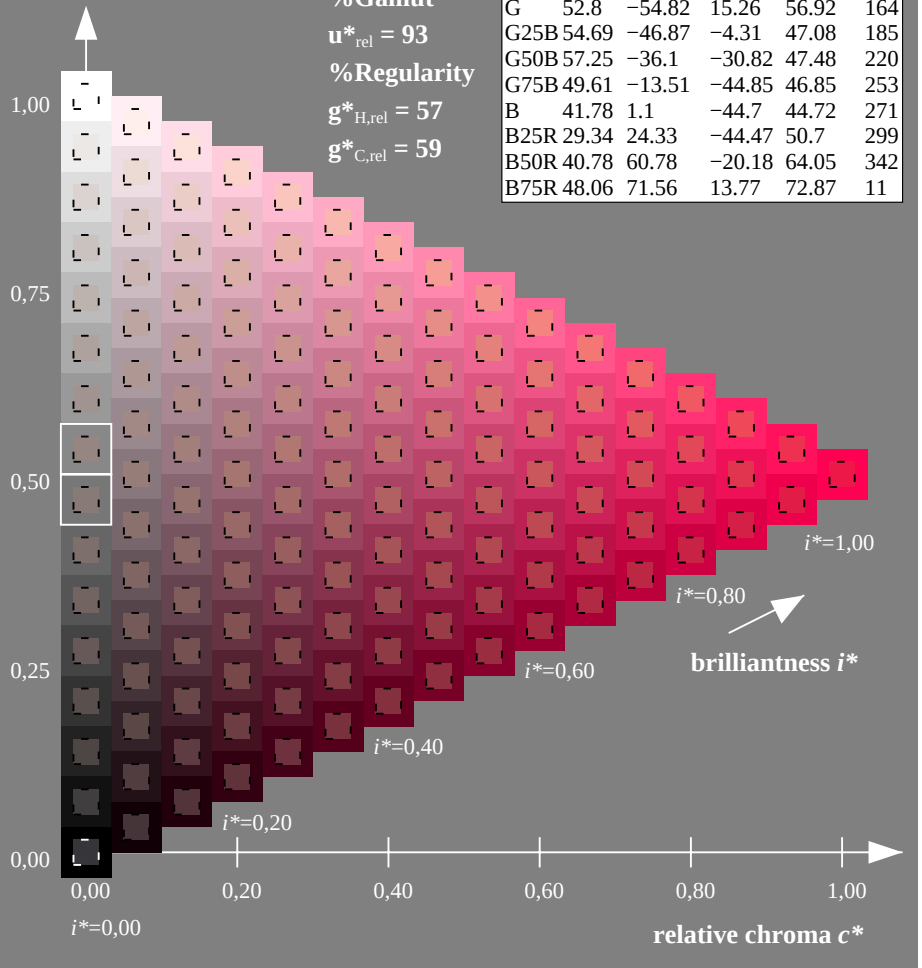
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 25/360 = 0.069 (left) Page 7/60 ZE620−7N, 16 step scales for constant CIELAB hue 25/360 = 0.069 (right)

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

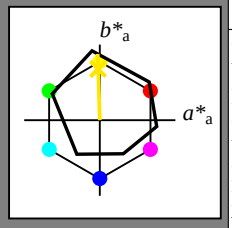
for hue *h = lab*h = 92/360 = 0.255**

lab*tch* and *lab*nch

D65: hue J

LCH*Ma: 86 88 92

olv*Ma: 1.0 0.9 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

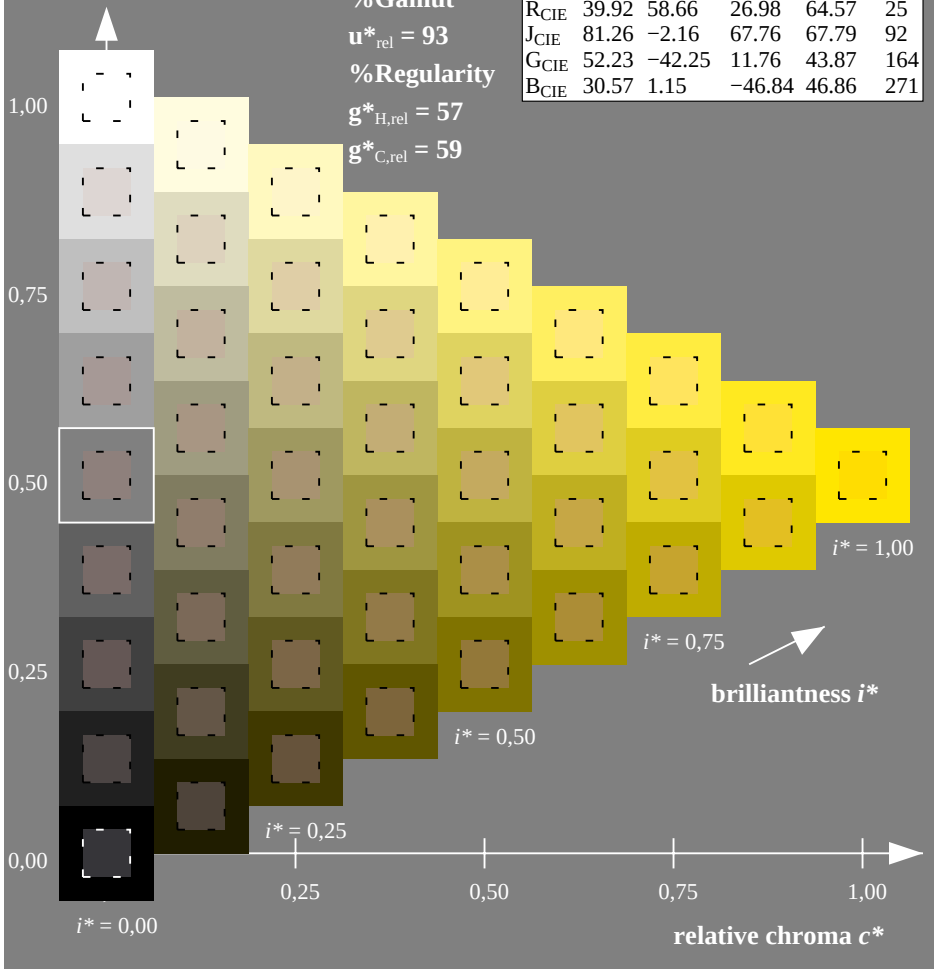
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

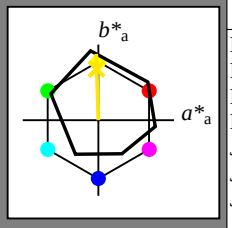
for hue *h = lab*h = 92/360 = 0.255**

lab*tch* and *lab*nch

D65: hue J

LCH*Ma: 86 88 92

olv*Ma: 1.0 0.9 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

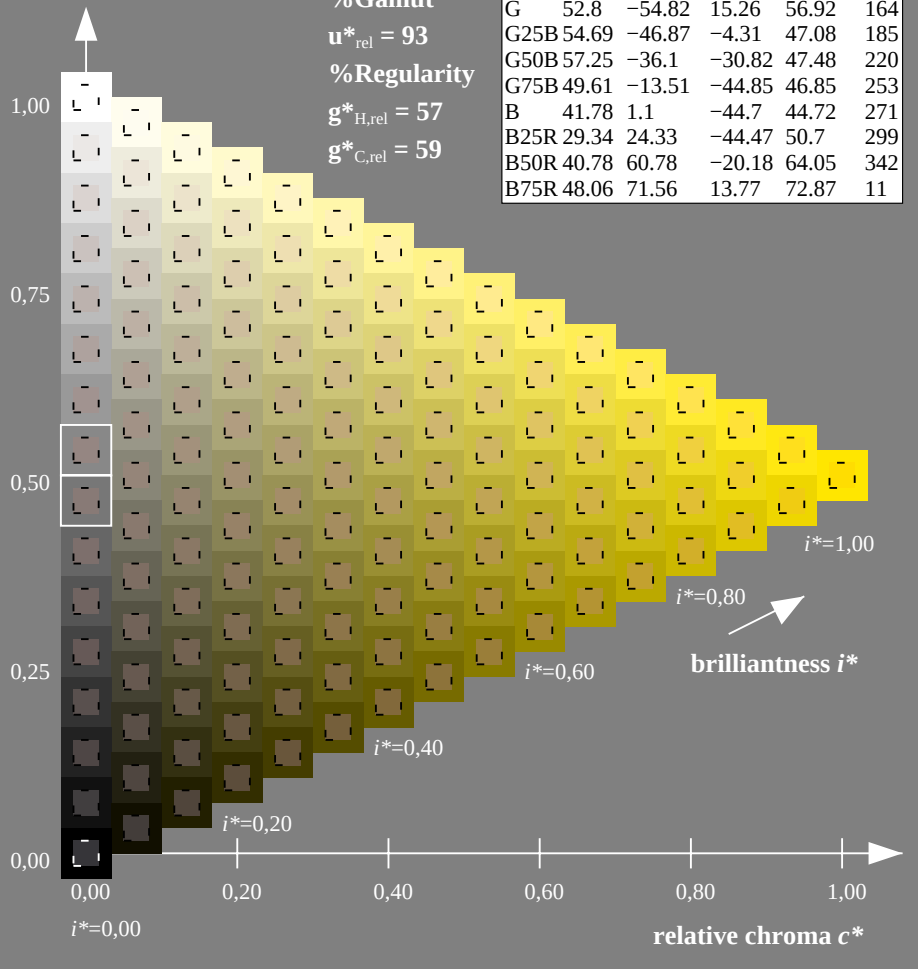
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 92/360 = 0.255 (left)

ZE620−7N, 16 step scales for constant CIELAB hue 92/360 = 0.255 (right)

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

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

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

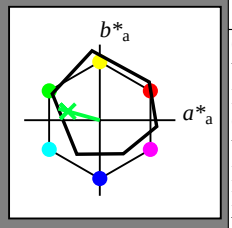
for hue $h^* = lab^*h = 164/360 = 0.457$

lab*tch* and *lab*nch

D65: hue G

LCH*Ma: 53 57 164

olv*Ma: 0.0 1.0 0.25



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

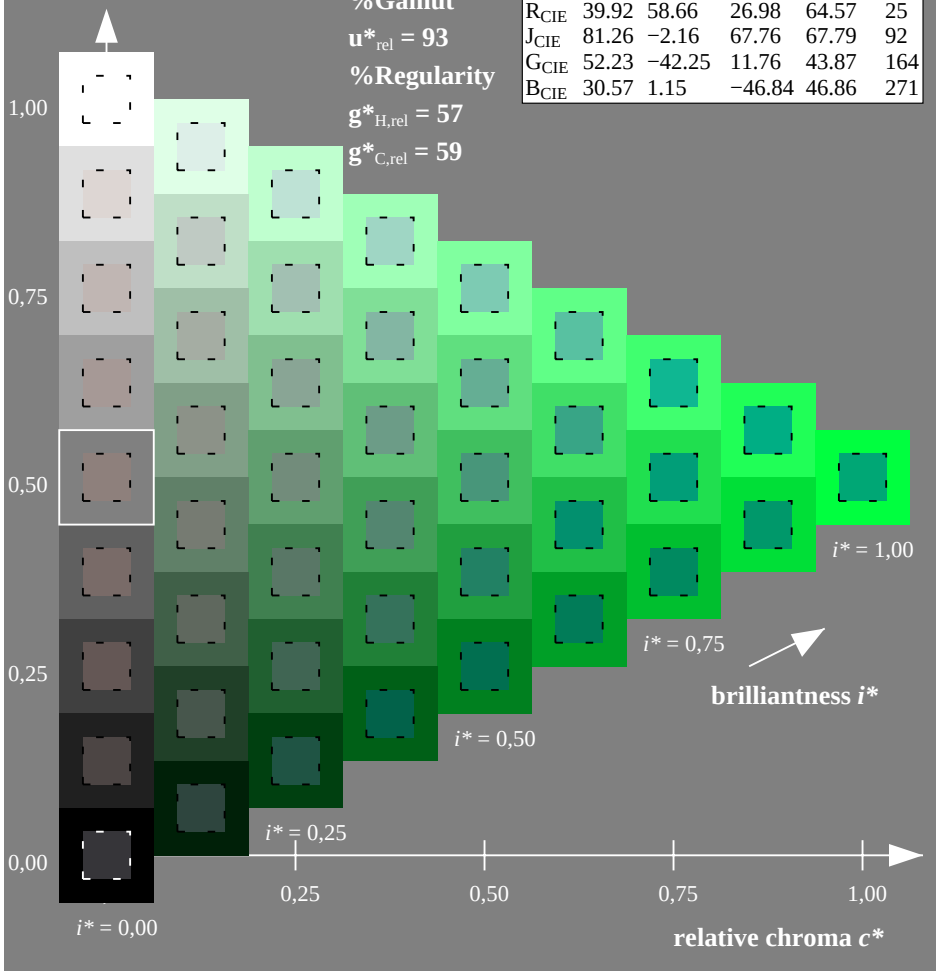
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

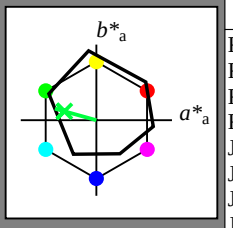
for hue $h^* = lab^*h = 164/360 = 0.457$

lab*tch* and *lab*nch

D65: hue G

LCH*Ma: 53 57 164

olv*Ma: 0.0 1.0 0.25



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

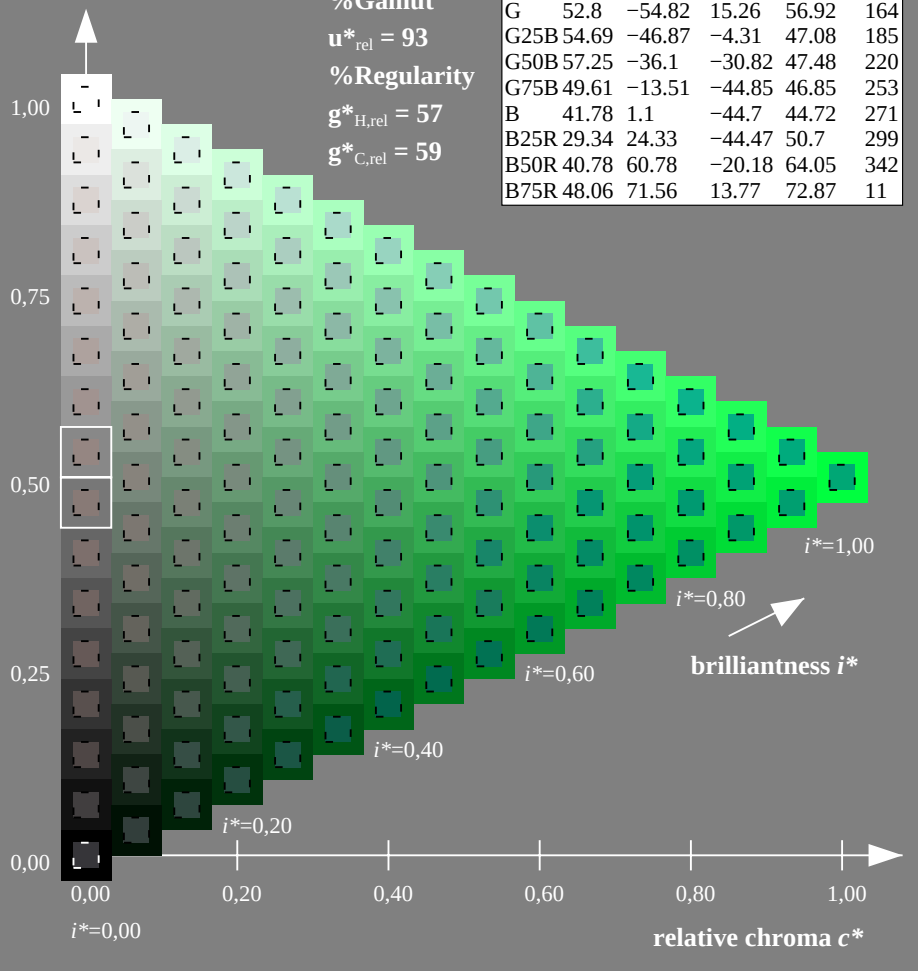
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 164/360 = 0.457 (left) Page 9/60 ZE620−7N, 16 step scales for constant CIELAB hue 164/360 = 0.457 (right)

Input: Colorimetric Offset Reflective System ORS18

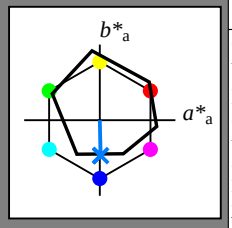
for hue *h = lab*h = 271/360 = 0.754**

lab*tch* and *lab*nch

D65: hue B

LCH*Ma: 42 45 271

olv*Ma: 0.0 0.49 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

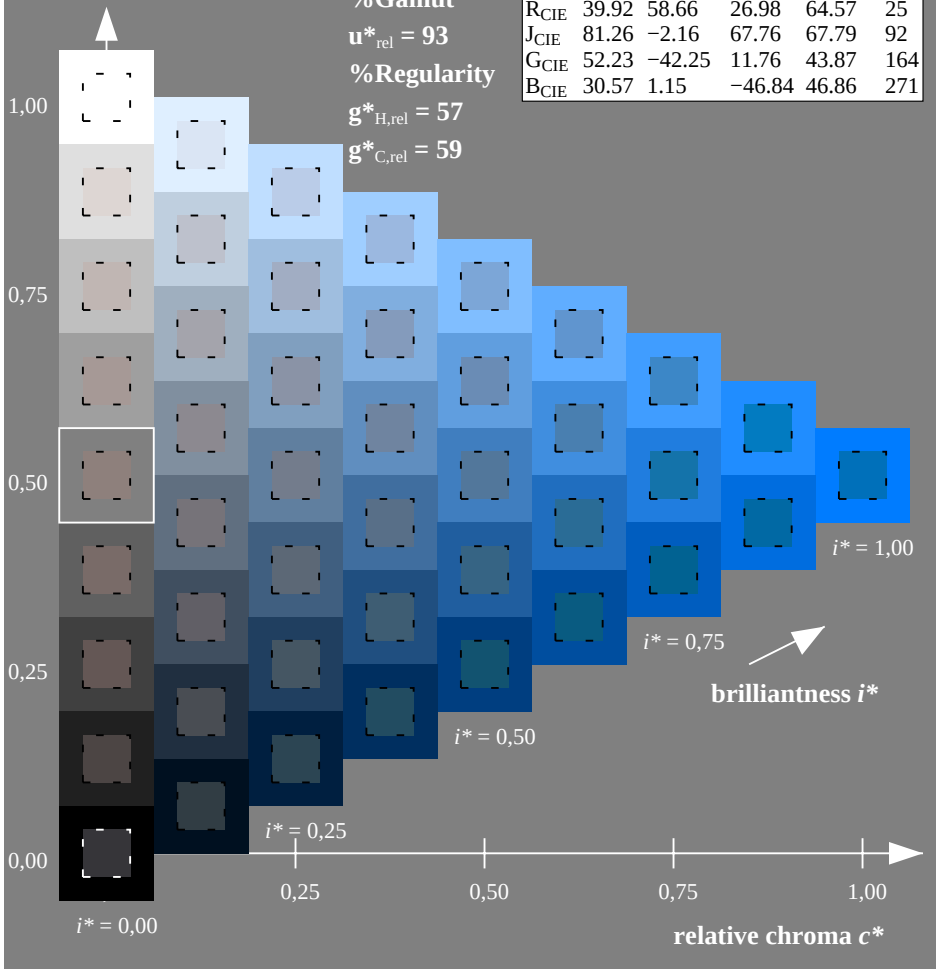
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

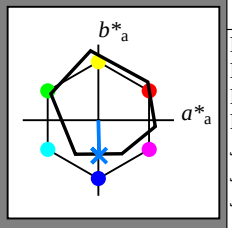
for hue *h = lab*h = 271/360 = 0.754**

lab*tch* and *lab*nch

D65: hue B

LCH*Ma: 42 45 271

olv*Ma: 0.0 0.49 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

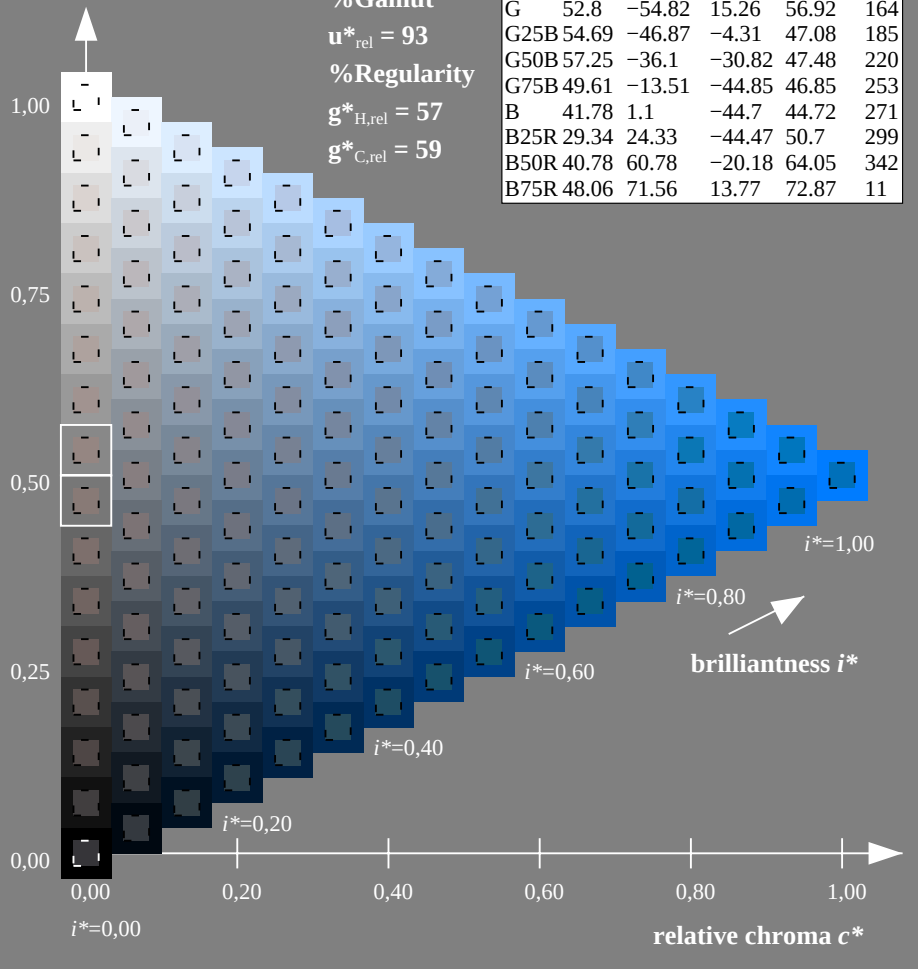
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 271/360 = 0.754 (left) Page 10/60 ZE620−7N, 16 step scales for constant CIELAB hue 271/360 = 0.754 (right)

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

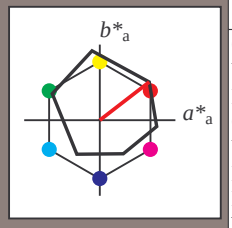
for hue $h^* = lab^*h = 38/360 = 0.105$

lab*tch* and *lab*nch

D65: hue O

LCH*Ma: 48 83 38

olv*Ma: 1.0 0.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

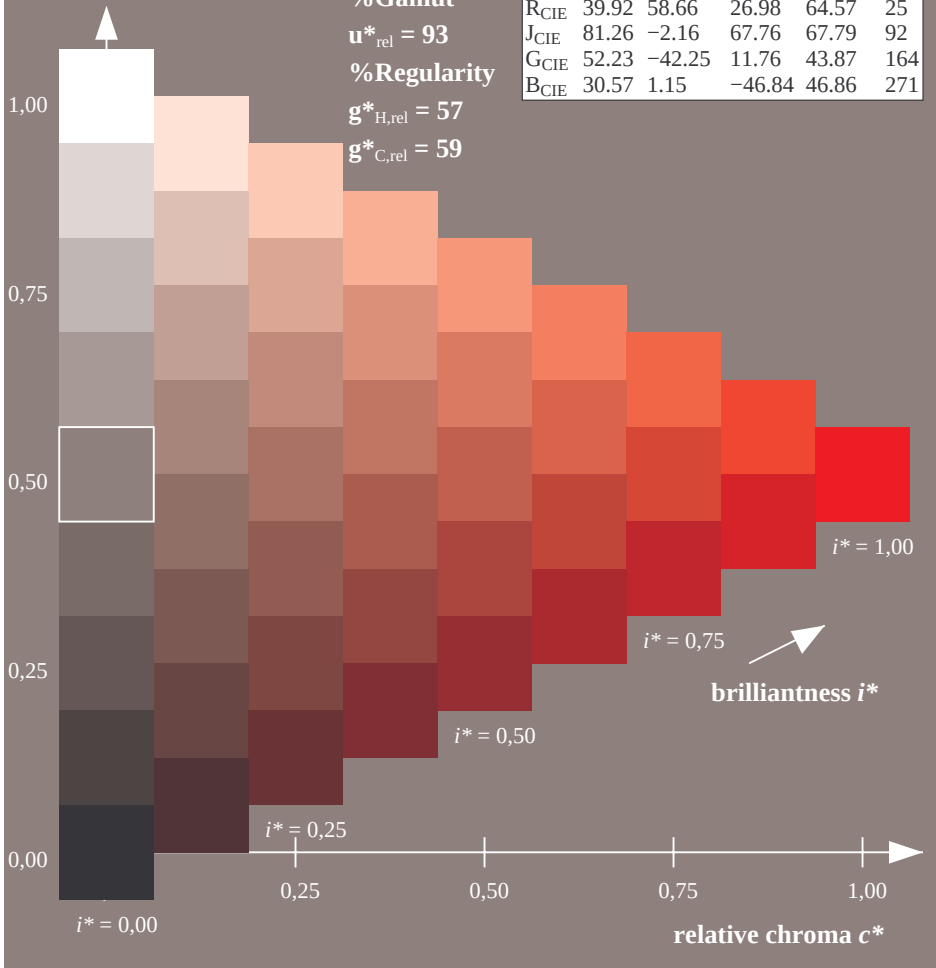
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

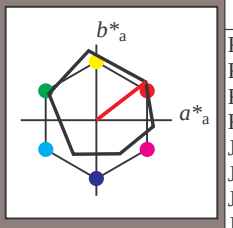
for hue $h^* = lab^*h = 38/360 = 0.105$

lab*tch* and *lab*nch

D65: hue O

LCH*Ma: 48 83 38

olv*Ma: 1.0 0.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

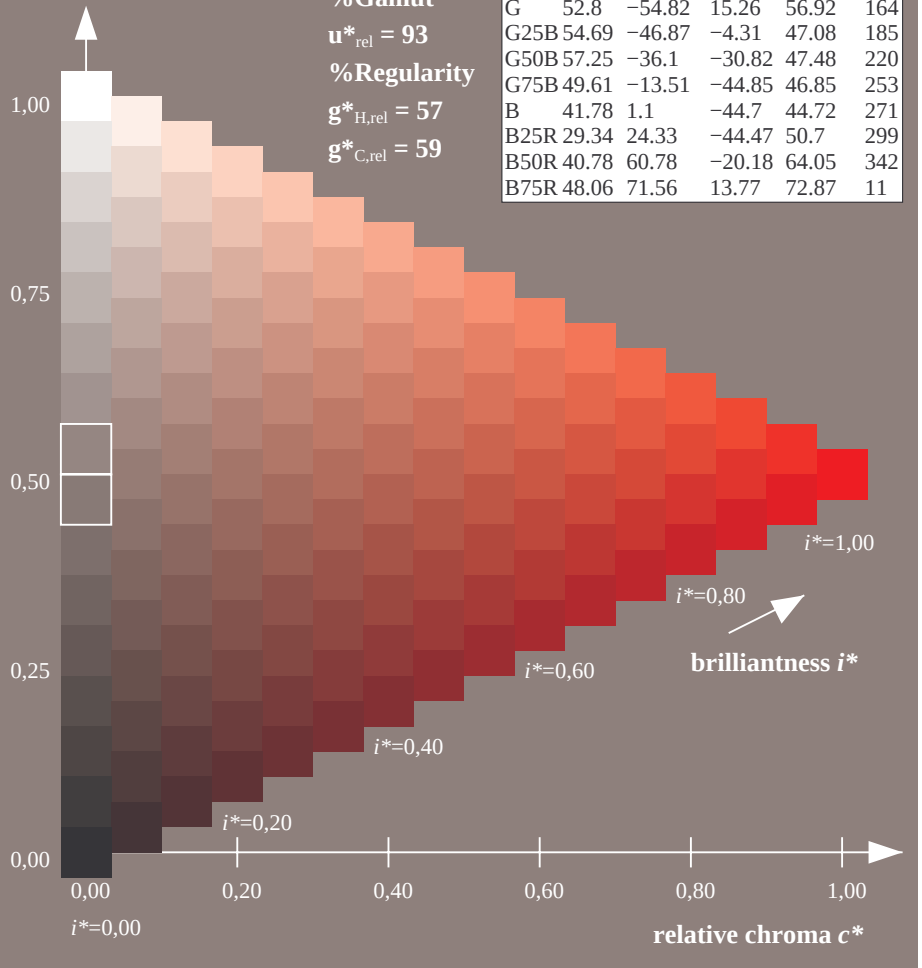
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 38/360 = 0.105 (left)

ZE620−7N, 16 step scales for constant CIELAB hue 38/360 = 0.105 (right)

input: *rgb / cmy0 set(rgb/cmyk)color*
output: *−>cmy0* setcmykcolor*

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

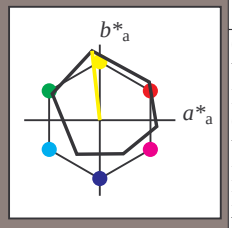
for hue *h* = lab*h = 96/360 = 0.268*

lab*tch* and *lab*nch

D65: hue Y

LCH*Ma: 90 92 96

olv*Ma: 1.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

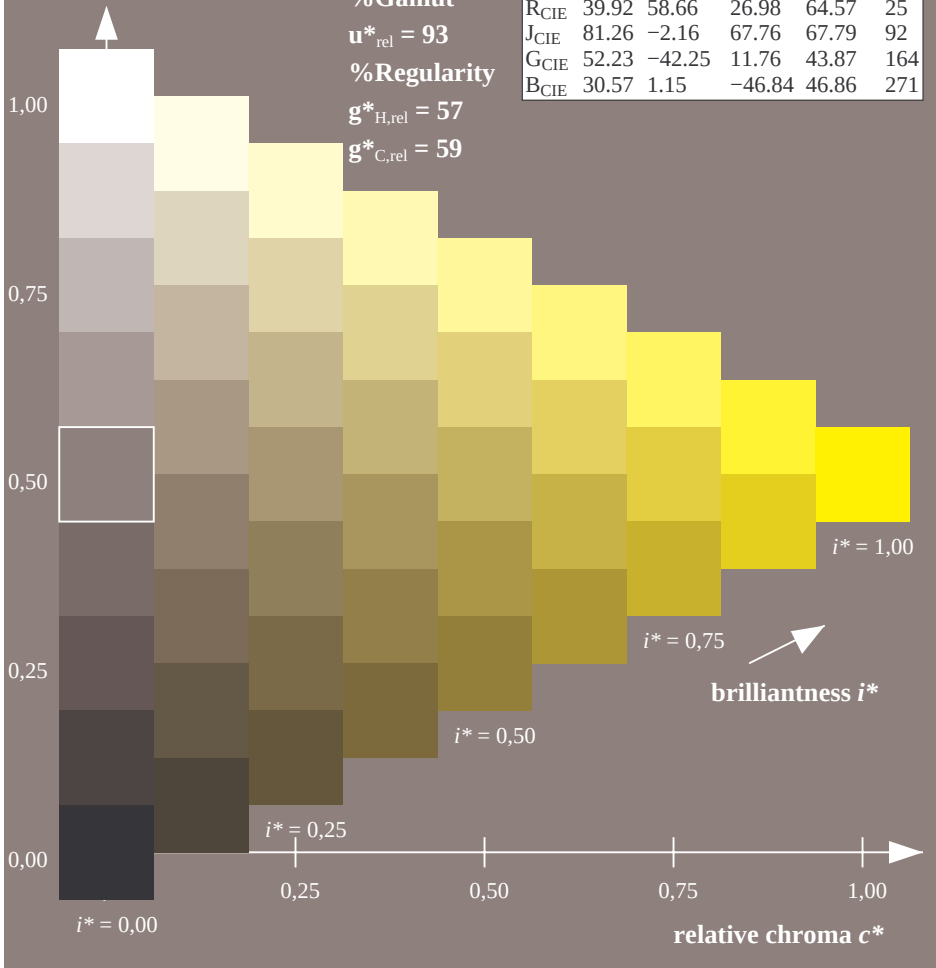
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

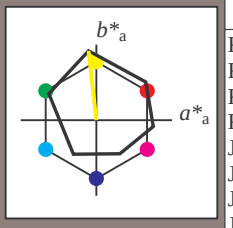
for hue *h* = lab*h = 96/360 = 0.268*

lab*tch* and *lab*nch

D65: hue Y

LCH*Ma: 90 92 96

olv*Ma: 1.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

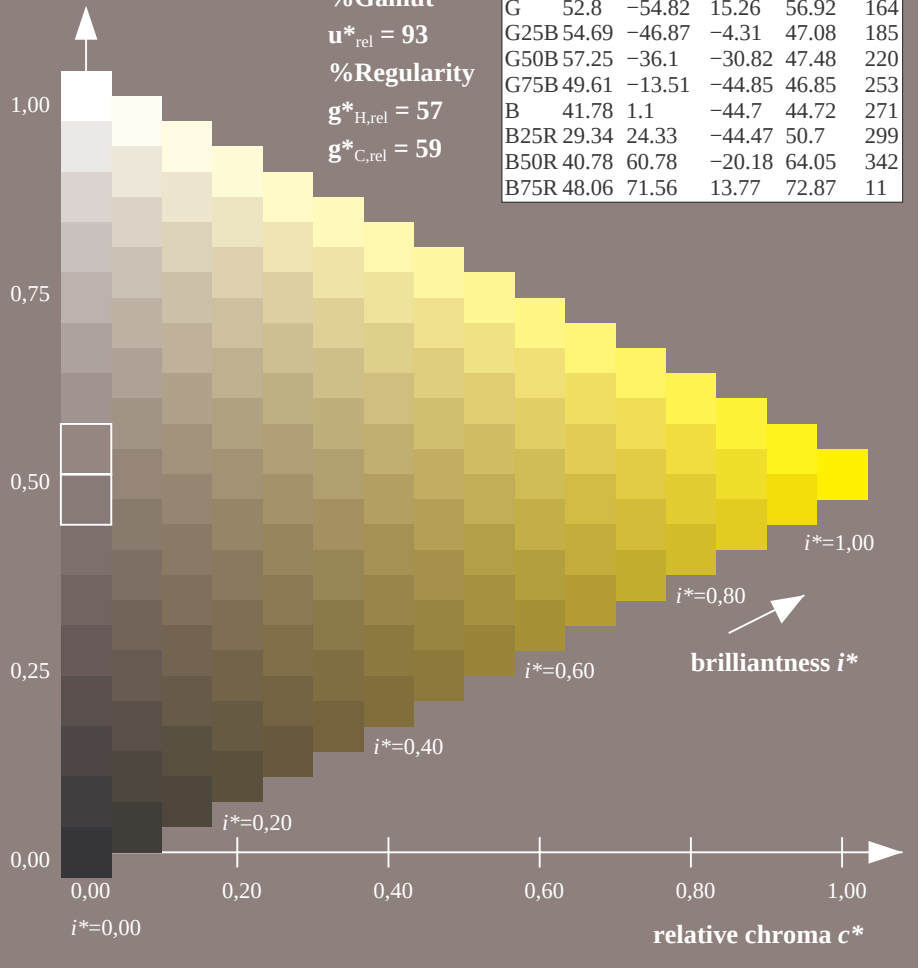
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 96/360 = 0.268 (left) Page 12/60 ZE620−7N, 16 step scales for constant CIELAB hue 96/360 = 0.268 (right)

input: *rgb / cmy0 set(rgb/cmyk)color*
output: *−>cmy0* setcmykcolor*

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

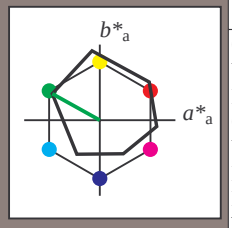
for hue *h* = lab*h = 151/360 = 0.419*

lab*tch* and *lab*nch

D65: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

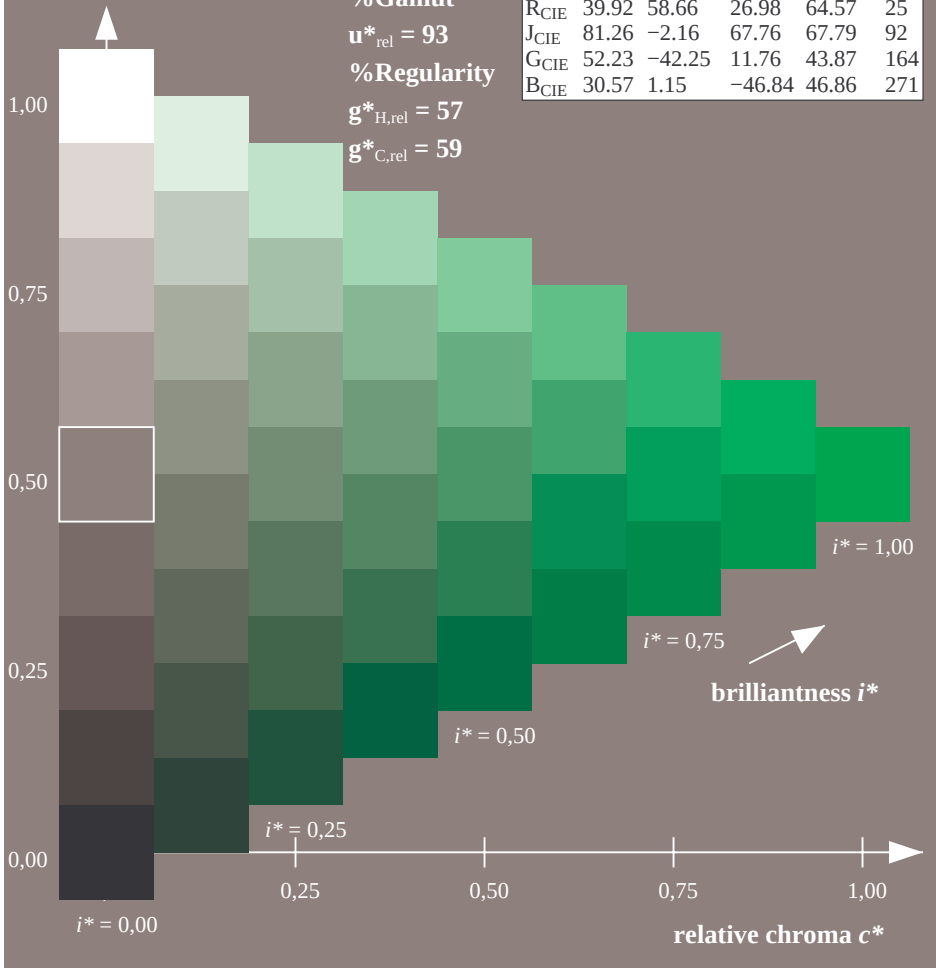
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

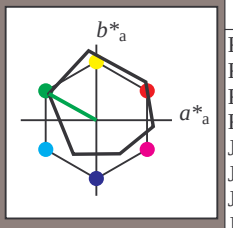
for hue *h* = lab*h = 151/360 = 0.419*

lab*tch* and *lab*nch

D65: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

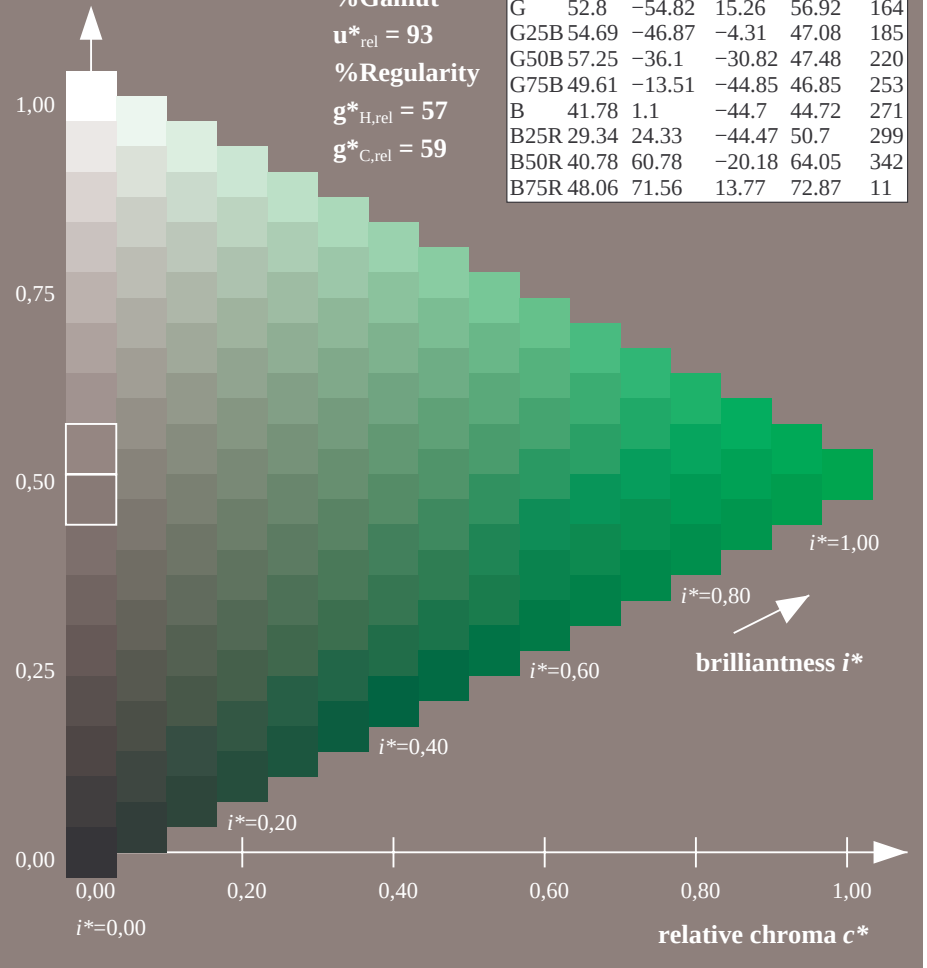
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 151/360 = 0.419 (left) Page 13/60 ZE620−7N, 16 step scales for constant CIELAB hue 151/360 = 0.419 (right)

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

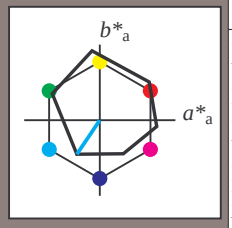
for hue $h^* = lab^*h = 236/360 = 0.656$

lab*tch* and *lab*nch

D65: hue C

LCH*Ma: 59 54 236

olv*Ma: 0.0 1.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness t^*

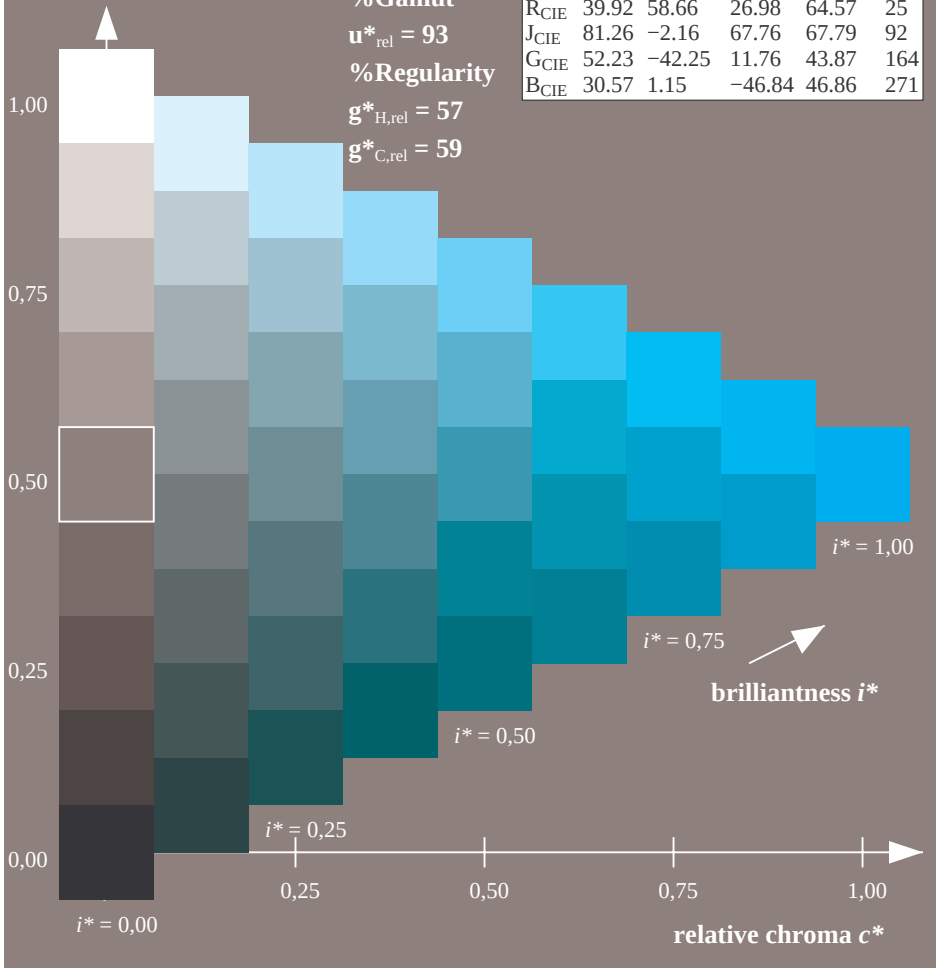
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

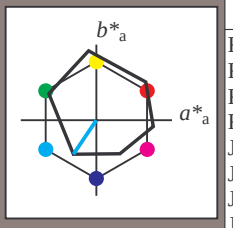
for hue $h^* = lab^*h = 236/360 = 0.656$

lab*tch* and *lab*nch

D65: hue C

LCH*Ma: 59 54 236

olv*Ma: 0.0 1.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness t^*

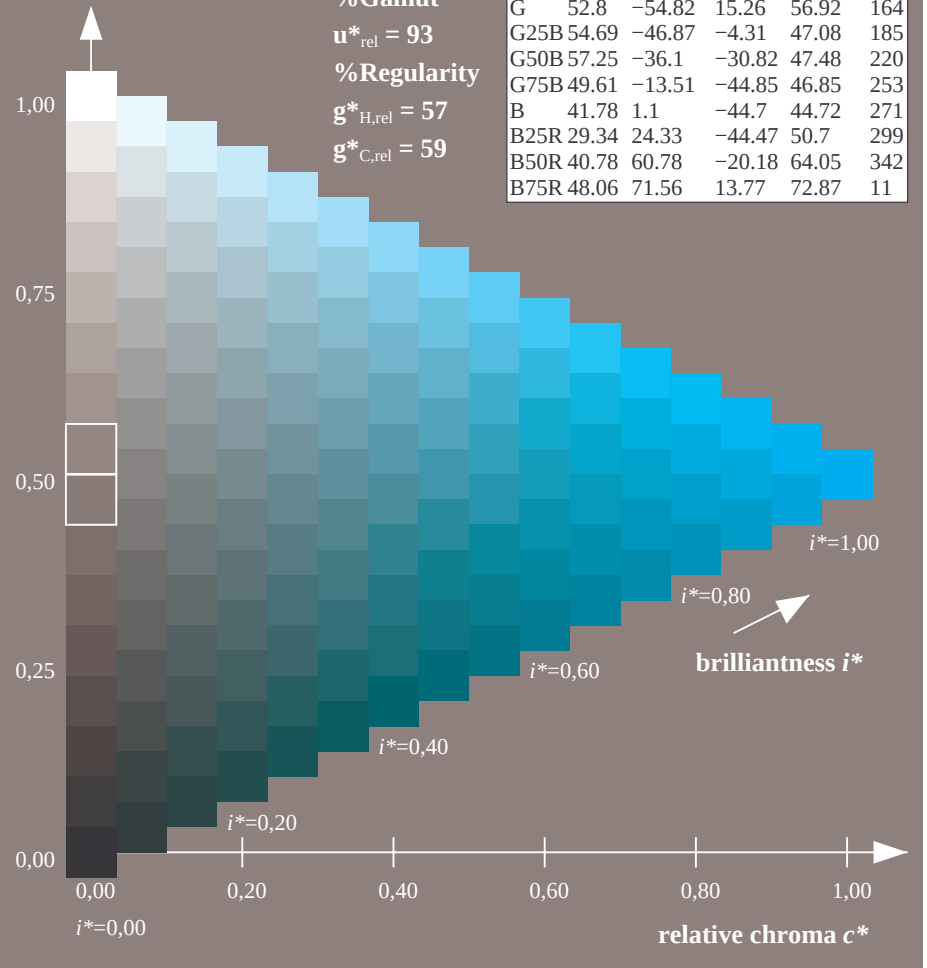
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 236/360 = 0.656 (left) Page 14/60 ZE620−7N, 16 step scales for constant CIELAB hue 236/360 = 0.656 (right)

Input: Colorimetric Offset Reflective System ORS18

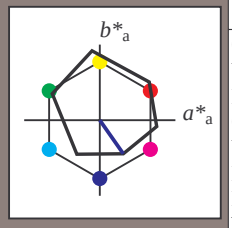
for hue *h = lab*h = 305/360 = 0.847**

lab*tch* and *lab*nch

D65: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

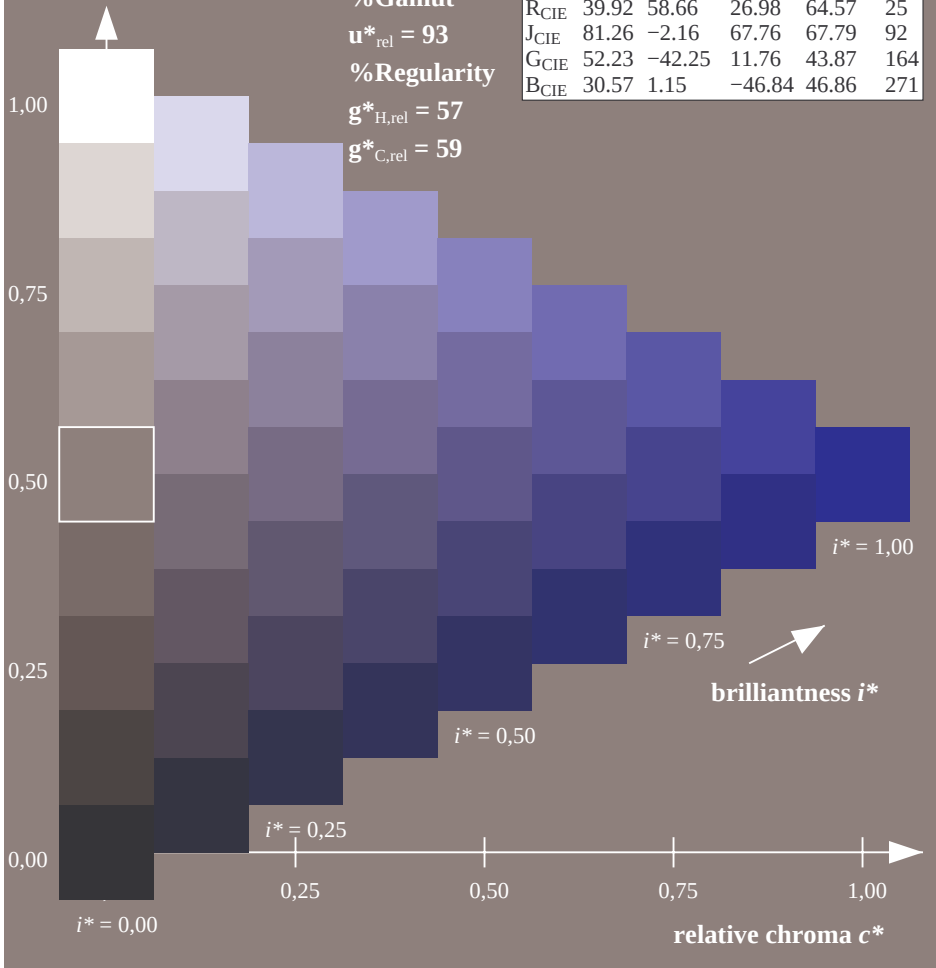
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

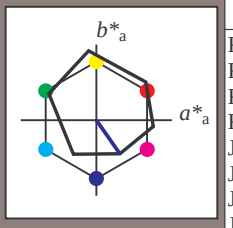
for hue *h = lab*h = 305/360 = 0.847**

lab*tch* and *lab*nch

D65: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

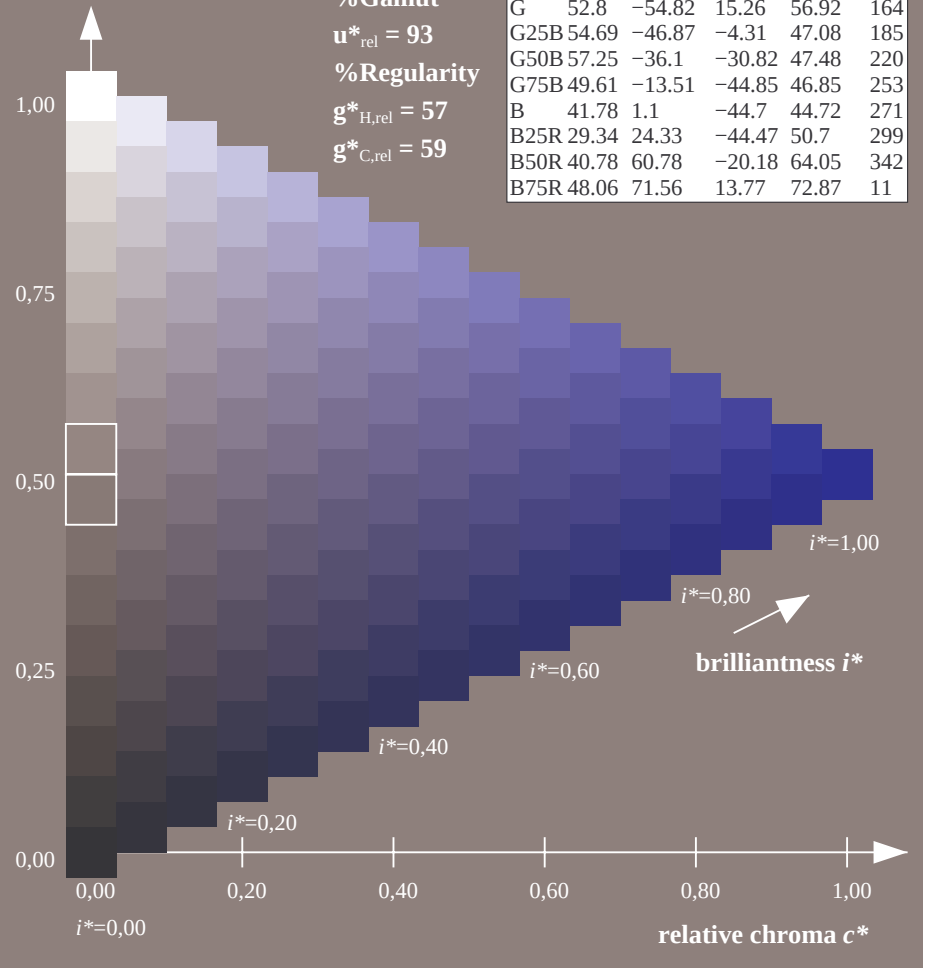
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 305/360 = 0.847 (left)

ZE620−7N, 16 step scales for constant CIELAB hue 305/360 = 0.847 (right)

input: *rgb / cmy0 set(rgb/cmyk)color*
output: *−>cmy0* setcmykcolor*

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

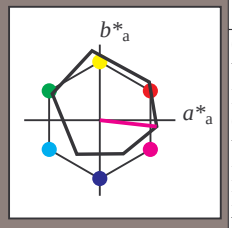
for hue $h^* = lab^*h = 354/360 = 0.982$

lab*tch* and *lab*nch

D65: hue M

LCH*Ma: 48 76 354

olv*Ma: 1.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

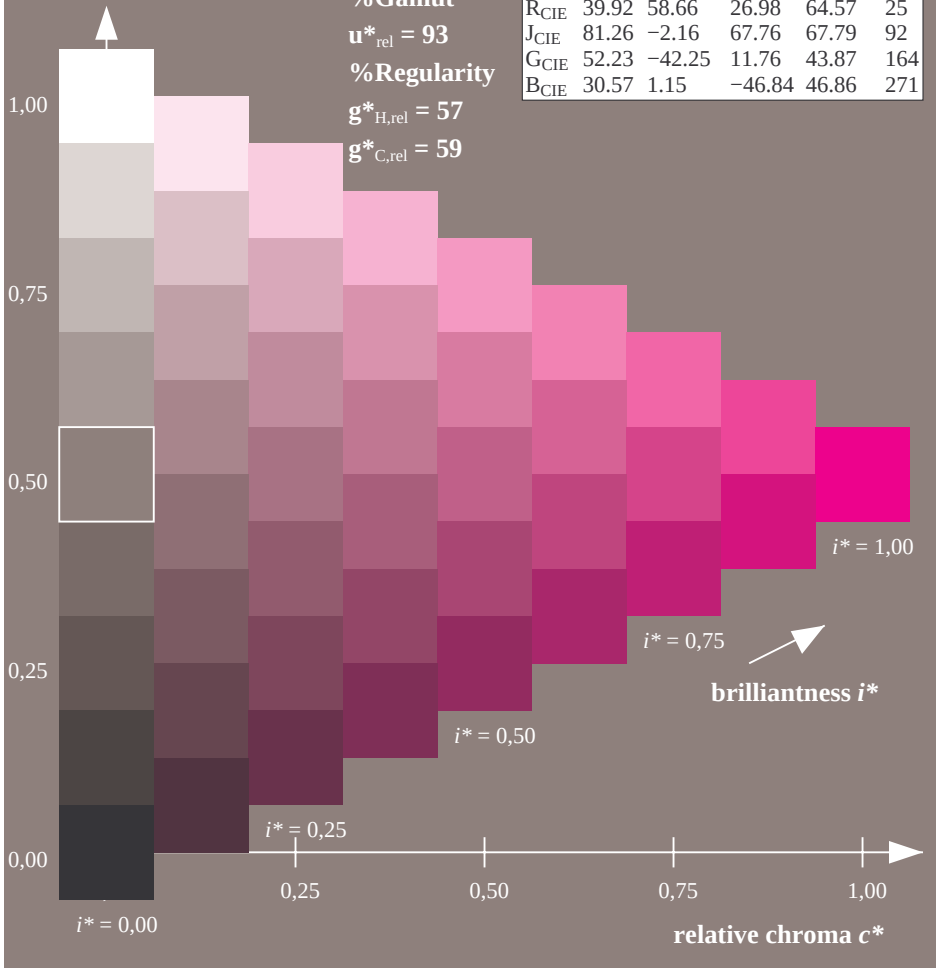
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

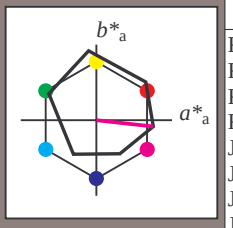
for hue $h^* = lab^*h = 354/360 = 0.982$

lab*tch* and *lab*nch

D65: hue M

LCH*Ma: 48 76 354

olv*Ma: 1.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

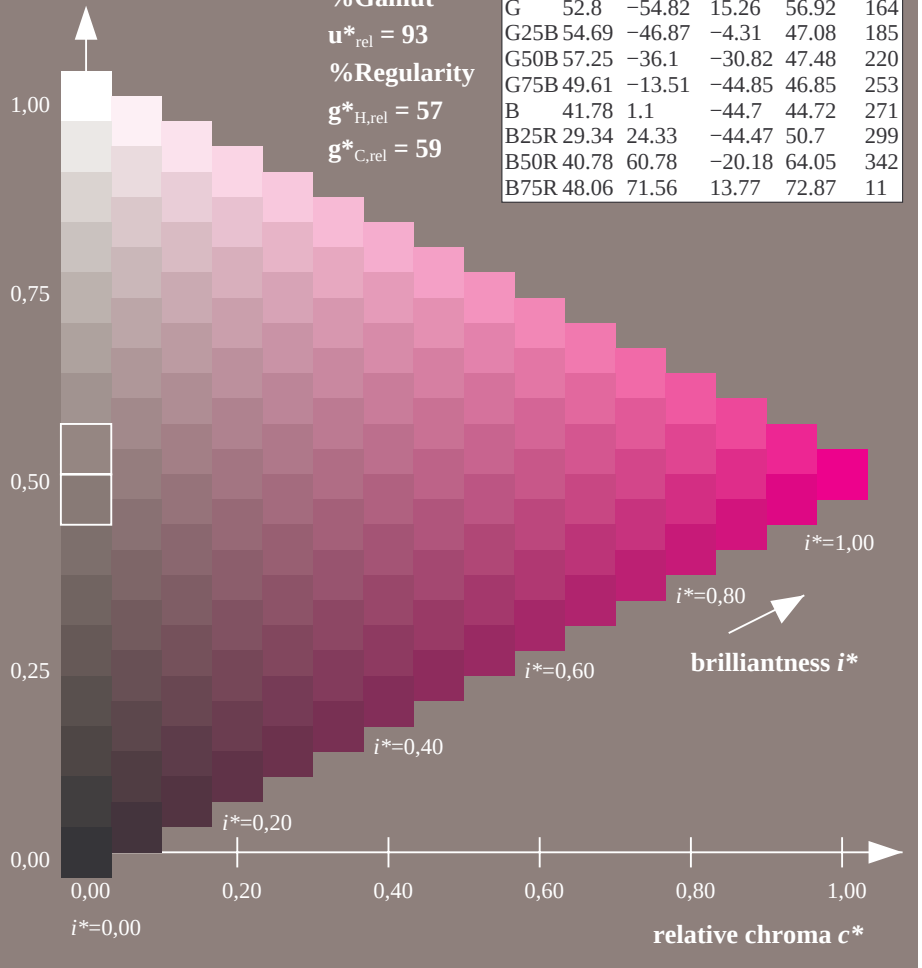
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 354/360 = 0.982 (left) Page 16/60 ZE620−7N, 16 step scales for constant CIELAB hue 354/360 = 0.982 (right)

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

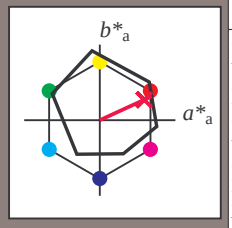
for hue $h^* = lab^*h = 25/360 = 0.069$

lab*tch* and *lab*nch

D65: hue R

LCH*Ma: 48 75 25

olv*Ma: 1.0 0.0 0.32

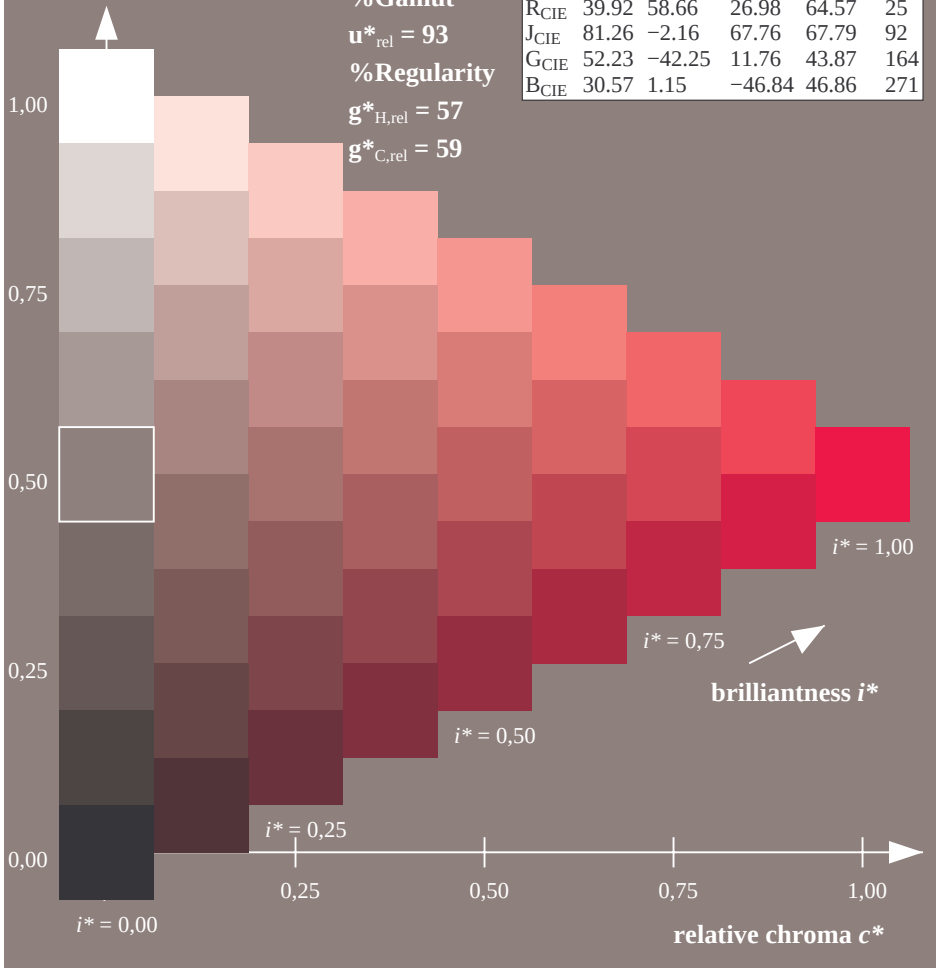


ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

%Gamut
u^*_{rel} = 93
%Regularity
$g^*_{H,rel}$ = 57
$g^*_{C,rel}$ = 59



Output: Colorimetric Offset Reflective System ORS18

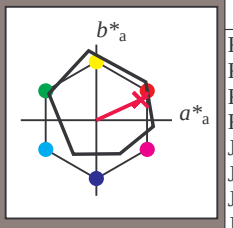
for hue $h^* = lab^*h = 25/360 = 0.069$

lab*tch* and *lab*nch

D65: hue R

LCH*Ma: 48 75 25

olv*Ma: 1.0 0.0 0.32

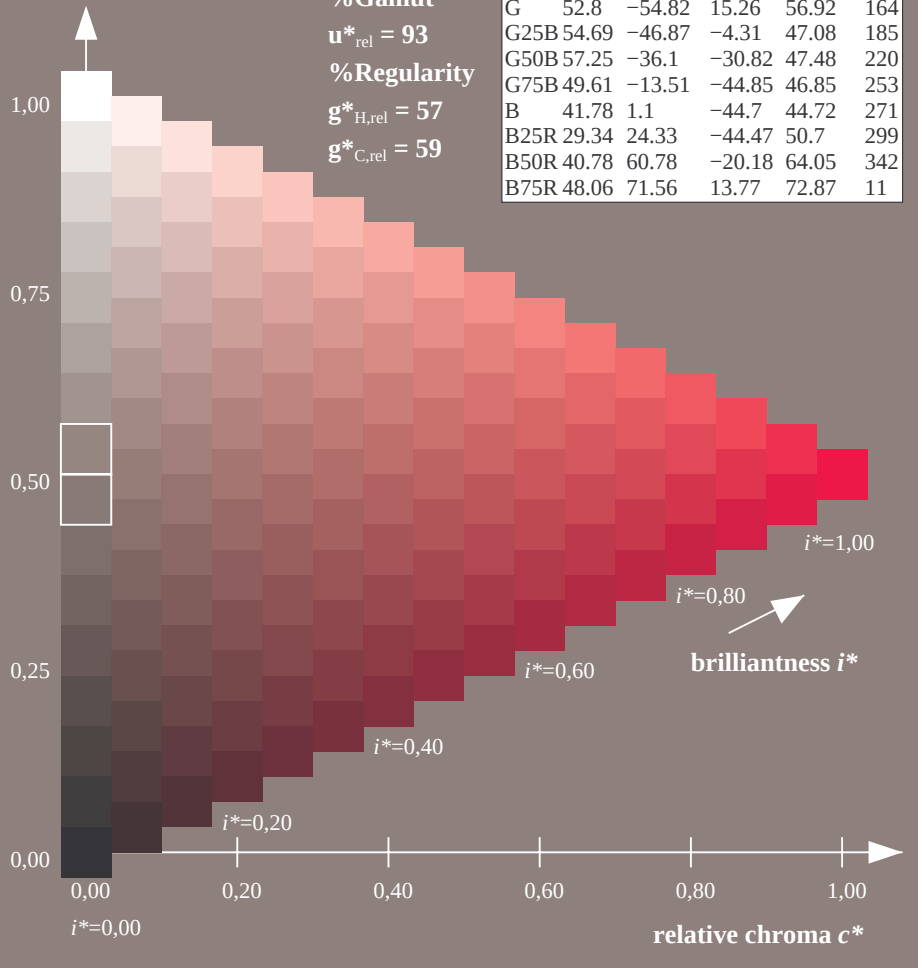


ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

%Gamut
u^*_{rel} = 93
%Regularity
$g^*_{H,rel}$ = 57
$g^*_{C,rel}$ = 59



ZE620−7N, 9 step scales for constant CIELAB hue 25/360 = 0.069 (left) Page 17/60 ZE620−7N, 16 step scales for constant CIELAB hue 25/360 = 0.069 (right)

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

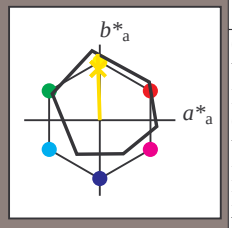
for hue $h^* = lab^*h = 92/360 = 0.255$

lab*tch* and *lab*nch

D65: hue J

LCH*Ma: 86 88 92

olv*Ma: 1.0 0.9 0.0

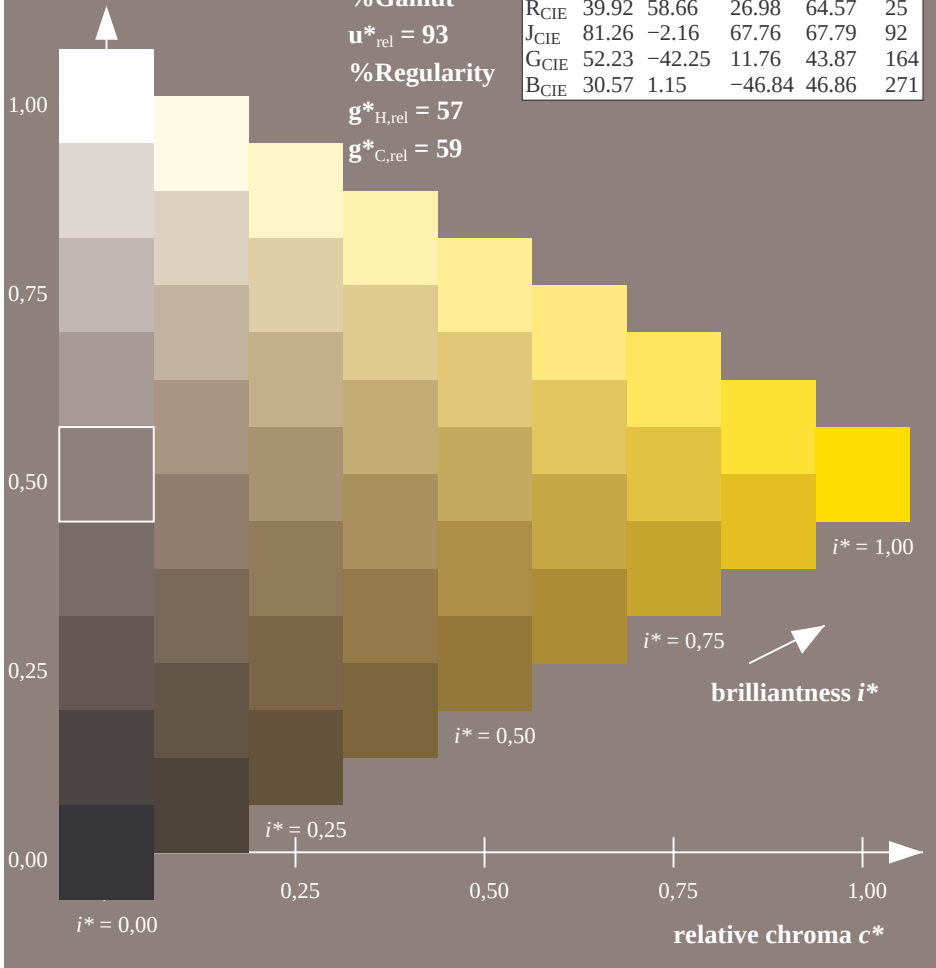


ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness t^*

%Gamut
u^*_{rel} = 93
%Regularity
$g^*_{H,rel}$ = 57
$g^*_{C,rel}$ = 59



Output: Colorimetric Offset Reflective System ORS18

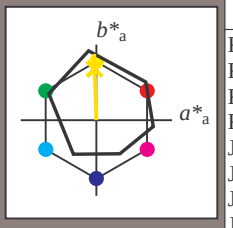
for hue $h^* = lab^*h = 92/360 = 0.255$

lab*tch* and *lab*nch

D65: hue J

LCH*Ma: 86 88 92

olv*Ma: 1.0 0.9 0.0

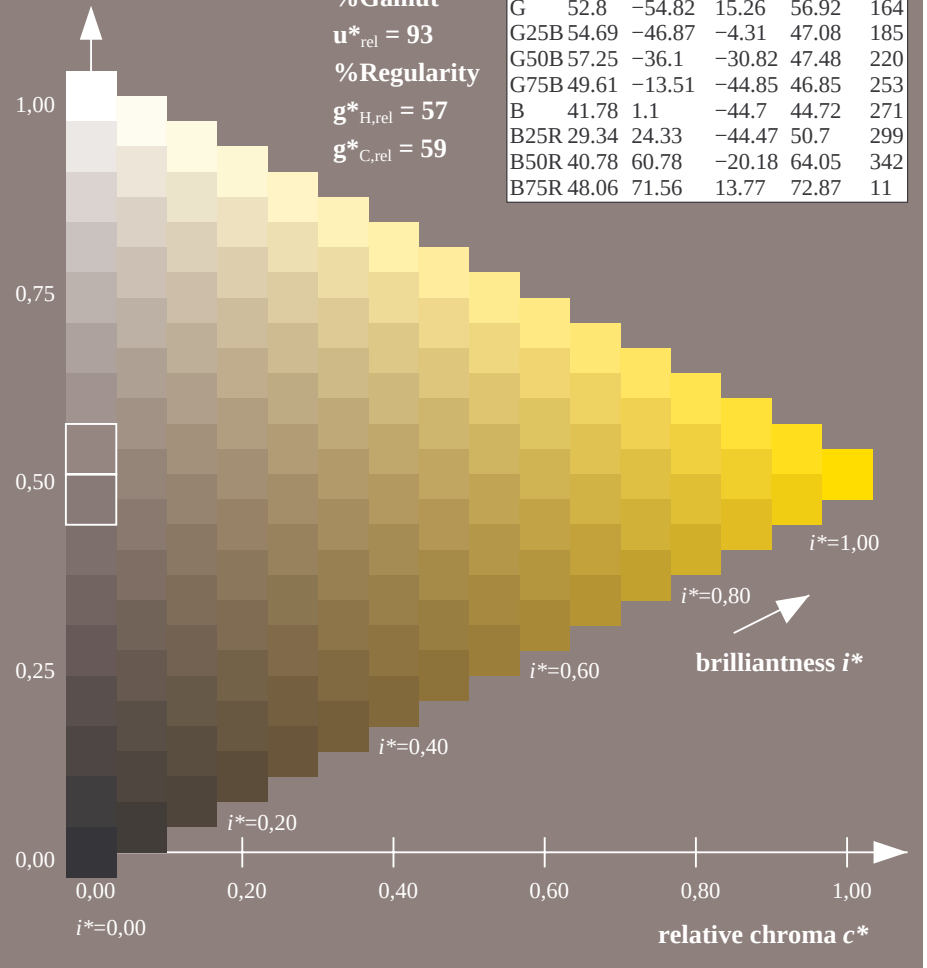


ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness t^*

%Gamut
u^*_{rel} = 93
%Regularity
$g^*_{H,rel}$ = 57
$g^*_{C,rel}$ = 59



ZE620−7N, 9 step scales for constant CIELAB hue 92/360 = 0.255 (left) Page 18/60 ZE620−7N, 16 step scales for constant CIELAB hue 92/360 = 0.255 (right)

input: *rgb / cmy0 set(rgb/cmyk)color*
output: *−>cmy0* setcmykcolor*

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

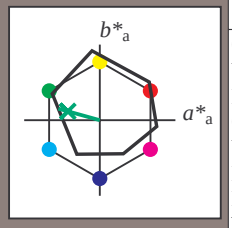
for hue $h^* = lab^*h = 164/360 = 0.457$

lab*tch* and *lab*nch

D65: hue G

LCH*Ma: 53 57 164

olv*Ma: 0.0 1.0 0.25



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

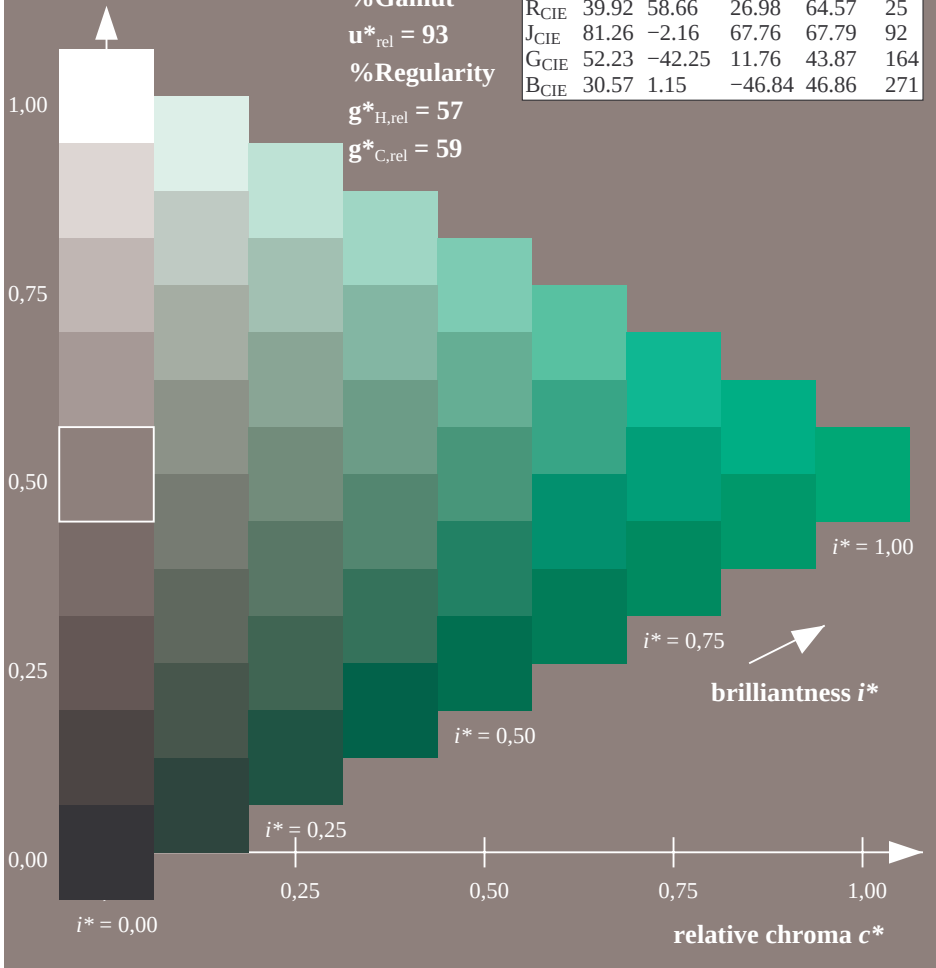
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

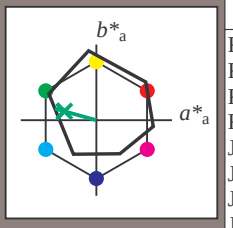
for hue $h^* = lab^*h = 164/360 = 0.457$

lab*tch* and *lab*nch

D65: hue G

LCH*Ma: 53 57 164

olv*Ma: 0.0 1.0 0.25



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

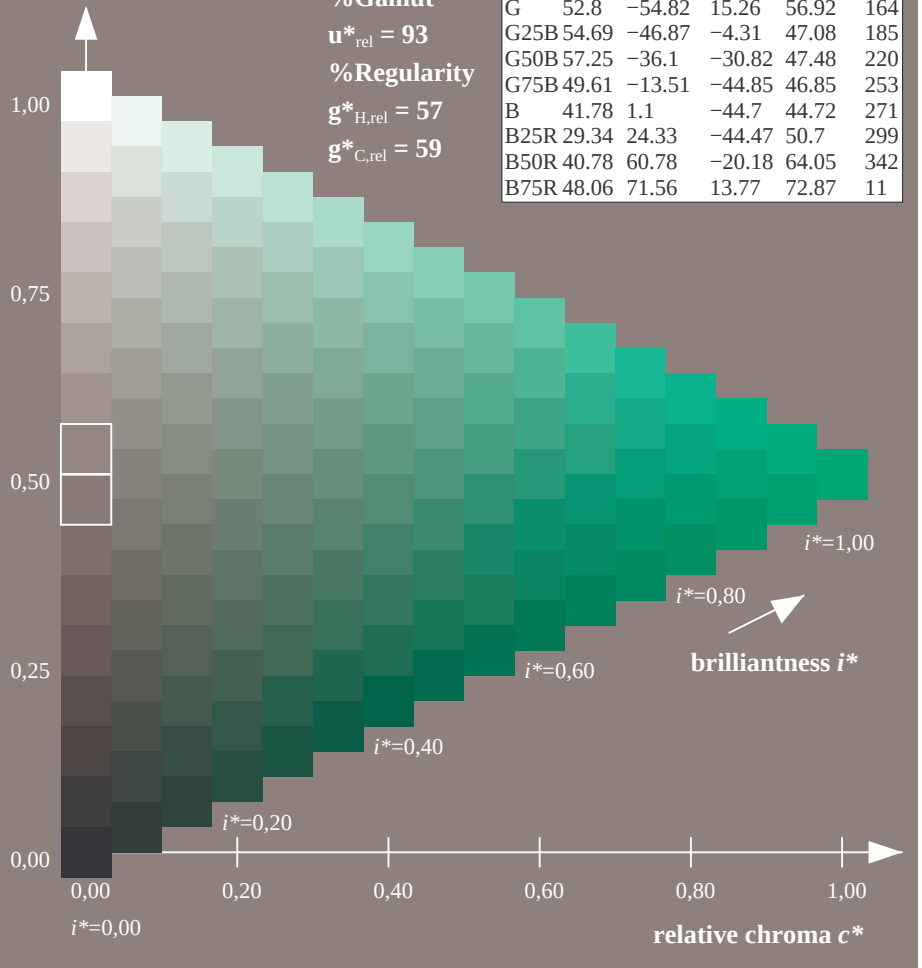
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 164/360 = 0.457 (left) Page 19/60 ZE620−7N, 16 step scales for constant CIELAB hue 164/360 = 0.457 (right)

input: *rgb / cmy0 set(rgb/cmyk)color*
output: *−>cmy0* setcmykcolor*

Input: Colorimetric Offset Reflective System ORS18

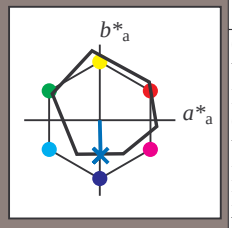
for hue *h = lab*h = 271/360 = 0.754**

lab*tch* and *lab*nch

D65: hue B

LCH*Ma: 42 45 271

olv*Ma: 0.0 0.49 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

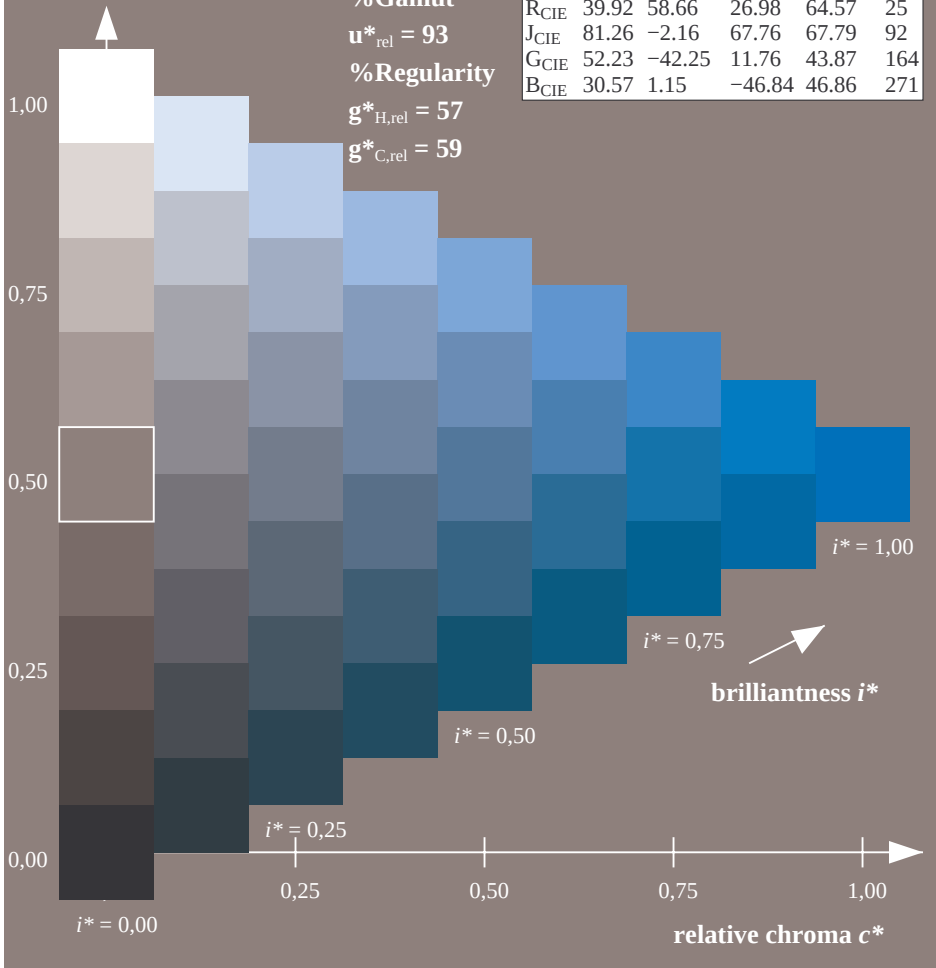
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

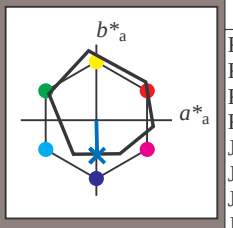
for hue *h = lab*h = 271/360 = 0.754**

lab*tch* and *lab*nch

D65: hue B

LCH*Ma: 42 45 271

olv*Ma: 0.0 0.49 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

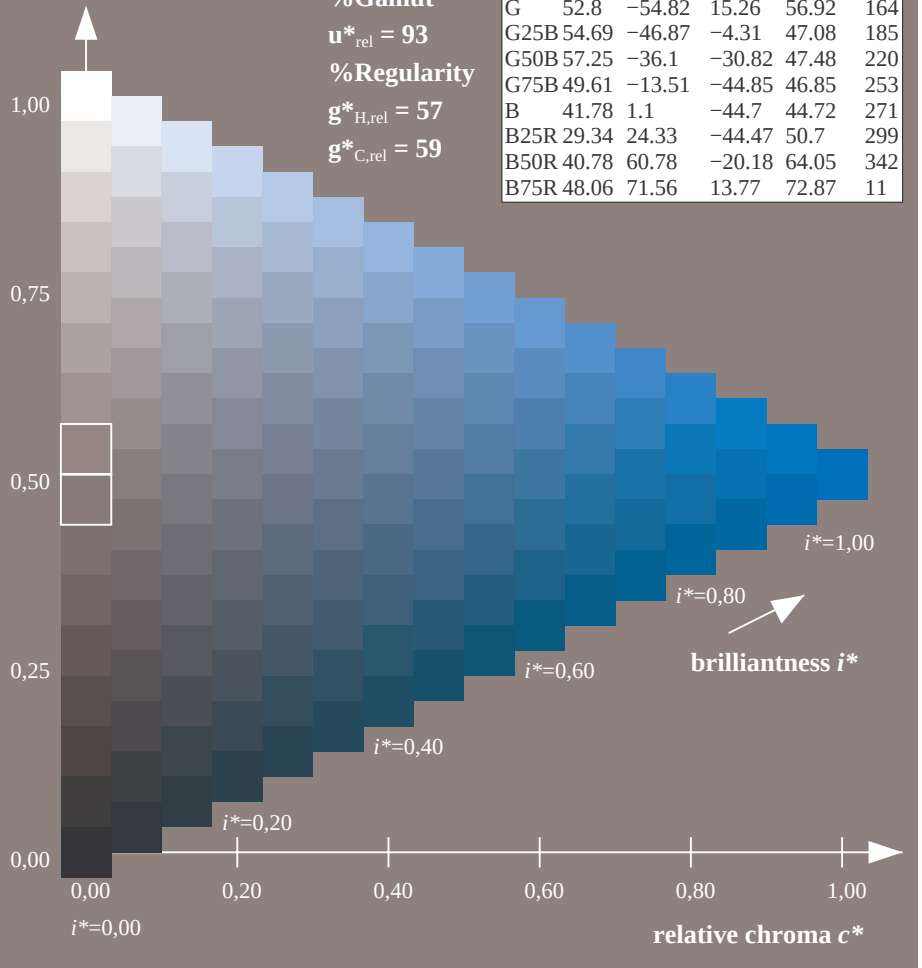
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 271/360 = 0.754 (left) Page 20/60 ZE620−7N, 16 step scales for constant CIELAB hue 271/360 = 0.754 (right)

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

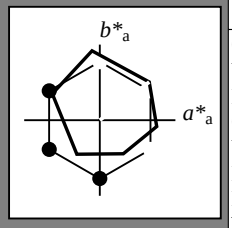
for hue *h* = lab*h = 38/360 = 0.105*

lab*tch* and *lab*nch

D65: hue O

LCH*Ma: 48 83 38

olv*Ma: 1.0 0.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

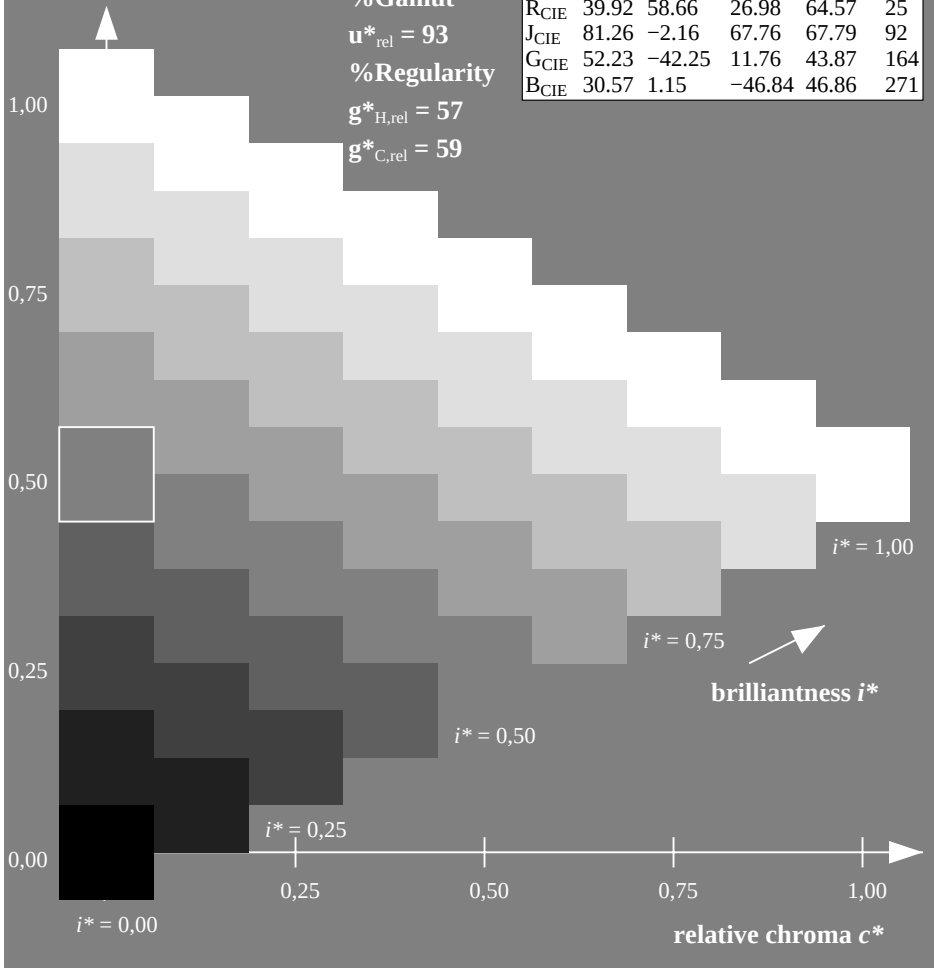
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

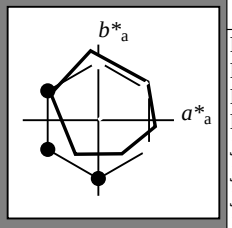
for hue *h* = lab*h = 38/360 = 0.105*

lab*tch* and *lab*nch

D65: hue O

LCH*Ma: 48 83 38

olv*Ma: 1.0 0.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

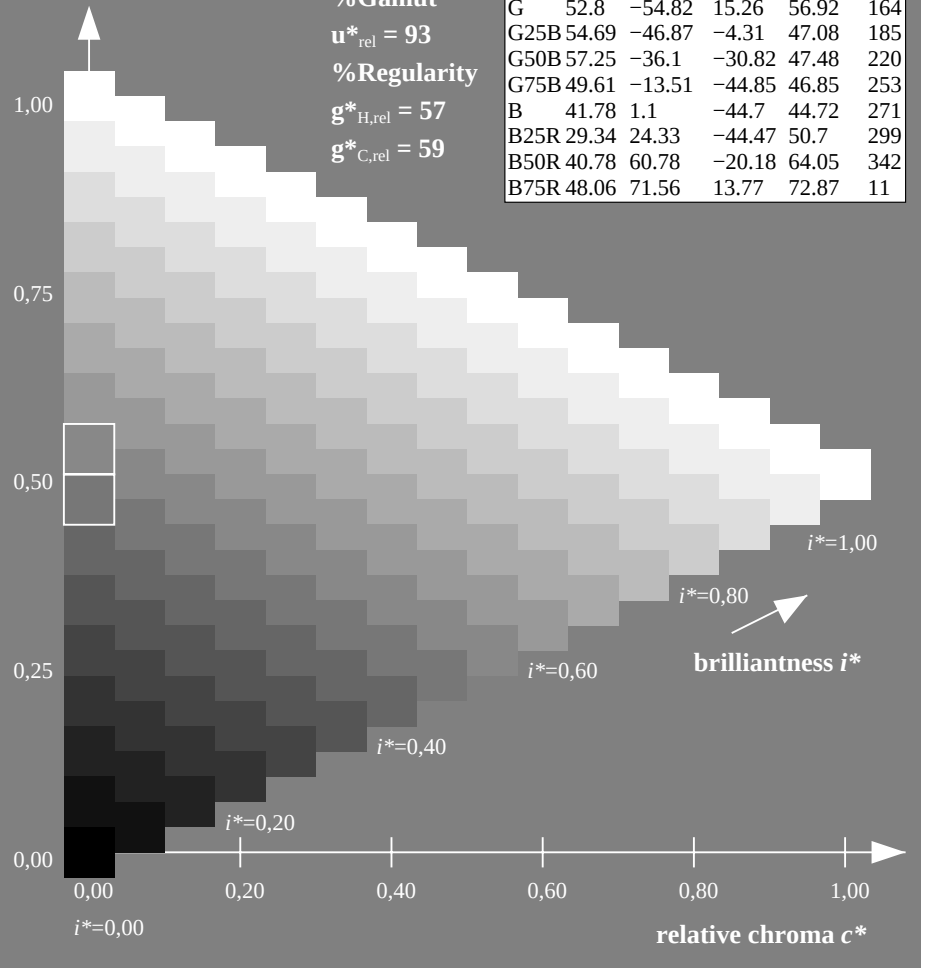
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 38/360 = 0.105 (left) Page 21/60 ZE620−7N, 16 step scales for constant CIELAB hue 38/360 = 0.105 (right) c n

BAM-test chart ZE62; Colorimetric systems, Page 21/60
D65: 9 and 16 step colour scales for 10 hues

input: *rgb / cmy0 set(rgb/cmyk)color*
output: *−>cmy0* setcmykcolor*

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

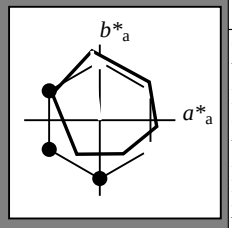
for hue *h = lab*h = 96/360 = 0.268**

lab*tch* and *lab*nch

D65: hue Y

LCH*Ma: 90 92 96

olv*Ma: 1.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

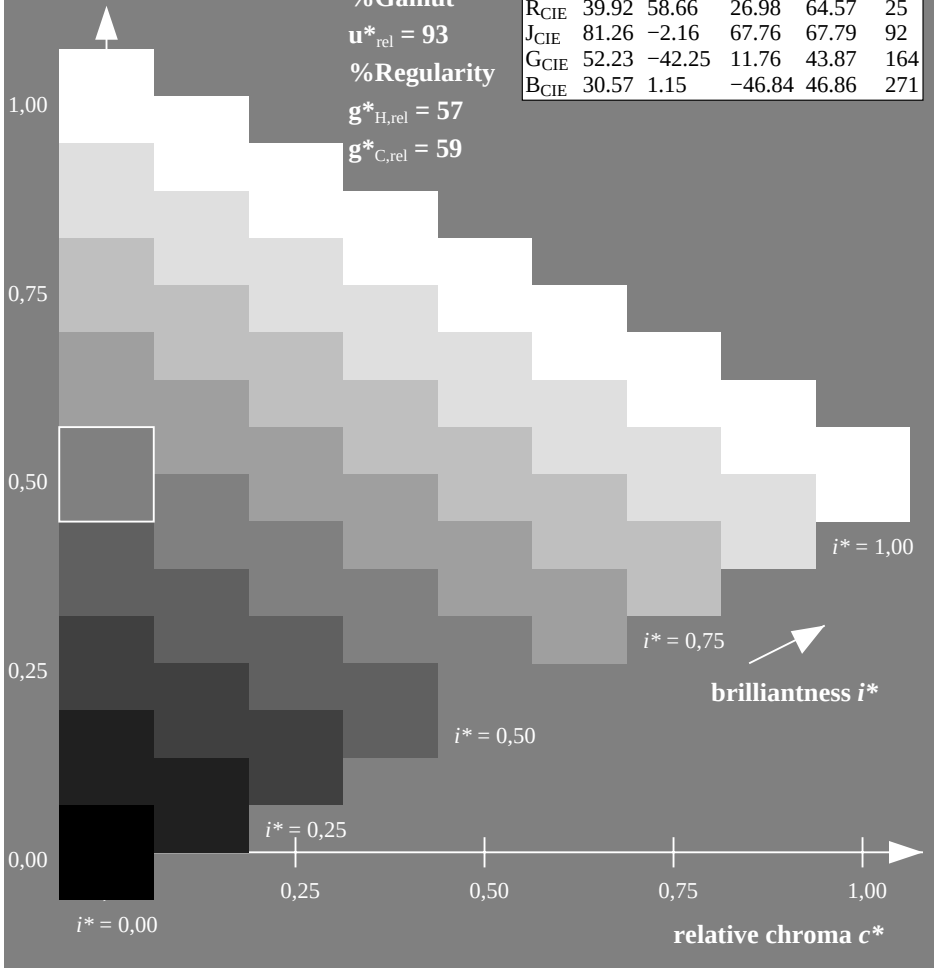
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

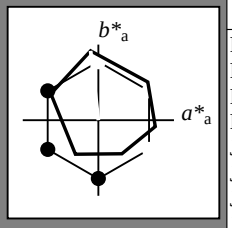
for hue *h = lab*h = 96/360 = 0.268**

lab*tch* and *lab*nch

D65: hue Y

LCH*Ma: 90 92 96

olv*Ma: 1.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

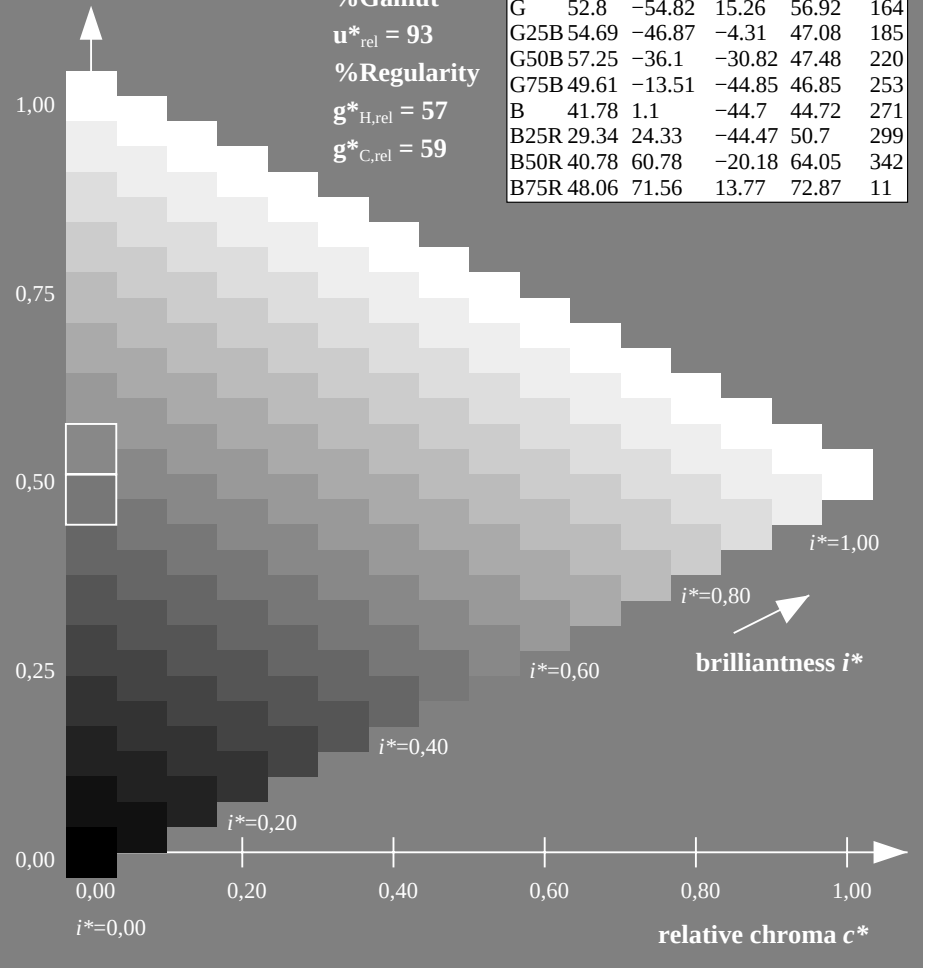
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 96/360 = 0.268 (left) Page 22/60 ZE620−7N, 16 step scales for constant CIELAB hue 96/360 = 0.268 (right)

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1
BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

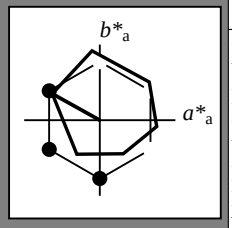
for hue *h* = lab*h = 151/360 = 0.419*

lab*tch* and *lab*nch

D65: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

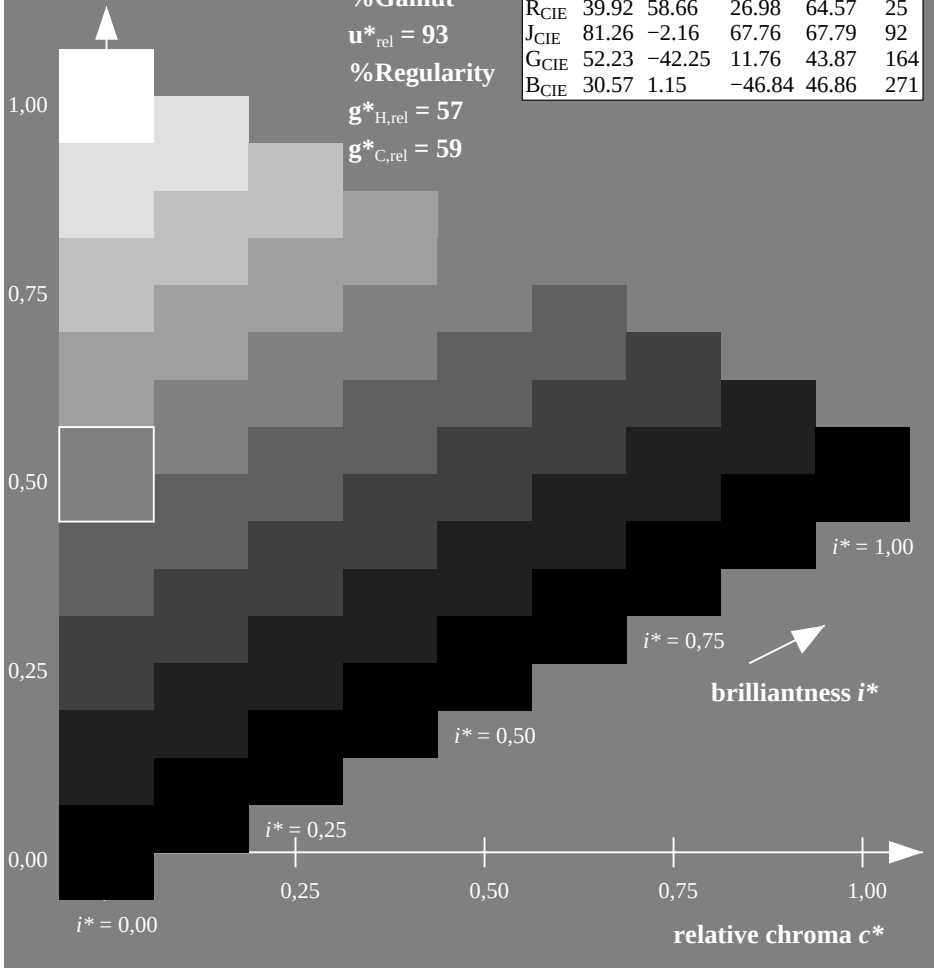
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

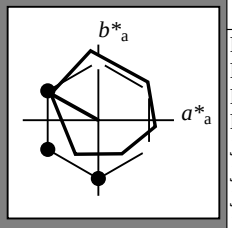
for hue *h* = lab*h = 151/360 = 0.419*

lab*tch* and *lab*nch

D65: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

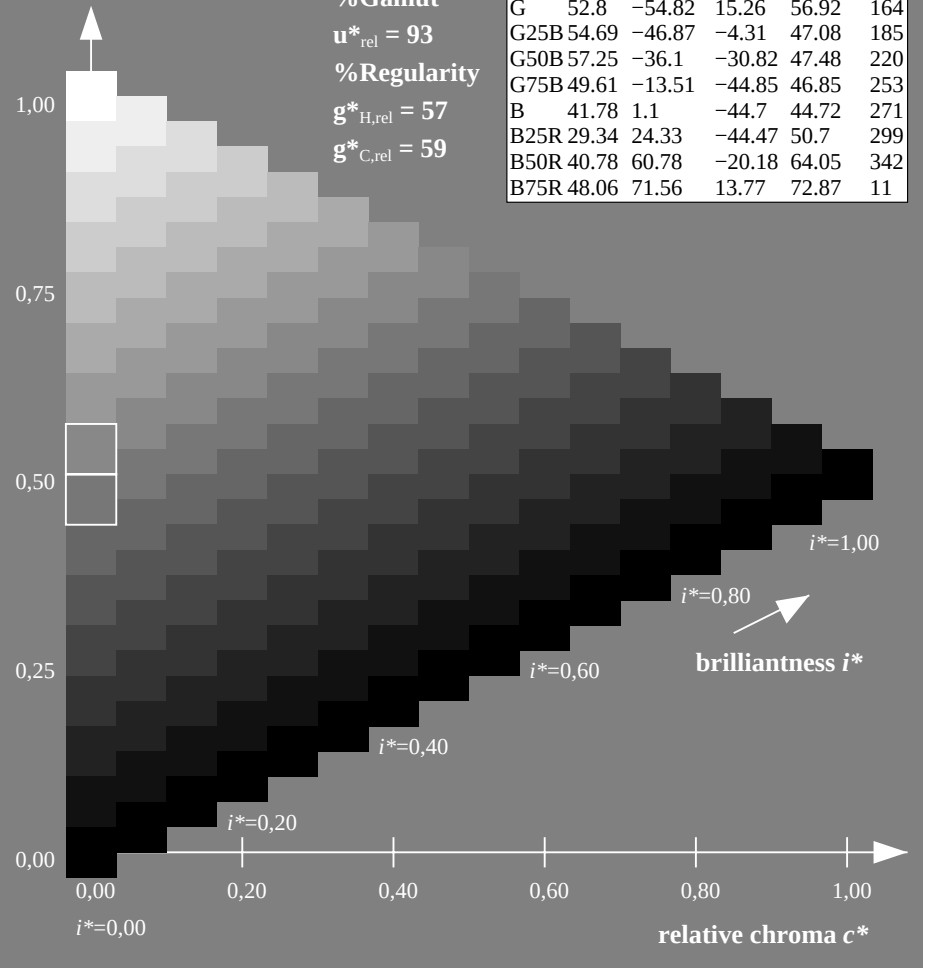
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 151/360 = 0.419 (left) Page 23/60 ZE620−7N, 16 step scales for constant CIELAB hue 151/360 = 0.419 (right) c n

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1
BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

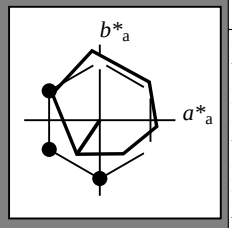
for hue *h = lab*h = 236/360 = 0.656**

lab*tch* and *lab*nch

D65: hue C

LCH*Ma: 59 54 236

olv*Ma: 0.0 1.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

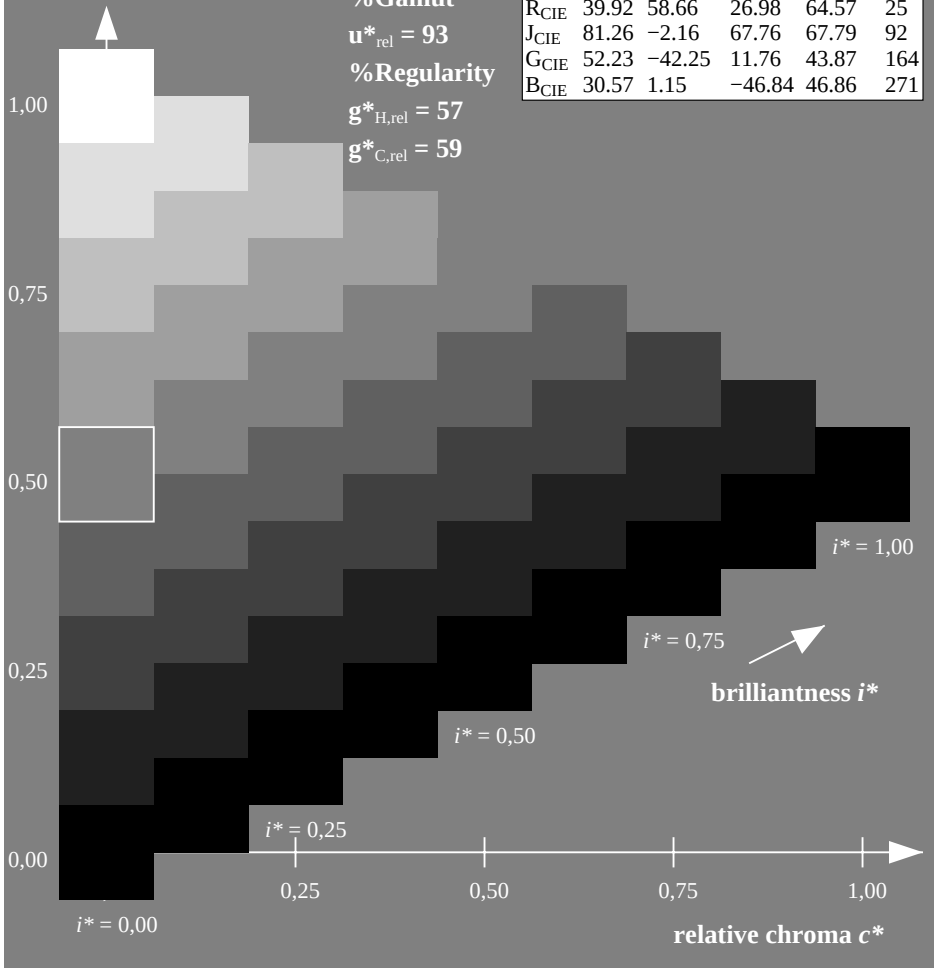
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

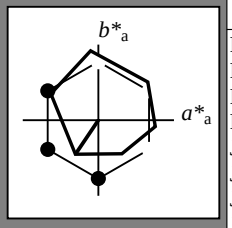
for hue *h = lab*h = 236/360 = 0.656**

lab*tch* and *lab*nch

D65: hue C

LCH*Ma: 59 54 236

olv*Ma: 0.0 1.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

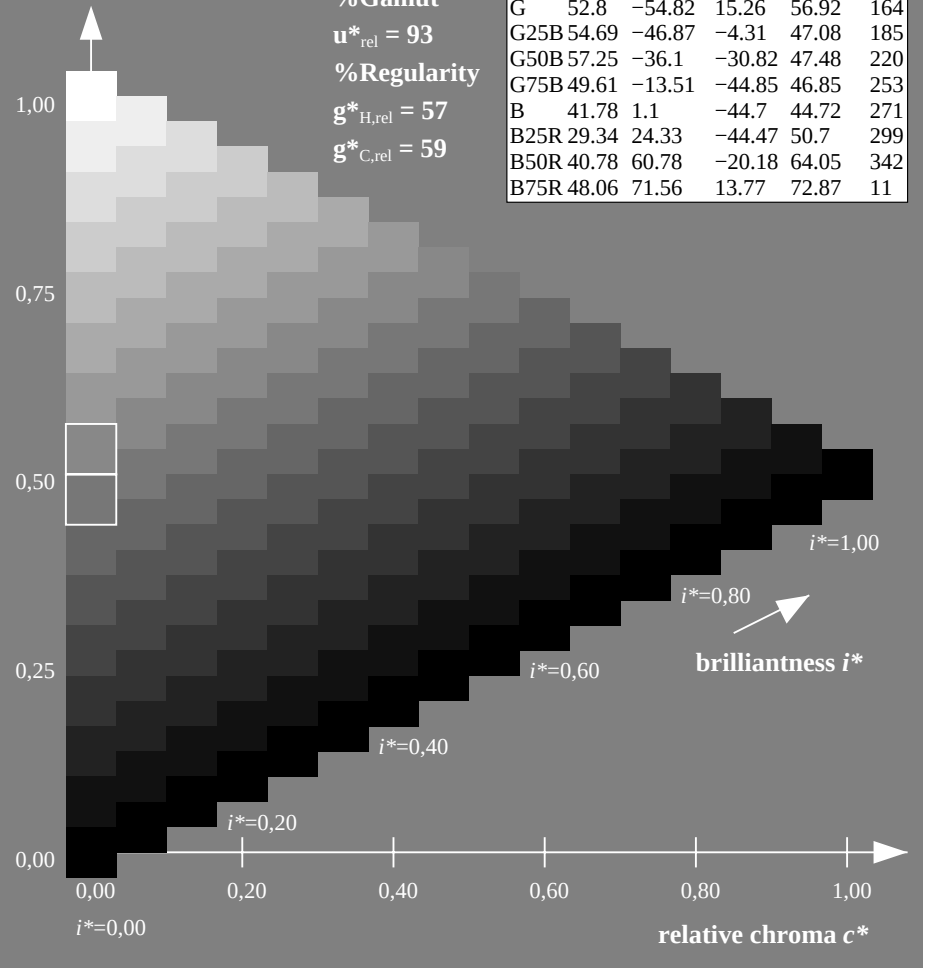
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 236/360 = 0.656 (left) Page 24/60 ZE620−7N, 16 step scales for constant CIELAB hue 236/360 = 0.656 (right)

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

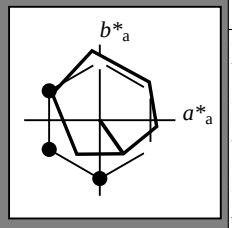
for hue *h = lab*h = 305/360 = 0.847**

lab*tch* and *lab*nch

D65: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

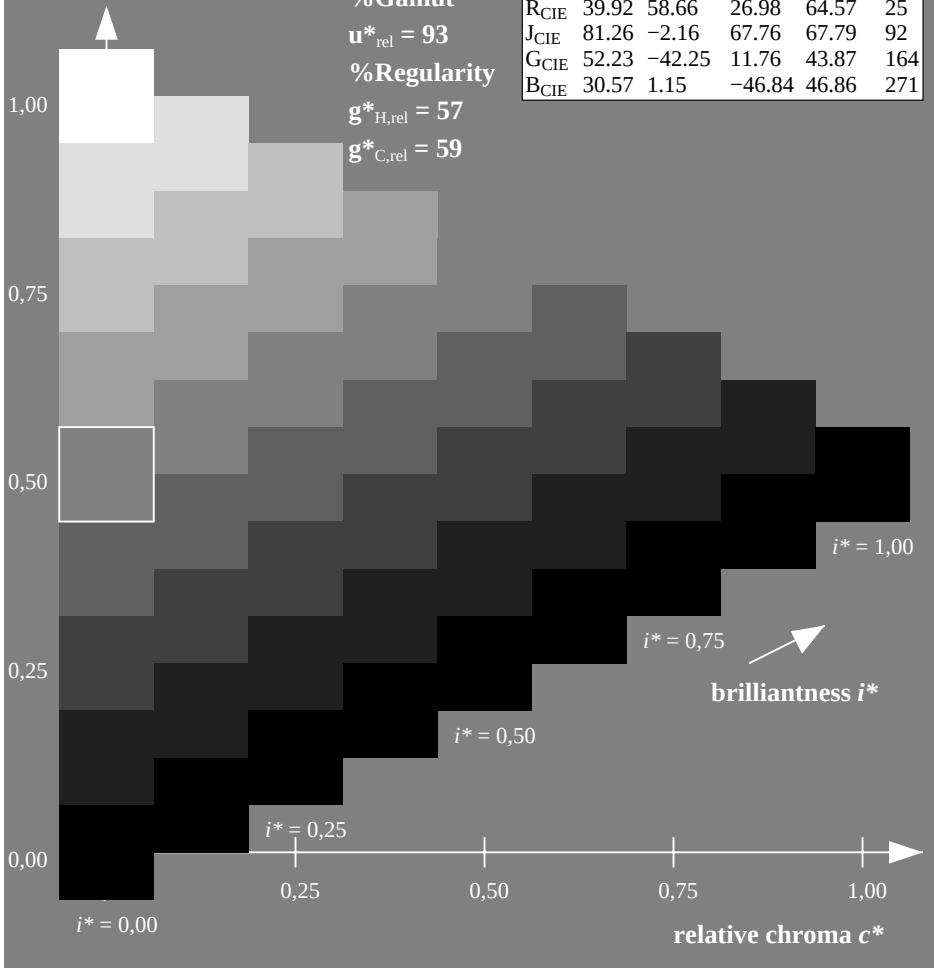
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

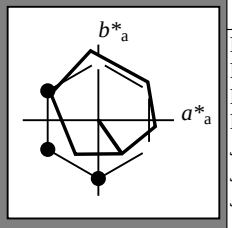
for hue *h = lab*h = 305/360 = 0.847**

lab*tch* and *lab*nch

D65: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

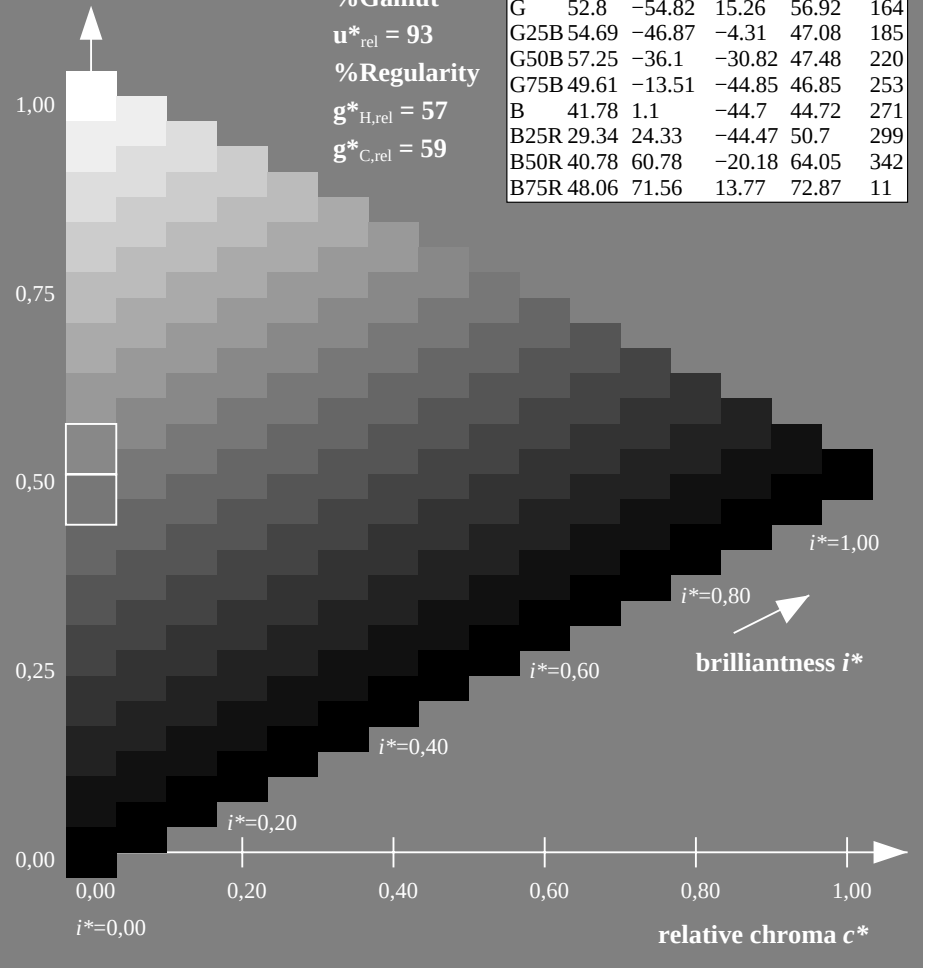
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 305/360 = 0.847 (left) Page 25/60 ZE620−7N, 16 step scales for constant CIELAB hue 305/360 = 0.847 (right)

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1
BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

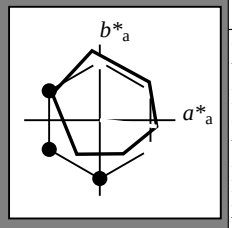
for hue *h* = lab*h = 354/360 = 0.982*

lab*tch* and *lab*nch

D65: hue M

LCH*Ma: 48 76 354

olv*Ma: 1.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

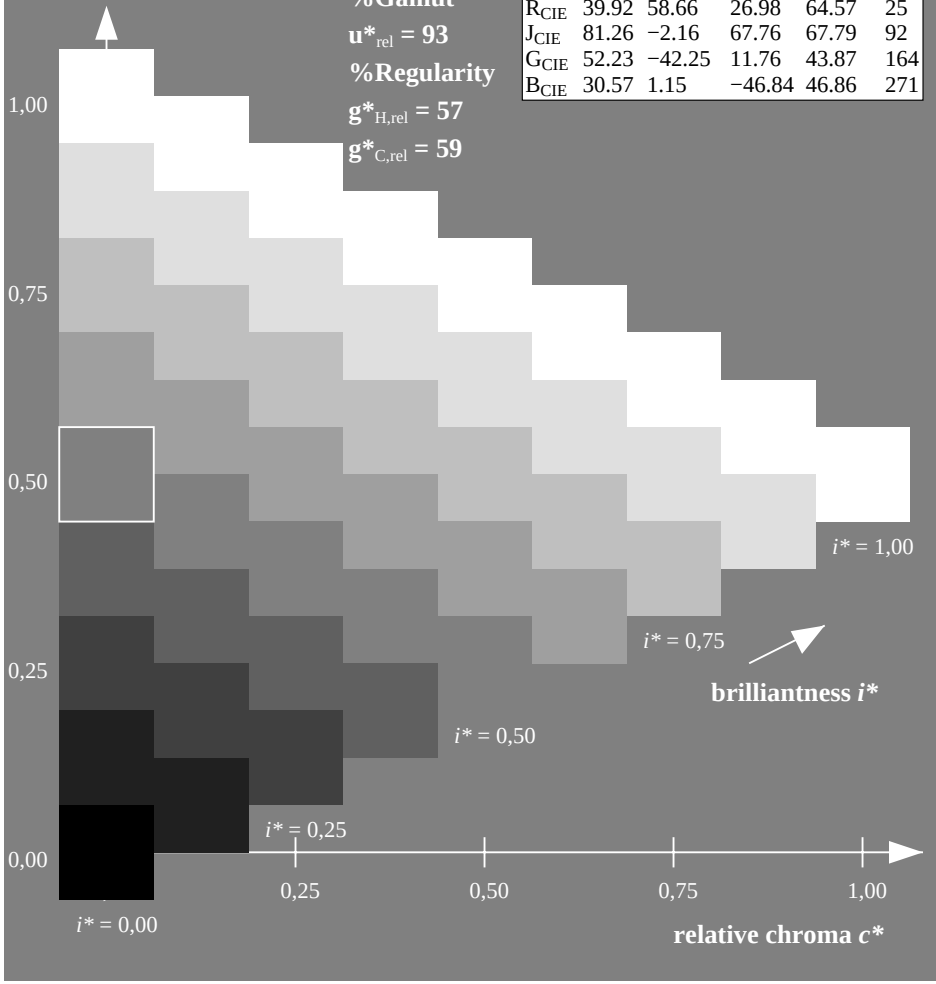
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

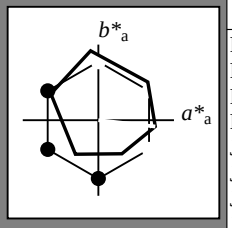
for hue *h* = lab*h = 354/360 = 0.982*

lab*tch* and *lab*nch

D65: hue M

LCH*Ma: 48 76 354

olv*Ma: 1.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

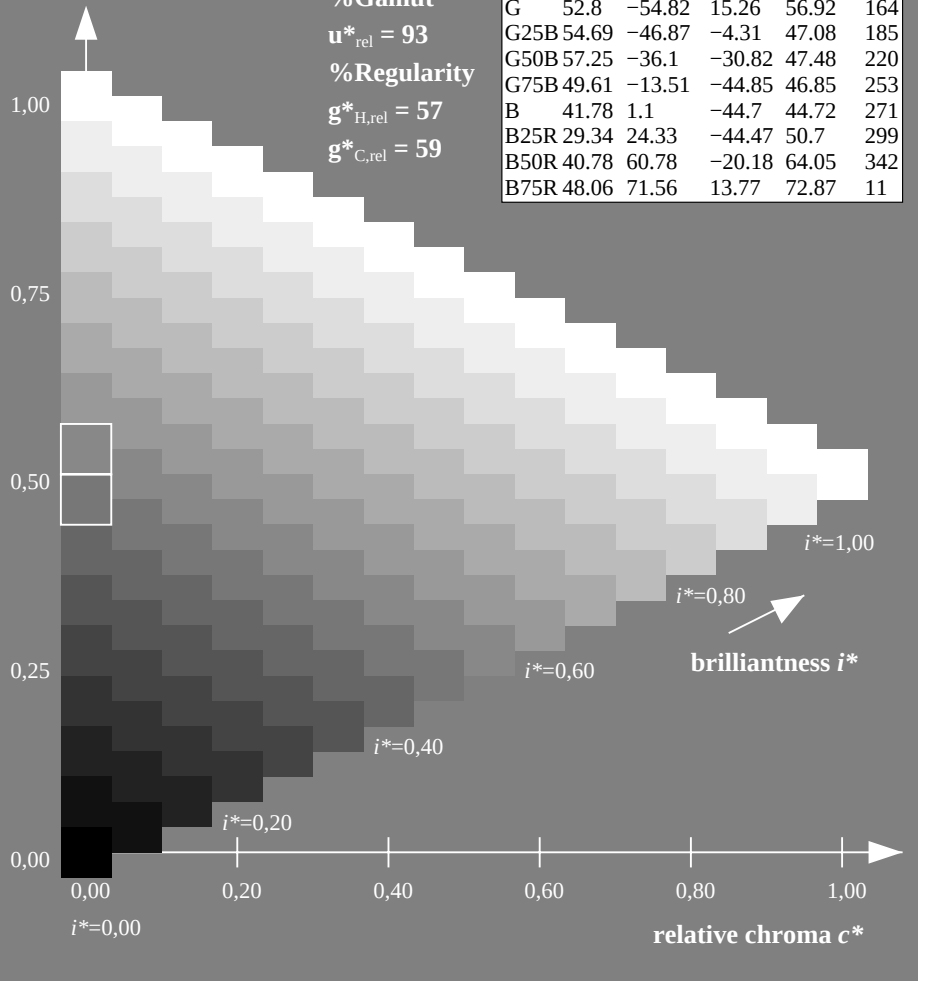
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 354/360 = 0.982 (left) Page 26/60 ZE620−7N, 16 step scales for constant CIELAB hue 354/360 = 0.982 (right)

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1
BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

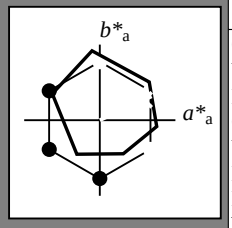
for hue *h* = lab*h = 25/360 = 0.069*

lab*tch* and *lab*nch

D65: hue R

LCH*Ma: 48 75 25

olv*Ma: 1.0 0.0 0.32



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

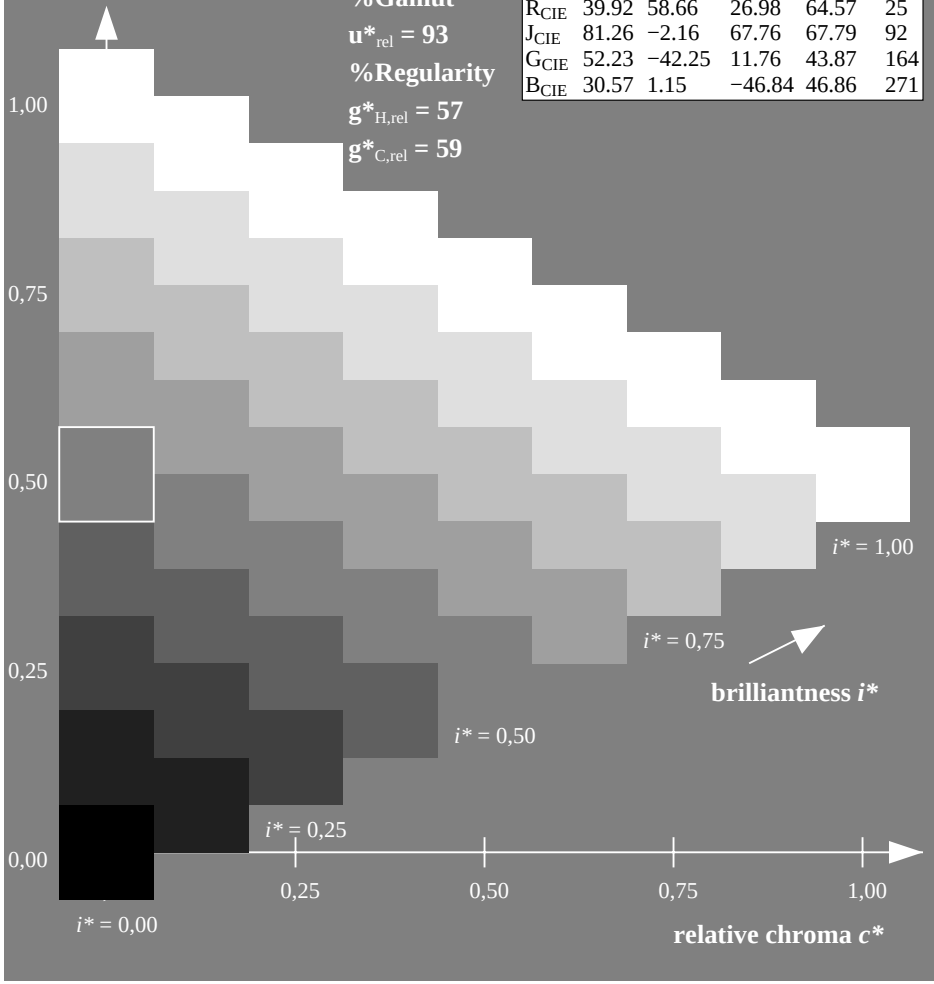
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

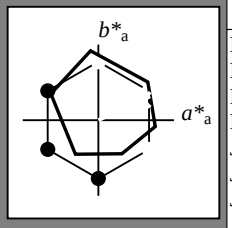
for hue *h* = lab*h = 25/360 = 0.069*

lab*tch* and *lab*nch

D65: hue R

LCH*Ma: 48 75 25

olv*Ma: 1.0 0.0 0.32



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

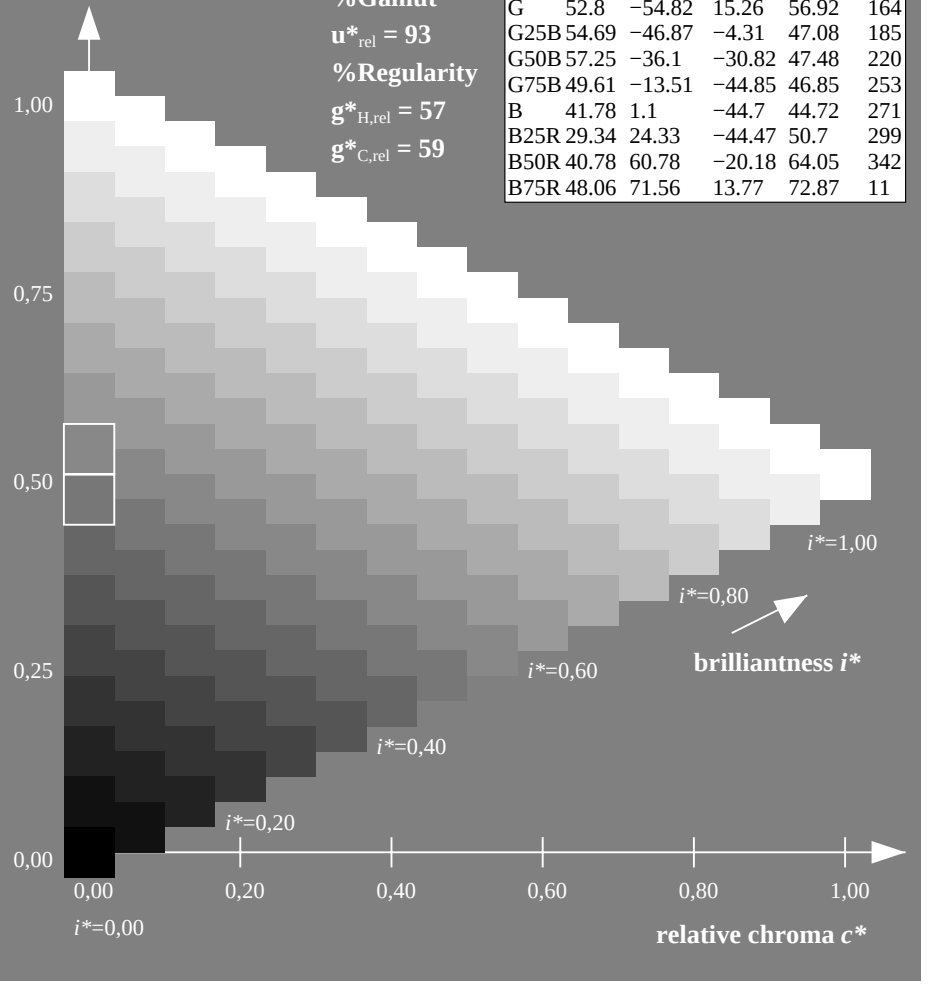
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 25/360 = 0.069 (left) Page 27/60 ZE620−7N, 16 step scales for constant CIELAB hue 25/360 = 0.069 (right)

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

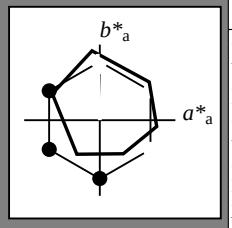
for hue *h = lab*h = 92/360 = 0.255**

lab*tch* and *lab*nch

D65: hue J

LCH*Ma: 86 88 92

olv*Ma: 1.0 0.9 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

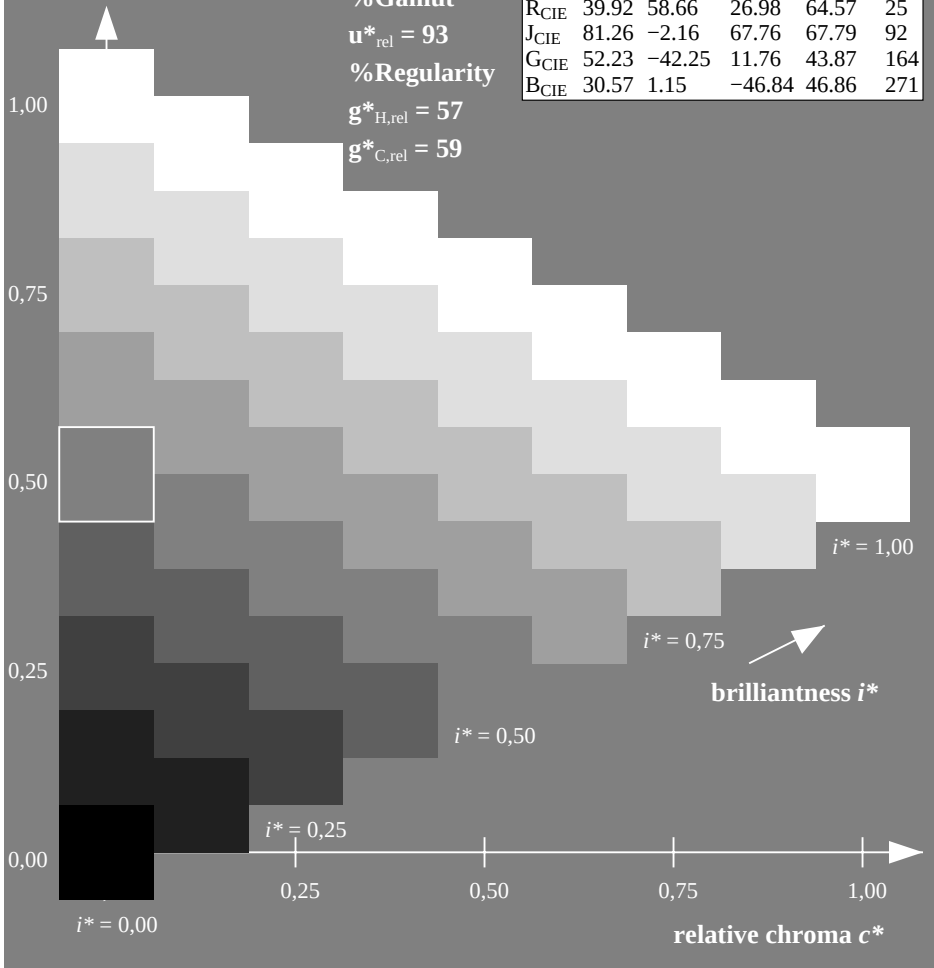
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

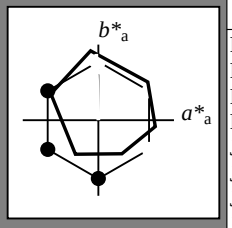
for hue *h = lab*h = 92/360 = 0.255**

lab*tch* and *lab*nch

D65: hue J

LCH*Ma: 86 88 92

olv*Ma: 1.0 0.9 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

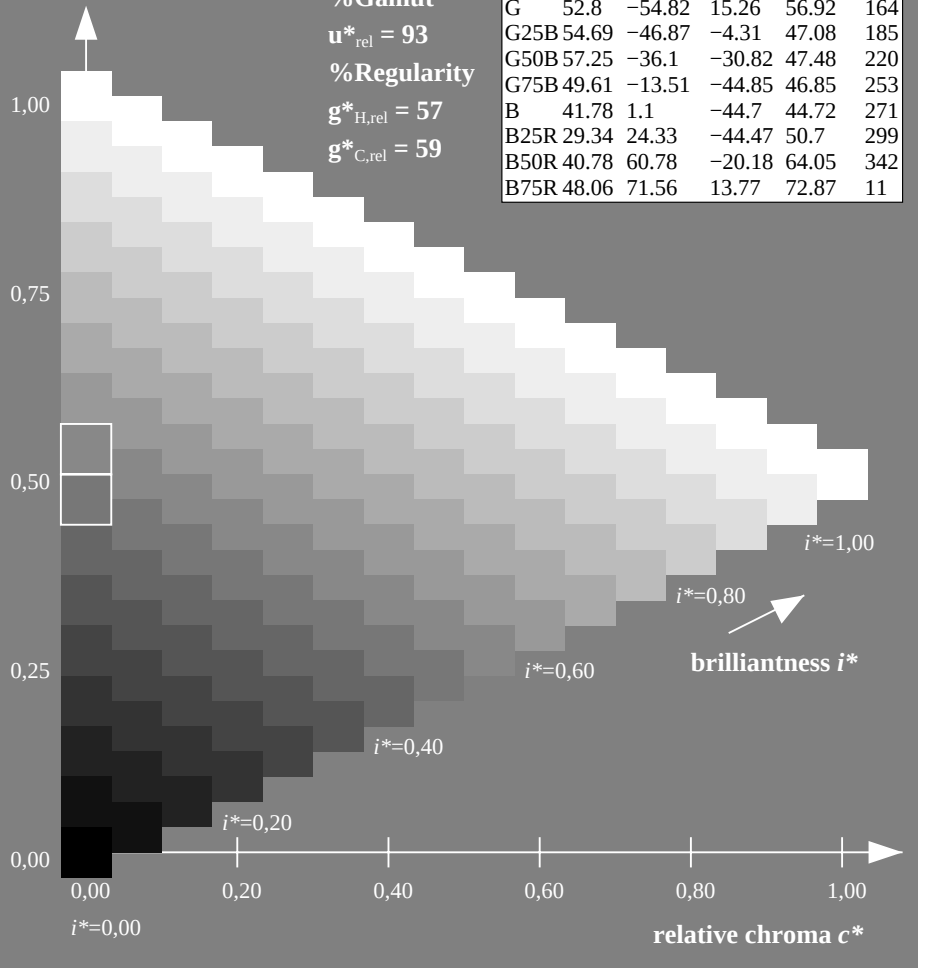
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 92/360 = 0.255 (left) Page 28/60 ZE620−7N, 16 step scales for constant CIELAB hue 92/360 = 0.255 (right)

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1
BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

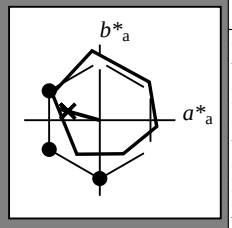
for hue *h* = lab*h = 164/360 = 0.457*

lab*tch* and *lab*nch

D65: hue G

LCH*Ma: 53 57 164

olv*Ma: 0.0 1.0 0.25



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

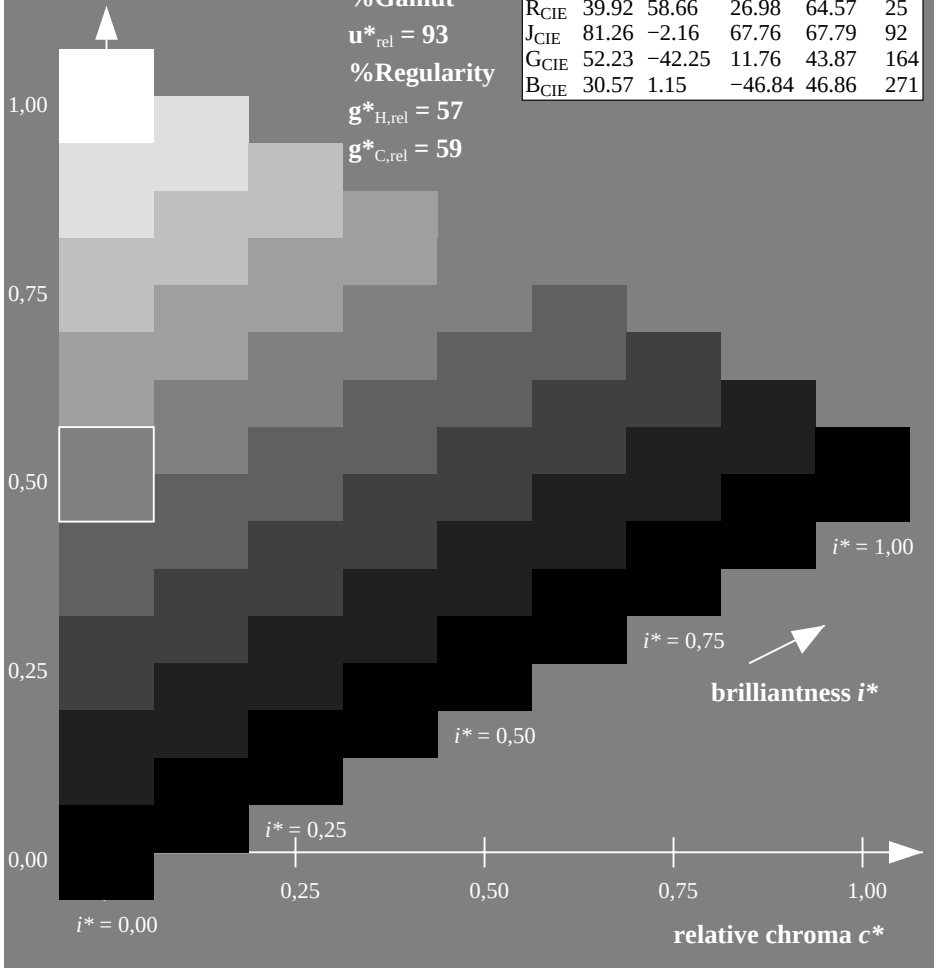
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

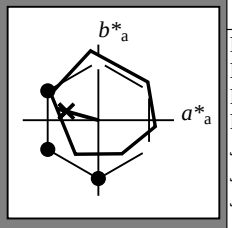
for hue *h* = lab*h = 164/360 = 0.457*

lab*tch* and *lab*nch

D65: hue G

LCH*Ma: 53 57 164

olv*Ma: 0.0 1.0 0.25



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

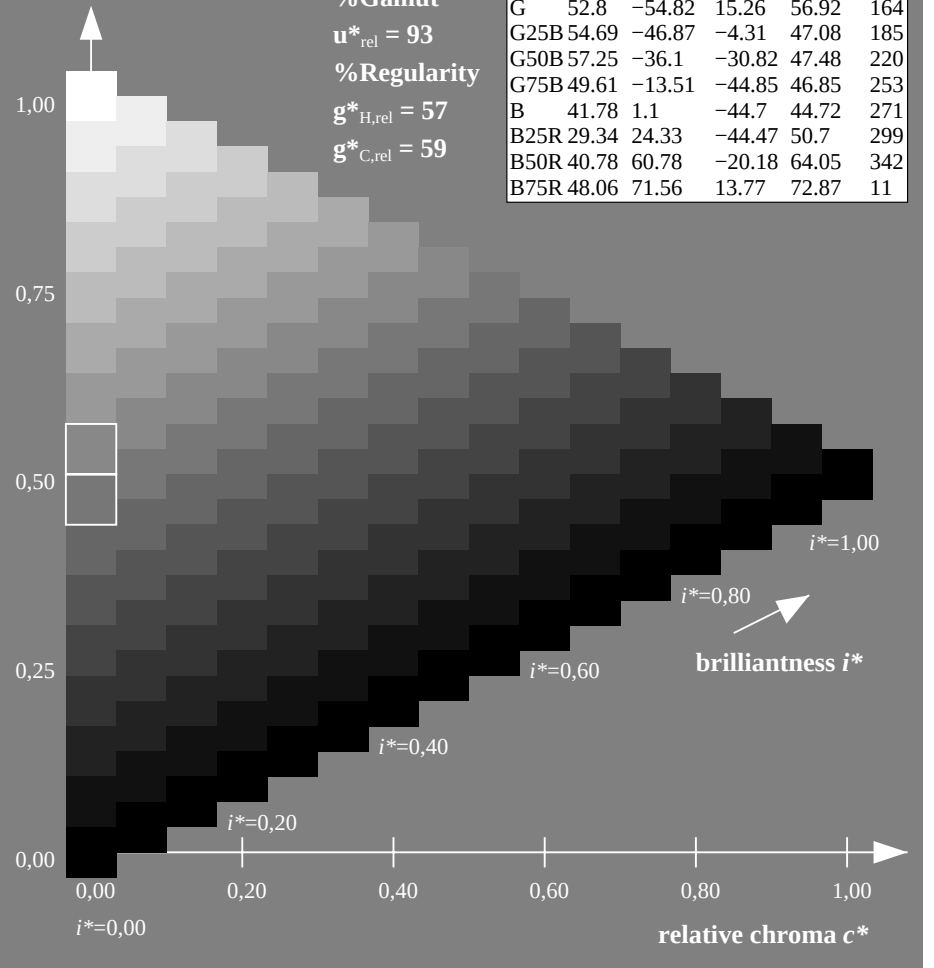
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 164/360 = 0.457 (left) Page 29/60 ZE620−7N, 16 step scales for constant CIELAB hue 164/360 = 0.457 (right) c n

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

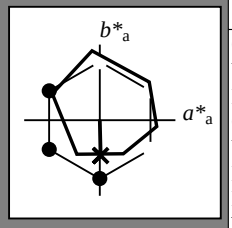
for hue *h = lab*h = 271/360 = 0.754**

lab*tch* and *lab*nch

D65: hue B

LCH*Ma: 42 45 271

olv*Ma: 0.0 0.49 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

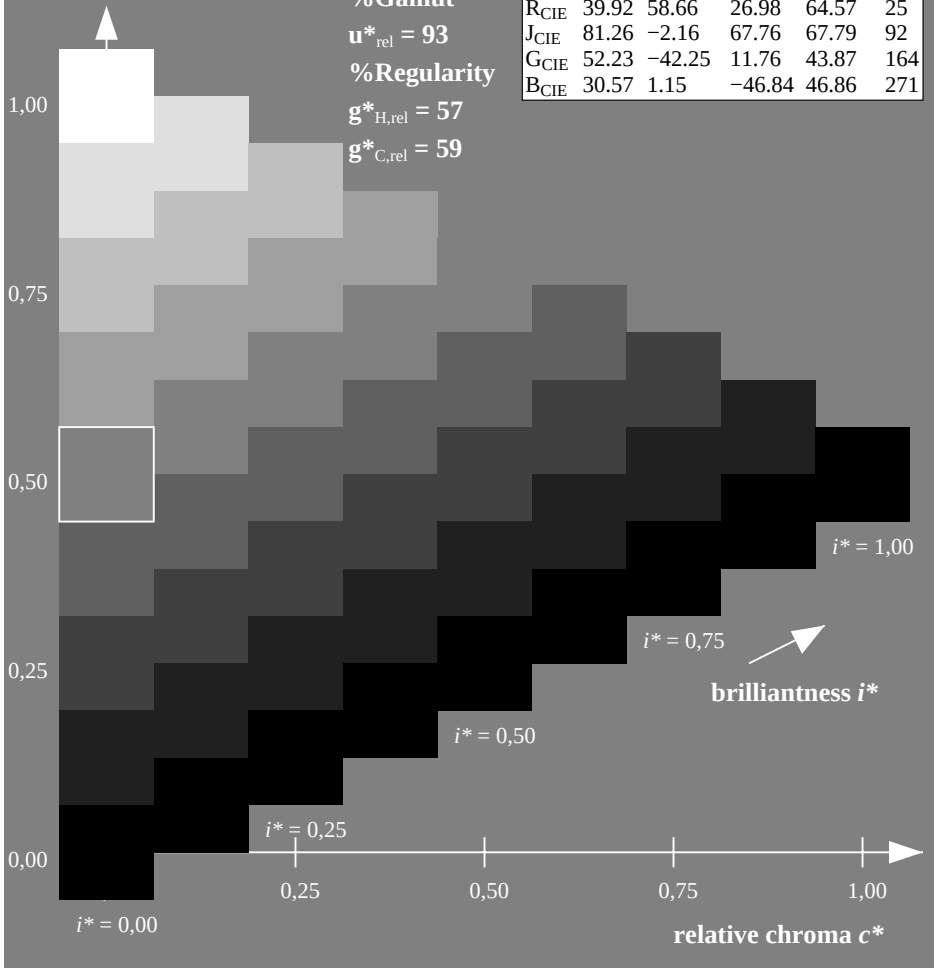
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

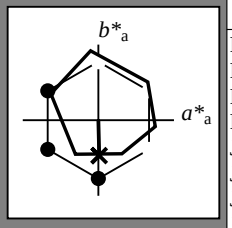
for hue *h = lab*h = 271/360 = 0.754**

lab*tch* and *lab*nch

D65: hue B

LCH*Ma: 42 45 271

olv*Ma: 0.0 0.49 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

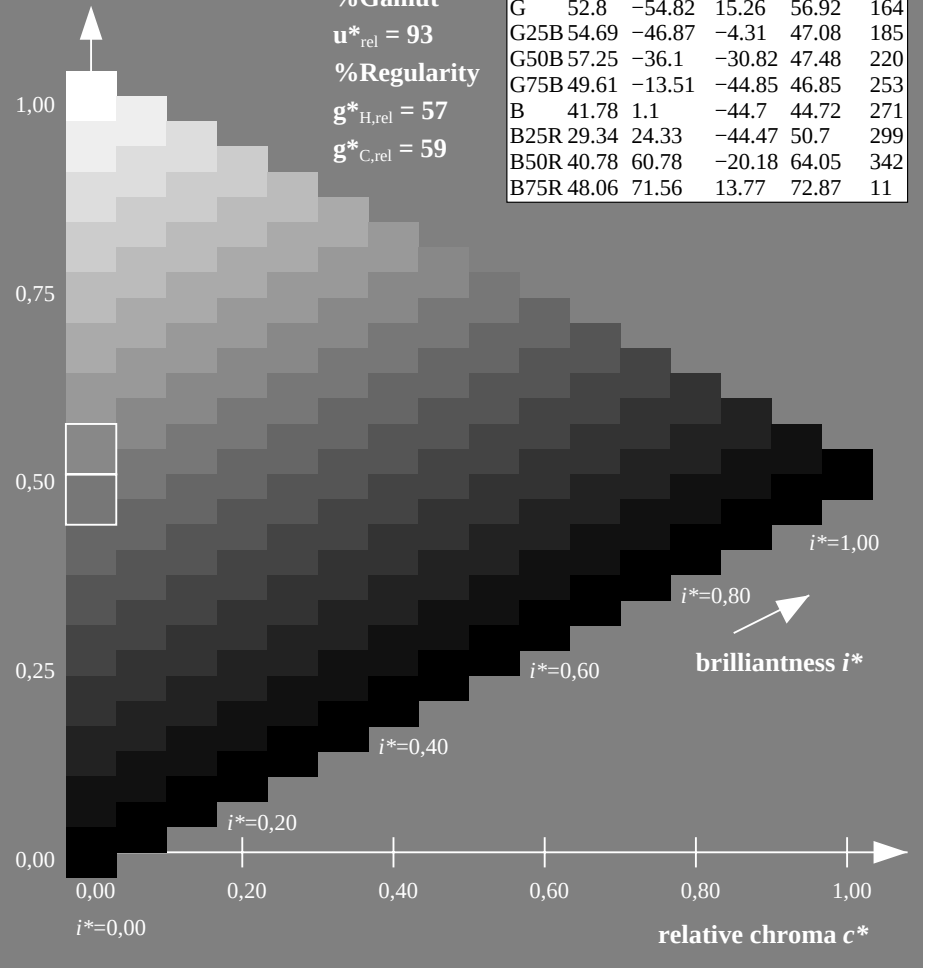
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 271/360 = 0.754 (left) Page 30/60 ZE620−7N, 16 step scales for constant CIELAB hue 271/360 = 0.754 (right)

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1
BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

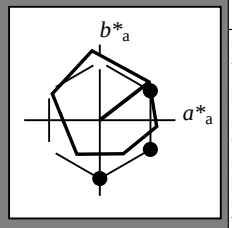
for hue *h = lab*h = 38/360 = 0.105**

lab*tch* and *lab*nch

D65: hue O

LCH*Ma: 48 83 38

olv*Ma: 1.0 0.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

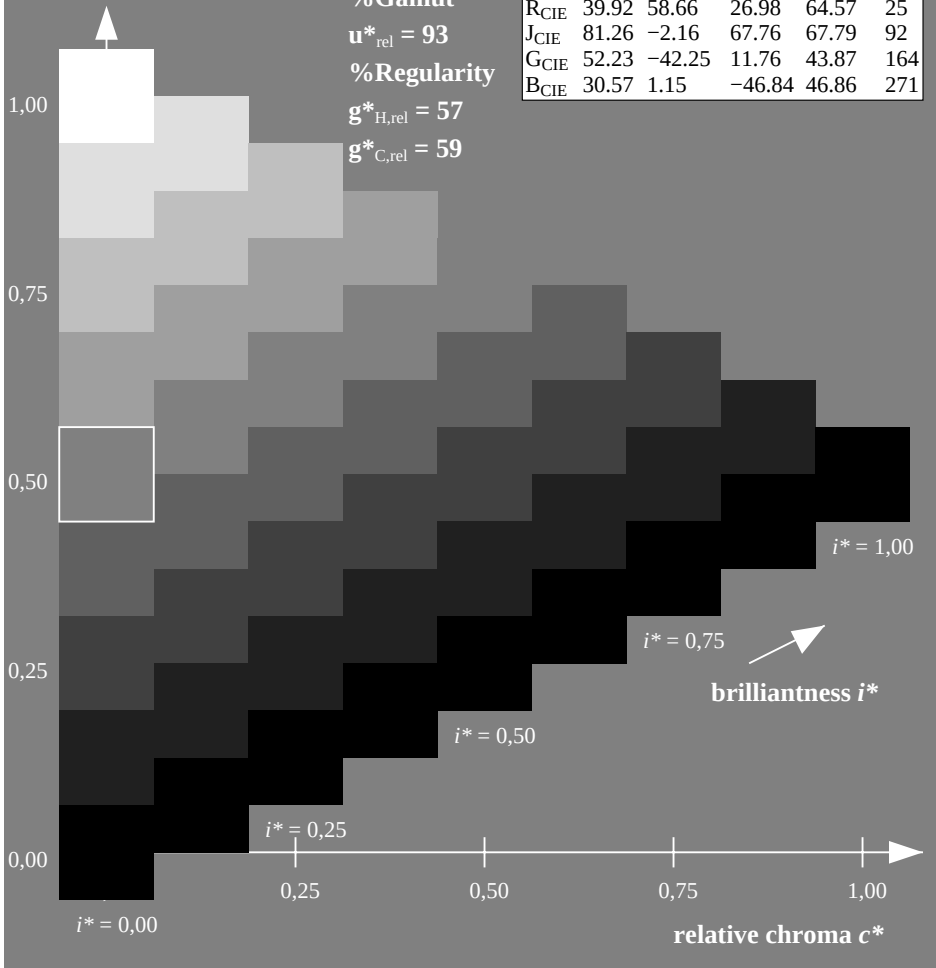
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

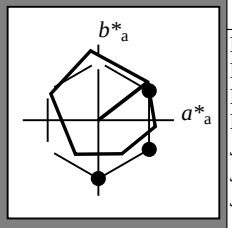
for hue *h = lab*h = 38/360 = 0.105**

lab*tch* and *lab*nch

D65: hue O

LCH*Ma: 48 83 38

olv*Ma: 1.0 0.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

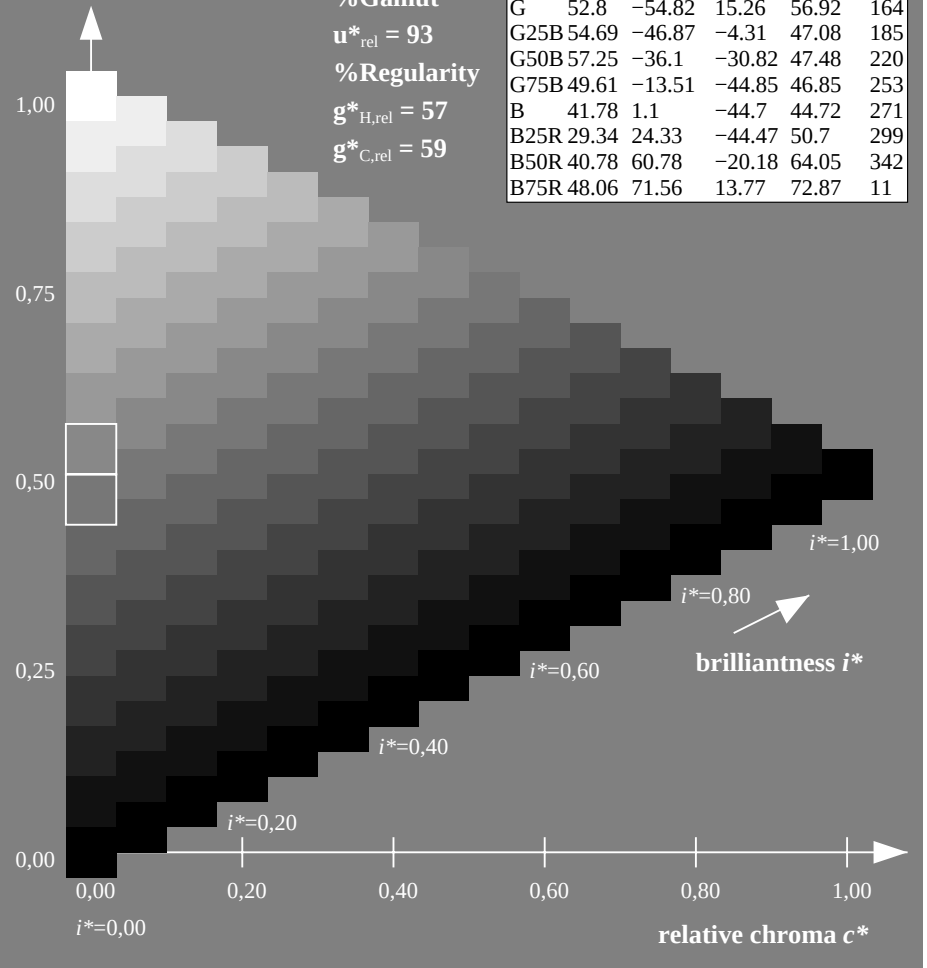
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 38/360 = 0.105 (left) Page 31/60 ZE620−7N, 16 step scales for constant CIELAB hue 38/360 = 0.105 (right) m n

BAM-test chart ZE62; Colorimetric systems, Page 31/60
D65: 9 and 16 step colour scales for 10 hues

input: *rgb / cmy0 set(rgb/cmyk)color*
output: *−>cmy0* setcmykcolor*

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

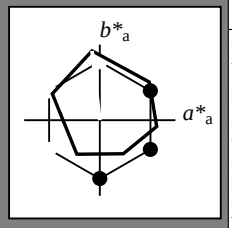
for hue *h = lab*h = 96/360 = 0.268**

lab*tch* and *lab*nch

D65: hue Y

LCH*Ma: 90 92 96

olv*Ma: 1.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

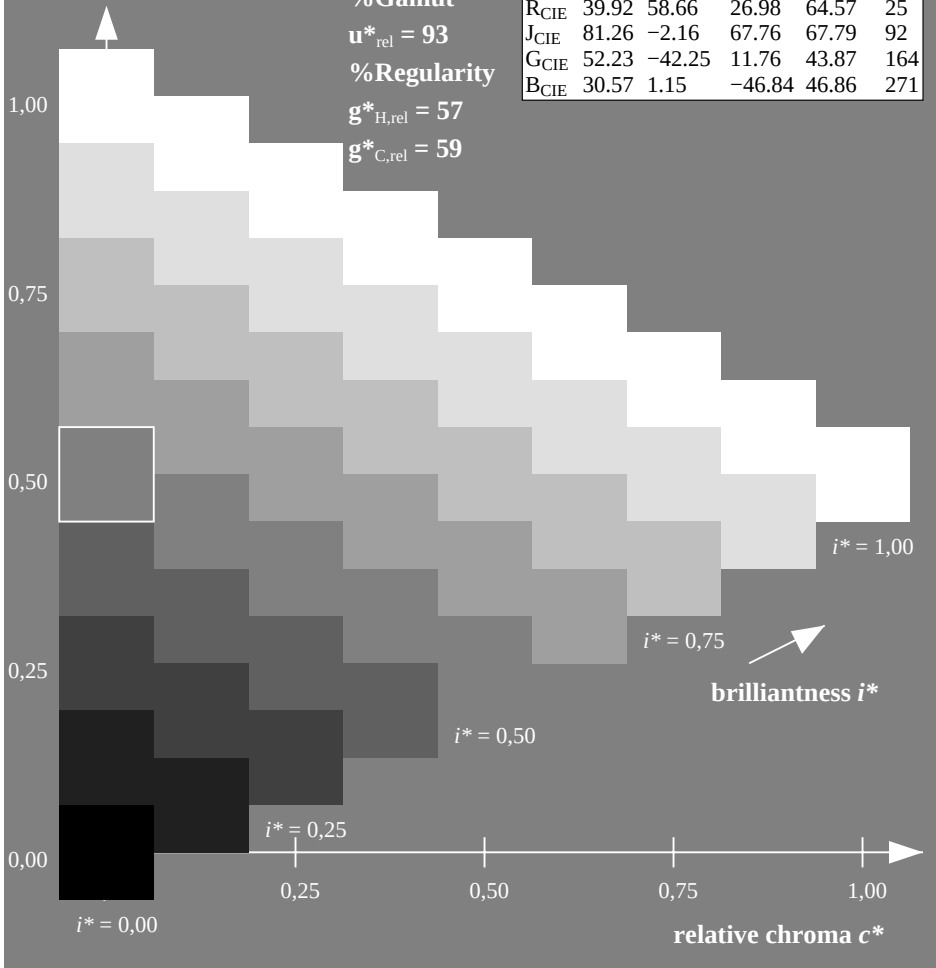
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

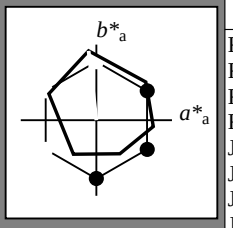
for hue *h = lab*h = 96/360 = 0.268**

lab*tch* and *lab*nch

D65: hue Y

LCH*Ma: 90 92 96

olv*Ma: 1.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

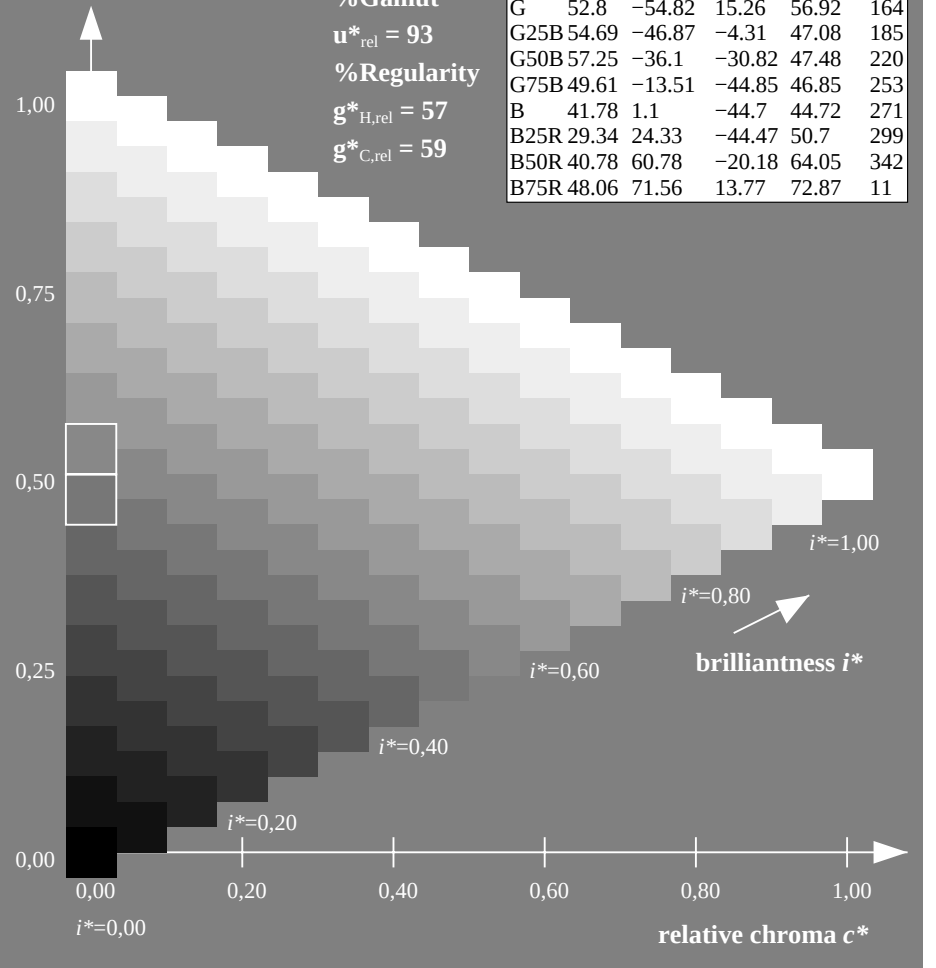
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 96/360 = 0.268 (left) Page 32/60 ZE620−7N, 16 step scales for constant CIELAB hue 96/360 = 0.268 (right) m n

BAM-test chart ZE62; Colorimetric systems, Page 32/60
D65: 9 and 16 step colour scales for 10 hues

input: *rgb / cmy0 set(rgb/cmyk)color*
output: *−>cmy0* setcmykcolor*

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

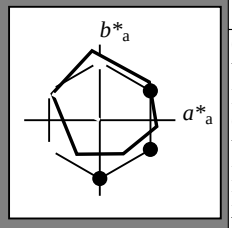
for hue *h* = lab*h = 151/360 = 0.419*

lab*tch* and *lab*nch

D65: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

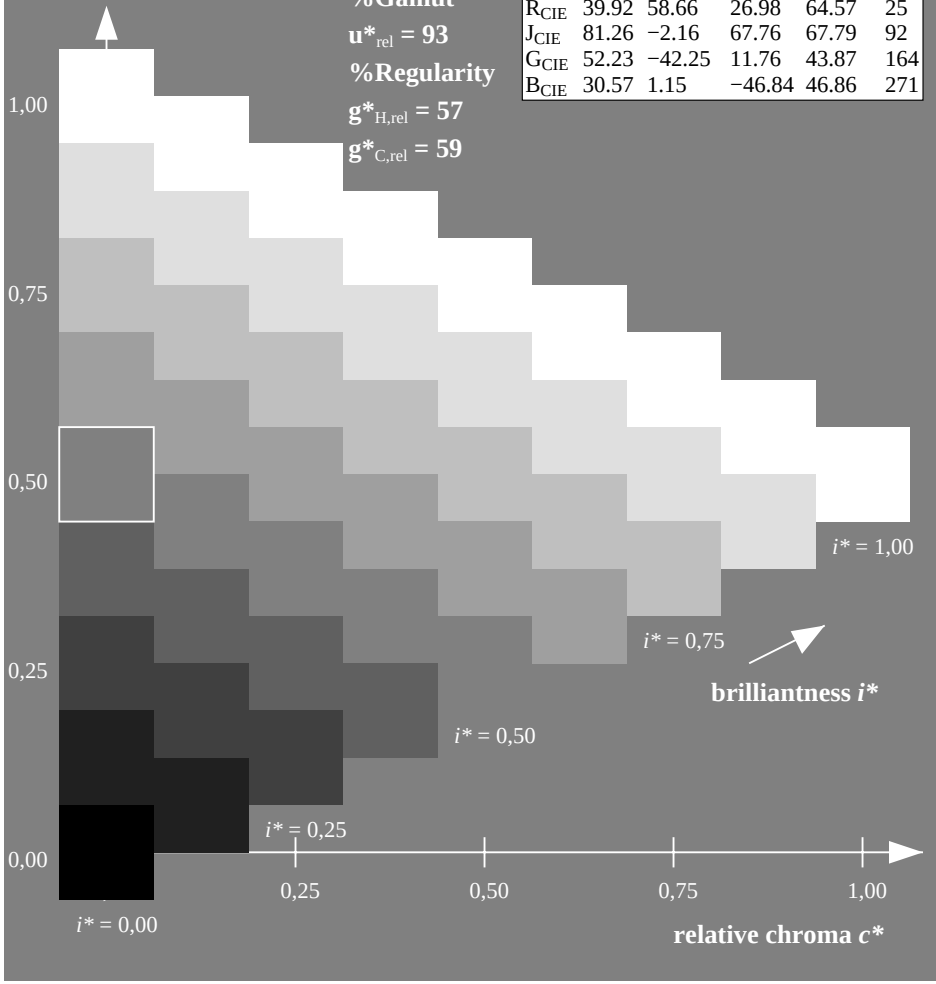
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

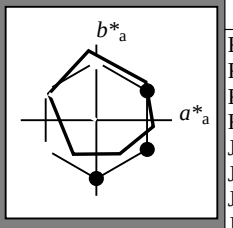
for hue *h* = lab*h = 151/360 = 0.419*

lab*tch* and *lab*nch

D65: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

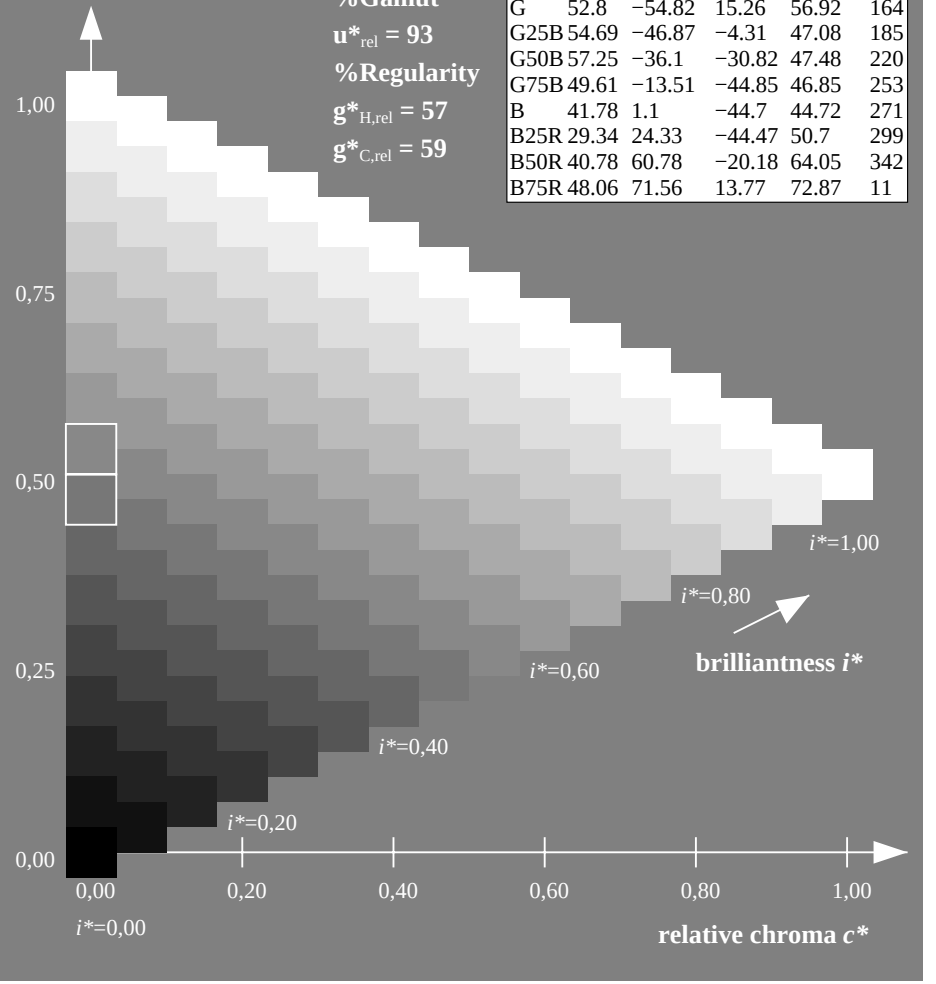
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 151/360 = 0.419 (left) Page 33/60 ZE620−7N, 16 step scales for constant CIELAB hue 151/360 = 0.419 (right) m n

BAM-test chart ZE62; Colorimetric systems, Page 33/60
D65: 9 and 16 step colour scales for 10 hues

input: *rgb / cmy0 set(rgb/cmyk)color*
output: *−>cmy0* setcmykcolor*

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

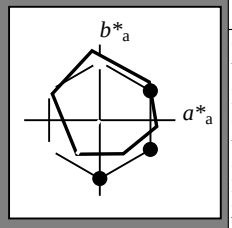
for hue *h = lab*h = 236/360 = 0.656**

lab*tch* and *lab*nch

D65: hue C

LCH*Ma: 59 54 236

olv*Ma: 0.0 1.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

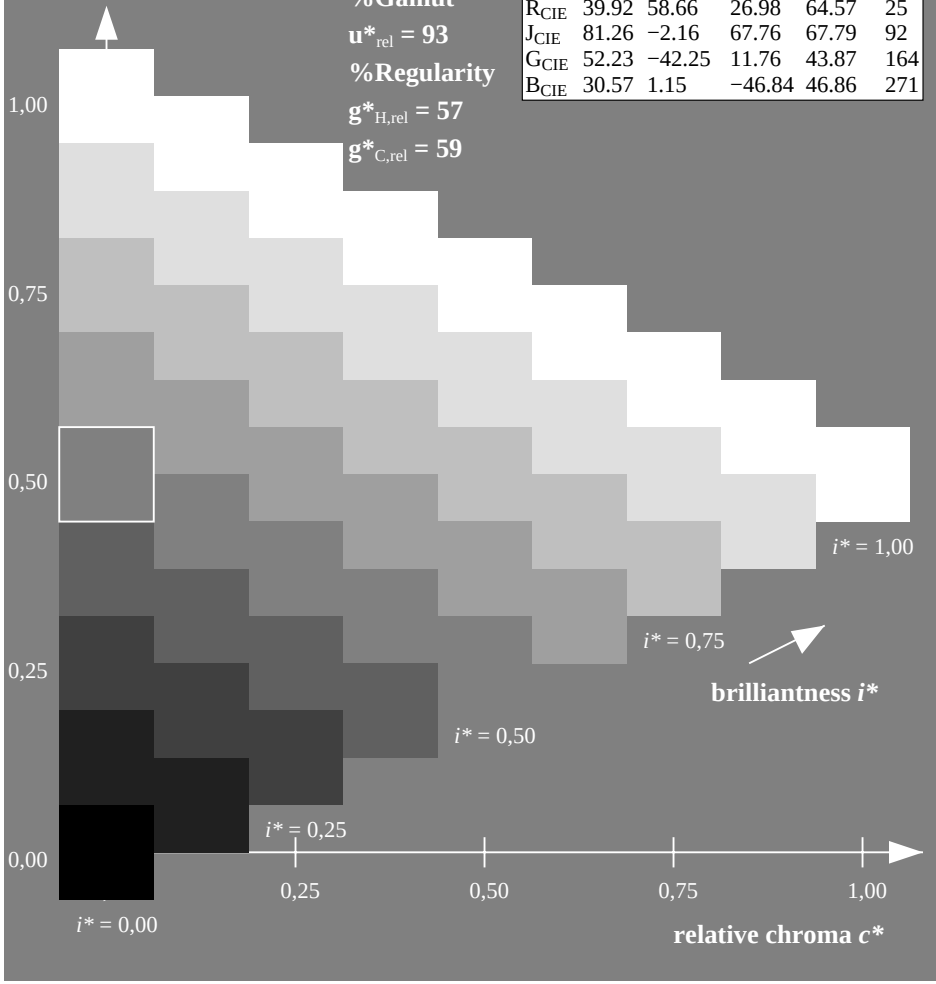
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

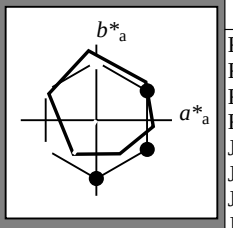
for hue *h = lab*h = 236/360 = 0.656**

lab*tch* and *lab*nch

D65: hue C

LCH*Ma: 59 54 236

olv*Ma: 0.0 1.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

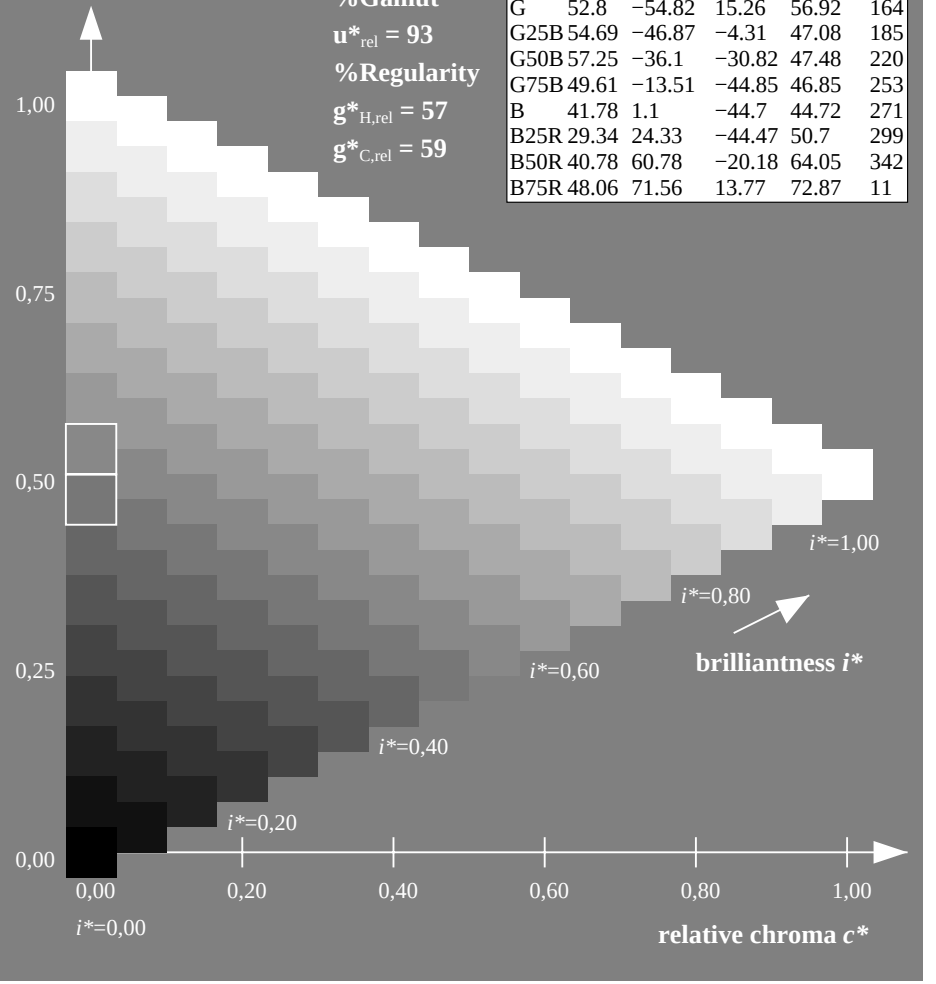
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 236/360 = 0.656 (left) Page 34/60 ZE620−7N, 16 step scales for constant CIELAB hue 236/360 = 0.656 (right) m n

BAM-test chart ZE62; Colorimetric systems, Page 34/60
D65: 9 and 16 step colour scales for 10 hues

input: *rgb / cmy0 set(rgb/cmyk)color*
output: *−>cmy0* setcmykcolor*

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

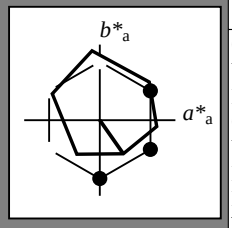
for hue *h = lab*h = 305/360 = 0.847**

lab*tch* and *lab*nch

D65: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

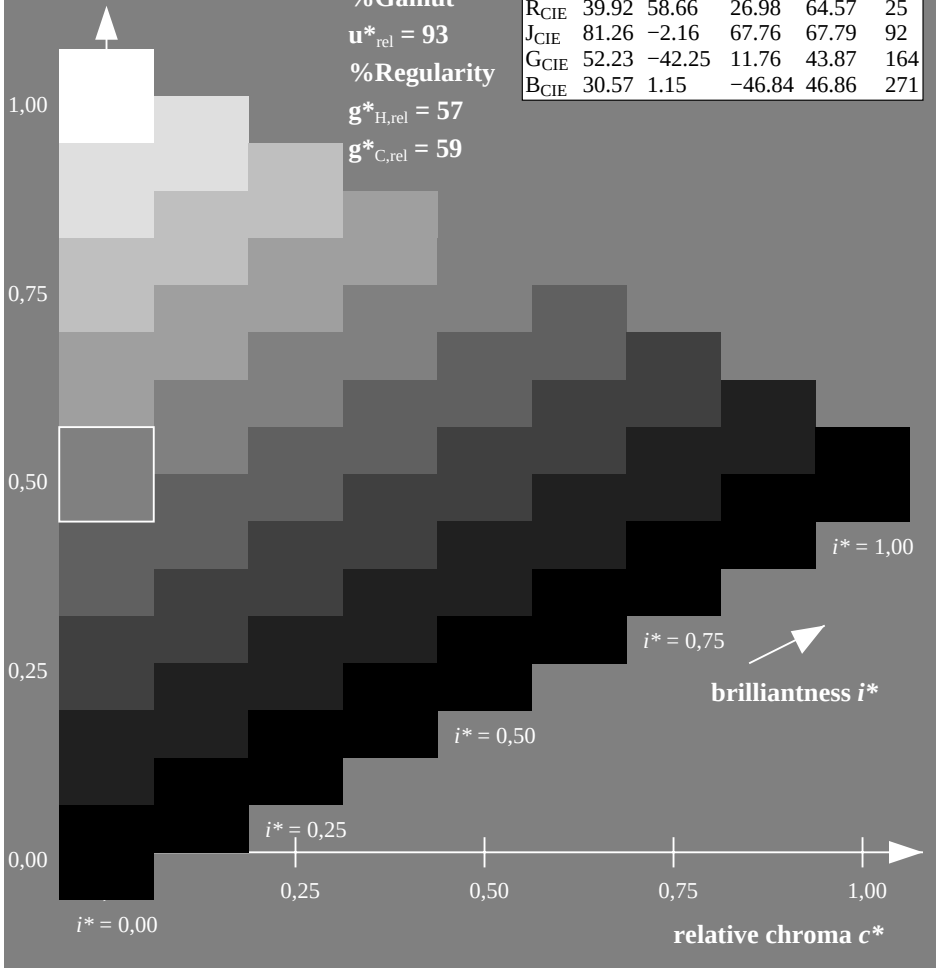
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

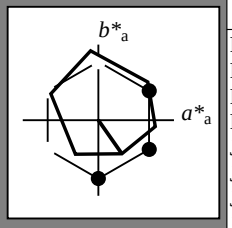
for hue *h = lab*h = 305/360 = 0.847**

lab*tch* and *lab*nch

D65: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

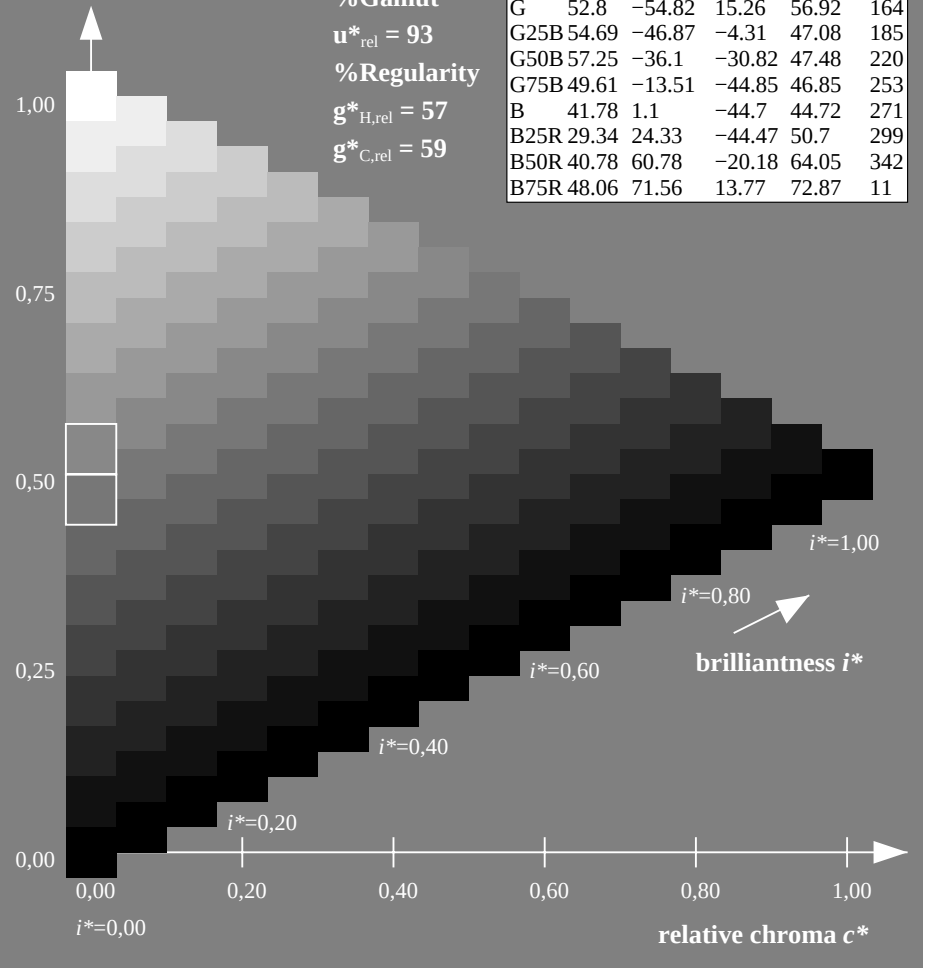
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 305/360 = 0.847 (left) Page 35/60 ZE620−7N, 16 step scales for constant CIELAB hue 305/360 = 0.847 (right) m n

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

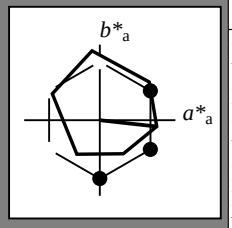
for hue *h* = lab*h = 354/360 = 0.982*

lab*tch* and *lab*nch

D65: hue M

LCH*Ma: 48 76 354

olv*Ma: 1.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

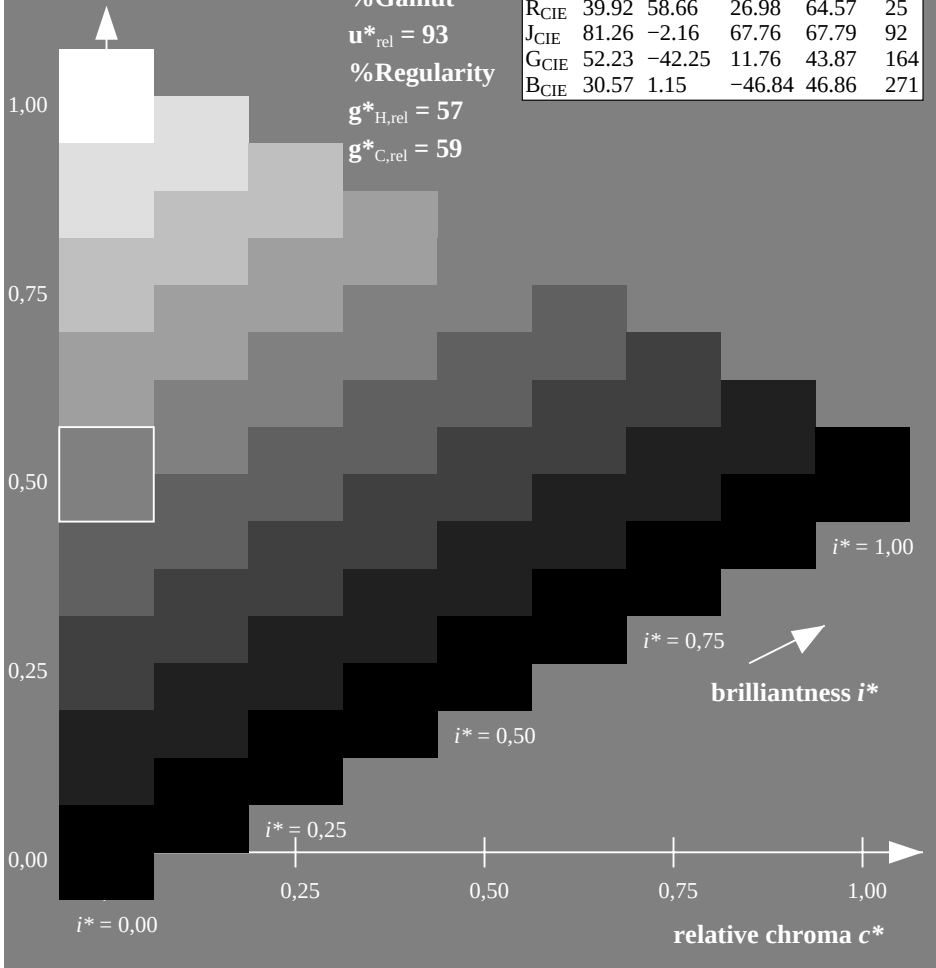
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

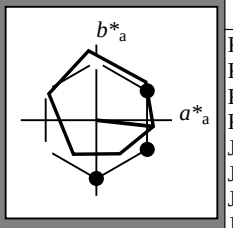
for hue *h* = lab*h = 354/360 = 0.982*

lab*tch* and *lab*nch

D65: hue M

LCH*Ma: 48 76 354

olv*Ma: 1.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

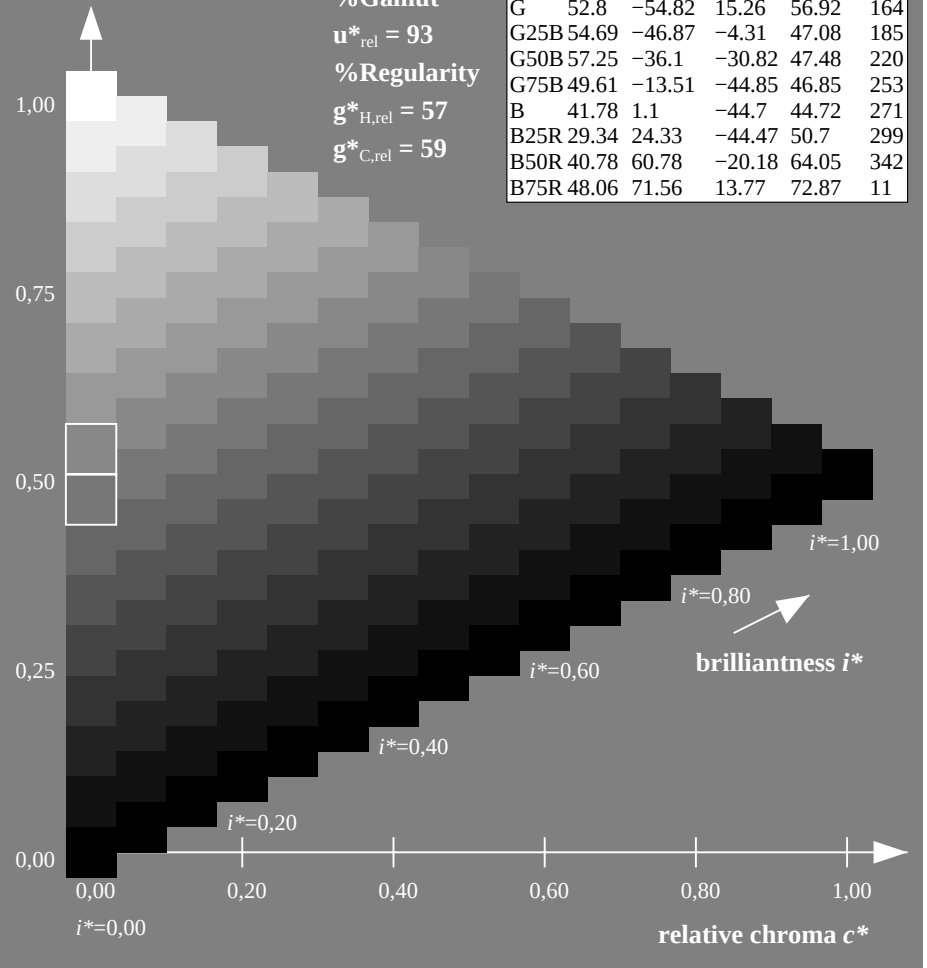
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 354/360 = 0.982 (left) Page 36/60 ZE620−7N, 16 step scales for constant CIELAB hue 354/360 = 0.982 (right) m n

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1
BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

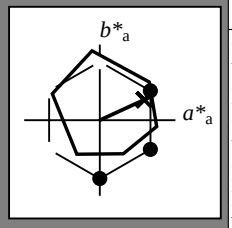
for hue *h = lab*h = 25/360 = 0.069**

lab*tch* and *lab*nch

D65: hue R

LCH*Ma: 48 75 25

olv*Ma: 1.0 0.0 0.32



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

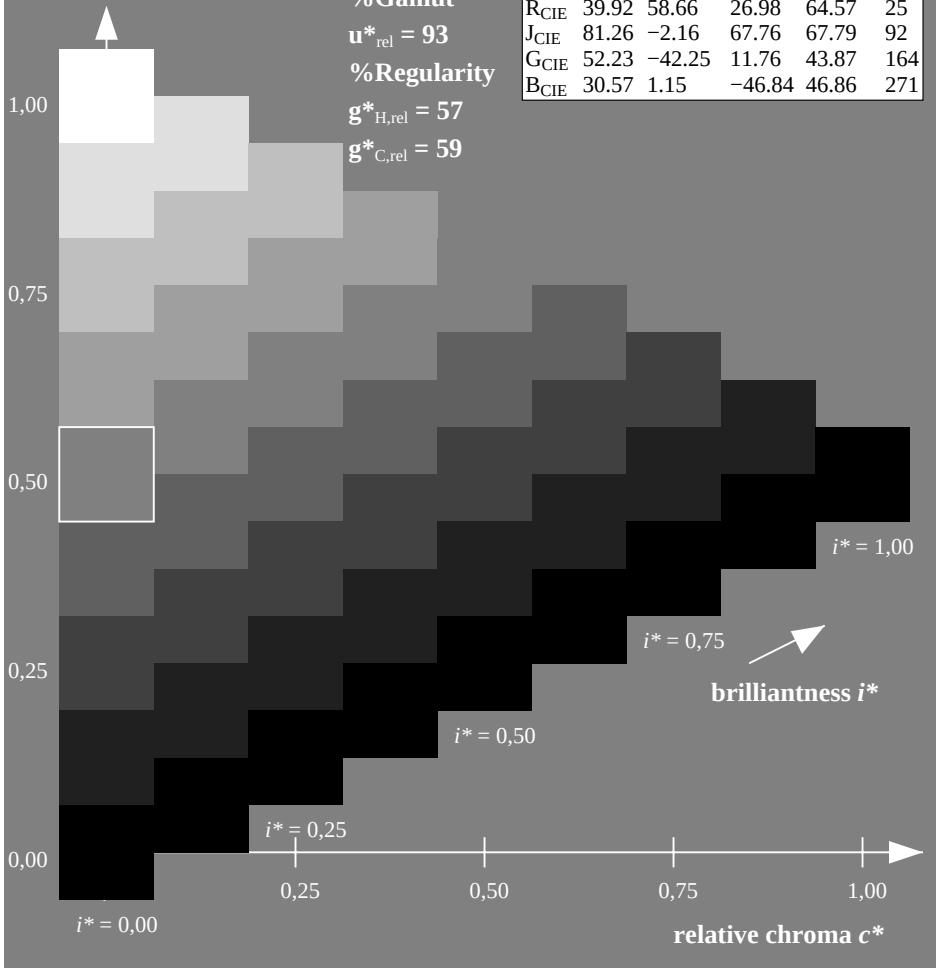
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

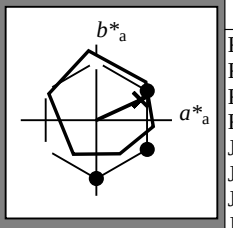
for hue *h = lab*h = 25/360 = 0.069**

lab*tch* and *lab*nch

D65: hue R

LCH*Ma: 48 75 25

olv*Ma: 1.0 0.0 0.32



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

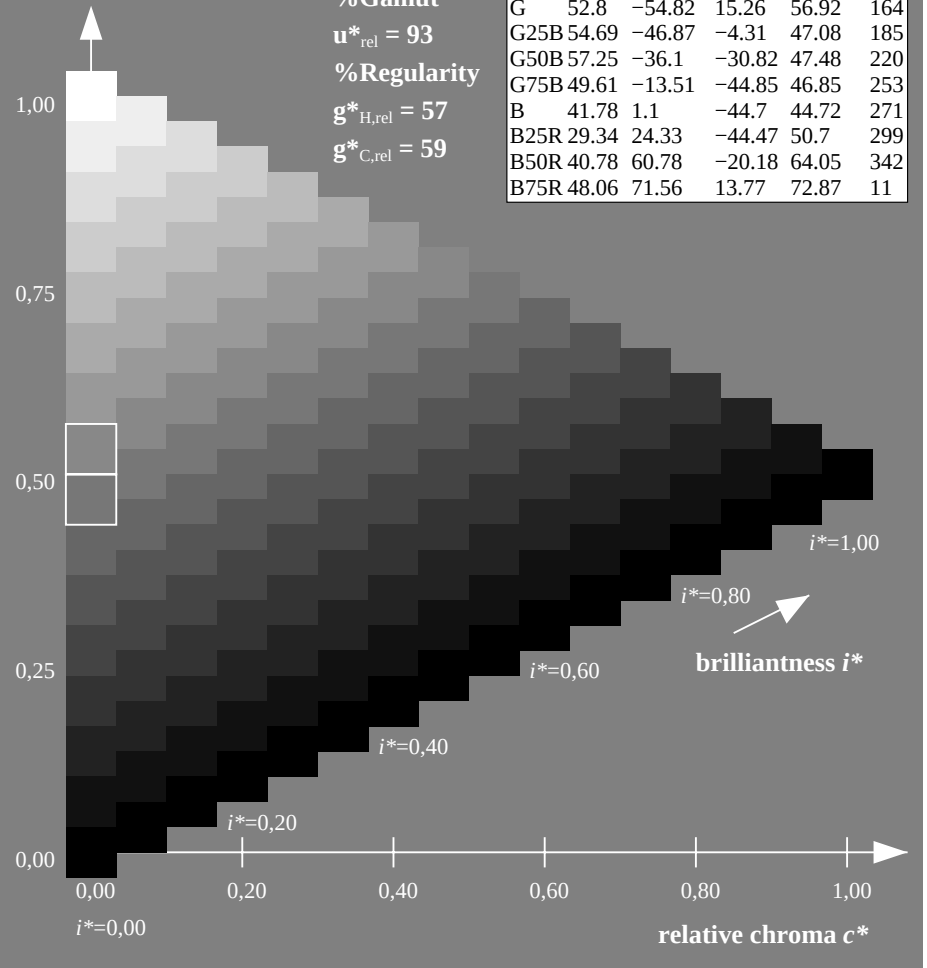
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 25/360 = 0.069 (left) Page 37/60 ZE620−7N, 16 step scales for constant CIELAB hue 25/360 = 0.069 (right) m n

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

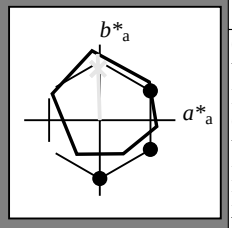
for hue *h = lab*h = 92/360 = 0.255**

lab*tch* and *lab*nch

D65: hue J

LCH*Ma: 86 88 92

olv*Ma: 1.0 0.9 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

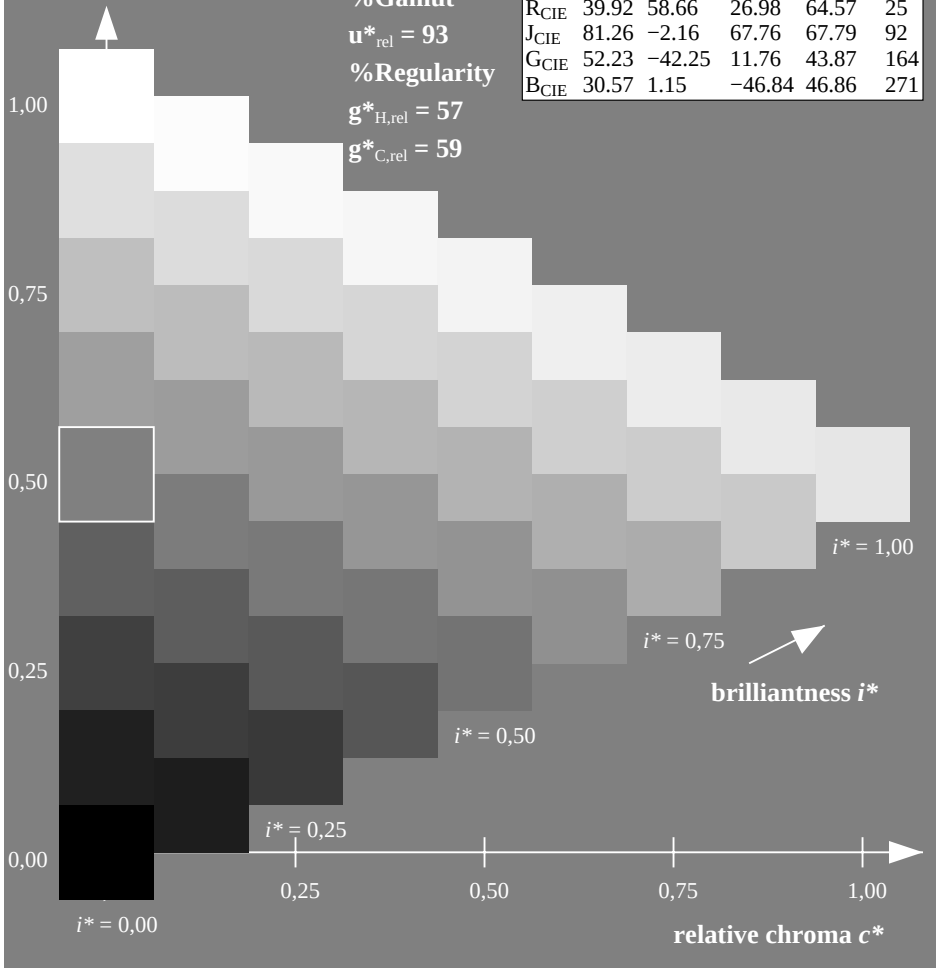
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

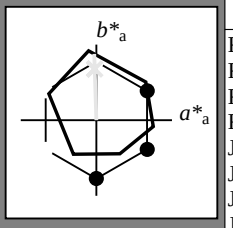
for hue *h = lab*h = 92/360 = 0.255**

lab*tch* and *lab*nch

D65: hue J

LCH*Ma: 86 88 92

olv*Ma: 1.0 0.9 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

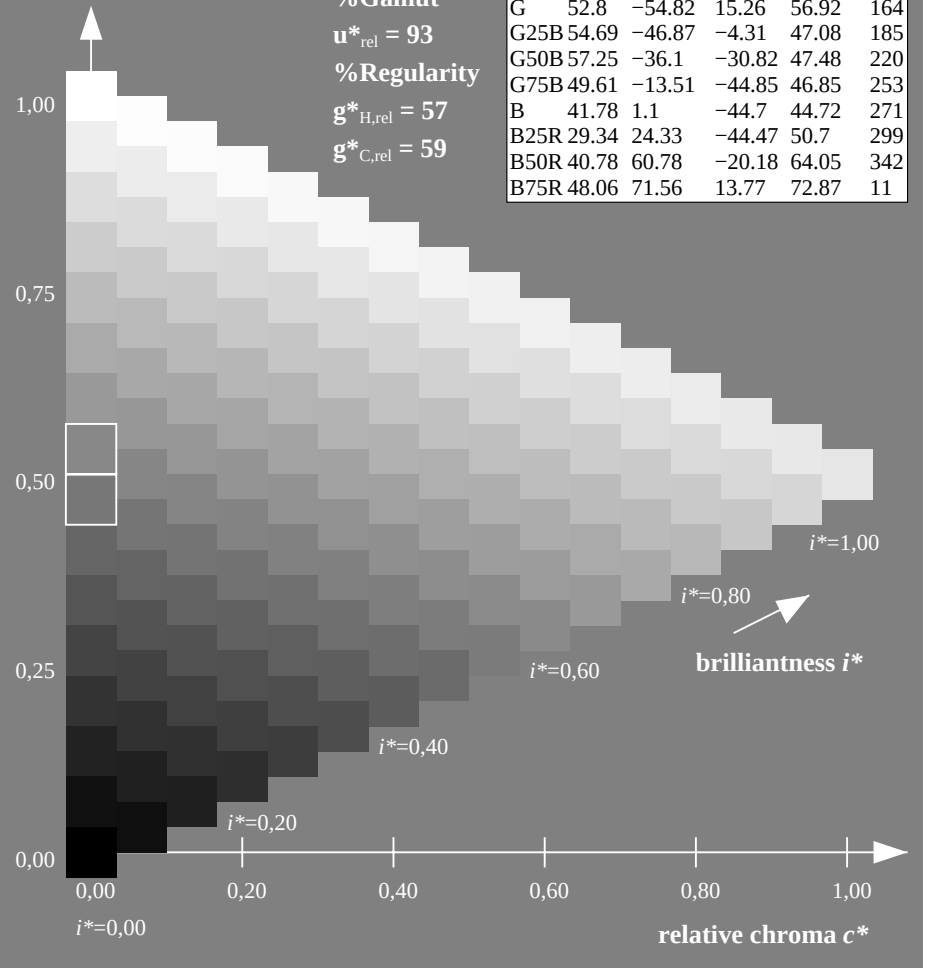
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 92/360 = 0.255 (left) Page 38/60 ZE620−7N, 16 step scales for constant CIELAB hue 92/360 = 0.255 (right) m n

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

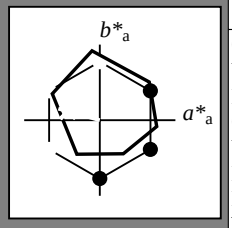
for hue *h* = lab*h = 164/360 = 0.457*

lab*tch* and *lab*nch

D65: hue G

LCH*Ma: 53 57 164

olv*Ma: 0.0 1.0 0.25



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

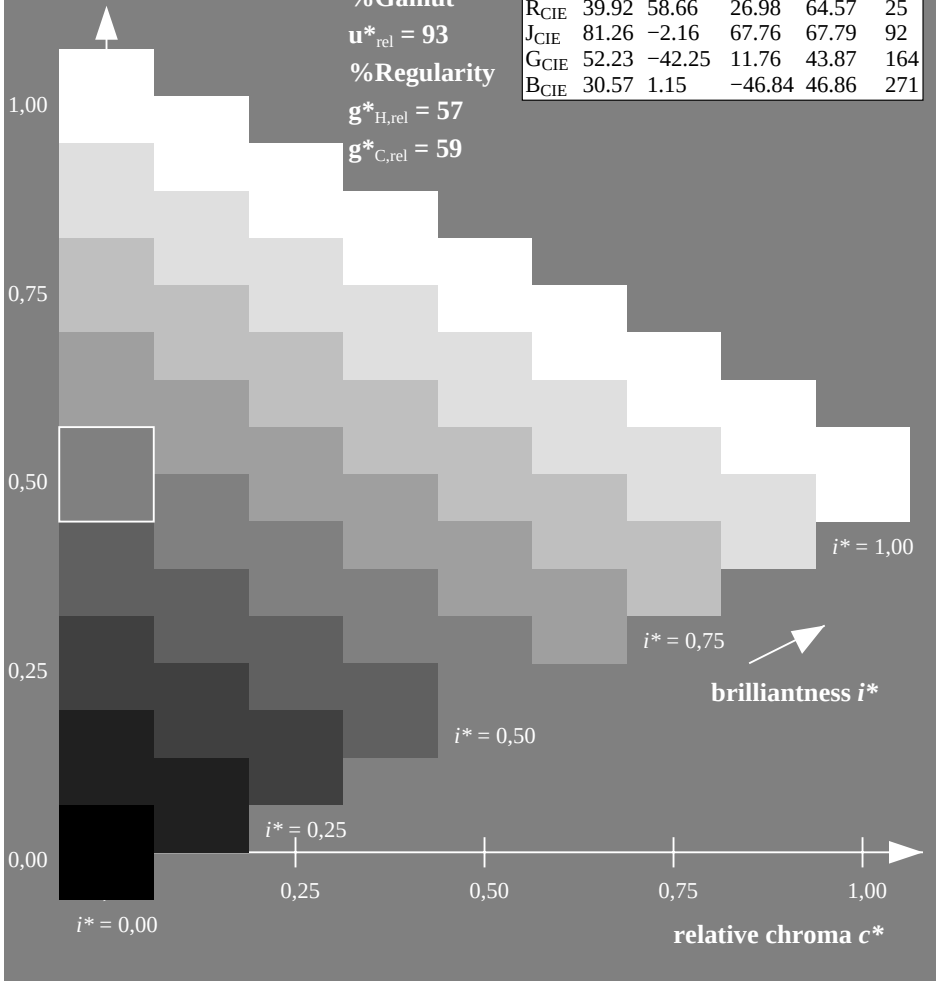
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

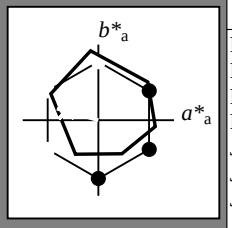
for hue *h* = lab*h = 164/360 = 0.457*

lab*tch* and *lab*nch

D65: hue G

LCH*Ma: 53 57 164

olv*Ma: 0.0 1.0 0.25



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

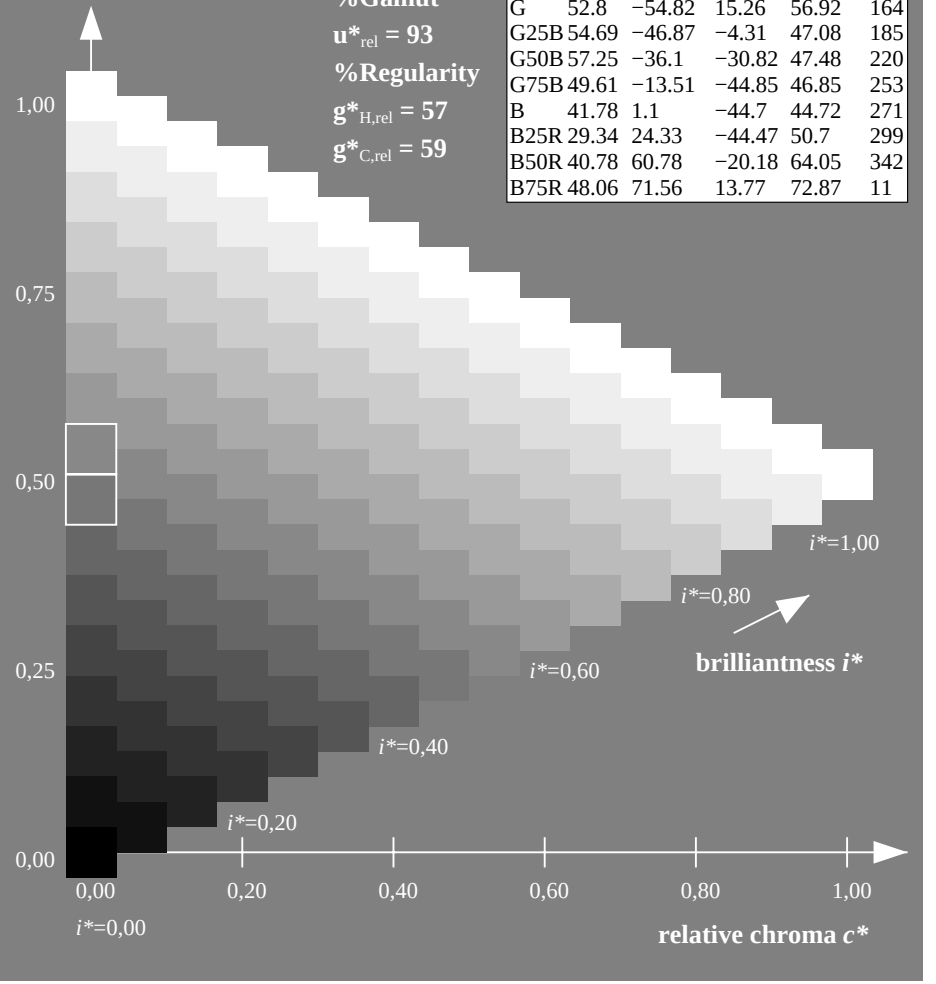
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 164/360 = 0.457 (left) Page 39/60 ZE620−7N, 16 step scales for constant CIELAB hue 164/360 = 0.457 (right) m n

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

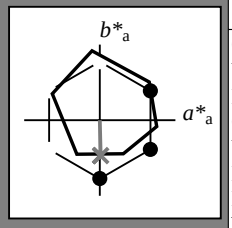
for hue *h = lab*h = 271/360 = 0.754**

lab*tch* and *lab*nch

D65: hue B

LCH*Ma: 42 45 271

olv*Ma: 0.0 0.49 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

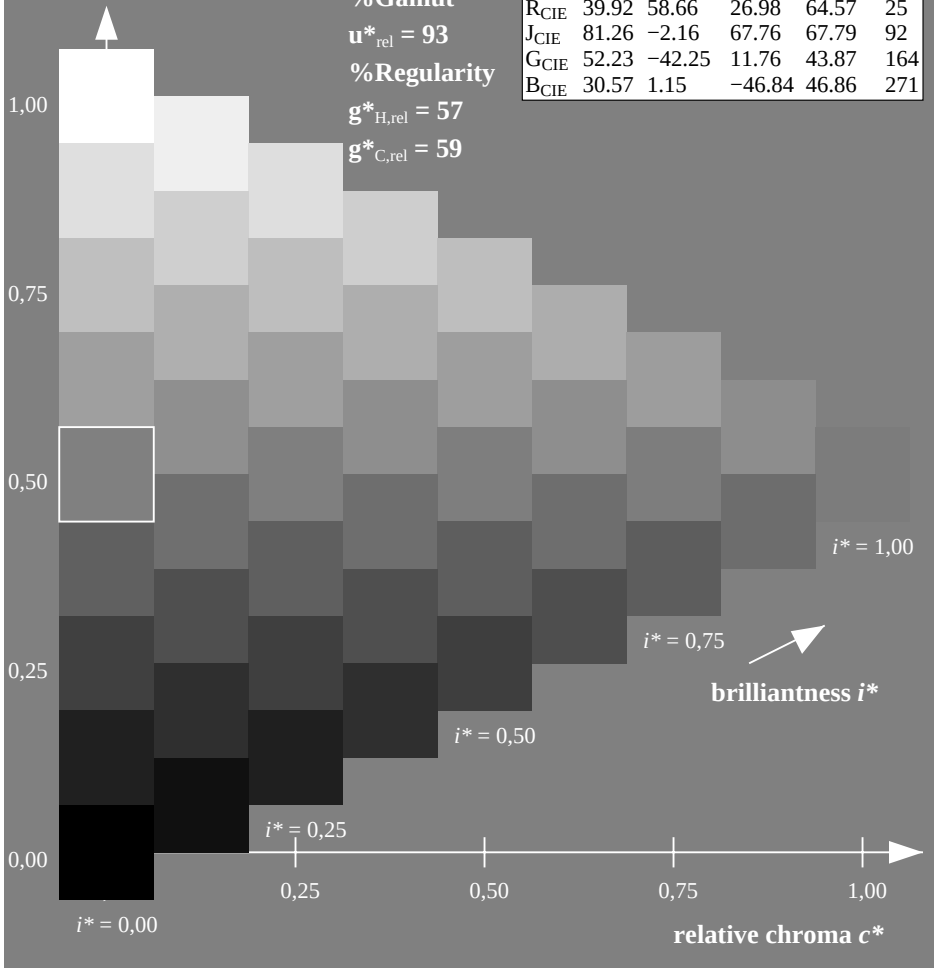
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

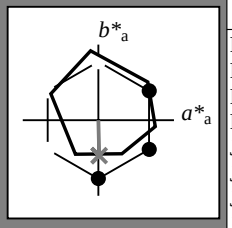
for hue *h = lab*h = 271/360 = 0.754**

lab*tch* and *lab*nch

D65: hue B

LCH*Ma: 42 45 271

olv*Ma: 0.0 0.49 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

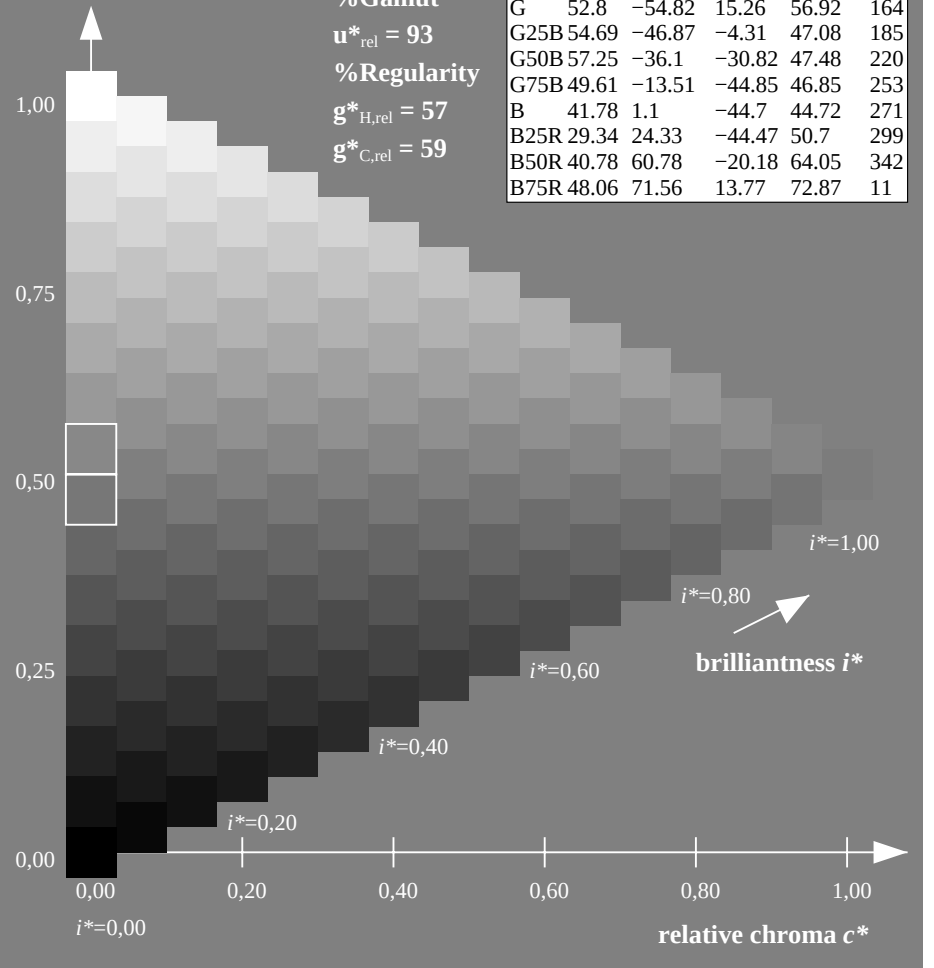
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 271/360 = 0.754 (left) Page 40/60 ZE620−7N, 16 step scales for constant CIELAB hue 271/360 = 0.754 (right) m n

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

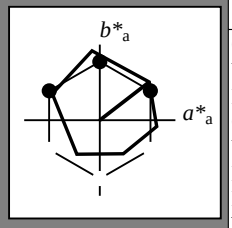
for hue *h = lab*h = 38/360 = 0.105**

lab*tch* and *lab*nch

D65: hue O

LCH*Ma: 48 83 38

olv*Ma: 1.0 0.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

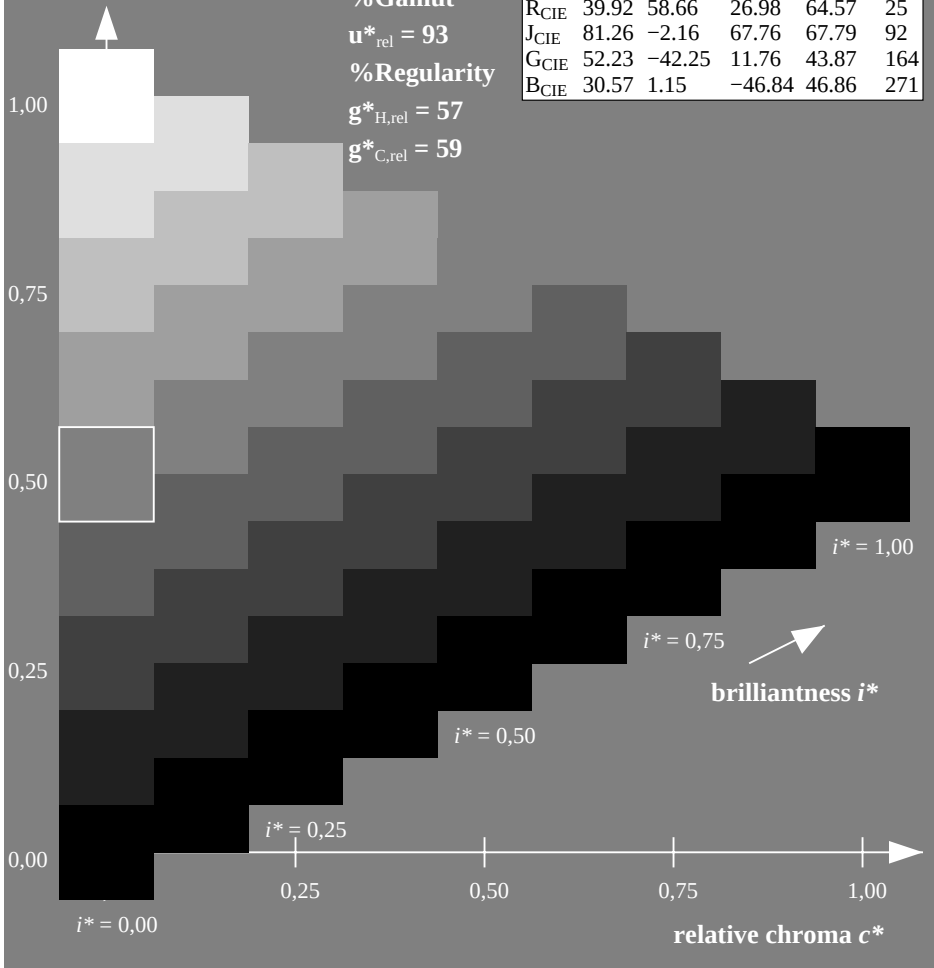
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

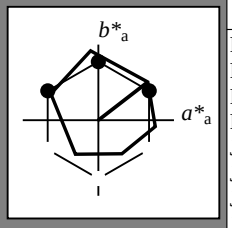
for hue *h = lab*h = 38/360 = 0.105**

lab*tch* and *lab*nch

D65: hue O

LCH*Ma: 48 83 38

olv*Ma: 1.0 0.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

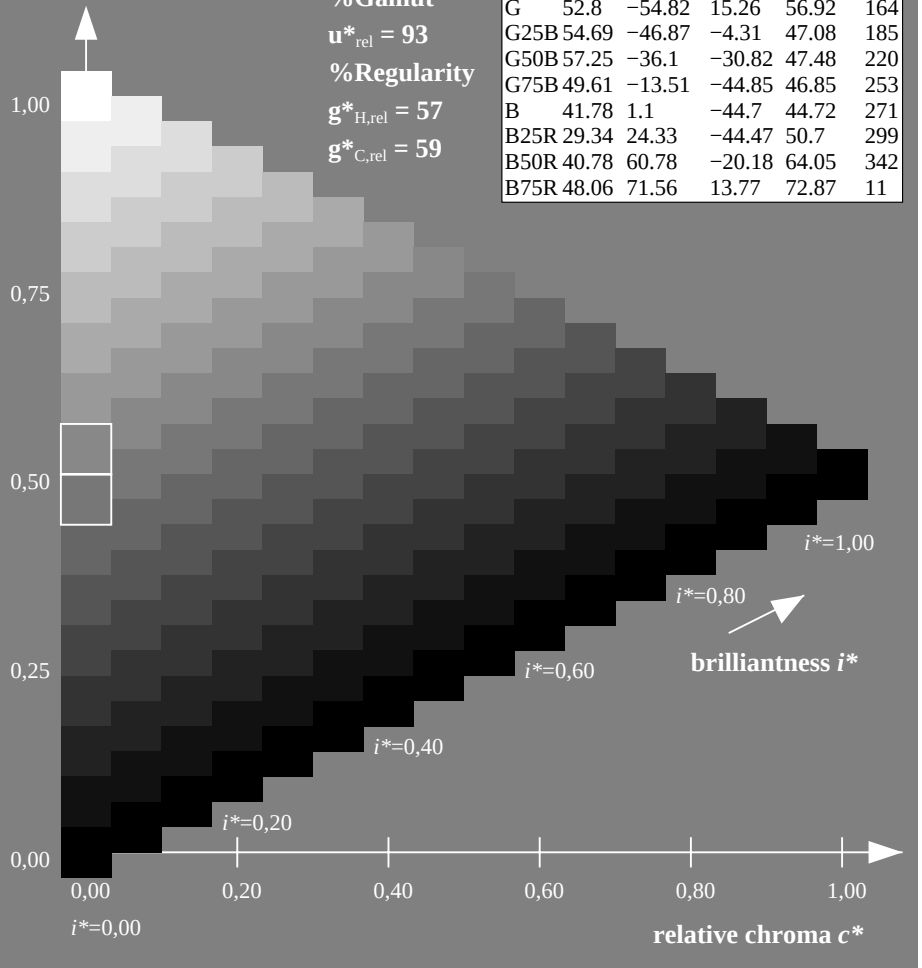
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 38/360 = 0.105 (left) Page 41/60 ZE620−7N, 16 step scales for constant CIELAB hue 38/360 = 0.105 (right) yn

BAM-test chart ZE62; Colorimetric systems, Page 41/60
D65: 9 and 16 step colour scales for 10 hues

input: *rgb / cmy0 set(rgb/cmyk)color*
output: *−>cmy0* setcmykcolor*

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

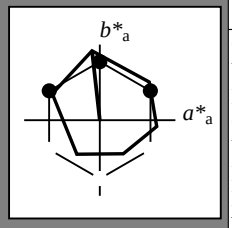
for hue *h = lab*h = 96/360 = 0.268**

lab*tch* and *lab*nch

D65: hue Y

LCH*Ma: 90 92 96

olv*Ma: 1.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

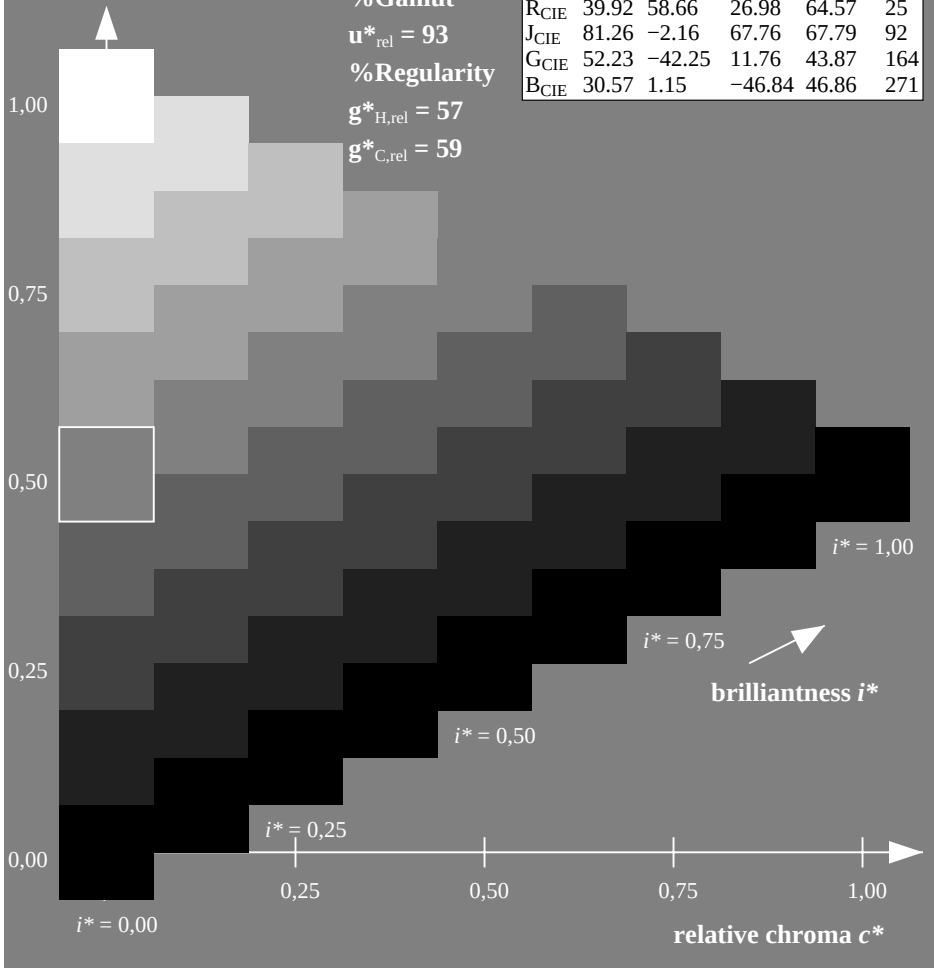
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

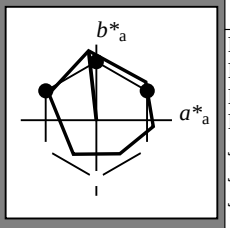
for hue *h = lab*h = 96/360 = 0.268**

lab*tch* and *lab*nch

D65: hue Y

LCH*Ma: 90 92 96

olv*Ma: 1.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

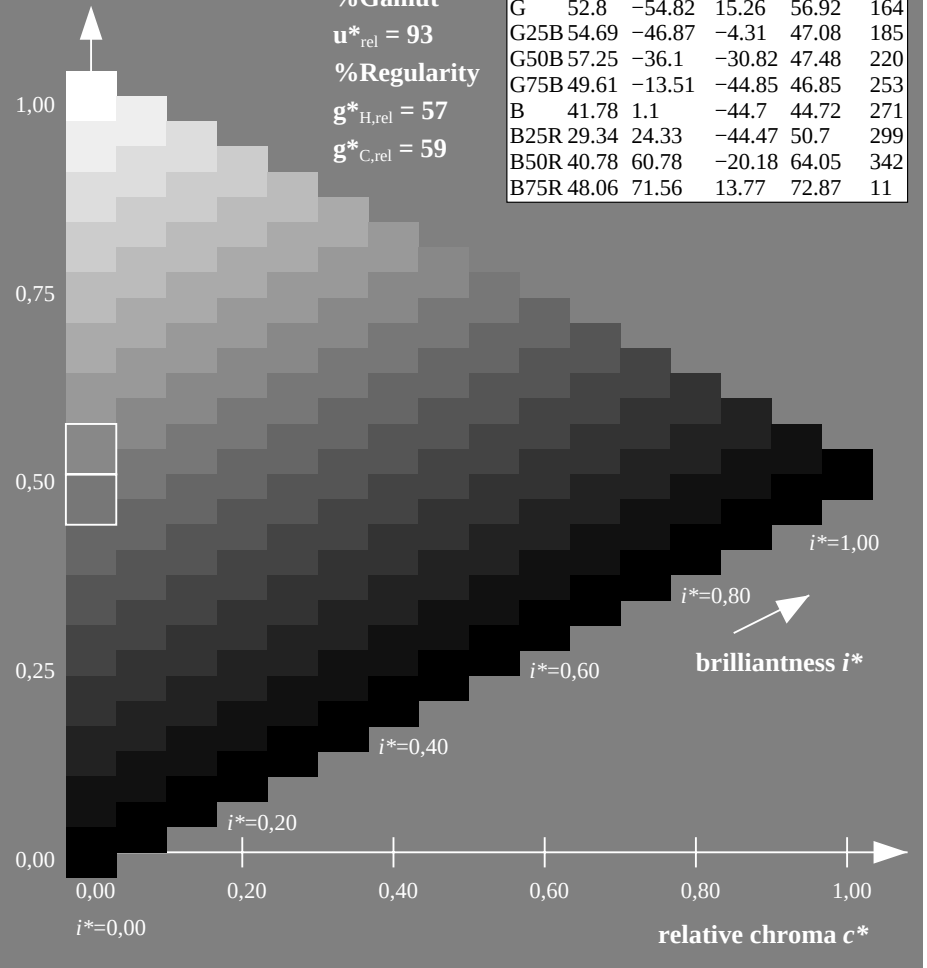
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 96/360 = 0.268 (left) Page 42/60 ZE620−7N, 16 step scales for constant CIELAB hue 96/360 = 0.268 (right) yn

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

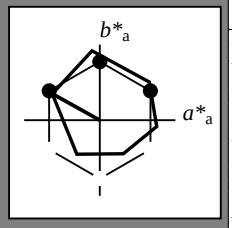
for hue *h* = lab*h = 151/360 = 0.419*

lab*tch* and *lab*nch

D65: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

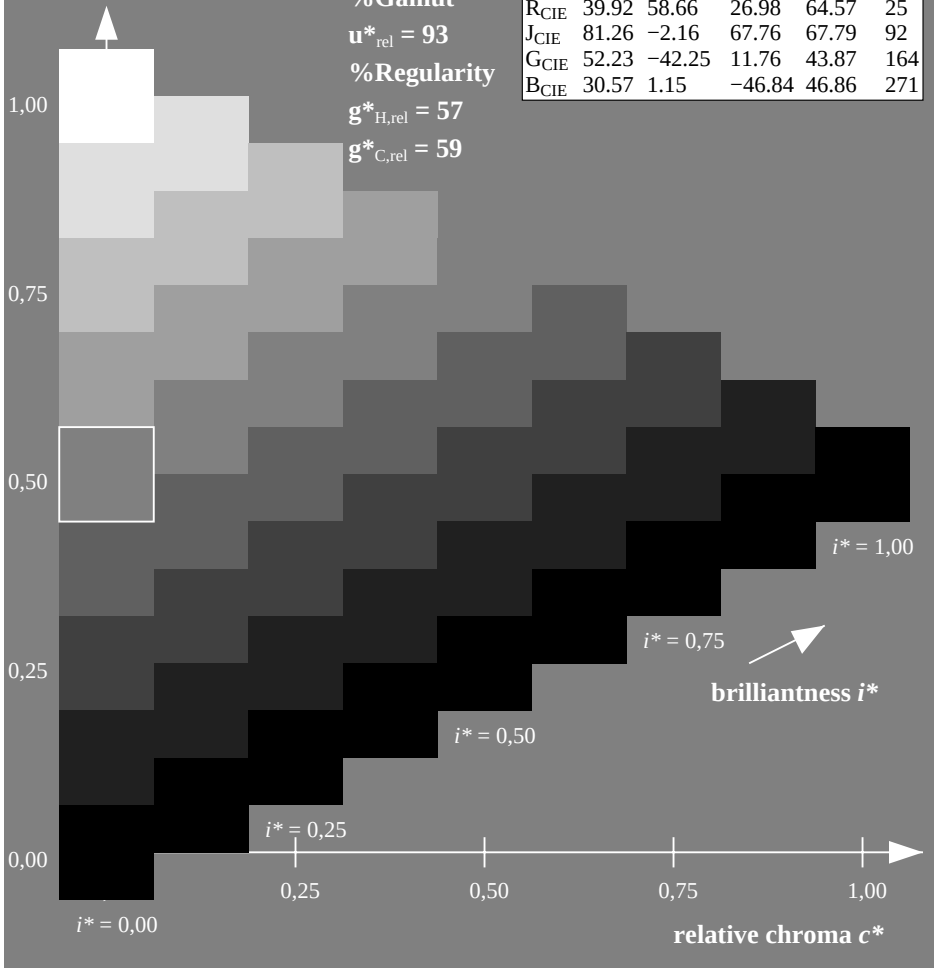
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

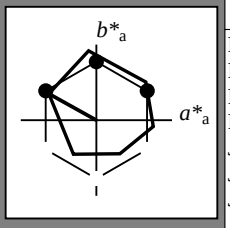
for hue *h* = lab*h = 151/360 = 0.419*

lab*tch* and *lab*nch

D65: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

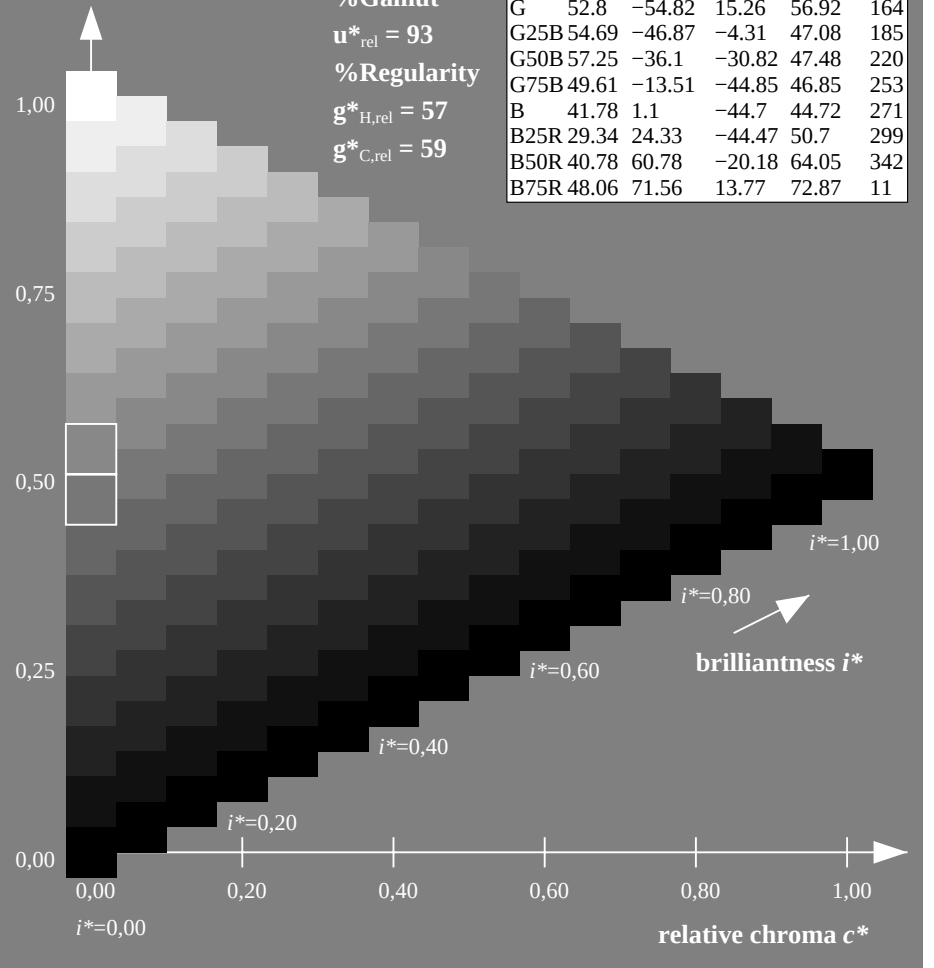
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 151/360 = 0.419 (left) Page 43/60 ZE620−7N, 16 step scales for constant CIELAB hue 151/360 = 0.419 (right) yn

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1
BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

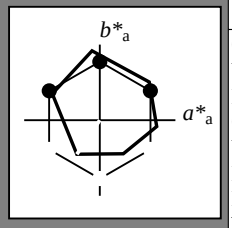
for hue *h = lab*h = 236/360 = 0.656**

lab*tch* and *lab*nch

D65: hue C

LCH*Ma: 59 54 236

olv*Ma: 0.0 1.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

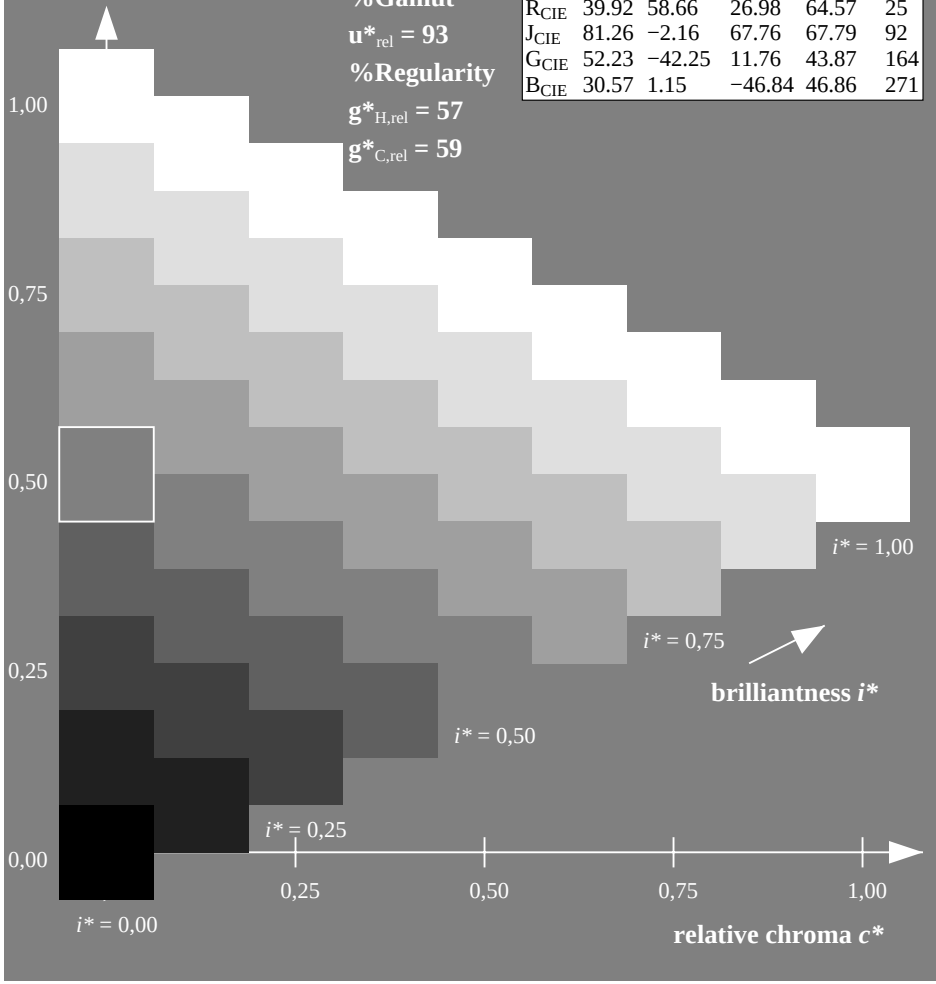
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

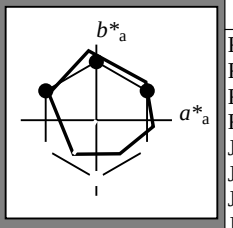
for hue *h = lab*h = 236/360 = 0.656**

lab*tch* and *lab*nch

D65: hue C

LCH*Ma: 59 54 236

olv*Ma: 0.0 1.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

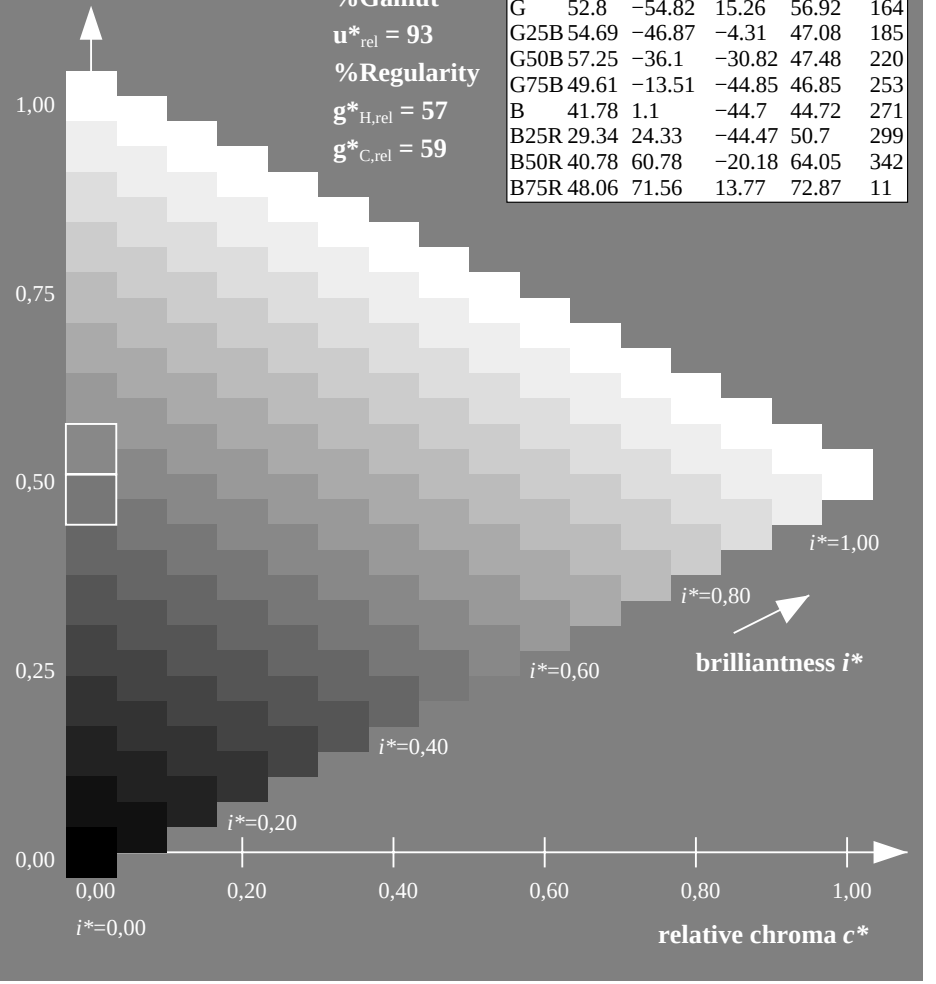
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 236/360 = 0.656 (left) Page 44/60 ZE620−7N, 16 step scales for constant CIELAB hue 236/360 = 0.656 (right) yn

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1
BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

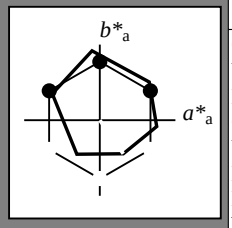
for hue *h = lab*h = 305/360 = 0.847**

lab*tch* and *lab*nch

D65: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

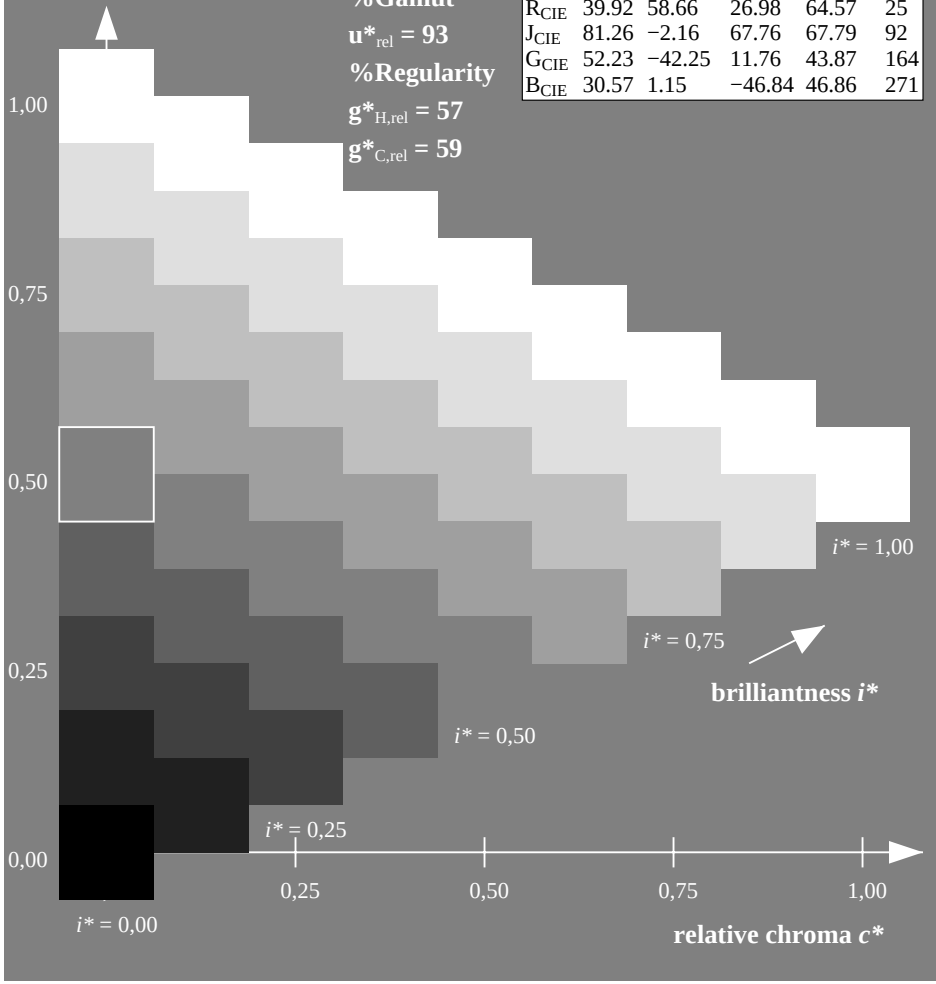
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

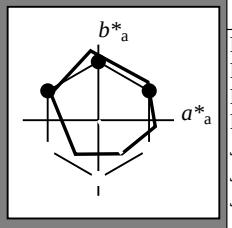
for hue *h = lab*h = 305/360 = 0.847**

lab*tch* and *lab*nch

D65: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

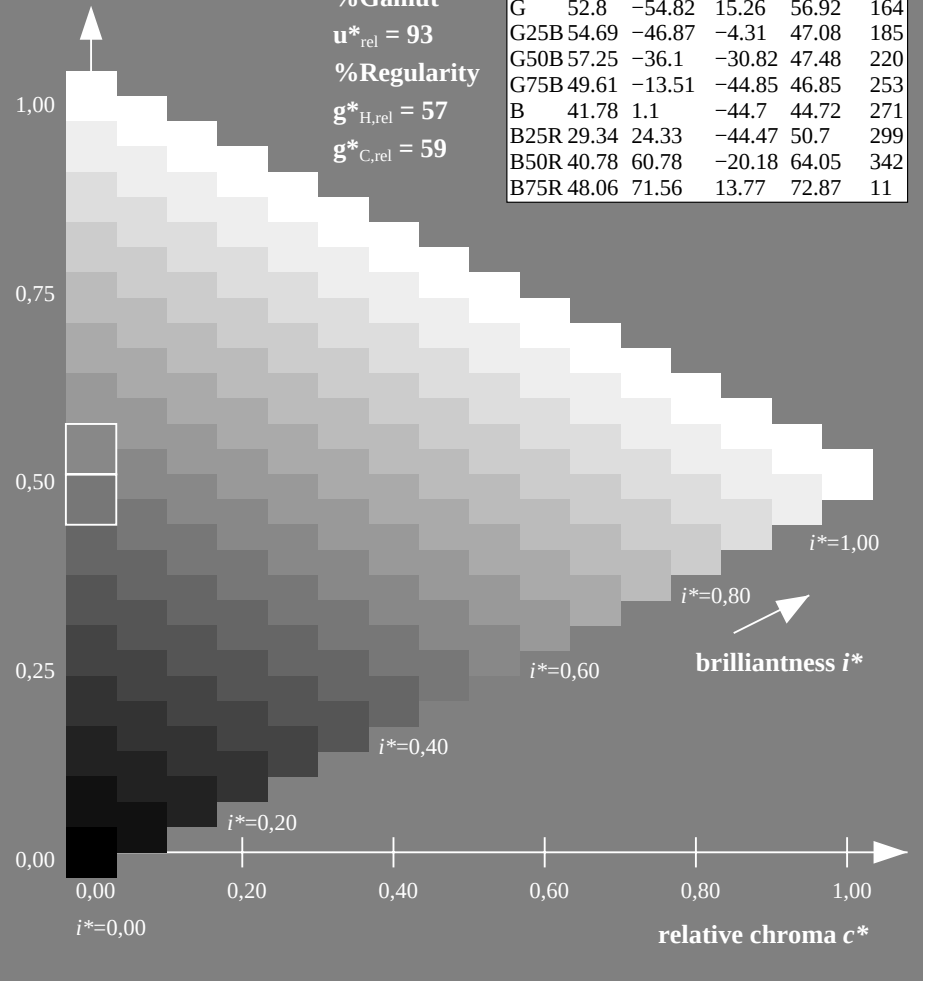
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 305/360 = 0.847 (left) Page 45/60 ZE620−7N, 16 step scales for constant CIELAB hue 305/360 = 0.847 (right) yn

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1
BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

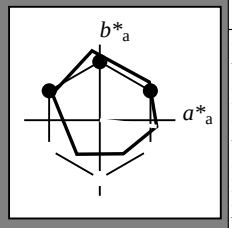
for hue *h = lab*h = 354/360 = 0.982**

lab*tch* and *lab*nch

D65: hue M

LCH*Ma: 48 76 354

olv*Ma: 1.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

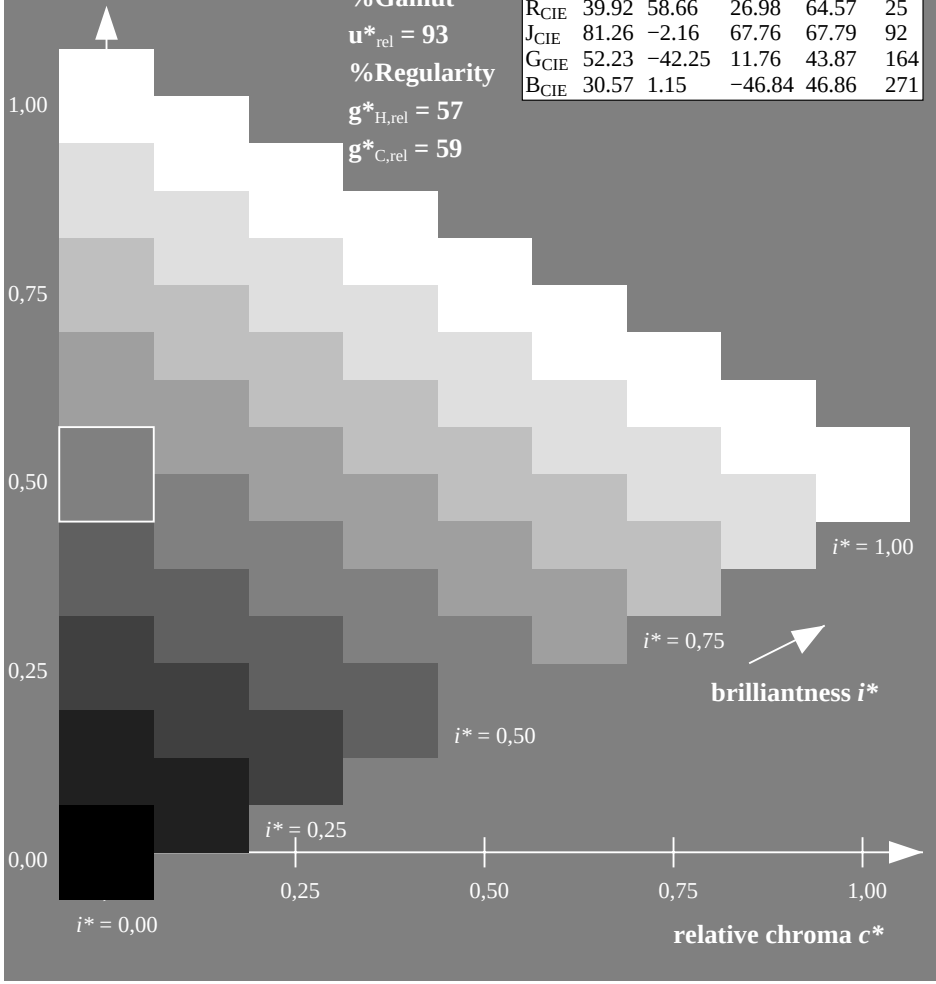
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

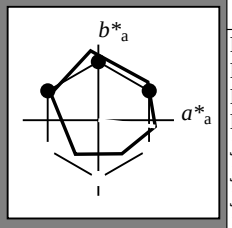
for hue *h = lab*h = 354/360 = 0.982**

lab*tch* and *lab*nch

D65: hue M

LCH*Ma: 48 76 354

olv*Ma: 1.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

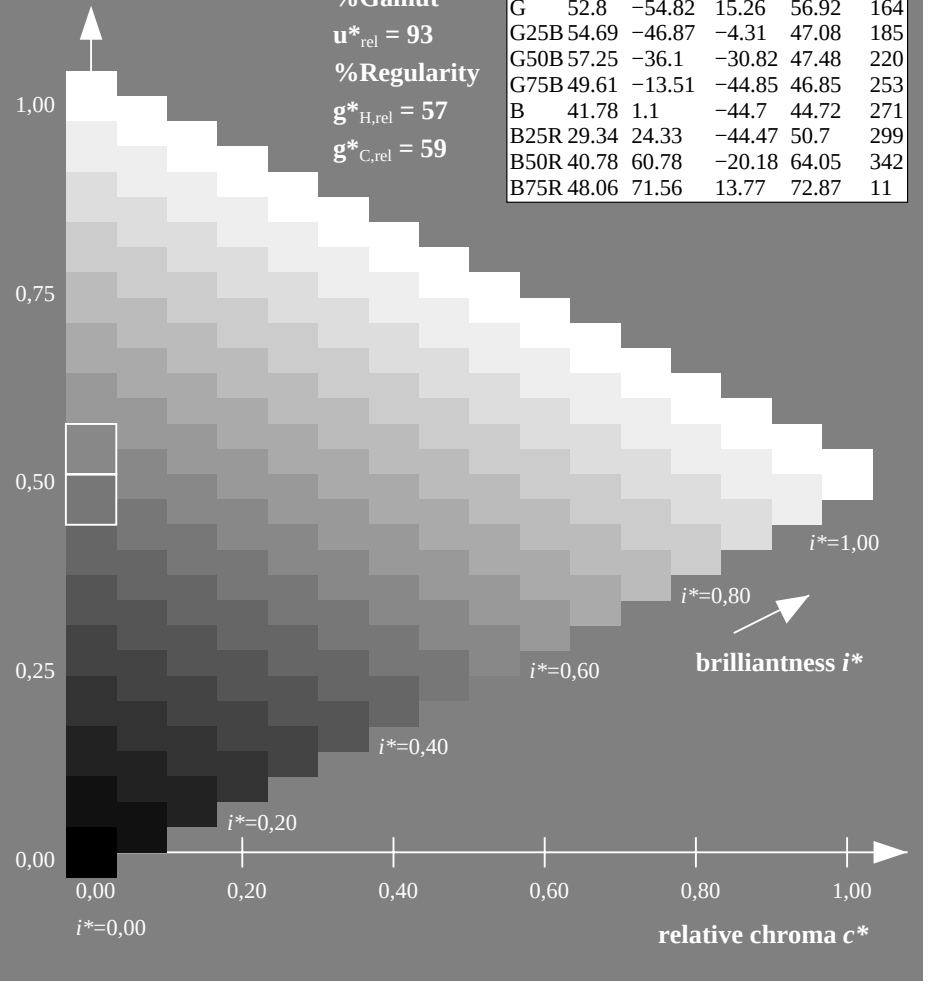
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 354/360 = 0.982 (left) Page 46/60 ZE620−7N, 16 step scales for constant CIELAB hue 354/360 = 0.982 (right) yn

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1
BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

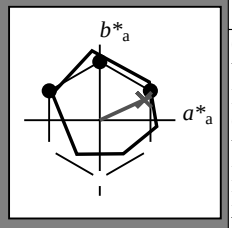
for hue *h* = lab*h = 25/360 = 0.069*

lab*tch* and *lab*nch

D65: hue R

LCH*Ma: 48 75 25

olv*Ma: 1.0 0.0 0.32



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

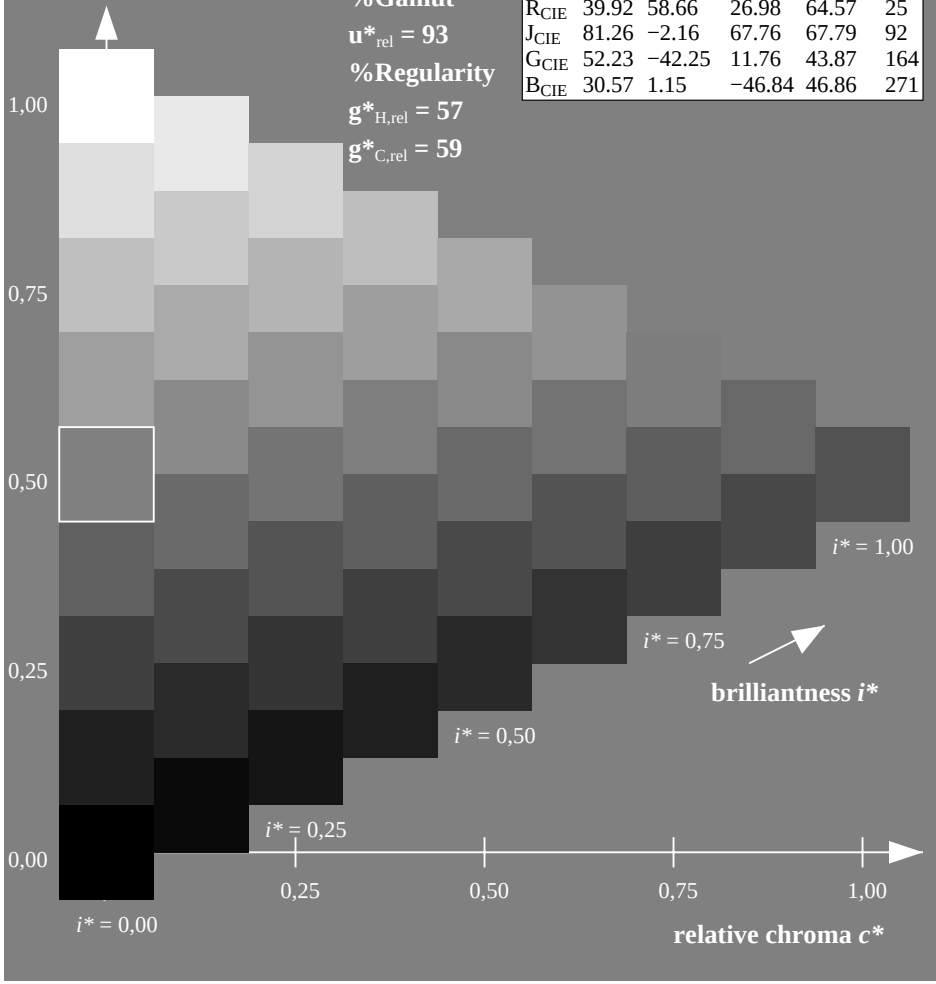
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

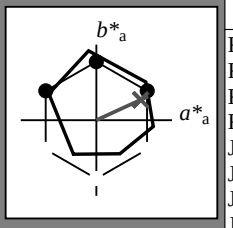
for hue *h* = lab*h = 25/360 = 0.069*

lab*tch* and *lab*nch

D65: hue R

LCH*Ma: 48 75 25

olv*Ma: 1.0 0.0 0.32



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

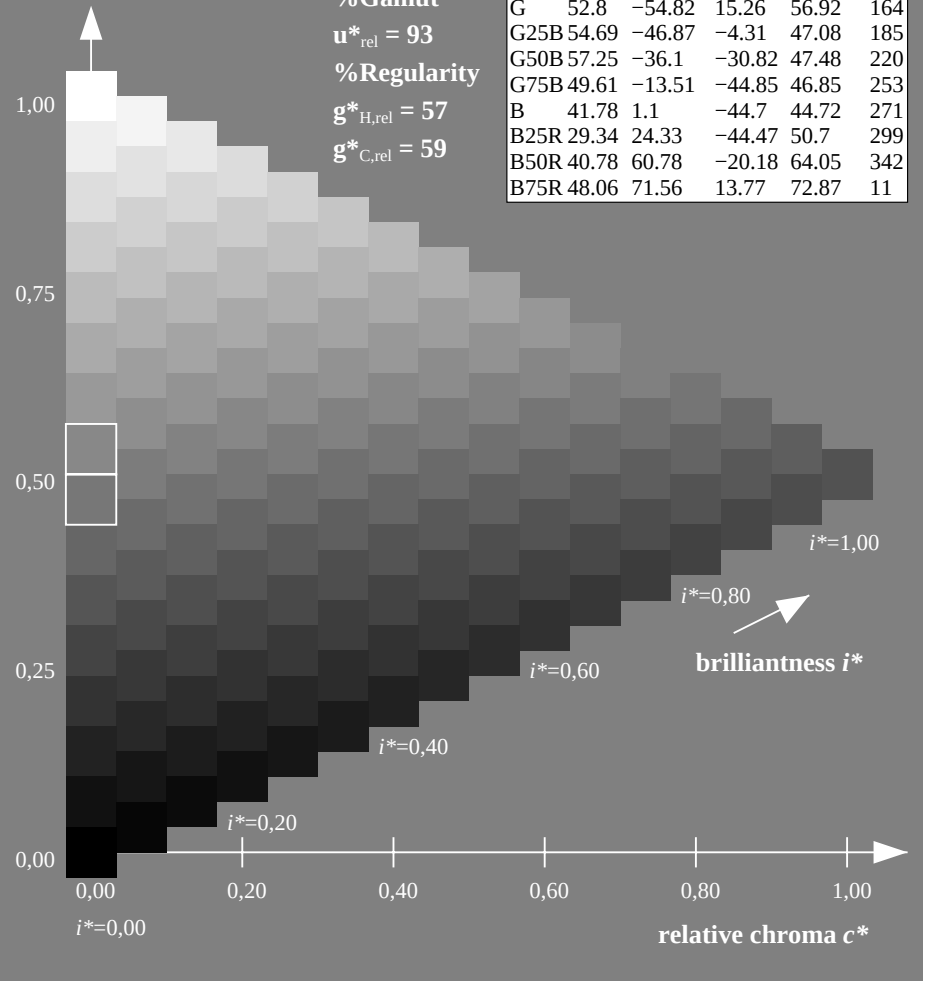
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 25/360 = 0.069 (left) Page 47/60 ZE620−7N, 16 step scales for constant CIELAB hue 25/360 = 0.069 (right) yn

Input: Colorimetric Offset Reflective System ORS18

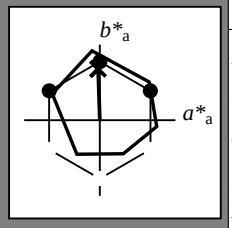
for hue *h = lab*h = 92/360 = 0.255**

lab*tch* and *lab*nch

D65: hue J

LCH*Ma: 86 88 92

olv*Ma: 1.0 0.9 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

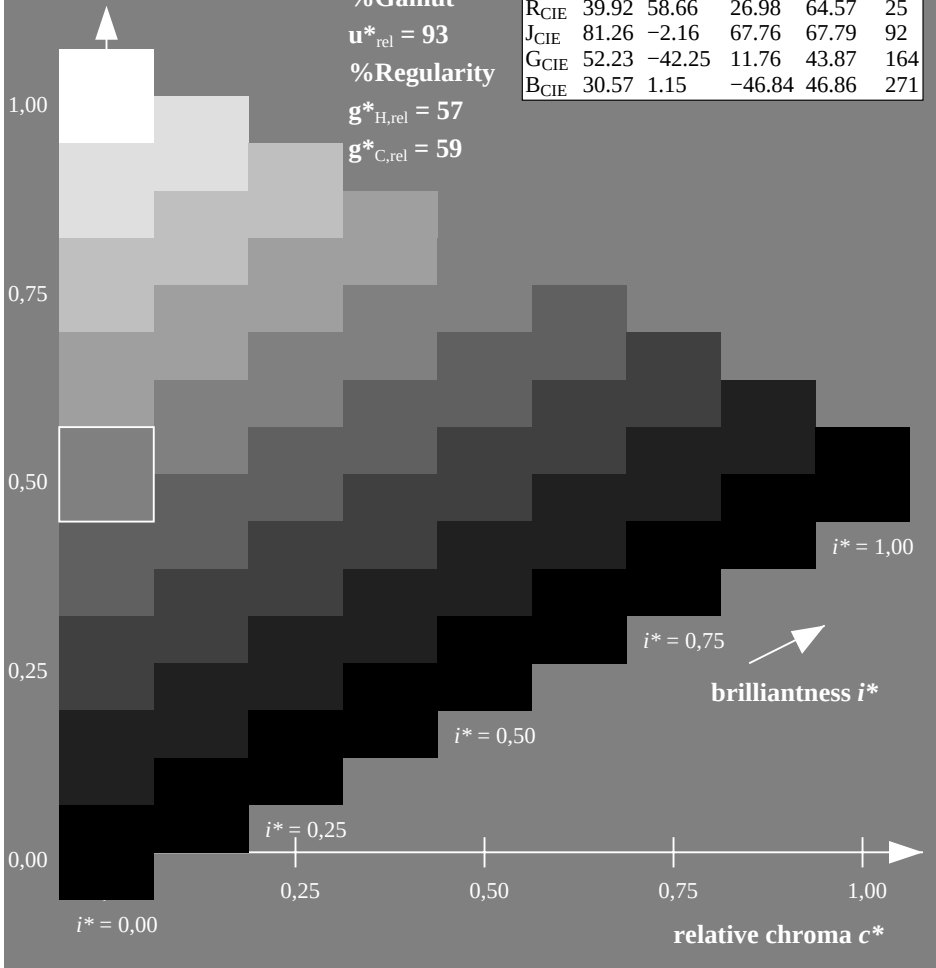
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

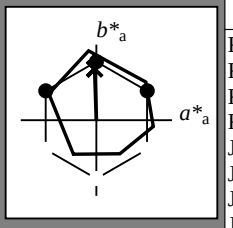
for hue *h = lab*h = 92/360 = 0.255**

lab*tch* and *lab*nch

D65: hue J

LCH*Ma: 86 88 92

olv*Ma: 1.0 0.9 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

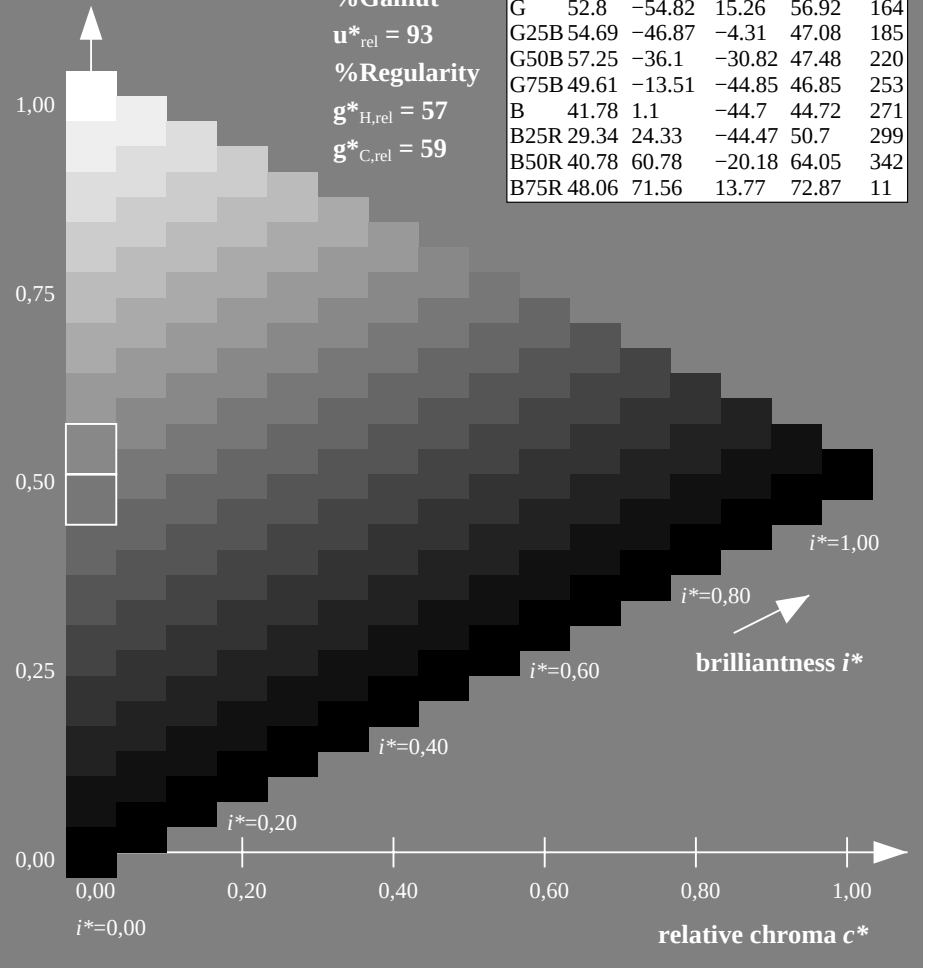
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 92/360 = 0.255 (left) Page 48/60 ZE620−7N, 16 step scales for constant CIELAB hue 92/360 = 0.255 (right) yn

BAM-test chart ZE62; Colorimetric systems, Page 48/60
D65: 9 and 16 step colour scales for 10 hues

input: *rgb / cmy0 set(rgb/cmyk)color*
output: *−>cmy0* setcmykcolor*

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

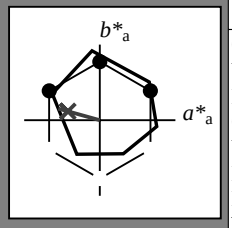
for hue *h* = lab*h = 164/360 = 0.457*

lab*tch* and *lab*nch

D65: hue G

LCH*Ma: 53 57 164

olv*Ma: 0.0 1.0 0.25



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

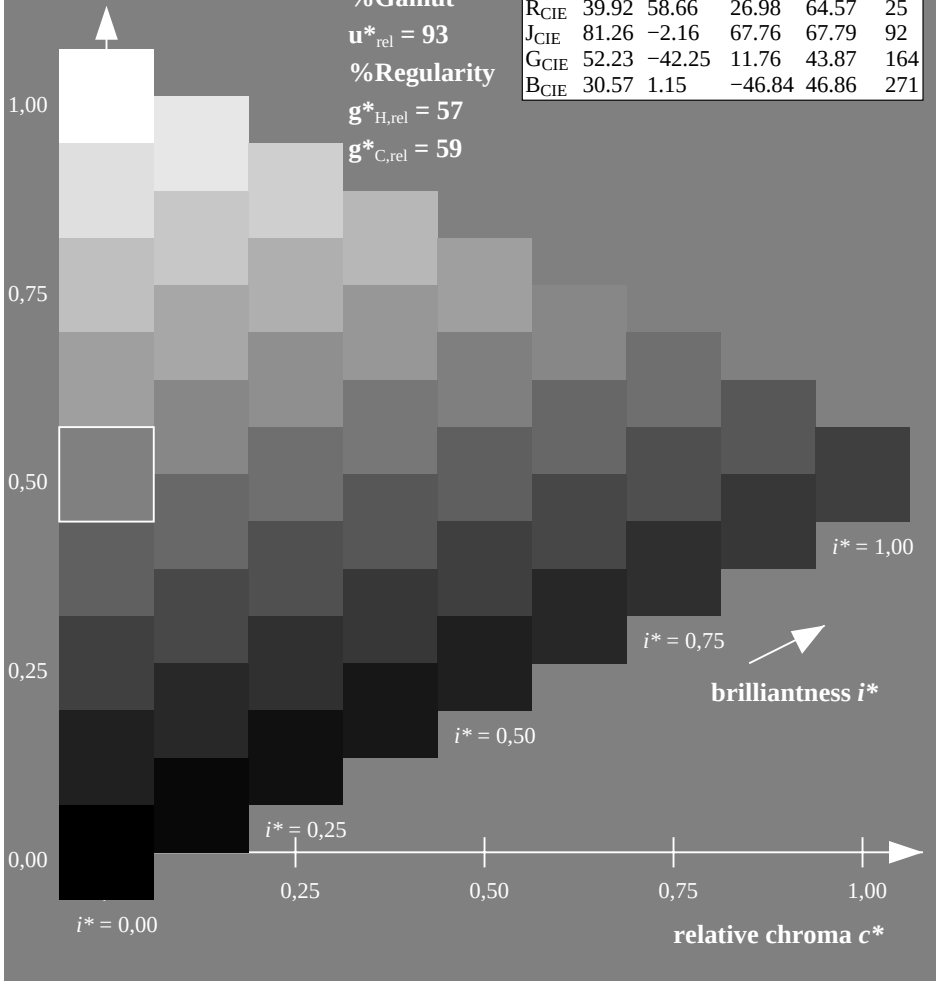
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

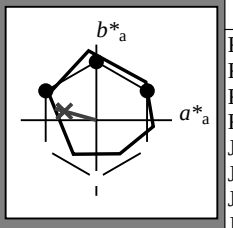
for hue *h* = lab*h = 164/360 = 0.457*

lab*tch* and *lab*nch

D65: hue G

LCH*Ma: 53 57 164

olv*Ma: 0.0 1.0 0.25



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

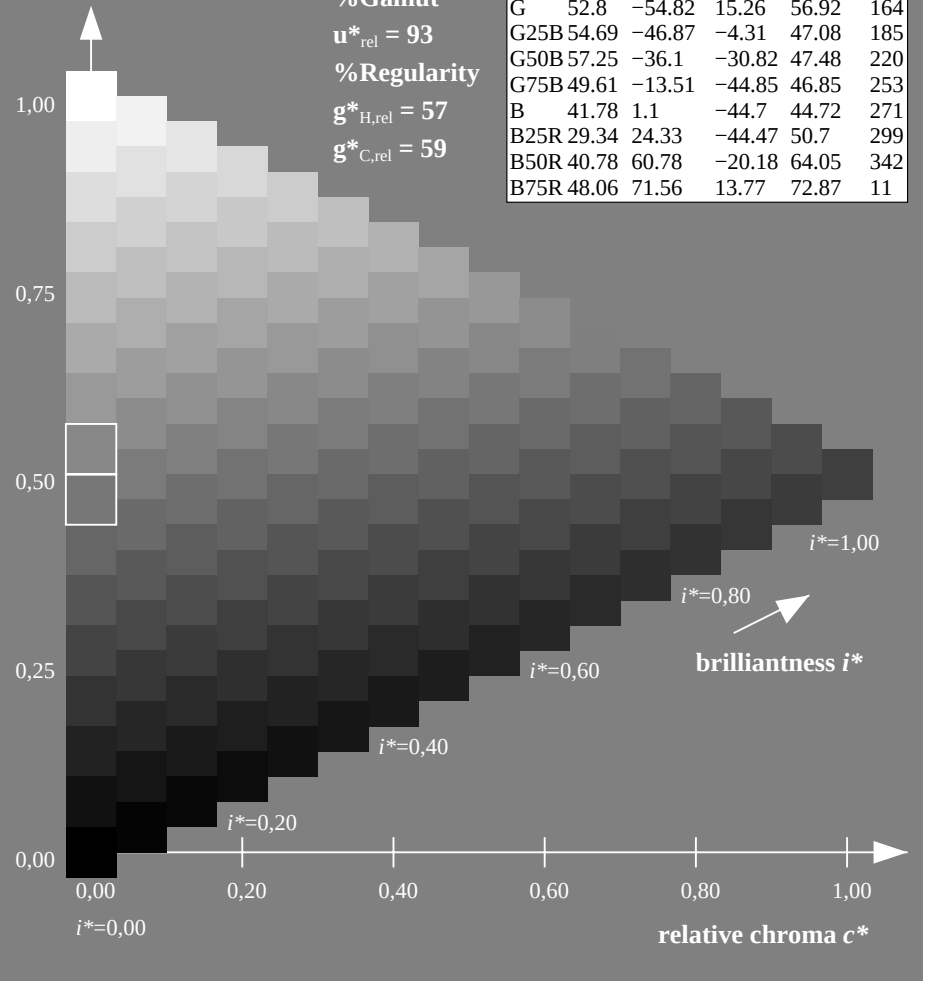
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 164/360 = 0.457 (left) Page 49/60 ZE620−7N, 16 step scales for constant CIELAB hue 164/360 = 0.457 (right) yn

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1
BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

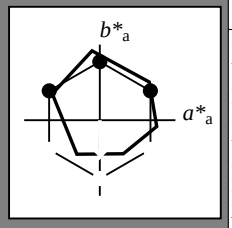
for hue *h = lab*h = 271/360 = 0.754**

lab*tch* and *lab*nch

D65: hue B

LCH*Ma: 42 45 271

olv*Ma: 0.0 0.49 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	47.94	65.39	50.52	82.63	38
Y_{Ma}	90.37	−10.26	91.75	92.32	96
L_{Ma}	50.9	−62.83	34.96	71.91	151
C_{Ma}	58.62	−30.34	−45.01	54.3	236
V_{Ma}	25.72	31.1	−44.4	54.22	305
M_{Ma}	48.13	75.28	−8.36	75.74	354
N_{Ma}	18.01	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

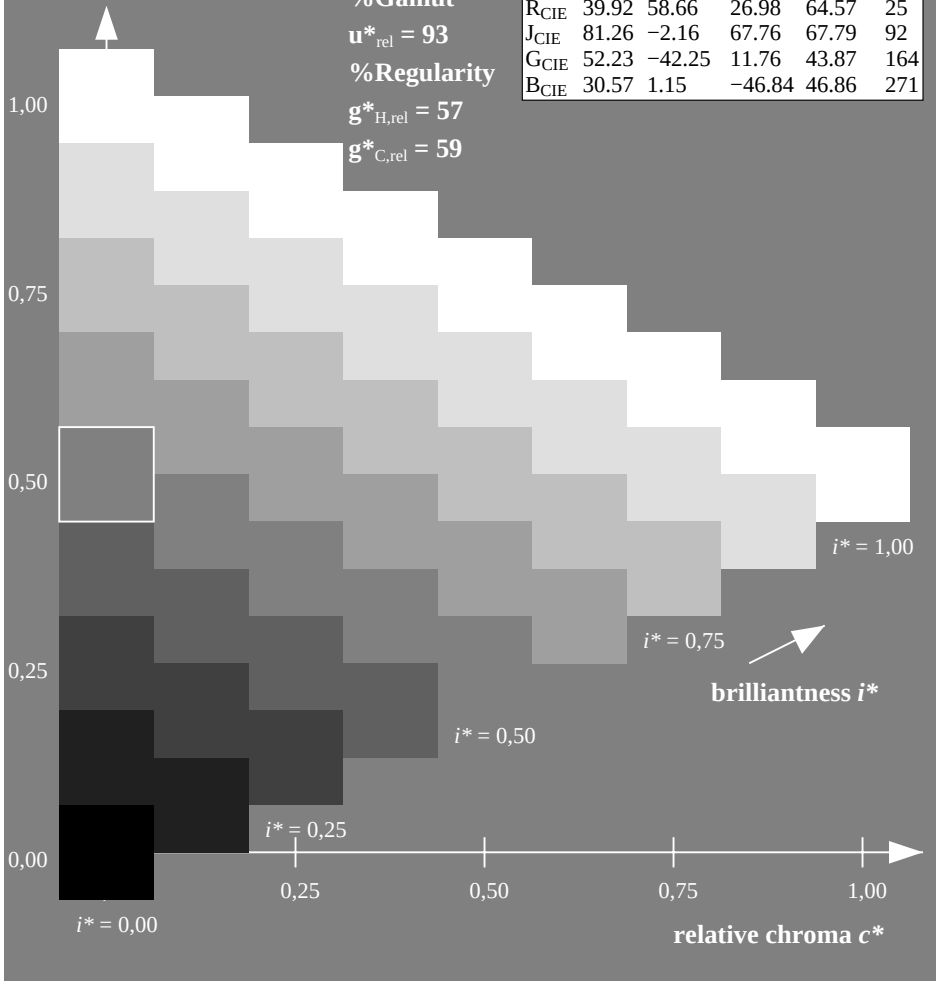
%Gamut

u^*_{rel} = 93

%Regularity

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

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



Output: Colorimetric Offset Reflective System ORS18

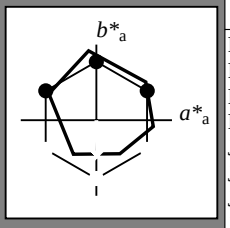
for hue *h = lab*h = 271/360 = 0.754**

lab*tch* and *lab*nch

D65: hue B

LCH*Ma: 42 45 271

olv*Ma: 0.0 0.49 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	48.0	68.58	31.54	75.48	25
R25J	50.11	61.52	52.63	80.96	41
R50J	62.87	38.77	65.02	75.71	59
R75J	74.87	17.37	76.69	78.63	77
J	86.19	−2.8	87.69	87.73	92
J25G	84.01	−18.73	82.6	84.7	103
J50G	71.17	−35.83	64.13	73.46	119
J75G	56.99	−54.71	43.72	70.05	141
G	52.8	−54.82	15.26	56.92	164
G25B	54.69	−46.87	−4.31	47.08	185
G50B	57.25	−36.1	−30.82	47.48	220
G75B	49.61	−13.51	−44.85	46.85	253
B	41.78	1.1	−44.7	44.72	271
B25R	29.34	24.33	−44.47	50.7	299
B50R	40.78	60.78	−20.18	64.05	342
B75R	48.06	71.56	13.77	72.87	11

triangle lightness *t**

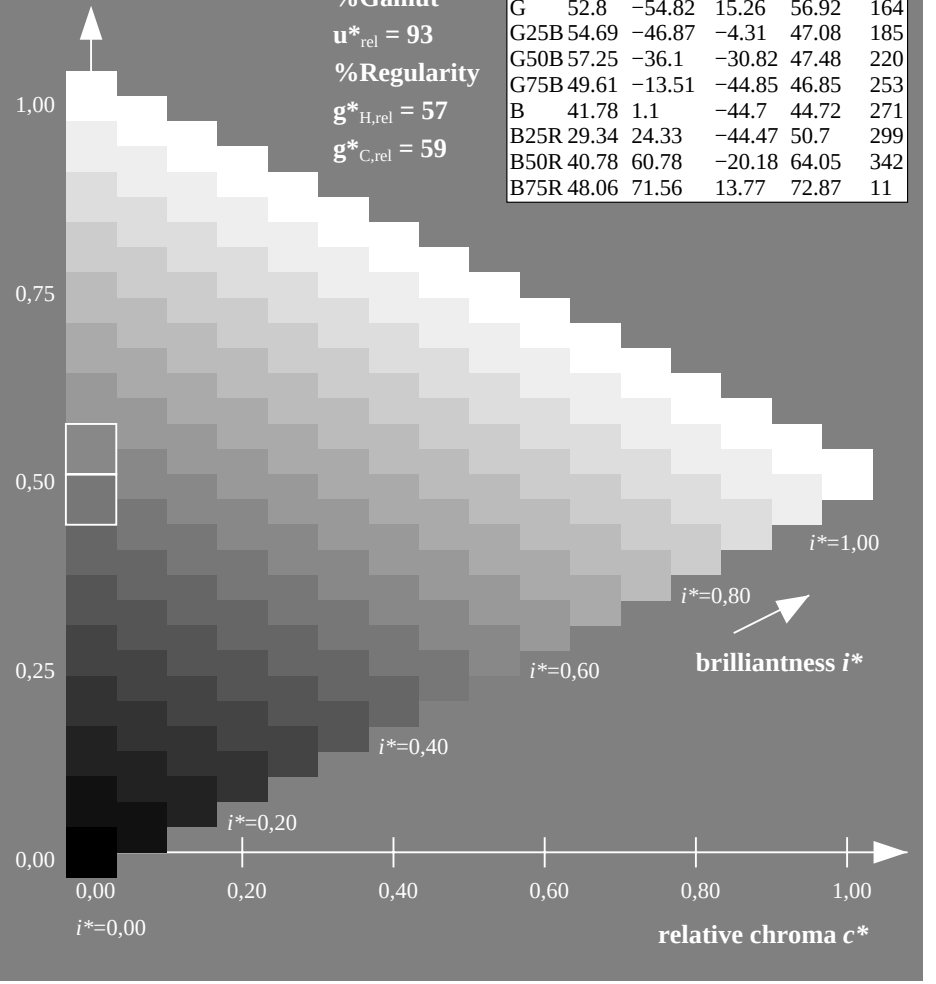
%Gamut

u^*_{rel} = 93

%Regularity

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

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



ZE620−7N, 9 step scales for constant CIELAB hue 271/360 = 0.754 (left) Page 50/60 ZE620−7N, 16 step scales for constant CIELAB hue 271/360 = 0.754 (right) yn

See for similar files: http://www.ps.bam.de/ZE62/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1
BAM registration: 20071001-ZE62/10L/L62E00NA.PS/.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems