

See for similar files: <http://www.ps.bam.de/ZE92/>; www.ps.bam.de/ZE.HTM
 Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1

BAM registration: 20071001-ZEE9210L/L92E00NA.PS.TXT BAM material: code=rh4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

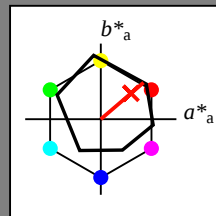
for hue $h^* = lab^*h = 41/360 = 0.113$

*lab*tch* and *lab*nch*

D65: hue R25J

LCH*Ma: 54 74 41

olv*Ma: 1.0 0.05 0.0



%Gamut

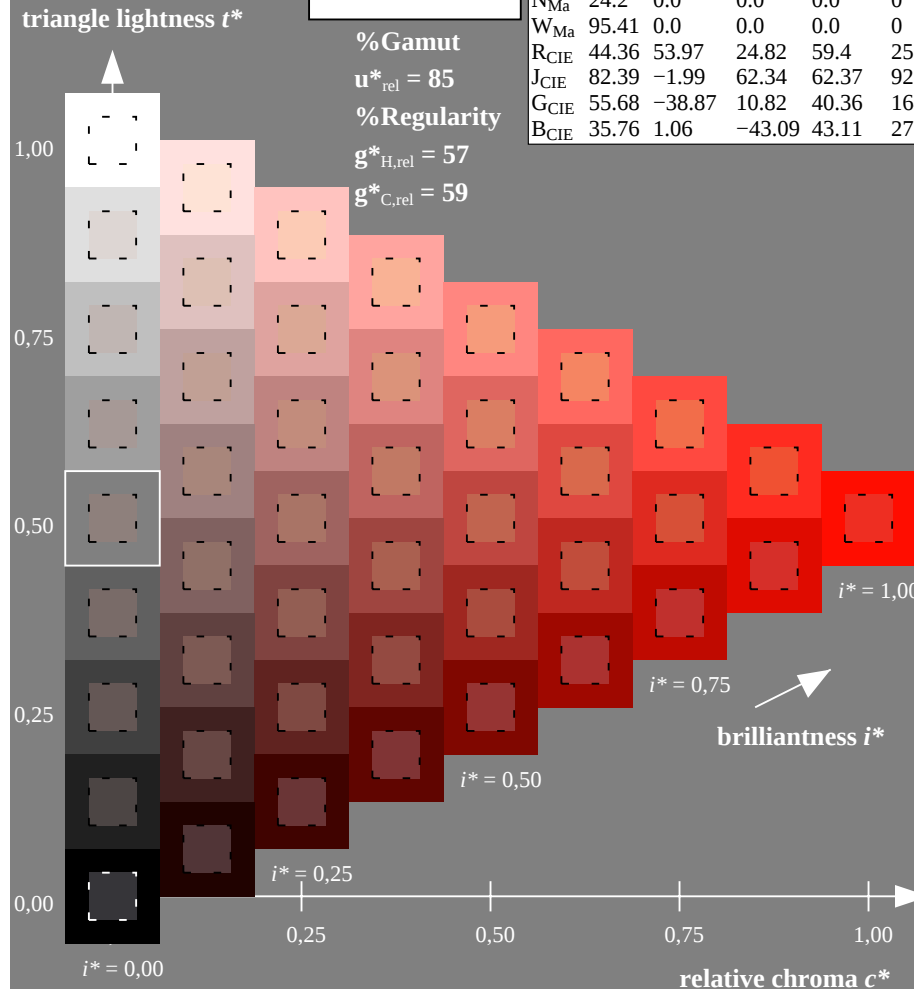
$$u_{\text{rel}}^* = 85$$

%Regularity

$$g^*_{H_{rel}} = 57$$

■ $g^*_{C_{rel}} = 59$

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



ZE920-7N, 9 step scales for constant CIELAB hue 41/360 = 0.113 (left)

BAM-test chart ZE92: Colorimetric systems. Page 2/96

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

Output: Colorimetric Offset Reflective System ORS18

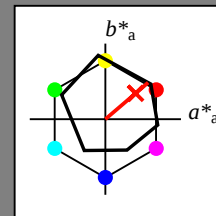
for hue $h^* = lab^*h = 41/360 = 0.113$

lab*tch* and *lab*nch

D65: hue R25J

LCH*Ma: 54 74 41

olv*Ma: 1.0 0.05 0.0



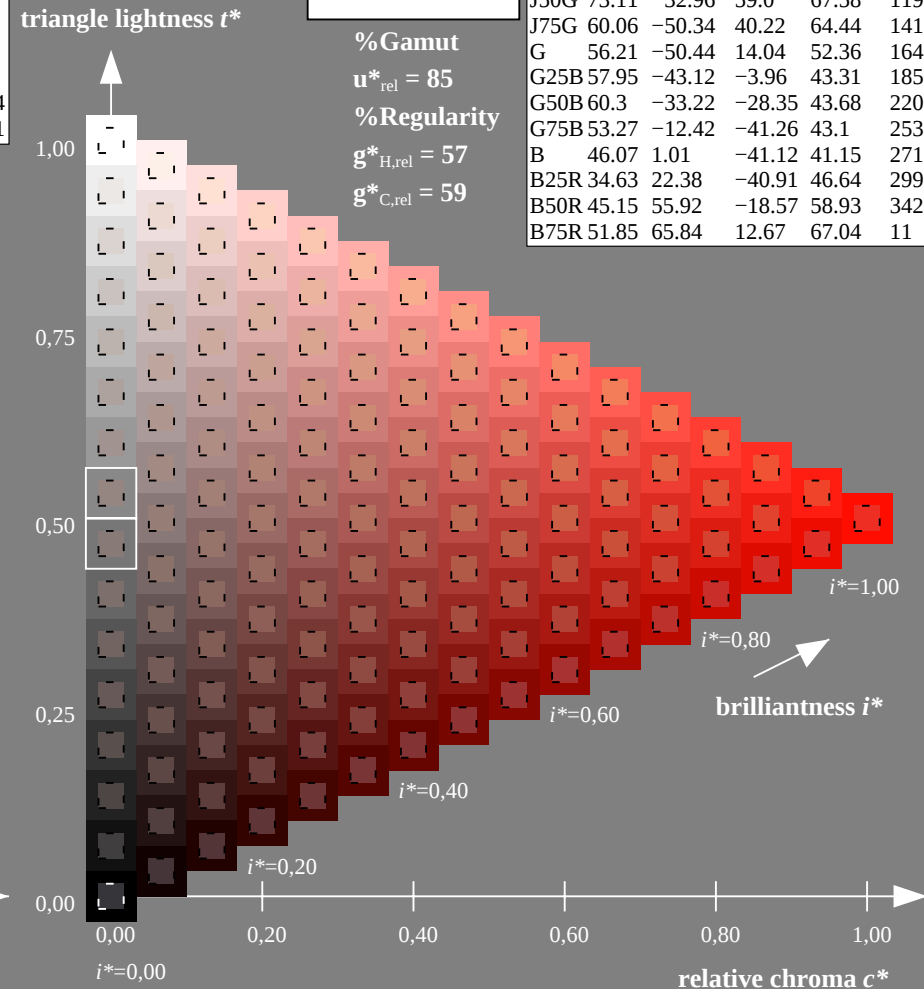
% Gamut

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

%Regularity

$$g^*_{H_{rel}} = 57$$
$$g^*_{C_{rel}} = 59$$

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



ZE920-7N, 16 step scales for constant CIELAB hue 41/360 = 0.113 (right)

```
input: rrgb / cmv0 set(rrgb/cmyk)color
```

output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 59/360 = 0.164$

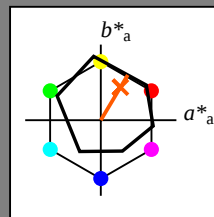
lab^*tch and lab^*nch

D65: hue R50J

LCH*Ma: 65 70 59

olv*Ma: 1.0 0.35 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 59/360 = 0.164$

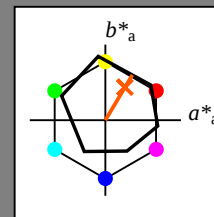
lab^*tch and lab^*nch

D65: hue R50J

LCH*Ma: 65 70 59

olv*Ma: 1.0 0.35 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

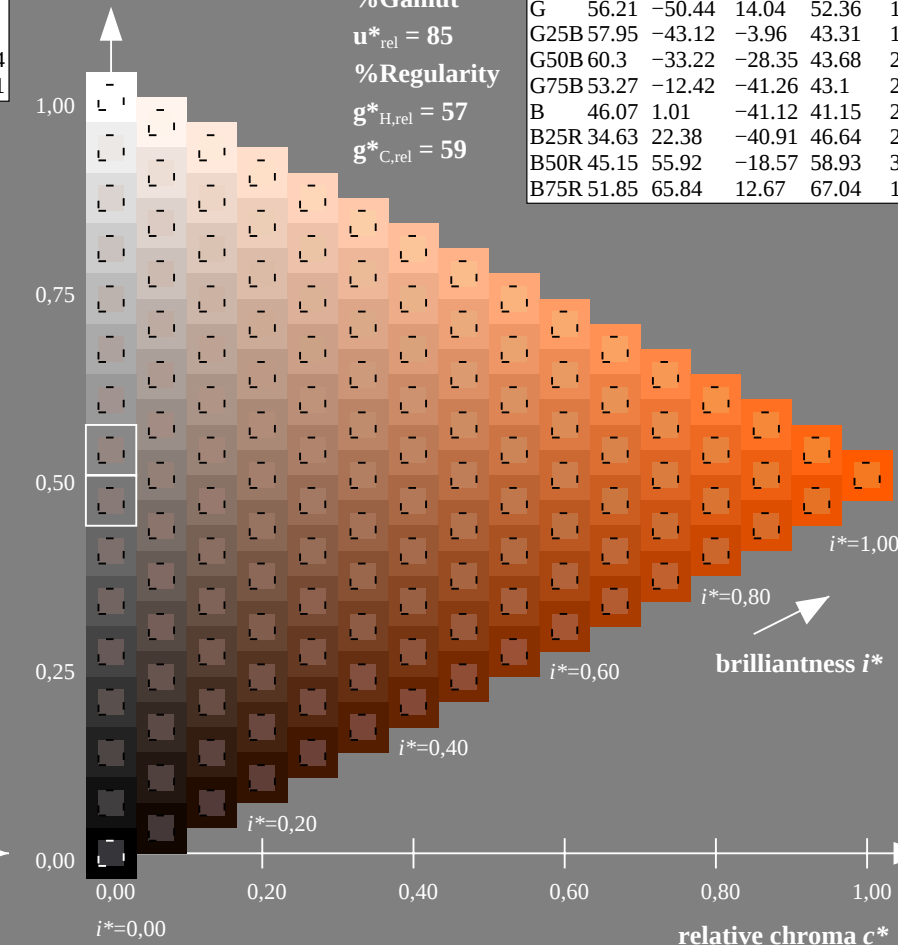
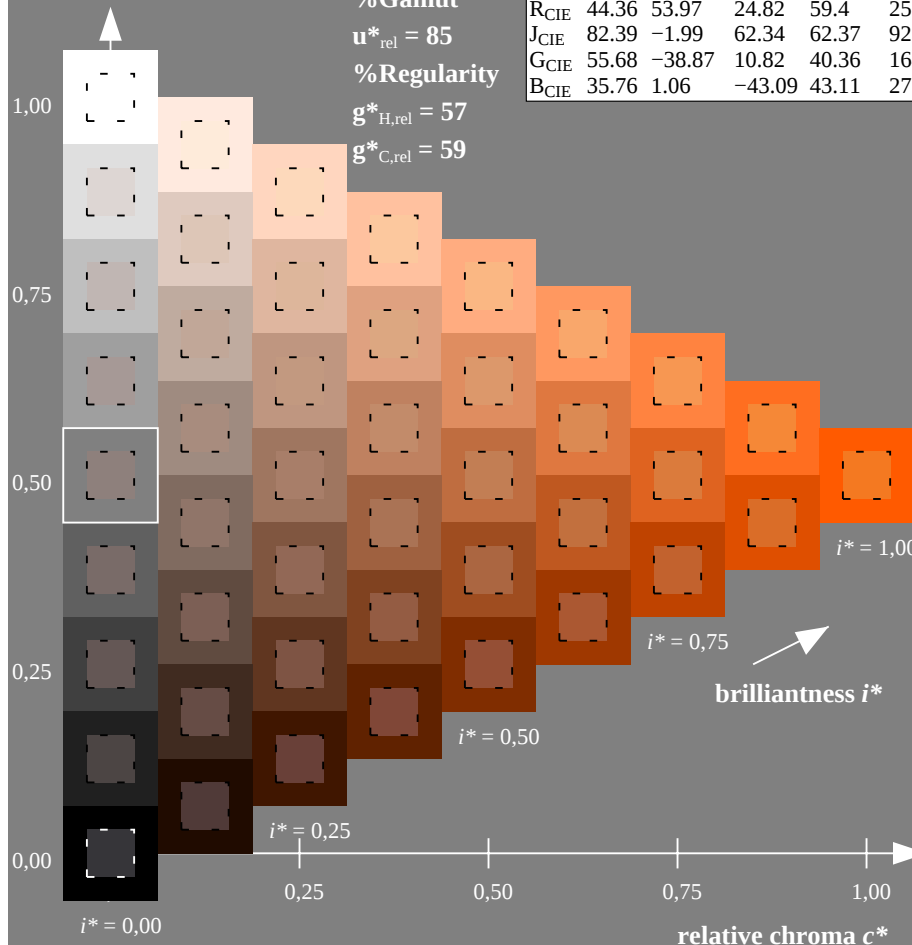
%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11



ZE920-7N, 9 step scales for constant CIELAB hue 59/360 = 0.164 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 59/360 = 0.164 (right)

BAM-test chart ZE92; Colorimetric systems, Page 3/96

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

input: $rgb / cmY0 set(rgb/cmyk)color$

output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 77/360 = 0.215$

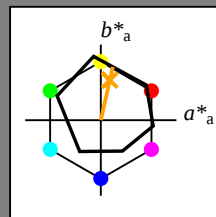
lab^*tch and lab^*nch

D65: hue R75J

LCH*Ma: 77 72 77

olv*Ma: 1.0 0.63 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 77/360 = 0.215$

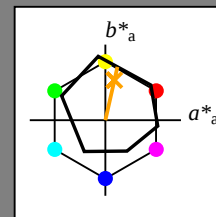
lab^*tch and lab^*nch

D65: hue R75J

LCH*Ma: 77 72 77

olv*Ma: 1.0 0.63 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11

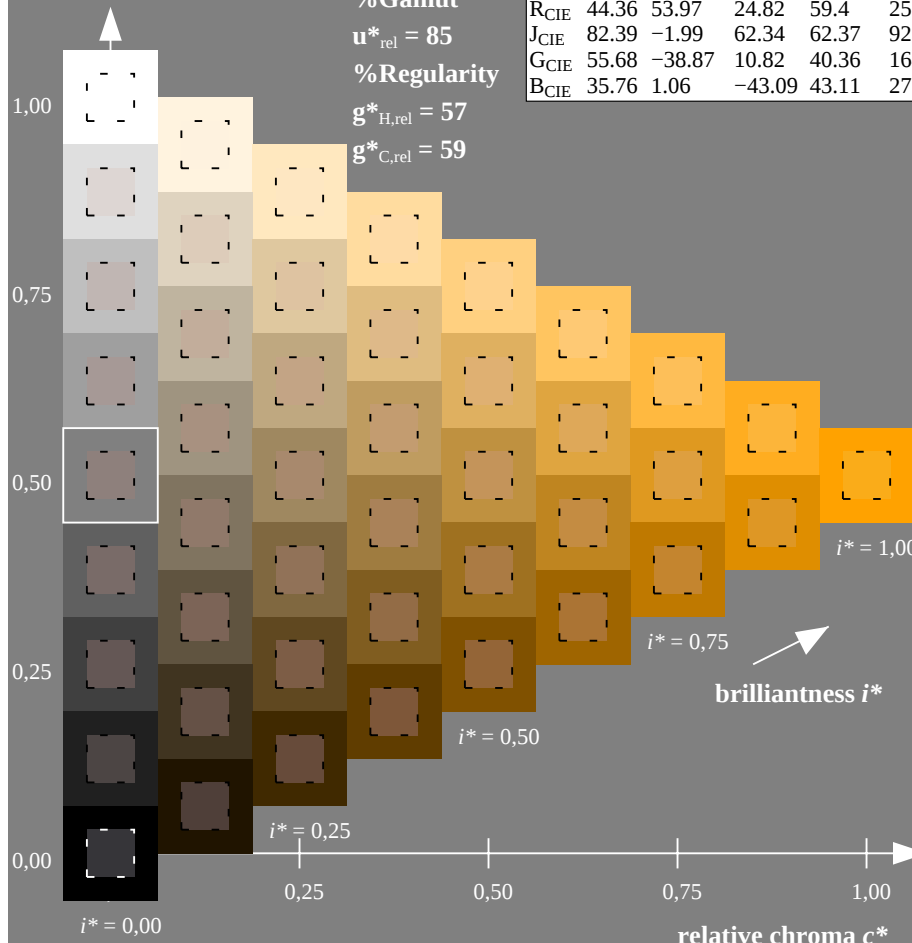
%Gamut

$u^*_{rel} = 85$

%Regularity

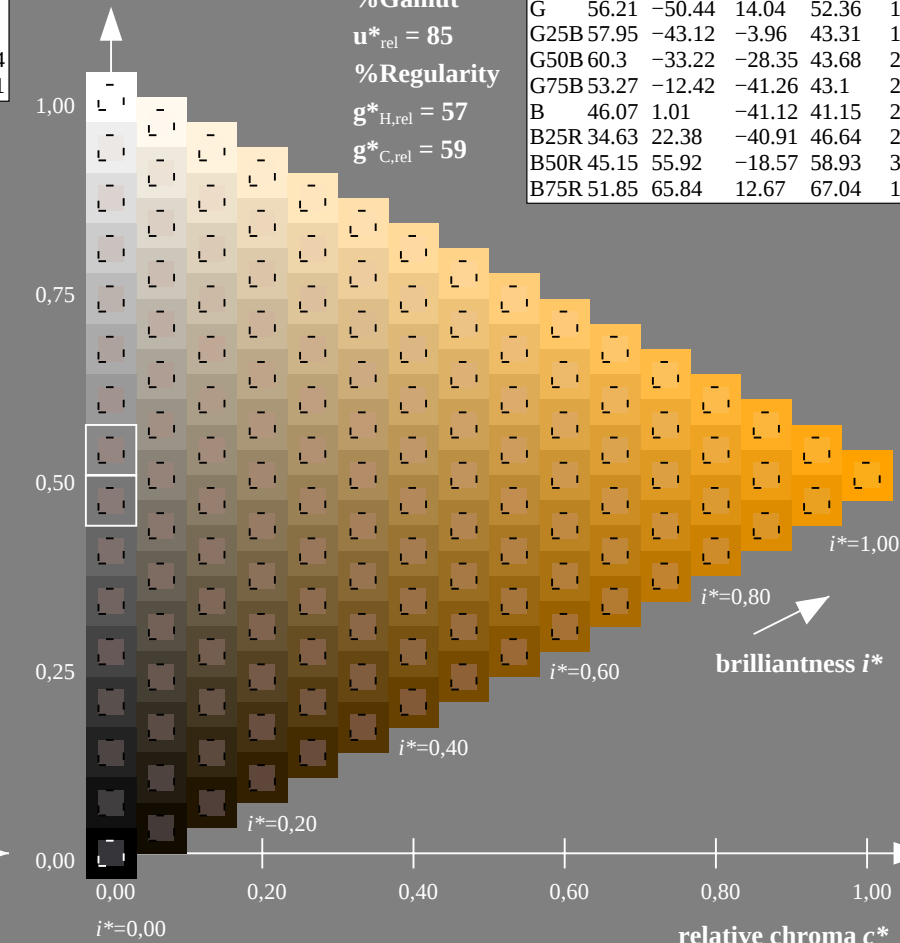
$g^*_{H,rel} = 57$

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



ZE920-7N, 9 step scales for constant CIELAB hue 77/360 = 0.215 (left)

BAM-test chart ZE92; Colorimetric systems, Page 4/96
D65: 9 and 16 step colour scales for 16 elementary hues



ZE920-7N, 16 step scales for constant CIELAB hue 77/360 = 0.215 (right)

input: $rgb / cmY0 set(rgb/cmyk)color$
output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

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

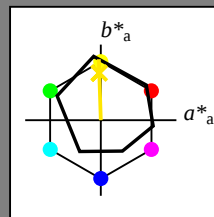
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 87 81 92

olv*Ma: 1.0 0.9 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

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

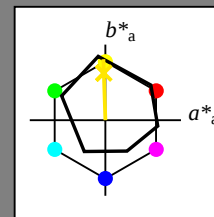
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 87 81 92

olv*Ma: 1.0 0.9 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11

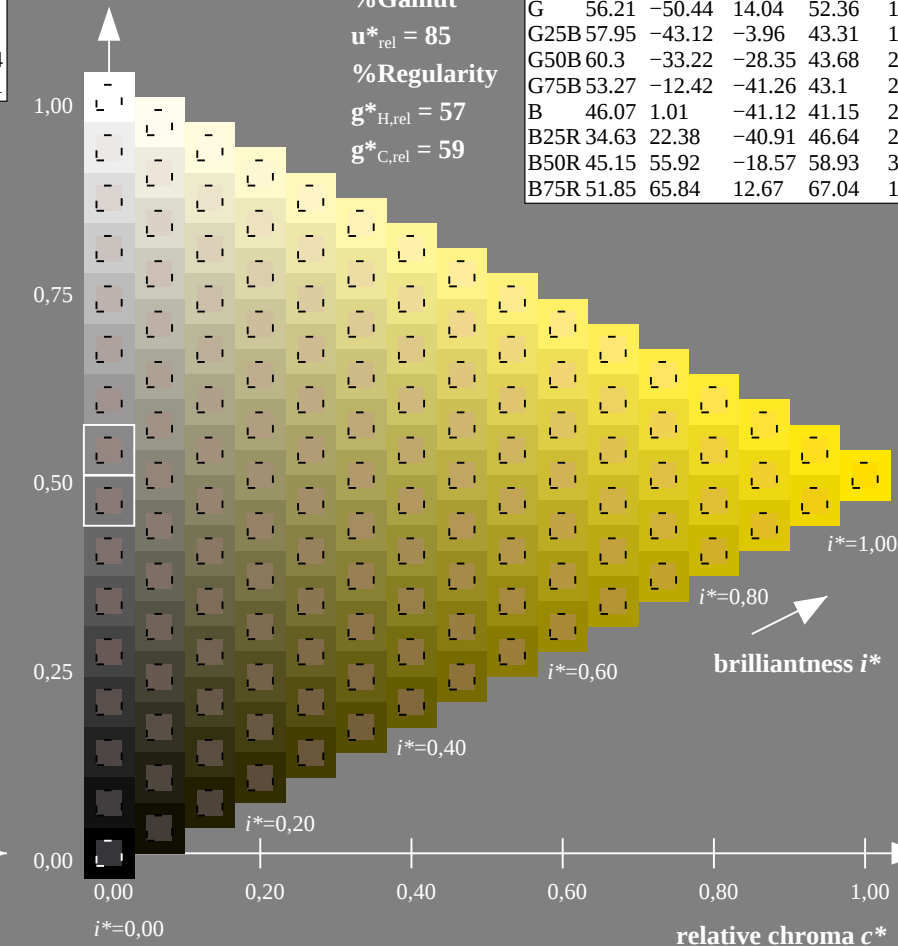
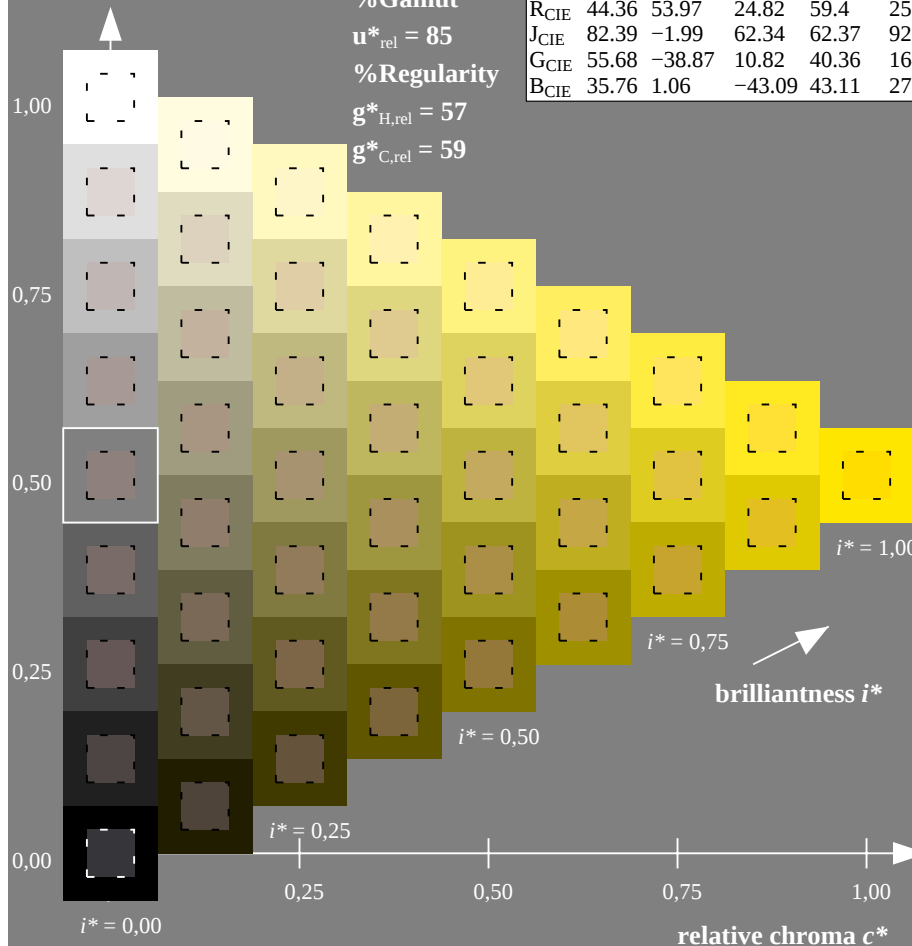
%Gamut

$u^*_{rel} = 85$

%Regularity

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

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



ZE920-7N, 9 step scales for constant CIELAB hue 92/360 = 0.255 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 92/360 = 0.255 (right)

BAM-test chart ZE92; Colorimetric systems, Page 5/96

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

input: $rgb / cmY0 set(rgb/cmyk)color$

output: no change compared to input

BAM registration: 20071001-ZE92/10L/L92E00NA.PS/.TXT BAM material: code=rhdata
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 119/360 = 0.331$

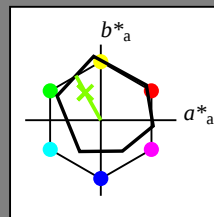
lab^*tch and lab^*nch

D65: hue J50G

LCH*Ma: 73 68 119

olv*Ma: 0.51 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 119/360 = 0.331$

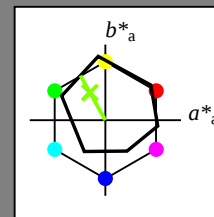
lab^*tch and lab^*nch

D65: hue J50G

LCH*Ma: 73 68 119

olv*Ma: 0.51 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

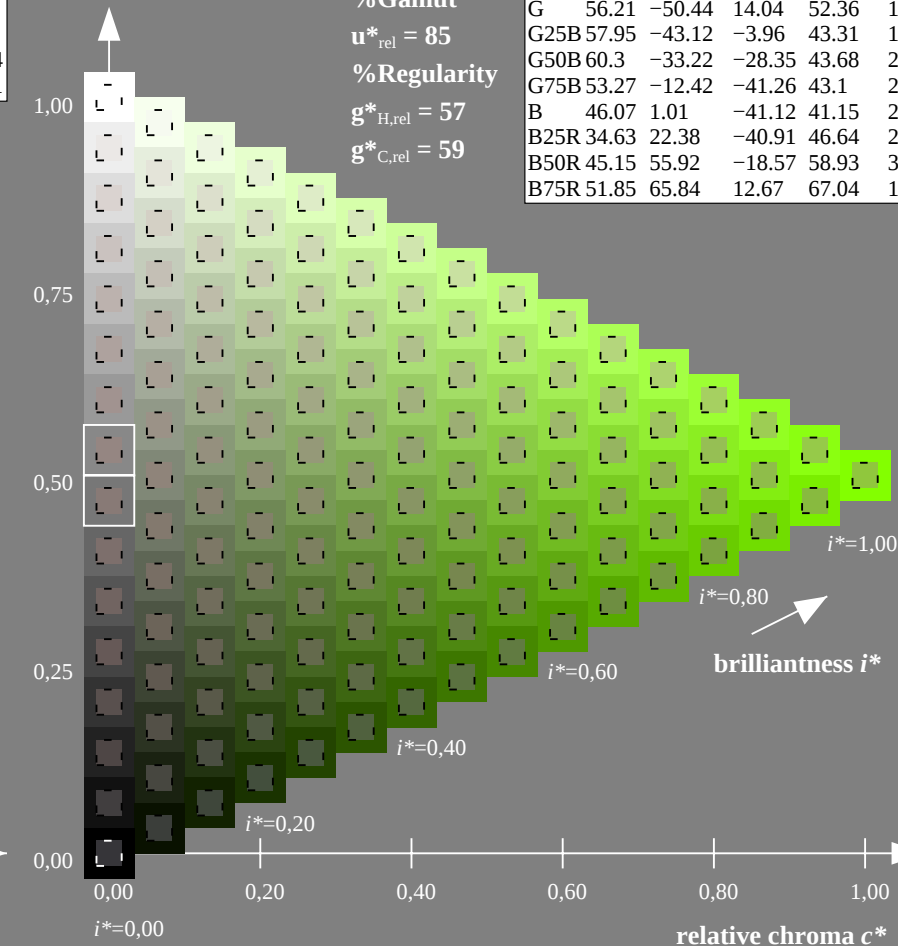
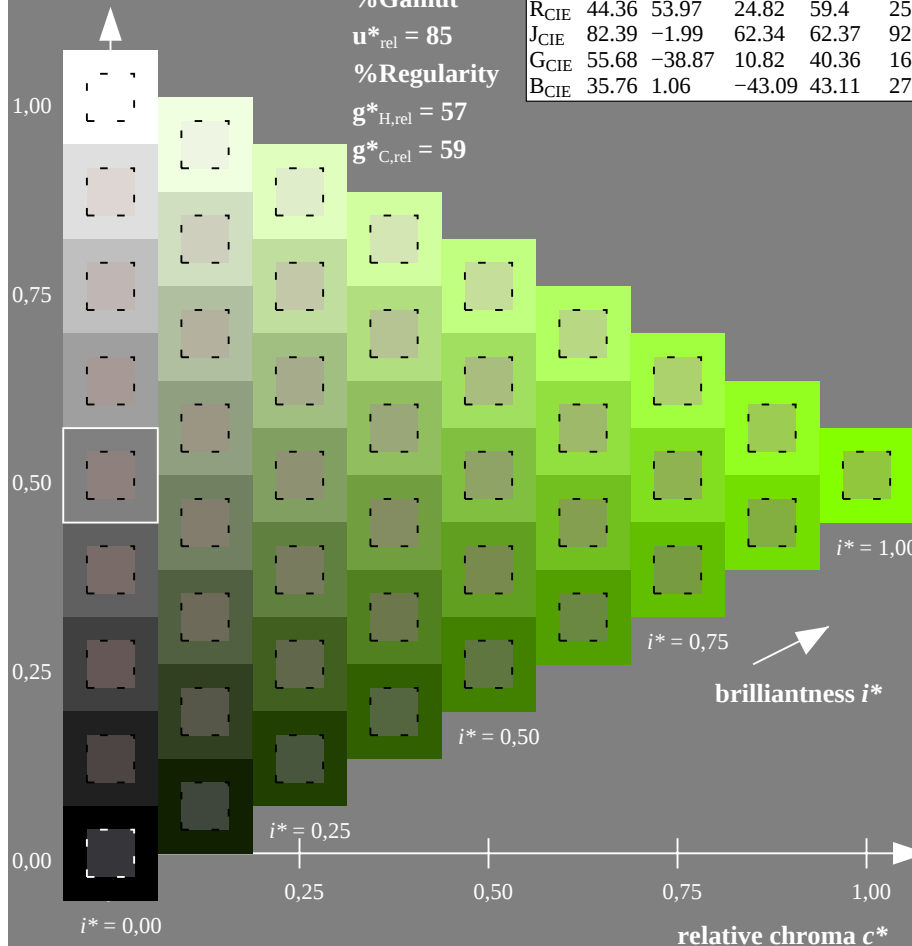
%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11



ZE920-7N, 9 step scales for constant CIELAB hue 119/360 = 0.331 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 119/360 = 0.331 (right)

BAM-test chart ZE92; Colorimetric systems, Page 7/96

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

input: $rgb / cmY0 set(rgb/cmyk)color$

output: no change compared to input

BAM registration: 20071001-ZE92/10L/L92E00NA.PS/.TXT
application for evaluation and measurement of printer or monitor systems
BAM material: code=rhdata

See for similar files: <http://www.ps.bam.de/ZE92/>; www.ps.bam.de/ZE.HTM
 Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1

BAM registration: 20071001-ZE92/10/L92E00NA.PS.TXT BAM material: code=rh4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

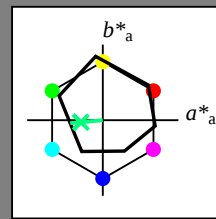
for hue $h^* = lab^*h = 185/360 = 0.515$

*lab*tch* and *lab*nch*

D65: hue G25B

LCH*Ma: 58 43 185

olv*Ma: 0.0 1.0 0.49



%Gamut

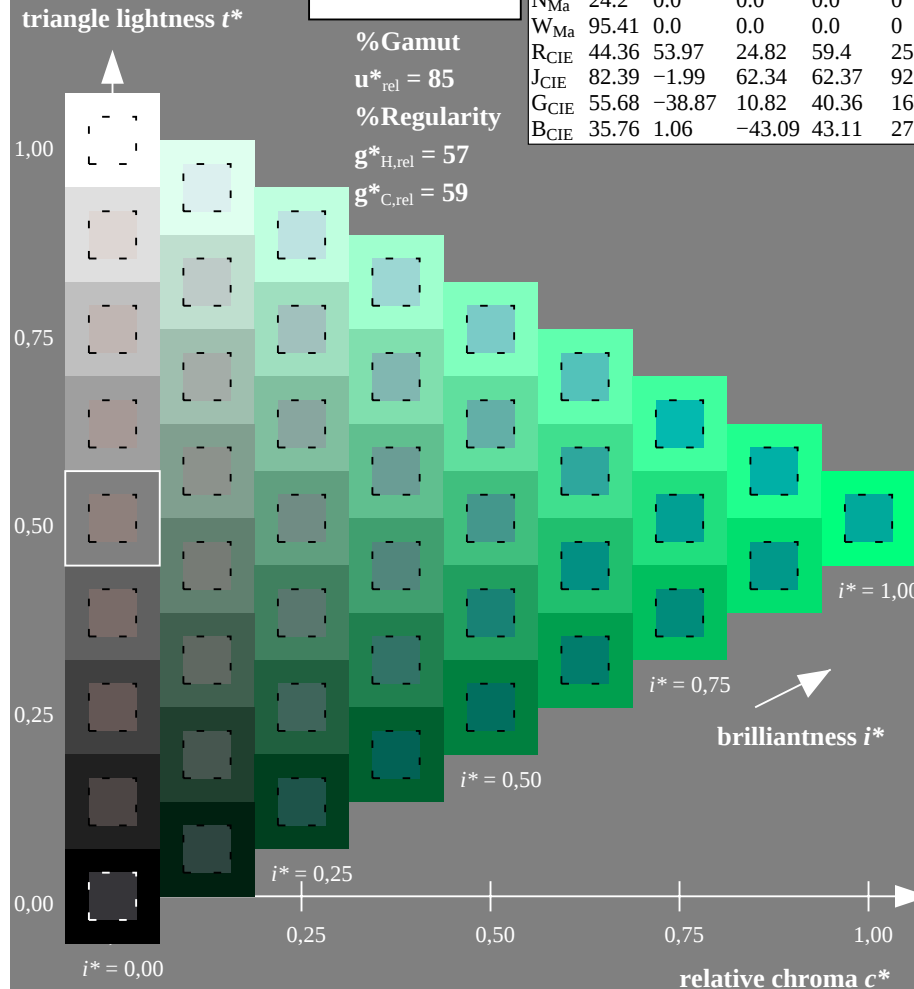
$$\mathbf{u}_{\text{rel}}^* = 85$$

%Regularity

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

g*_{C,rel} = 59

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



ZE920-7N, 9 step scales for constant CIELAB hue 185/360 = 0.515 (left)

BAM-test chart ZE92: Colorimetric systems, Page 10/96

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

Output: Colorimetric Offset Reflective System ORS18

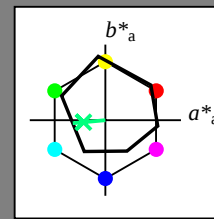
for hue $h^* = lab^*h = 185/360 = 0.515$

lab*tch and lab*nch

D65: hue G25B

LCH*Ma: 58 43 185

olv*Ma: 0.0 1.0 0.49



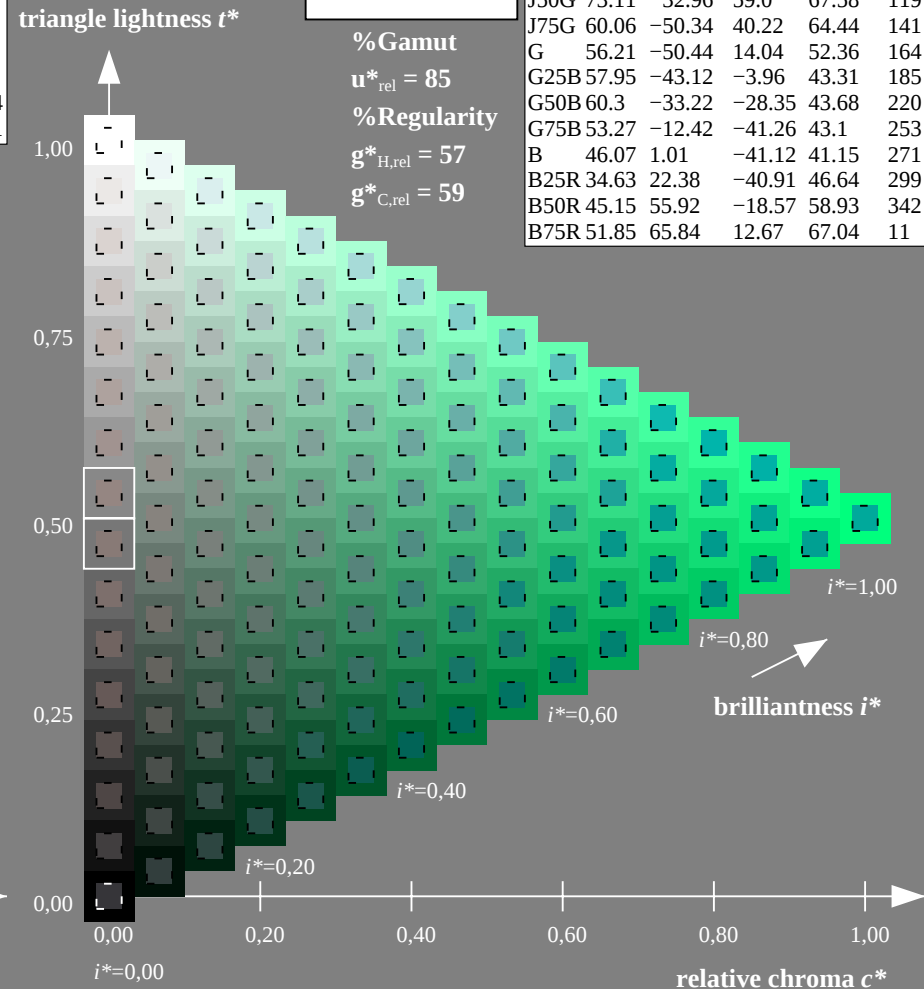
%Gamut

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

%Regularity

$$g^*_{H,rel} = 57$$
$$g^*_{C,rel} = 59$$

	ORS18; adapted (a)			CIELAB data	
	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11



ZE920-7N, 16 step scales for constant CIELAB hue 185/360 = 0.515 (right)

```
input: rgb / cmv0 set(rgb/cmyk)color
```

output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 220/360 = 0.612$

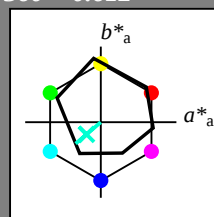
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 60 44 220

olv*Ma: 0.0 1.0 0.82

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 220/360 = 0.612$

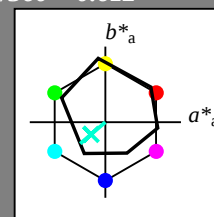
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 60 44 220

olv*Ma: 0.0 1.0 0.82

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11

triangle lightness t^*

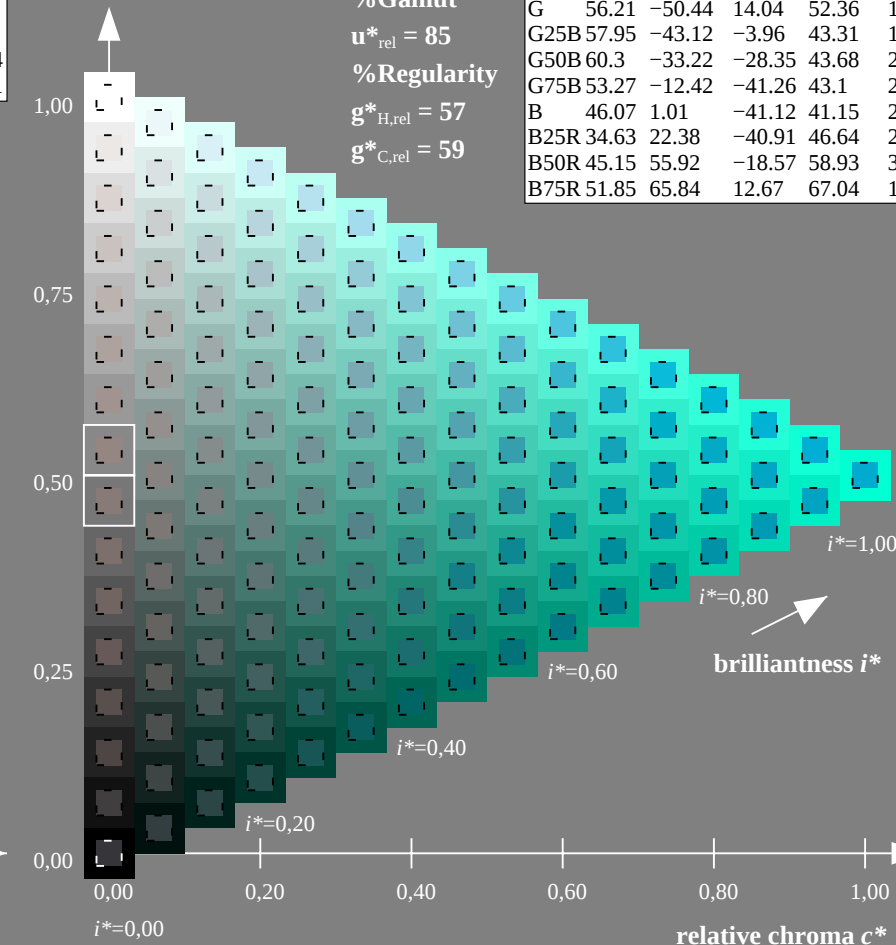
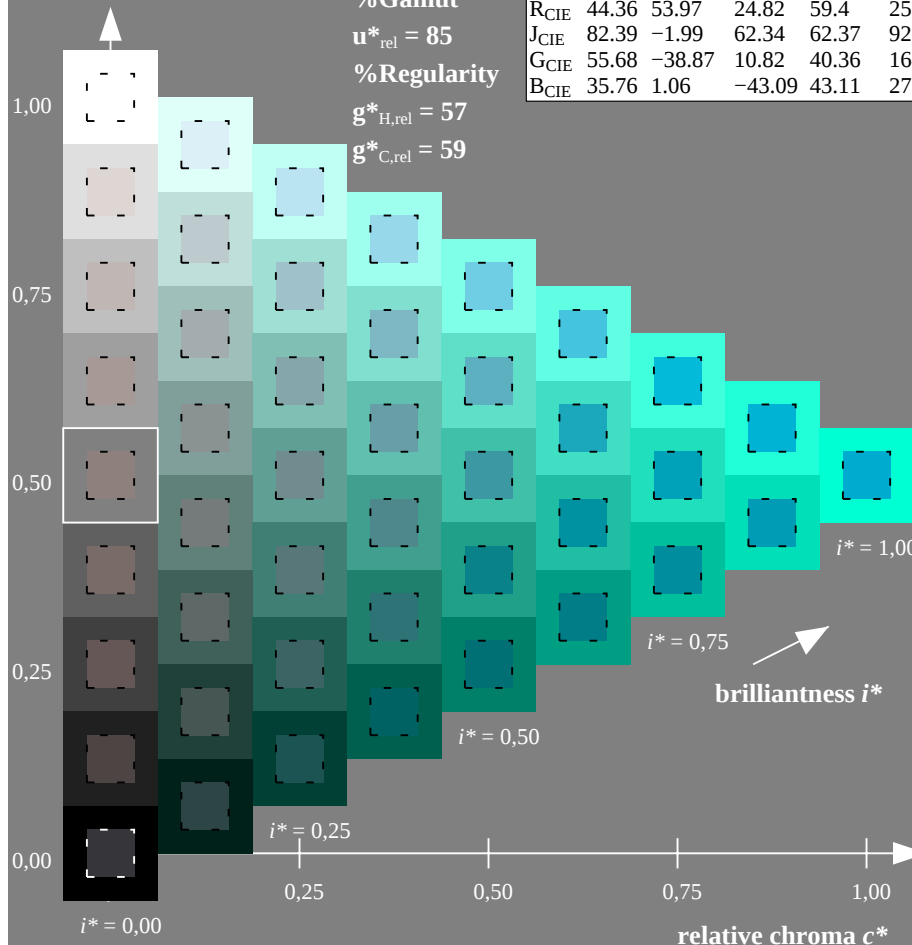
%Gamut

$u^*_{rel} = 85$

%Regularity

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

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



ZE920-7N, 9 step scales for constant CIELAB hue 220/360 = 0.612 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 220/360 = 0.612 (right)

BAM-test chart ZE92; Colorimetric systems, Page 11/96

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

input: $rgb / cmY0 set(rgb/cmyk)color$

output: no change compared to input

See for similar files: <http://www.ps.bam.de/ZE92/>; www.ps.bam.de/ZE.HTM
 Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1

BAM registration: 20071001-ZE9210I/L92E00NA.PS.TXT BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

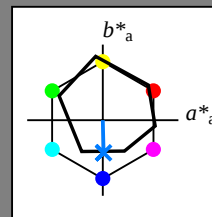
for hue $h^* = lab^*h = 271/360 = 0.754$

lab*tch and lab*nch

D65: hue B

LCH*Ma: 46 41 271

olv*Ma: 0.0 0.49 1.0



%Gamut

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

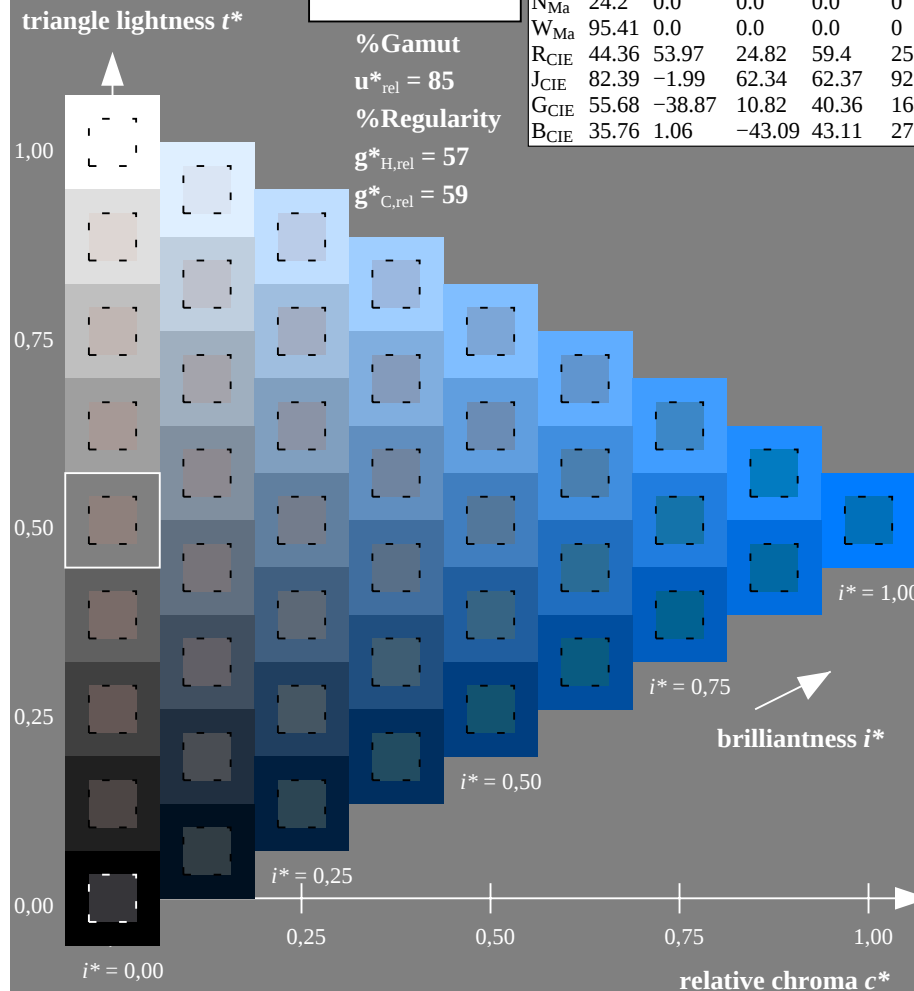
%Regularity

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

g*_{C,rel} = 59

ORS18; adapted (a) CIELAB data

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



ZE920-7N, 9 step scales for constant CIELAB hue $271/360 = 0.754$ (left)

BAM-test chart ZE92: Colorimetric systems. Page 13/96

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

Output: Colorimetric Offset Reflective System ORS18

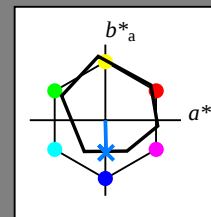
for hue $h^* = lab^*h = 271/360 = 0.754$

lab*tch and lab*nch

D65: hue B

LCH*Ma: 46 41 271

olv*Ma: 0.0 0.49 1.0



%Gamut

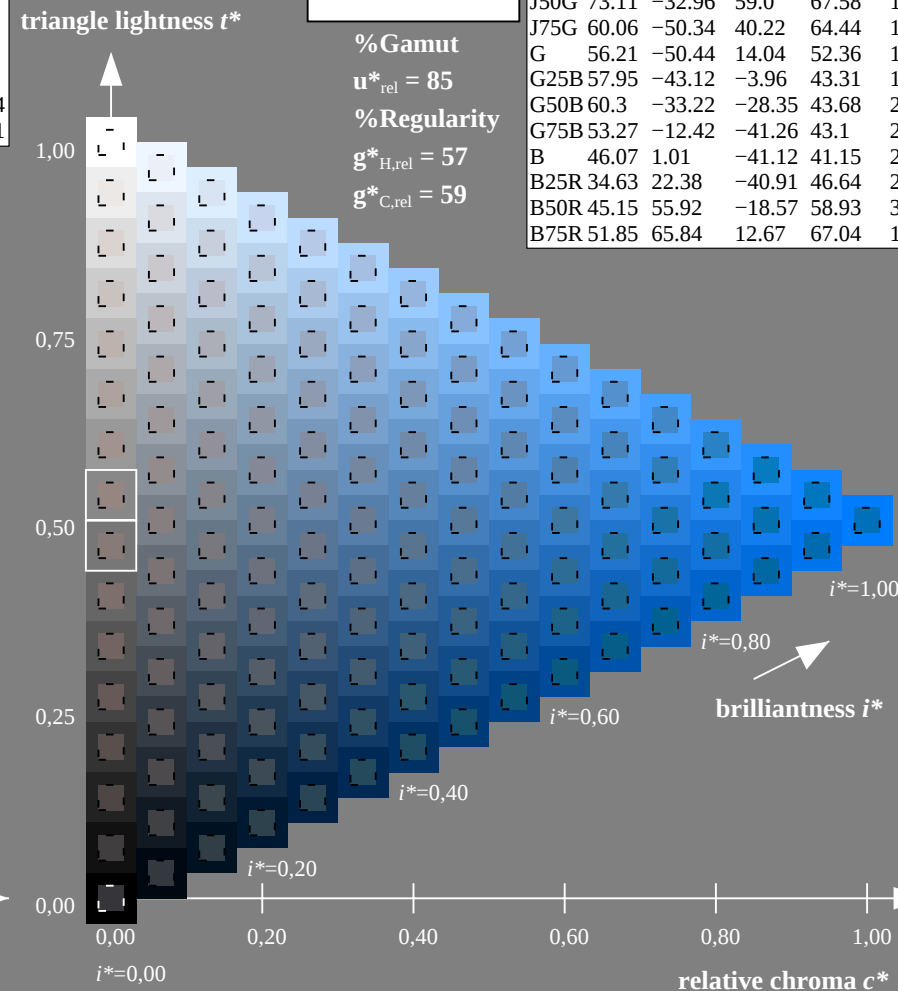
$$\mathbf{u}_{\text{rel}}^* = 85$$

%Regularity

$$g^*_{H,rel} = 57$$
$$g^*_{C,rel} = 59$$

ORS18; adapted (a) CIELAB data

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



ZE920-7N, 16 step scales for constant CIELAB hue 271/360 = 0.754 (right)

```
input: rqb / cmv0 set(rqb/cmvk)color
```

output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 299/360 = 0.83$

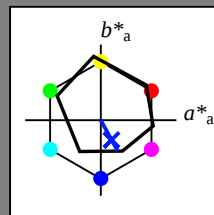
lab^*tch and lab^*nch

D65: hue B25R

LCH*Ma: 35 47 299

olv*Ma: 0.0 0.11 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 299/360 = 0.83$

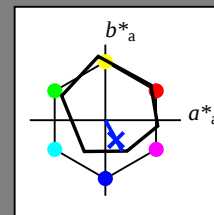
lab^*tch and lab^*nch

D65: hue B25R

LCH*Ma: 35 47 299

olv*Ma: 0.0 0.11 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

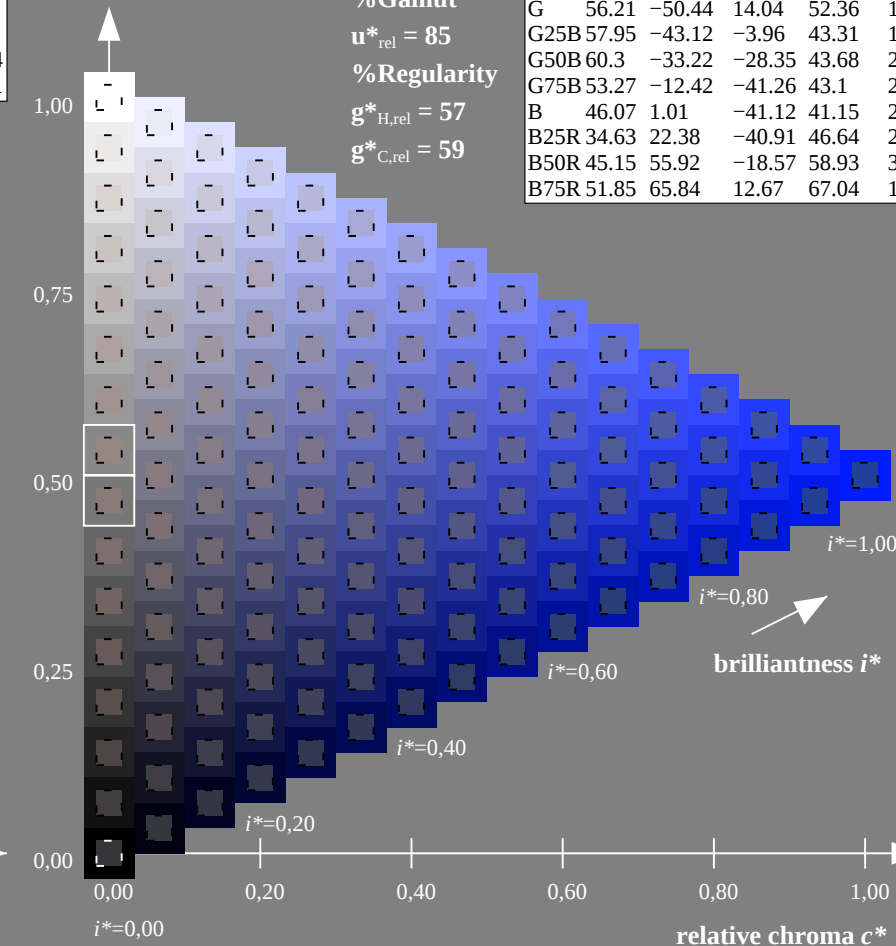
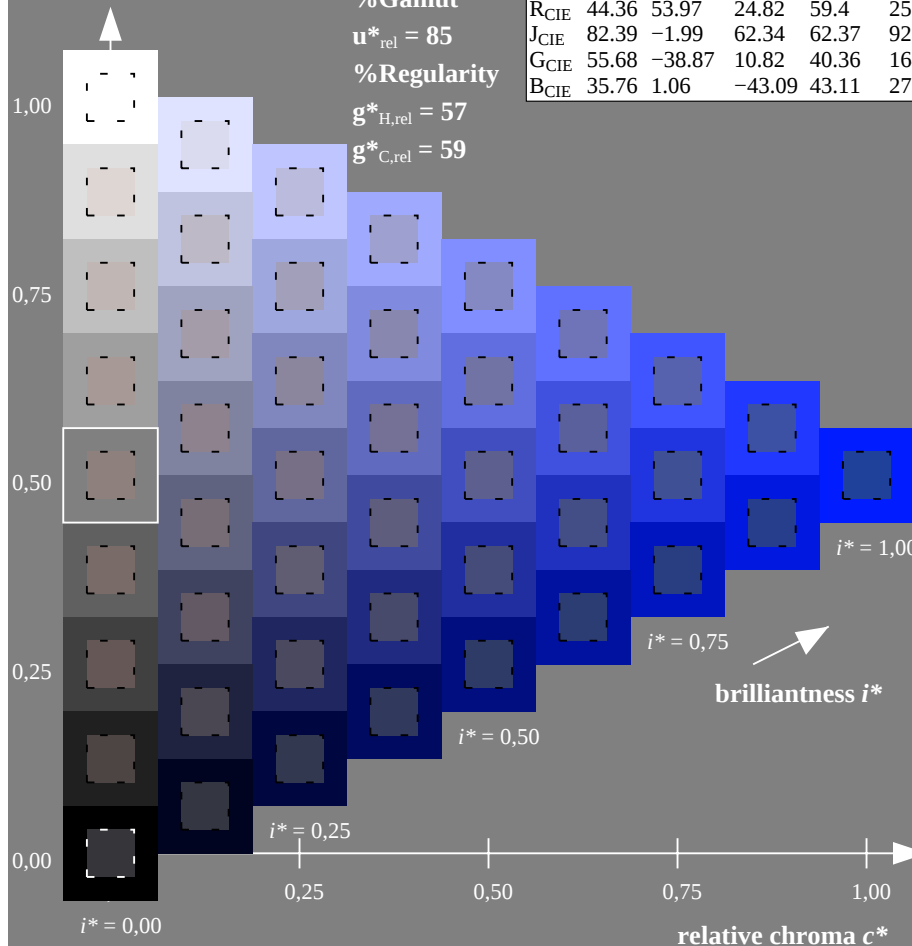
%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11



ZE920-7N, 9 step scales for constant CIELAB hue 299/360 = 0.83 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 299/360 = 0.83 (right)

BAM-test chart ZE92; Colorimetric systems, Page 14/96

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

input: $rgb / cmY0 set(rgb/cmyk)color$

output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 342/360 = 0.949$

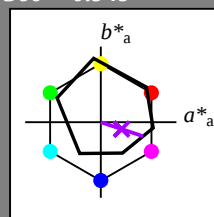
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 45 59 342

olv*Ma: 0.67 0.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 342/360 = 0.949$

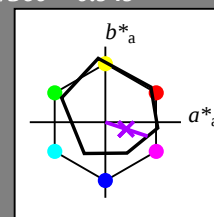
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 45 59 342

olv*Ma: 0.67 0.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

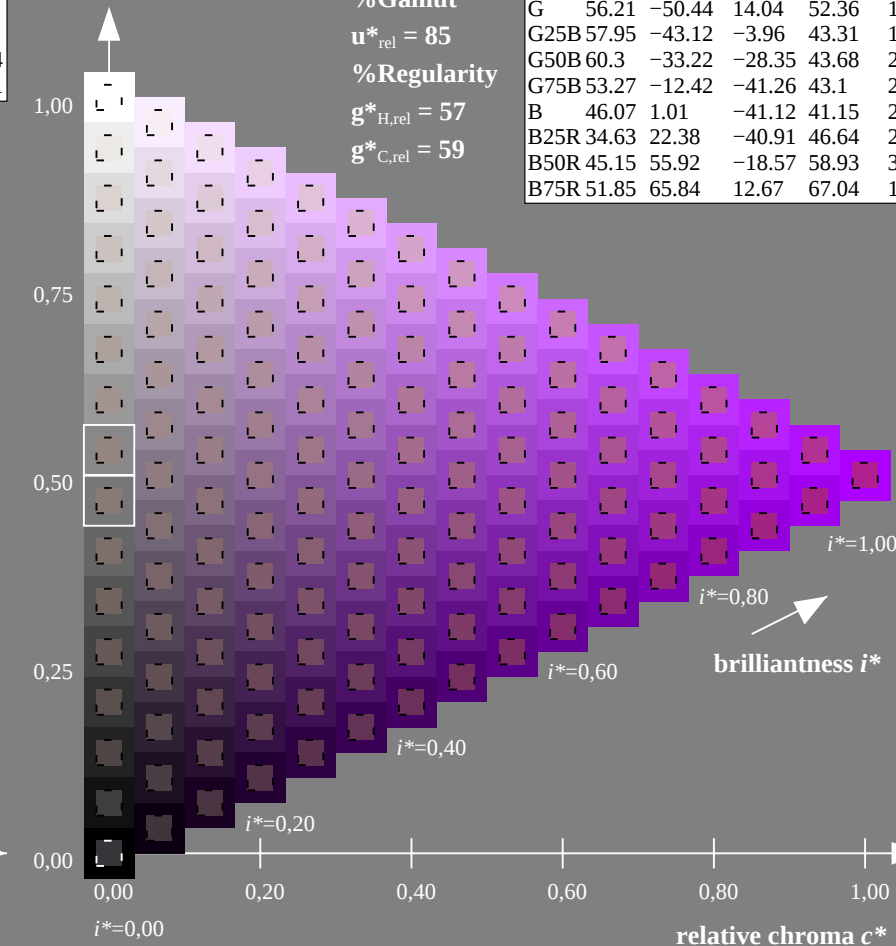
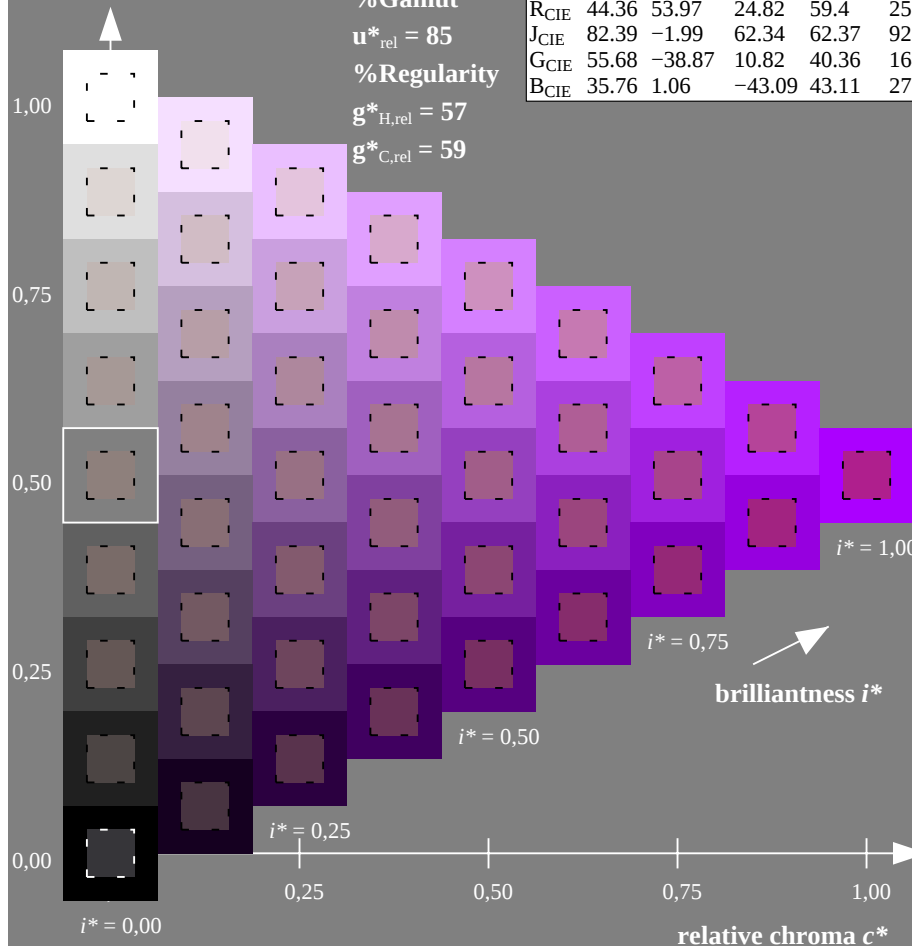
%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11



ZE920-7N, 9 step scales for constant CIELAB hue 342/360 = 0.949 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 342/360 = 0.949 (right)

BAM-test chart ZE92; Colorimetric systems, Page 15/96

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

input: $rgb / cmy0$ set($rgb/cmyk$)color

output: no change compared to input

See for similar files: <http://www.ps.bam.de/ZE92/>; www.ps.bam.de/ZE.HTM
 Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1

BAM registration: 20071001-ZE92/10/L92E00NA.PS.TXT BAM material: code=rh4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

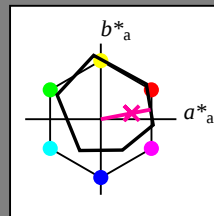
for hue $h^* = lab^*h = 11/360 = 0.03$

*lab*tch* and *lab*nch*

D65: hue B75R

LCH*Ma: 52 67 11

olv*Ma: 1.0 0.0 0.62



%Gamut

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

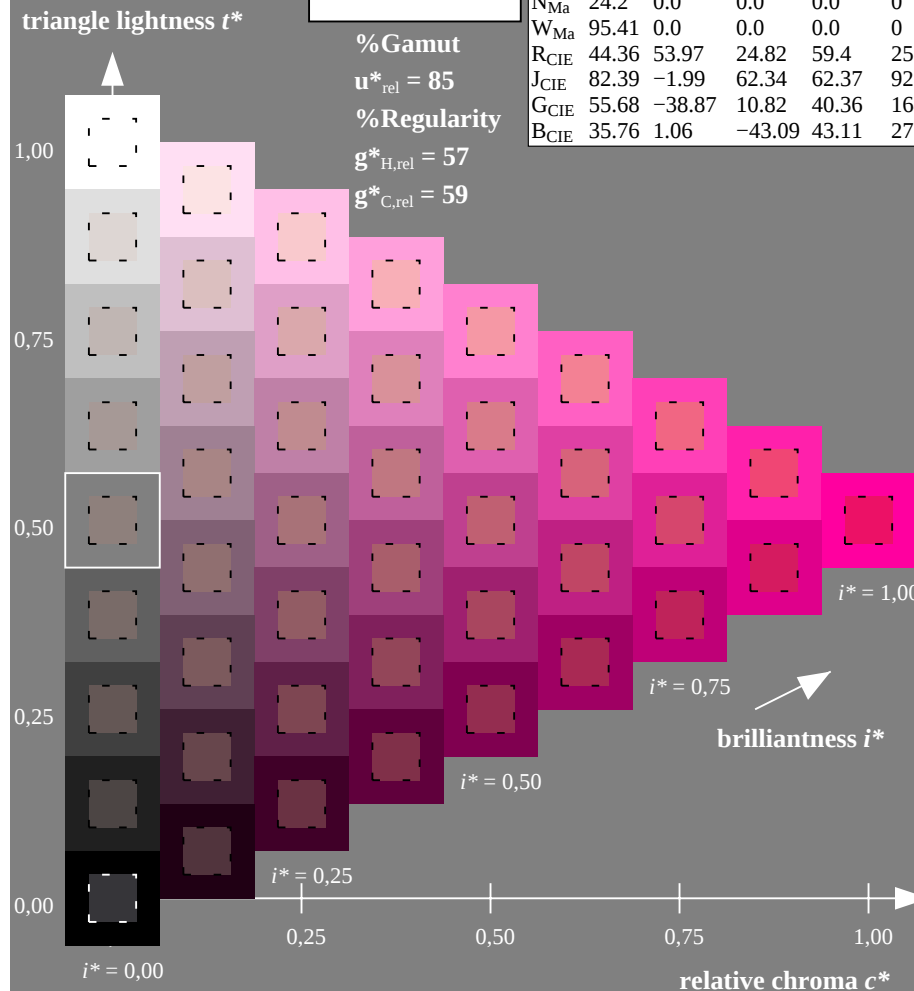
%Regularity

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

■ $g^*_{C,rel} = 59$

ORS18; adapted (a) CIELAB data

	$L^*=L_a^*$	a_a^*	b_a^*	$C_{ab,a}^*$	$h_{ab,a}^*$
O _{Ma}	51.74	60.16	46.48	76.02	38
Y _{Ma}	90.77	-9.44	84.41	84.94	96
L _{Ma}	54.46	-57.8	32.16	66.15	15
C _{Ma}	61.56	-27.91	-41.41	49.95	236
V _{Ma}	31.3	28.61	-40.85	49.88	305
M _{Ma}	51.91	69.26	-7.69	69.68	354
N _{Ma}	24.2	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	44.36	53.97	24.82	59.4	25
J _{CIE}	82.39	-1.99	62.34	62.37	92
G _{CIE}	55.68	-38.87	10.82	40.36	164
B _{CIF}	35.76	1.06	-43.09	43.11	271



ZE920-7N, 9 step scales for constant CIELAB hue 11/360 = 0.03 (left)

BAM-test chart ZE92: Colorimetric systems. Page 16/96

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

Output: Colorimetric Offset Reflective System ORS18

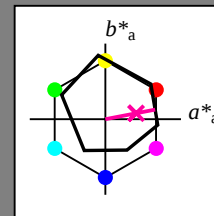
for hue $h^* = lab^*h = 11/360 = 0.03$

lab*tch and lab*nch

D65: hue B75R

LCH*Ma: 52 67 11

olv*Ma: 1.0 0.0 0.62



%Gamut

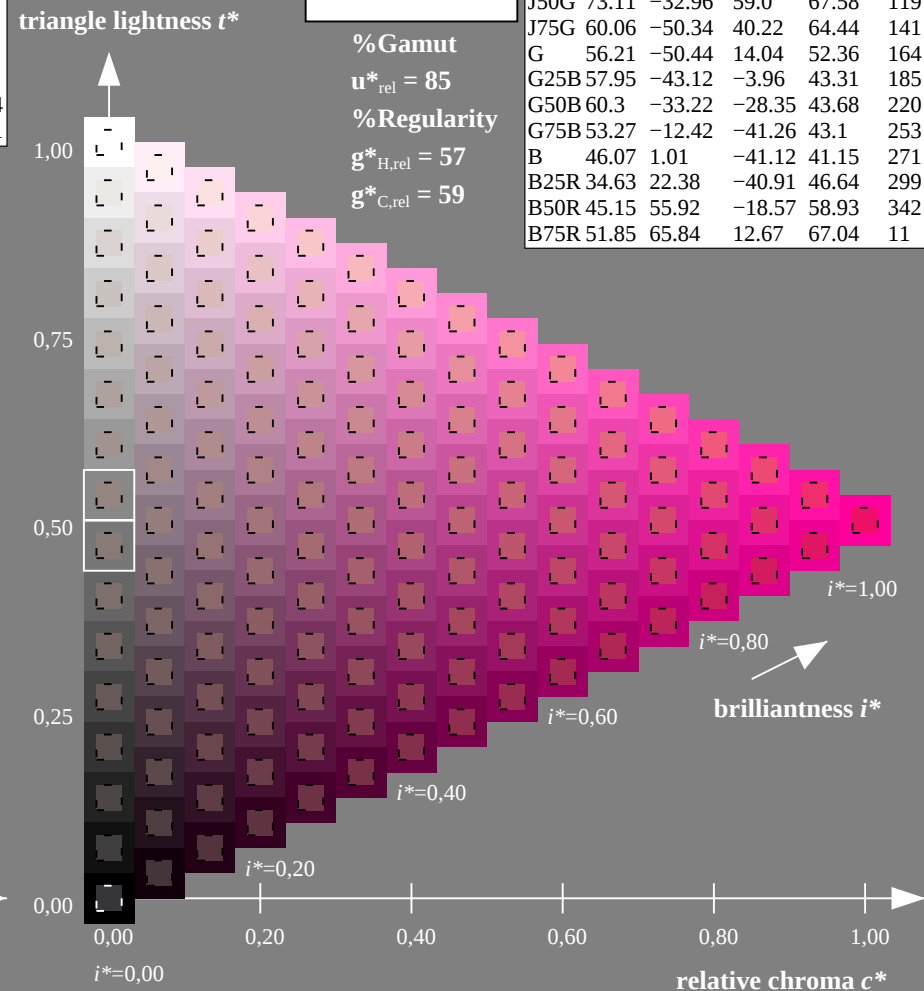
$$\mathbf{u}_{rel}^* = 85$$

%Regularity

$$g^*_{H,rel} = 57$$
$$g^*_{C,rel} = 59$$

ORS18; adapted (a) CIELAB data

	$L^* = L_a^*$	a_a^*	b_a^*	$C_{ab,a}^*$	$h_{ab,a}^*$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11



ZE920-7N, 16 step scales for constant CIELAB hue 11/360 = 0.03 (right)

```
input: rrgb / cmv0 set(rrgb/cmyk)color
```

output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

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

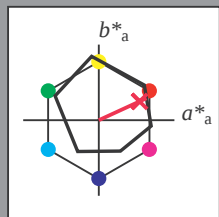
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 52 69 25

olv*Ma: 1.0 0.0 0.32

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

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

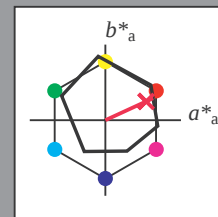
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 52 69 25

olv*Ma: 1.0 0.0 0.32

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11

%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ZE920-7N, 9 step scales for constant CIELAB hue 25/360 = 0.069 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 25/360 = 0.069 (right)

BAM-test chart ZE92; Colorimetric systems, Page 17/96

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

input: $rgb / cmy0$ set($rgb/cmyk$)color

output: $-> cmy5^*$ setcmykcolor

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 41/360 = 0.113$

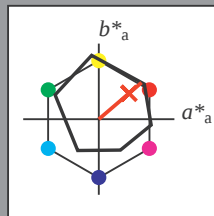
lab^*tch and lab^*nch

D65: hue R25J

LCH*Ma: 54 74 41

olv*Ma: 1.0 0.05 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 41/360 = 0.113$

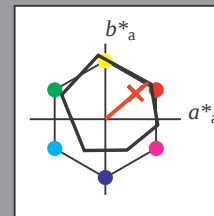
lab^*tch and lab^*nch

D65: hue R25J

LCH*Ma: 54 74 41

olv*Ma: 1.0 0.05 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11

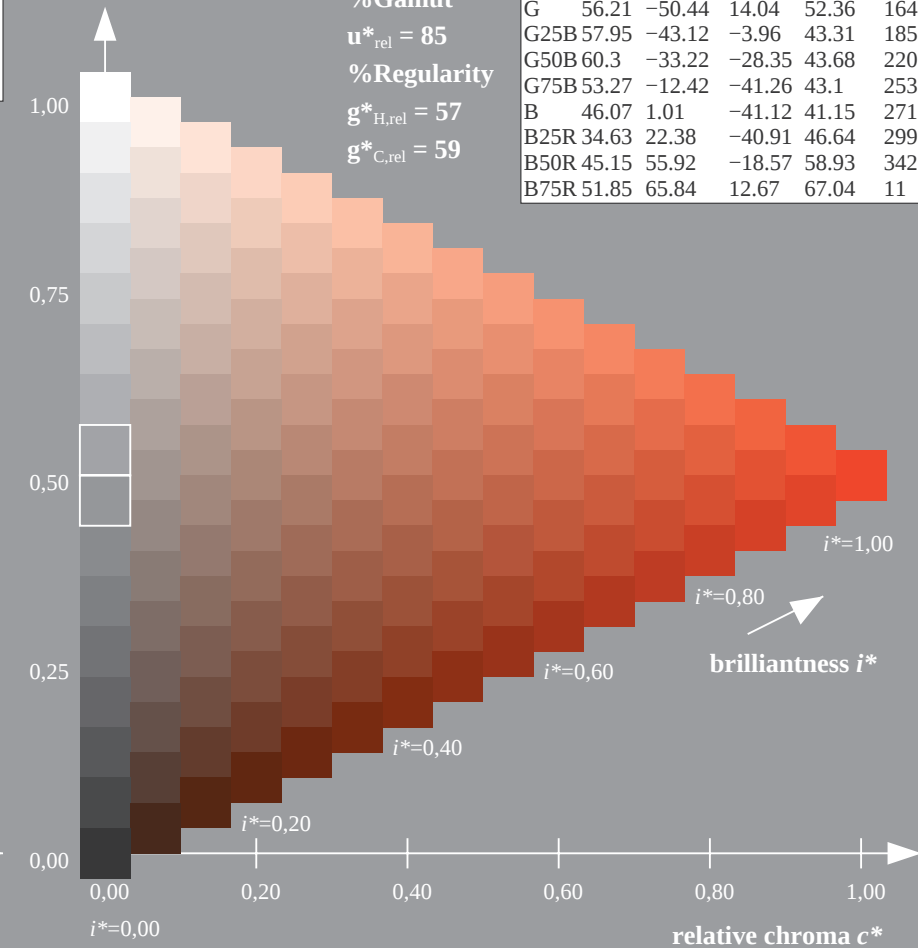
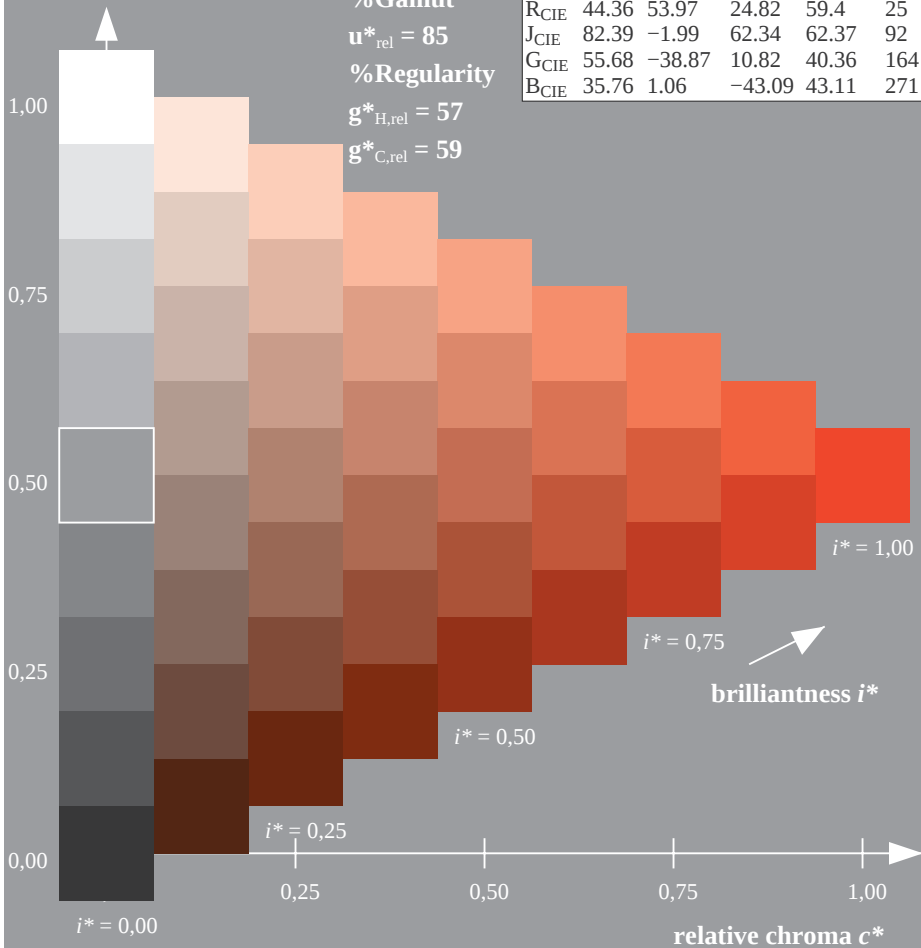
%Gamut

$u^*_{rel} = 85$

%Regularity

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

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



ZE920-7N, 9 step scales for constant CIELAB hue 41/360 = 0.113 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 41/360 = 0.113 (right)

BAM-test chart ZE92; Colorimetric systems, Page 18/96

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

input: `rgb / cmy0 set(rgb/cmyk)color`

output: `->cmy5* setcmykcolor`

Input: Colorimetric Offset Reflective System ORS18

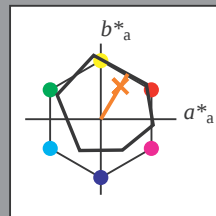
for hue $h^* = lab^*h = 59/360 = 0.164$

*lab*tch* and *lab*nch*

D65: hue R50J

LCH*Ma: 65 70 59

olv*Ma: 1.0 0.35 0.0



triangle lightness t^*

%Gamut

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

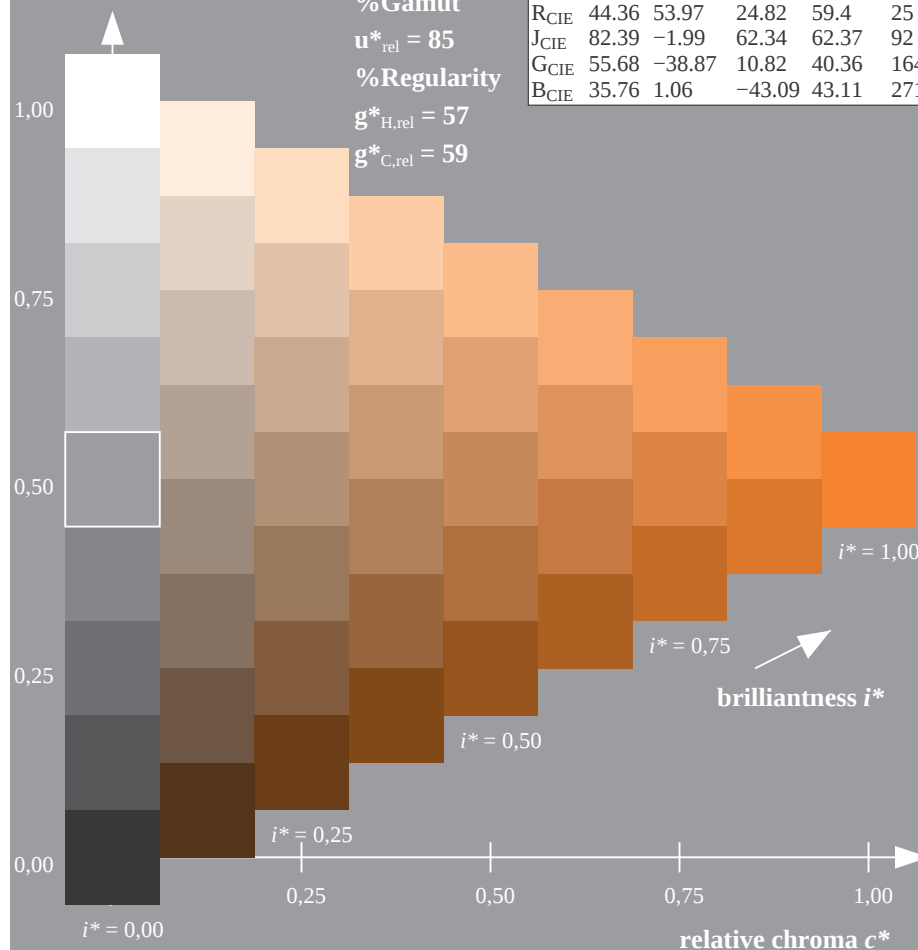
%Regularity

$$g_{H,rel}^* = 57$$

g*_{C,rel} = 59

ORS18; adapted (a) CIELAB data

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



ZE920-7N, 9 step scales for constant CIELAB hue 59/360 = 0.164 (left)

BAM-test chart ZE92; Colorimetric systems, Page 19/96

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

Output: Colorimetric Offset Reflective System ORS18

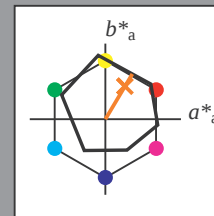
for hue $h^* = lab^*h = 59/360 = 0.164$

*lab*tch* and *lab*nch*

D65: hue R50J

LCH*Ma: 65 70 59

olv*Ma: 1.0 0.35 0.0

triangle lightness t^*

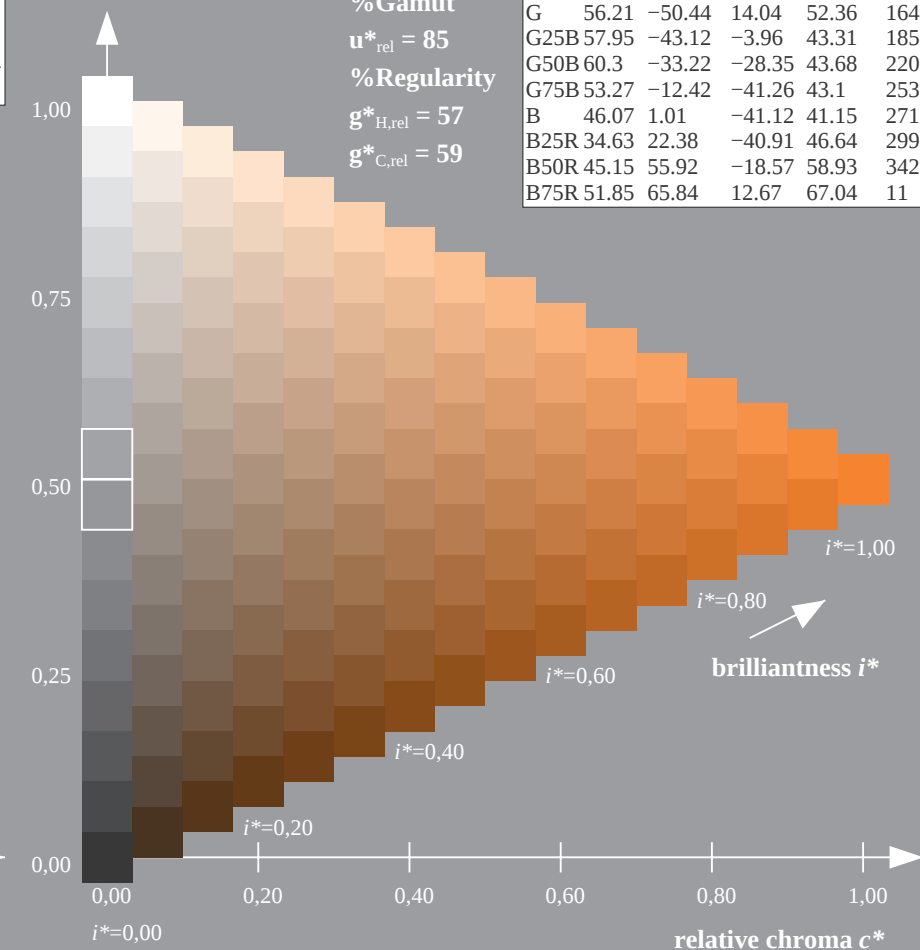
% Gamut

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

%Regularity

$$g^*_{H,rel} = 57$$
$$g^*_{C,rel} = 59$$
ORS18; adapted (a) CIELAB data

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



ZE920-7N, 16 step scales for constant CIELAB hue 59/360 = 0.164 (right)

input: *rgb* / *cmy0* set(*rgb/cmyk*)color

```
output: ->cmyn5* setcmykcolor
```

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 77/360 = 0.215$

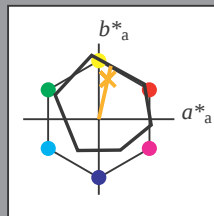
lab^*tch and lab^*nch

D65: hue R75J

LCH*Ma: 77 72 77

olv*Ma: 1.0 0.63 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 77/360 = 0.215$

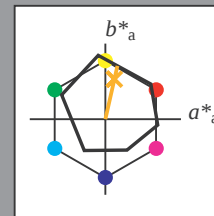
lab^*tch and lab^*nch

D65: hue R75J

LCH*Ma: 77 72 77

olv*Ma: 1.0 0.63 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11

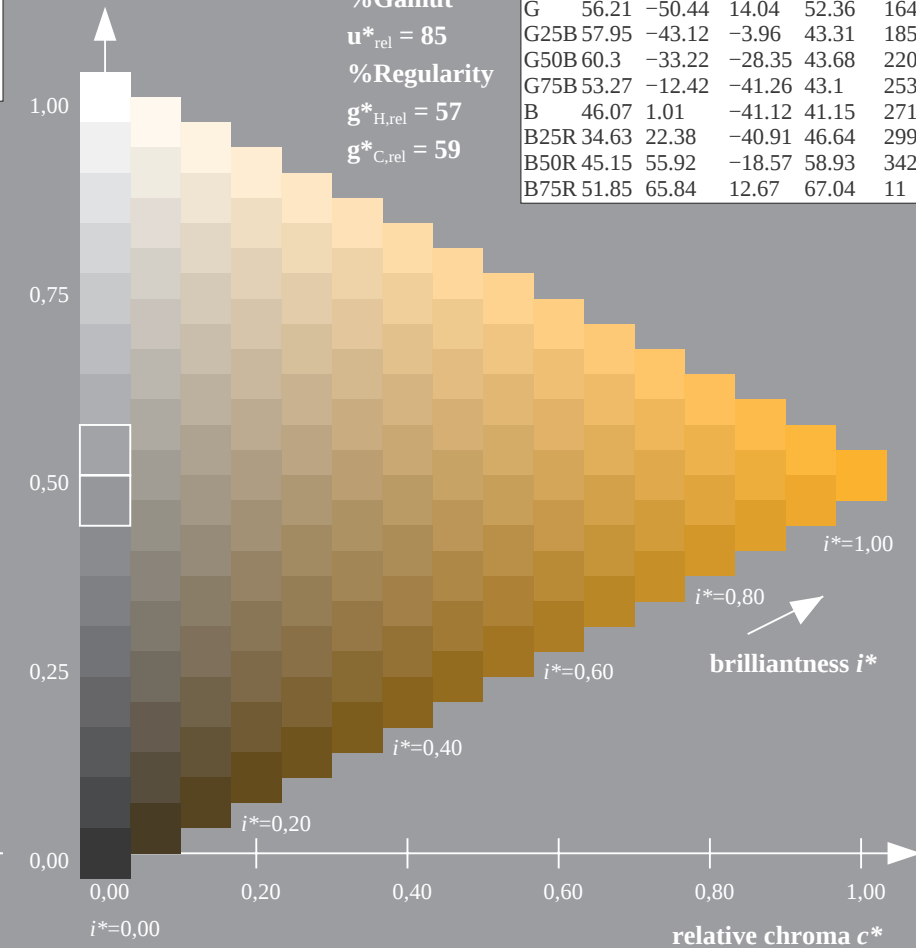
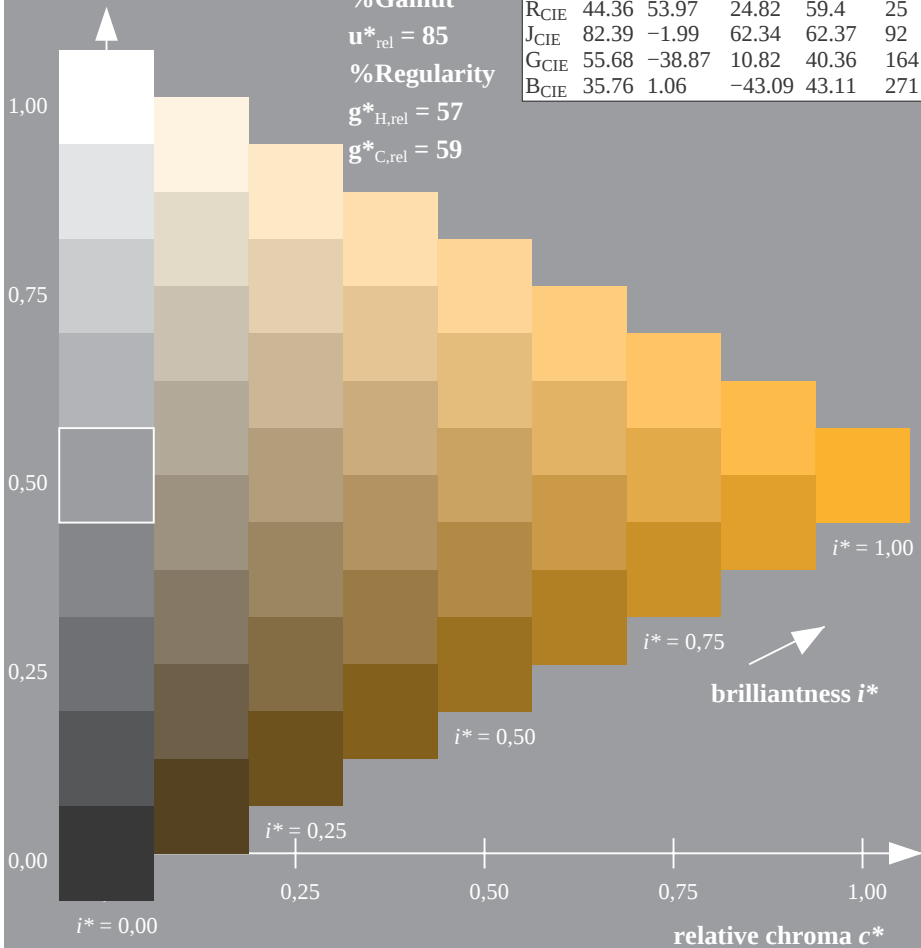
%Gamut

$u^*_{rel} = 85$

%Regularity

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

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



ZE920-7N, 9 step scales for constant CIELAB hue 77/360 = 0.215 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 77/360 = 0.215 (right)

BAM-test chart ZE92; Colorimetric systems, Page 20/96
D65: 9 and 16 step colour scales for 16 elementary hues

input: $rgb / cmy0$ set($rgb/cmyk$)color
output: $-> cmy5^*$ set($cmyk$)color

Input: Colorimetric Offset Reflective System ORS18

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

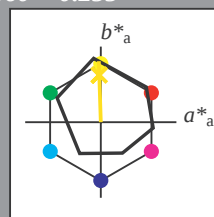
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 87 81 92

olv*Ma: 1.0 0.9 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

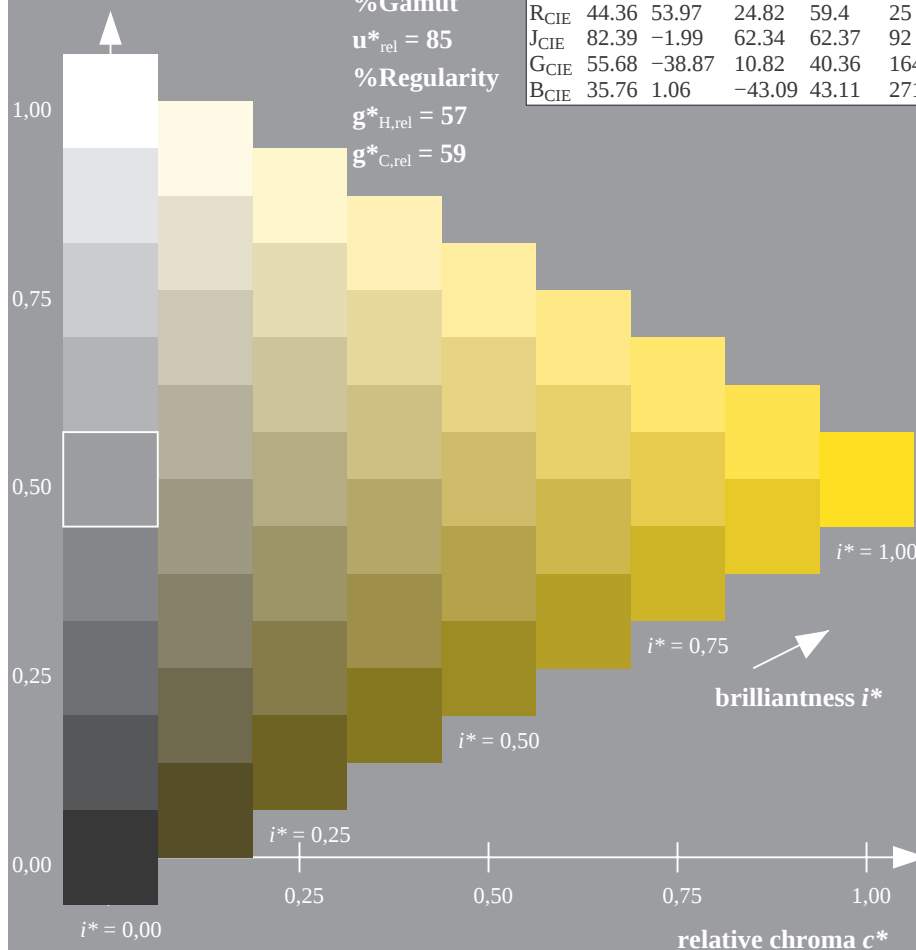
%Regularity

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

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

ORS18; adapted (a) CIELAB data

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



Output: Colorimetric Offset Reflective System ORS18

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

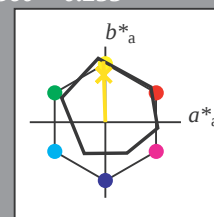
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 87 81 92

olv*Ma: 1.0 0.9 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

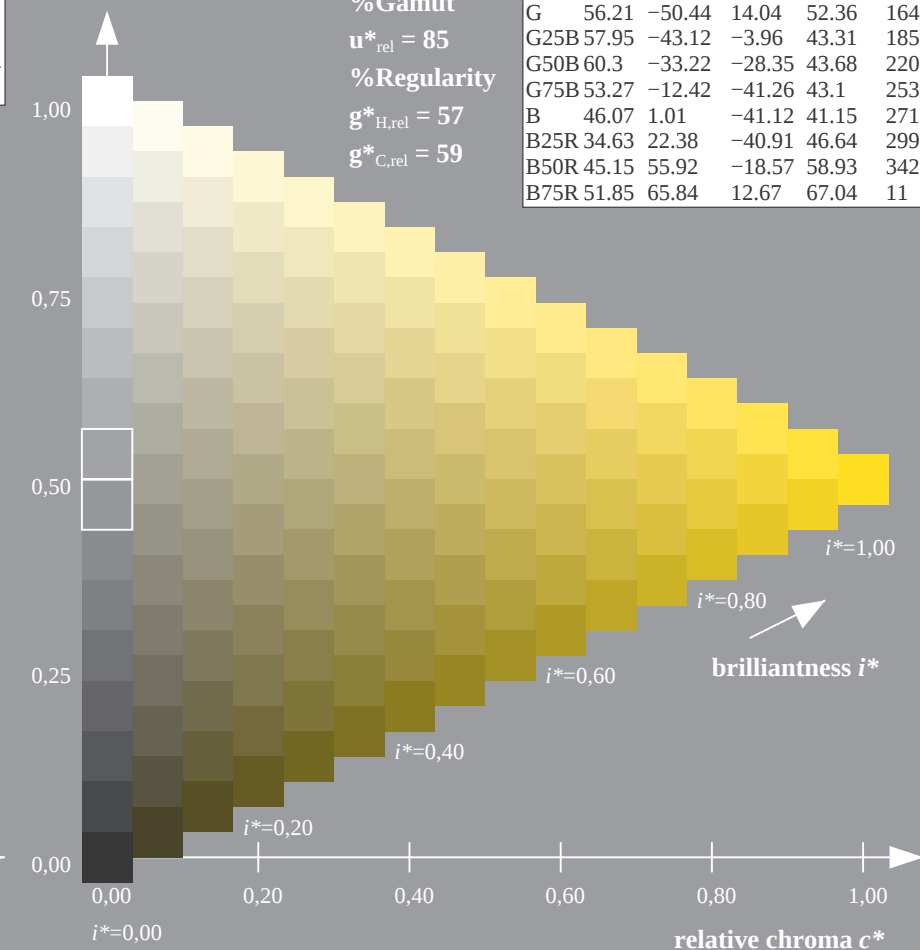
%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11



ZE920-7N, 9 step scales for constant CIELAB hue 92/360 = 0.255 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 92/360 = 0.255 (right)

BAM-test chart ZE92; Colorimetric systems, Page 21/96

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

input: `rgb / cmy0 set(rgb/cmyk)color`

output: `->cmy5* setcmykcolor`

See for similar files: <http://www.ps.bam.de/ZE92/>; www.ps.bam.de/ZE.HTM
 Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1

BAM registration: 20071001-ZE92/10L/192E00NA.PS.TXT BAM material: code=rh4ta
- application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

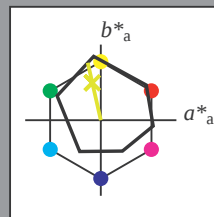
for hue $h^* = lab^*h = 103/360 = 0.286$

*lab*tch* and *lab*nch*

D65: hue J25G

LCH*Ma: 85 78 103

olv*Ma: 0.84 1.0 0.0

triangle lightness t^*

%Gamut

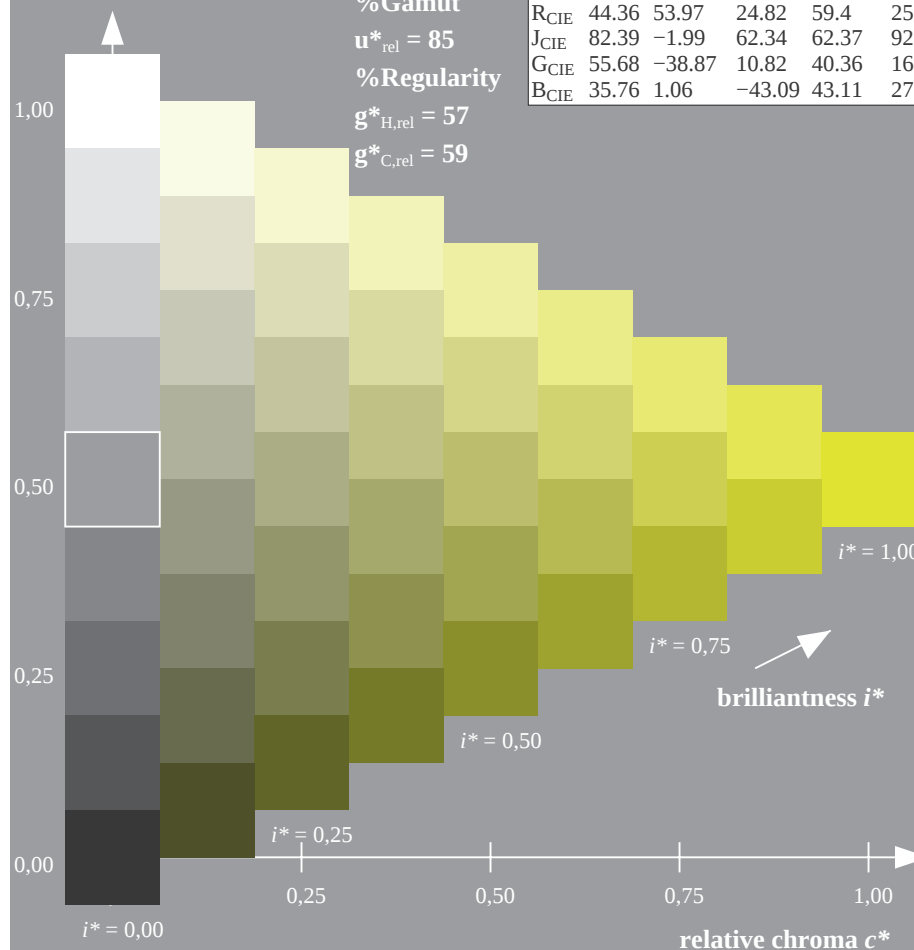
$$\mathbf{u}_{\text{rel}}^* = 85$$

%Regularity

$$g^*_{H_{rel}} = 57$$
 $\mathbf{g^*_{C_{rel}} = 59}$

ORS18; adapted (a) CIELAB data

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



ZE920-7N, 9 step scales for constant CIELAB hue $103/360 = 0.286$ (left)

BAM-test chart ZE92: Colorimetric systems. Page 22/96

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

Output: Colorimetric Offset Reflective System ORS18

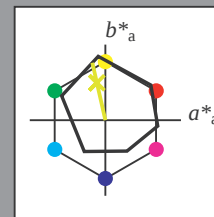
for hue $h^* = lab^*h = 103/360 = 0.286$

lab*tch and lab*nch

D65: hue J25G

LCH*Ma: 85 78 103

olv*Ma: 0.84 1.0 0.0

triangle lightness t^*

%Gamut

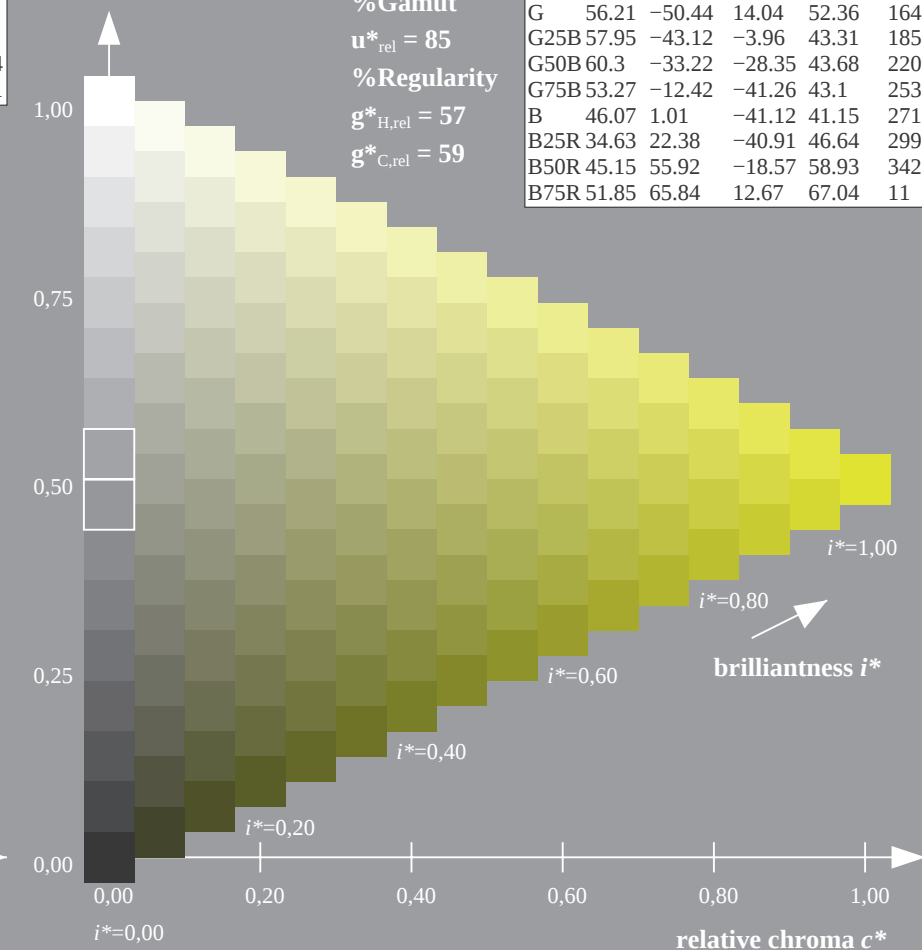
$$\mathbf{u}_{\text{rel}}^* = 85$$

%Regularity

$$g^*_{H_{rel}} = 57$$

ORS18; adapted (a) CIELAB data

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



ZE920-7N, 16 step scales for constant CIELAB hue 103/360 = 0.286 (right)

```
input: rrgb / cmv0 set(rrgb/cmvk)color
```

```
output: ->cmyn5* setcmykcolor
```

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 119/360 = 0.331$

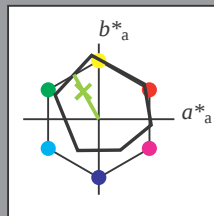
lab^*tch and lab^*nch

D65: hue J50G

LCH*Ma: 73 68 119

olv*Ma: 0.51 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 119/360 = 0.331$

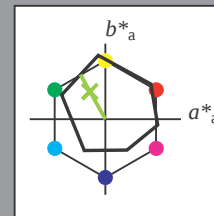
lab^*tch and lab^*nch

D65: hue J50G

LCH*Ma: 73 68 119

olv*Ma: 0.51 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

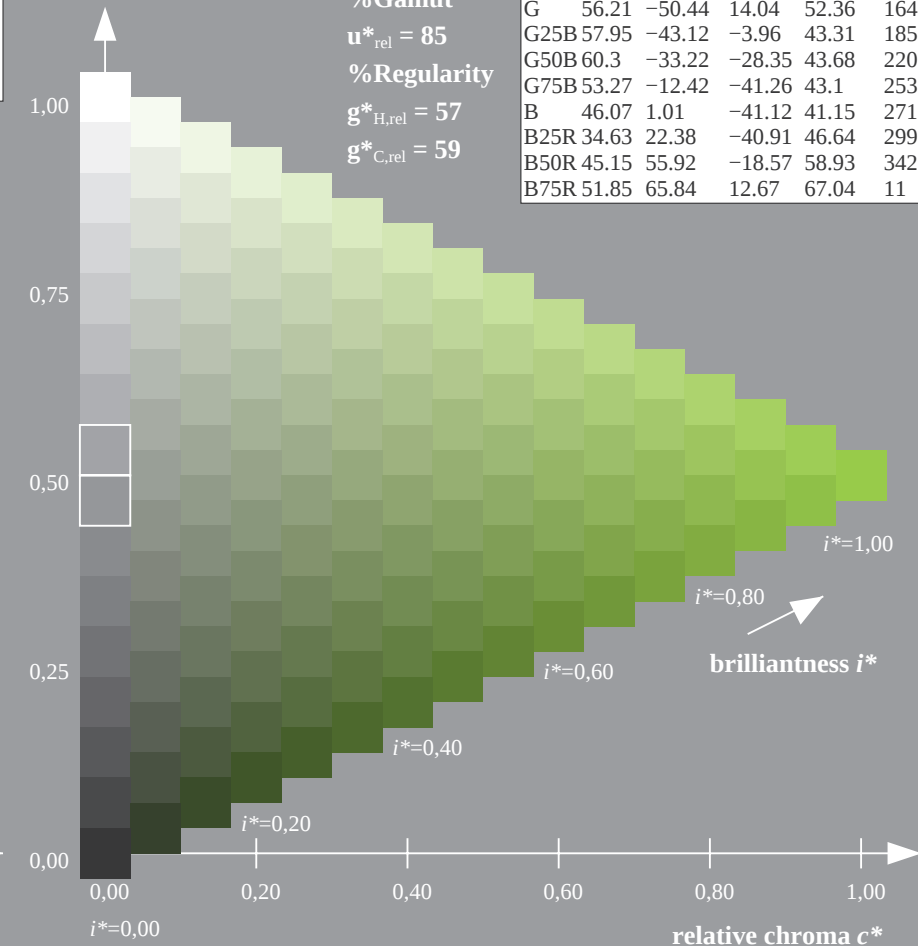
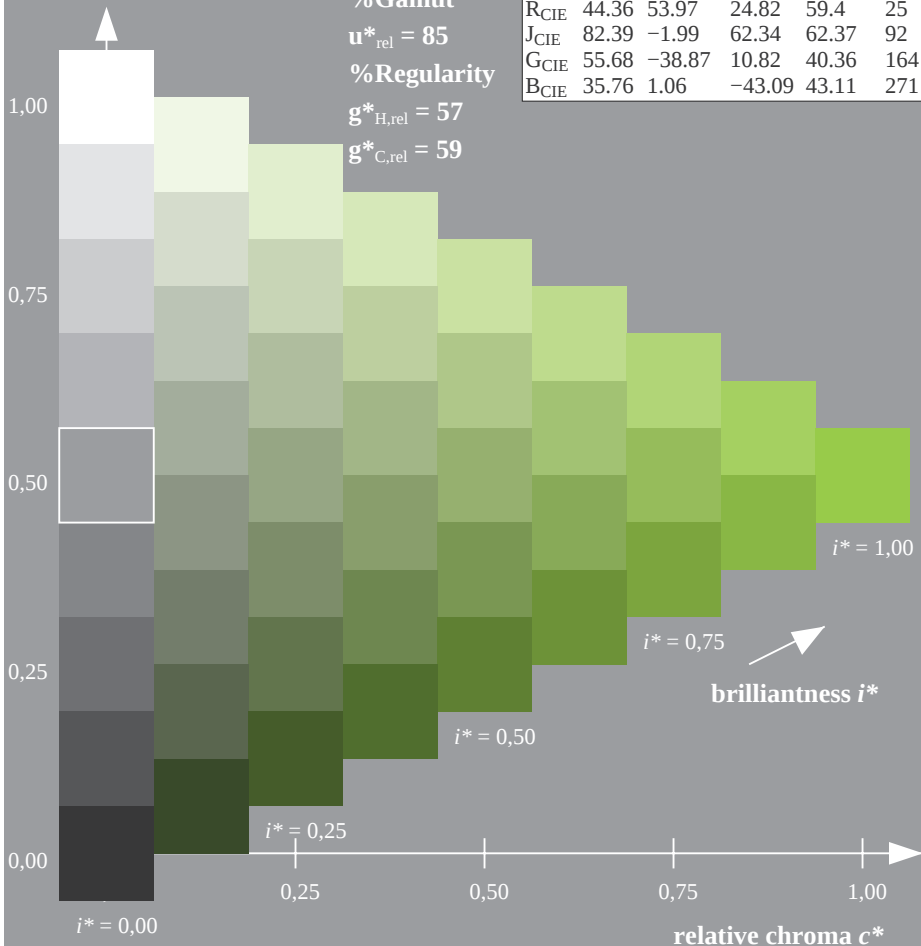
%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11



ZE920-7N, 9 step scales for constant CIELAB hue 119/360 = 0.331 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 119/360 = 0.331 (right)

BAM-test chart ZE92; Colorimetric systems, Page 23/96

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

input: $rgb / cmy0$ set($rgb/cmyk$)color

output: $-> cmy5^*$ set($cmyk$)color

Input: Colorimetric Offset Reflective System ORS18

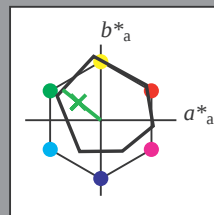
for hue $h^* = lab^*h = 141/360 = 0.393$

*lab*tch* and *lab*nch*

D65: hue J75G

LCH*Ma: 60 64 141

olv*Ma: 0.15 1.0 0.0



triangle lightness t^*

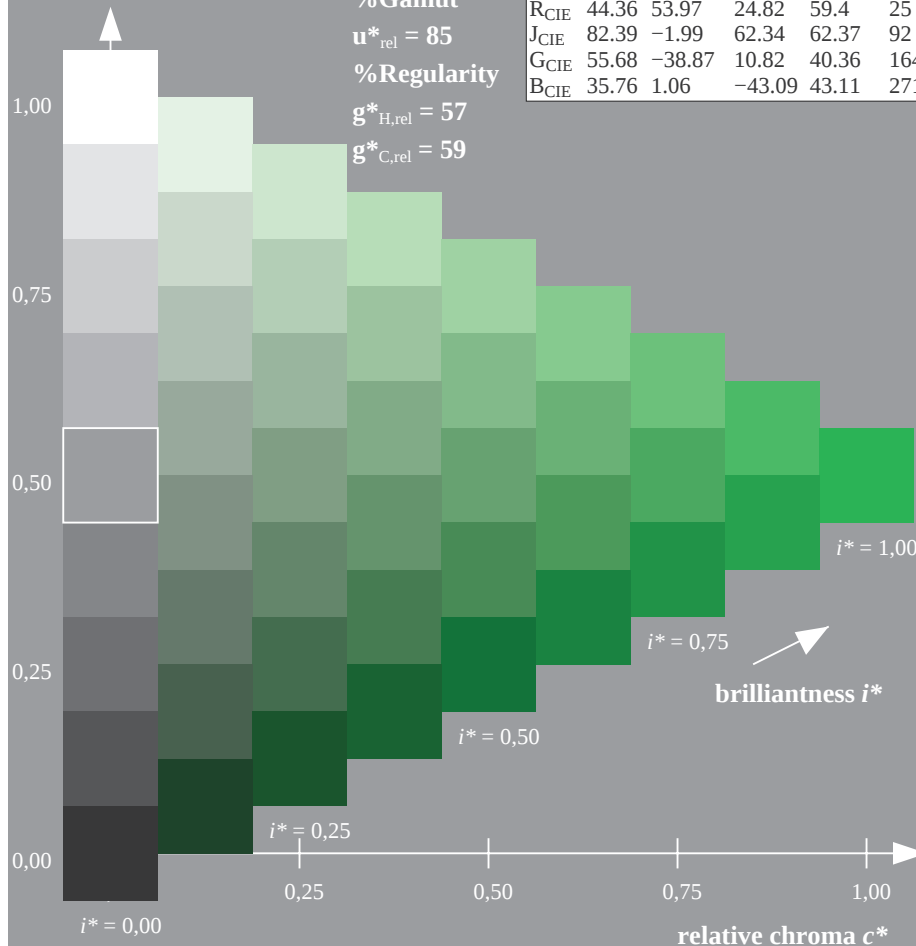
%Gamut

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

%Regularity

$$g^*_{H_{rel}} = 57$$

$g^*_{C_{rel}} = 59$



ZE920-7N, 9 step scales for constant CIELAB hue 141/360 = 0.393 (left)

BAM-test chart ZE92: Colorimetric systems. Page 24/96

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

Output: Colorimetric Offset Reflective System ORS18

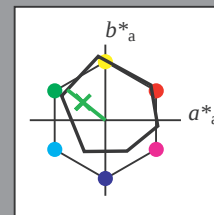
for hue $h^* = lab^*h = 141/360 = 0.393$

lab*tch and lab*nch

D65: hue J75G

LCH*Ma: 60 64 141

olv*Ma: 0.15 1.0 0.0

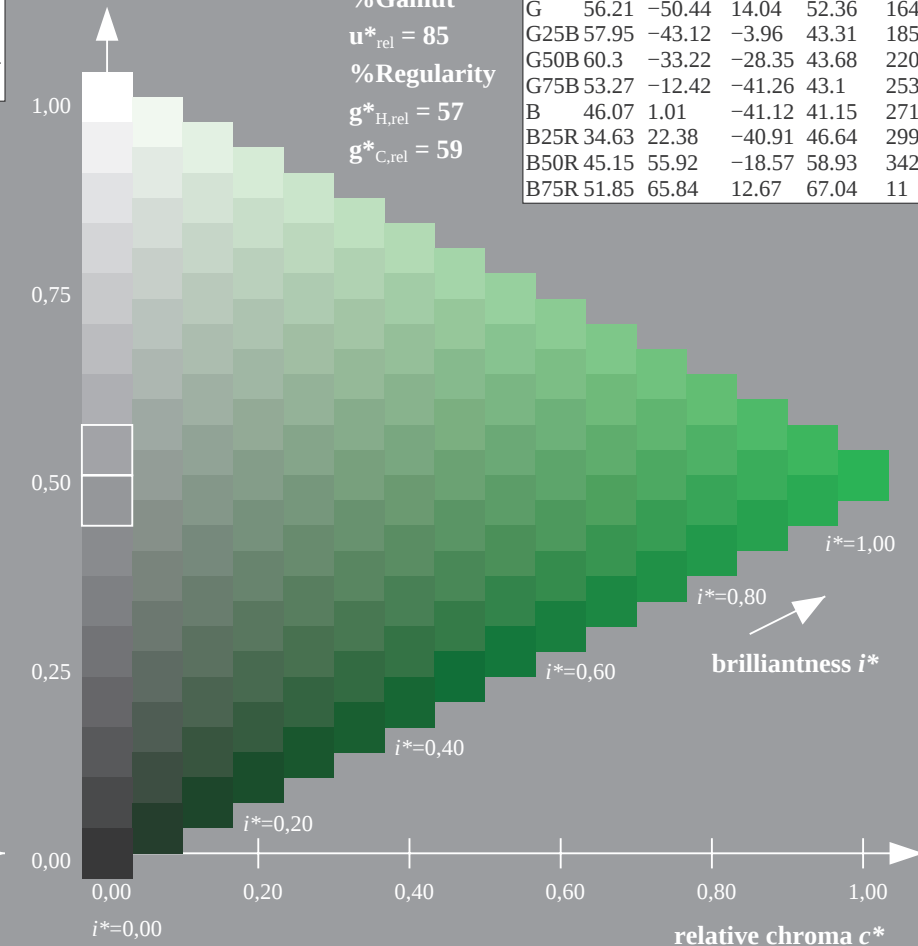


triangle lightness t^*

%Gamut

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

%Regularity

$$g^*_{H_{rel}} = 57$$
$$g^*_{C_{rel}} = 59$$


ZE920-7N, 16 step scales for constant CIELAB hue 141/360 = 0.393 (right)

```
input: rrgb / cmv0 set(rrgb/cmvk)color
```

output: $\rightarrow cmyk5^*$ setcmykcolor

See for similar files: <http://www.ps.bam.de/ZE92/>; [www.ps.bam.de/ZE92/Version 2.1, io=1,1](http://www.ps.bam.de/ZE92/Version%202.1,io=1,1)

BAM registration: 20071001-ZE92/10L/L92E00NA.PS/.TXT BAM material: code=rh4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

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

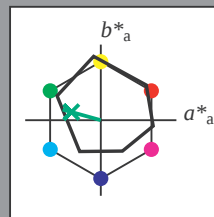
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 52 164

olv*Ma: 0.0 1.0 0.25

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

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

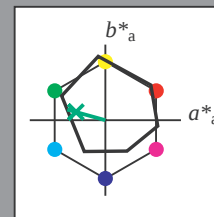
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 52 164

olv*Ma: 0.0 1.0 0.25

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

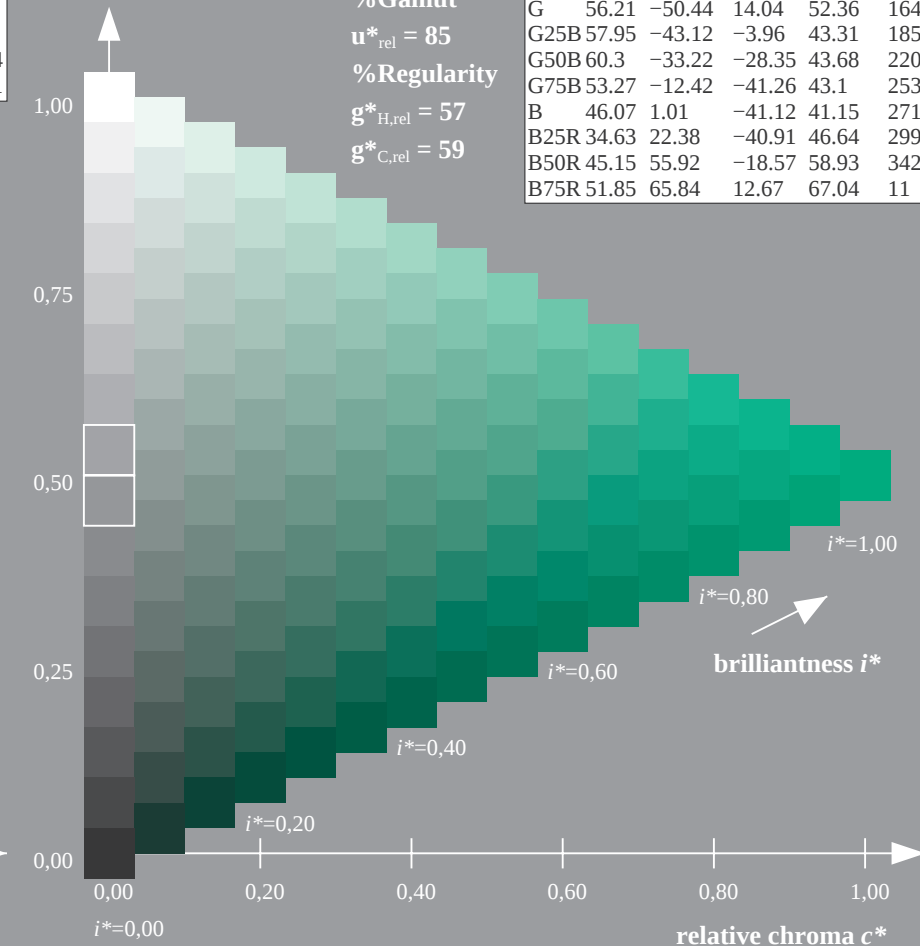
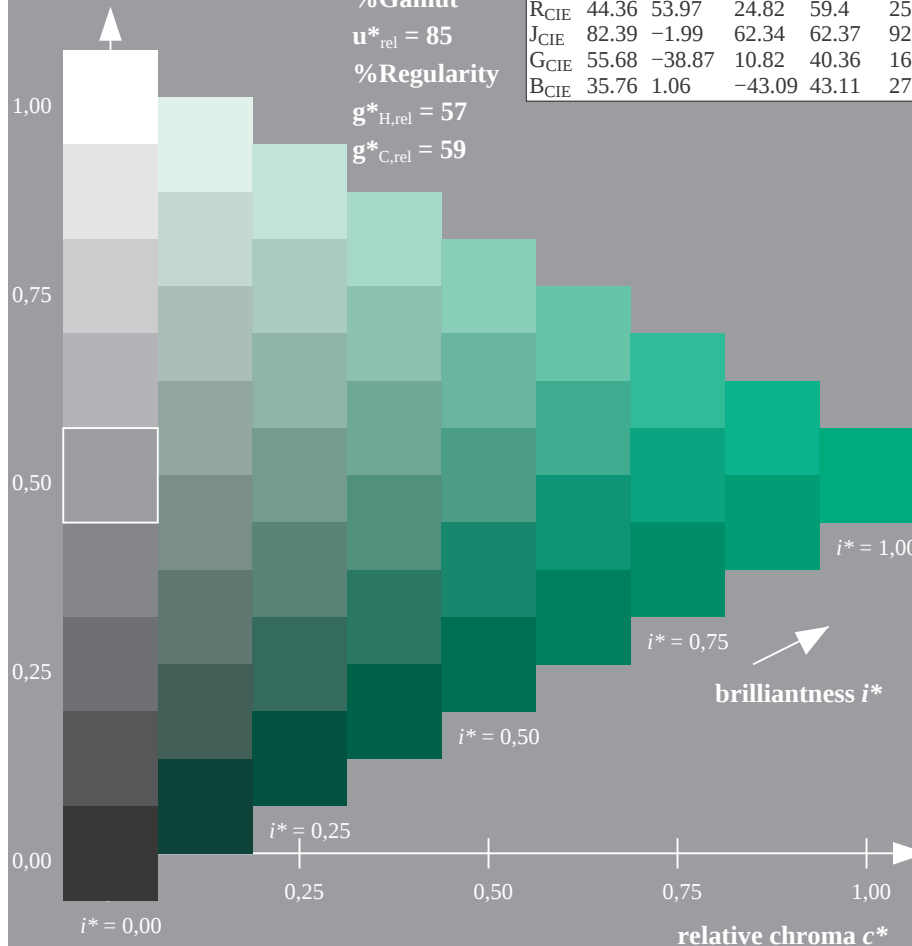
%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11



ZE920-7N, 9 step scales for constant CIELAB hue 164/360 = 0.457 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 164/360 = 0.457 (right)

BAM-test chart ZE92; Colorimetric systems, Page 25/96

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

input: `rgb / cmy0 set(rgb/cmyk)color`

output: `->cmy5* setcmykcolor`

See for similar files: <http://www.ps.bam.de/ZE92/>; www.ps.bam.de/ZE92/10L/L92E00NA.PS/.TXT
Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1

BAM registration: 20071001-ZE92/10L/L92E00NA.PS/.TXT BAM material: code=rh4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 185/360 = 0.515$

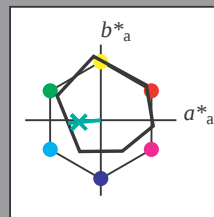
lab^*tch and lab^*nch

D65: hue G25B

LCH*Ma: 58 43 185

olv*Ma: 0.0 1.0 0.49

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 185/360 = 0.515$

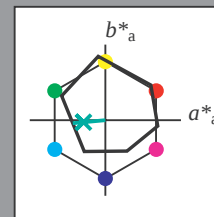
lab^*tch and lab^*nch

D65: hue G25B

LCH*Ma: 58 43 185

olv*Ma: 0.0 1.0 0.49

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

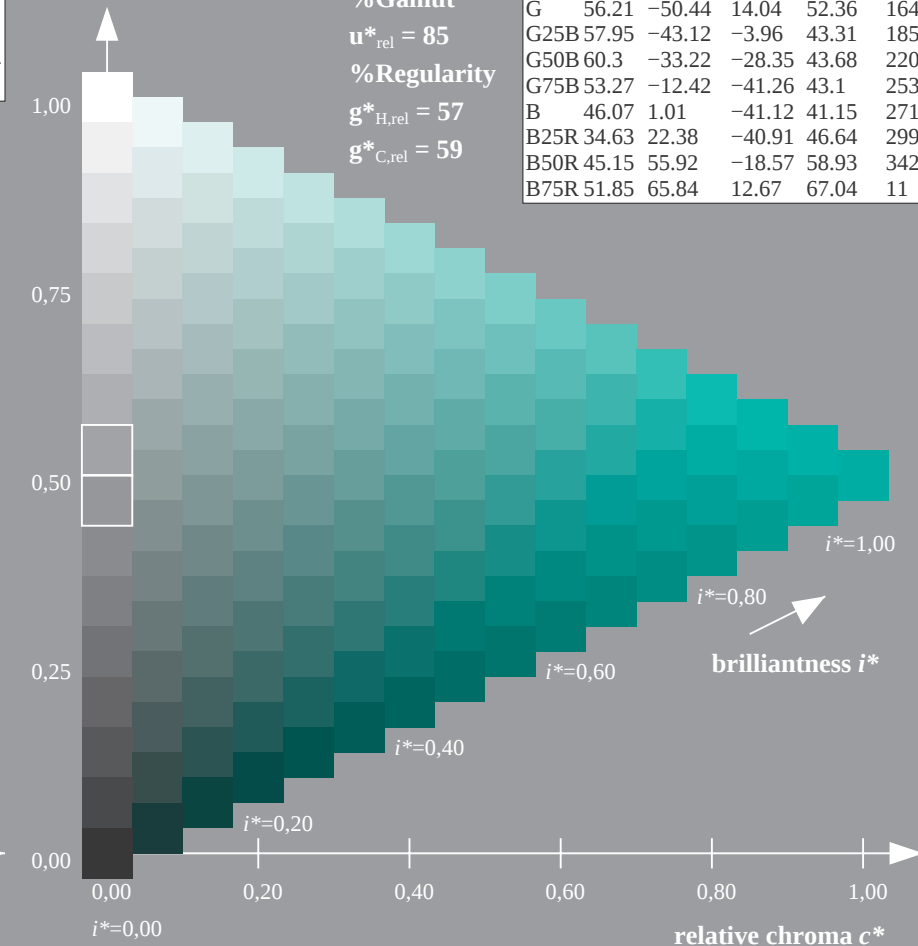
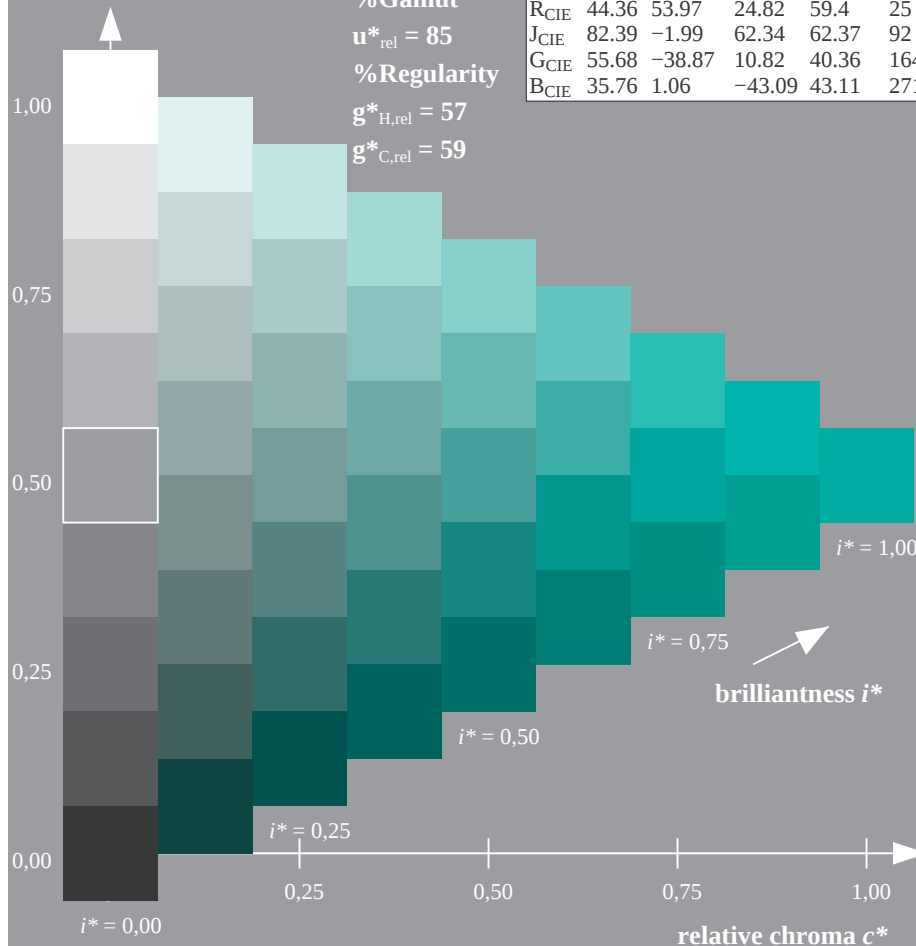
%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11



ZE920-7N, 9 step scales for constant CIELAB hue 185/360 = 0.515 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 185/360 = 0.515 (right)

BAM-test chart ZE92; Colorimetric systems, Page 26/96

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

input: `rgb / cmy0 set(rgb/cmyk)color`

output: `->cmy5* setcmykcolor`

Input: Colorimetric Offset Reflective System ORS18

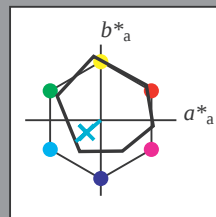
for hue $h^* = lab^*h = 220/360 = 0.612$

lab*tch and lab*nch

D65: hue G50B

LCH*Ma: 60 44 220

olv*Ma: 0.0 1.0 0.82

triangle lightness t^*

%Gamut

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

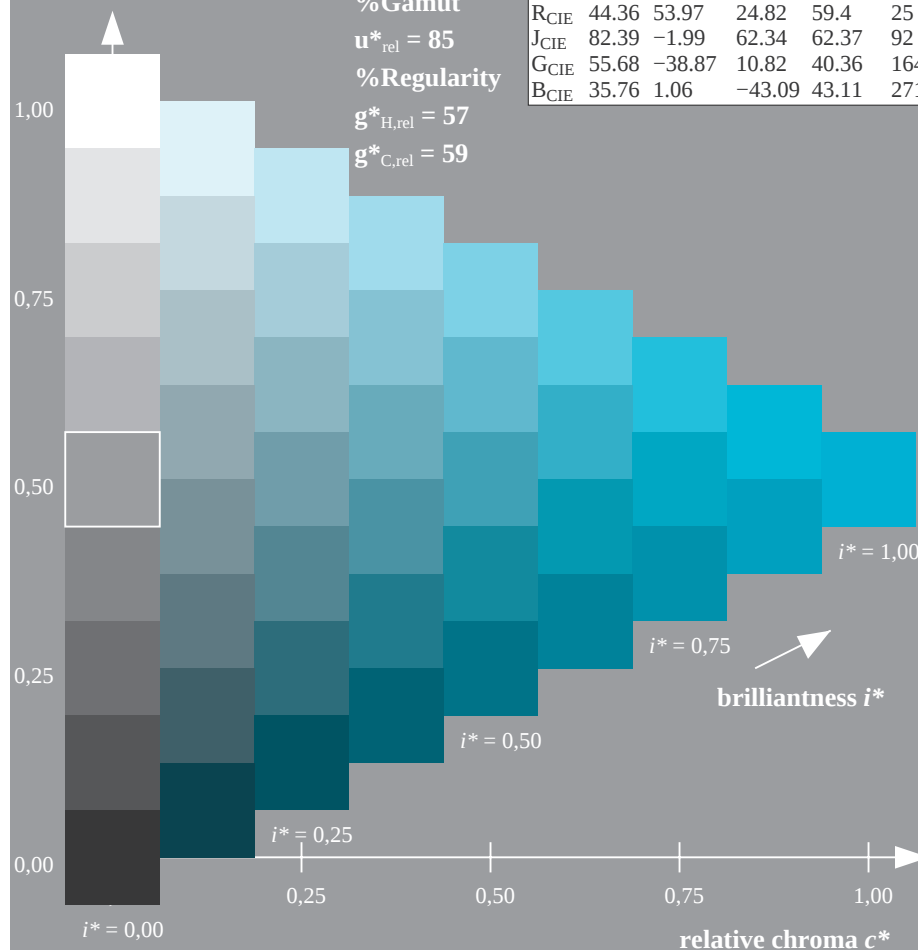
%Regularity

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

g*_{C,rel} = 59

Response	Percentage
Doing a good job	65%
Not doing a good job	35%

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



ZE920-7N, 9 step scales for constant CIELAB hue 220/360 = 0.612 (left)

BAM-test chart ZE92: Colorimetric systems. Page 27/96

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

Output: Colorimetric Offset Reflective System ORS18

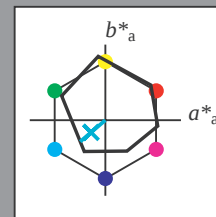
for hue $h^* = lab^*h = 220/360 = 0.612$

lab*tch and lab*nch

D65: hue G50B

LCH*Ma: 60 44 220

olv*Ma: 0.0 1.0 0.82

triangle lightness t^*

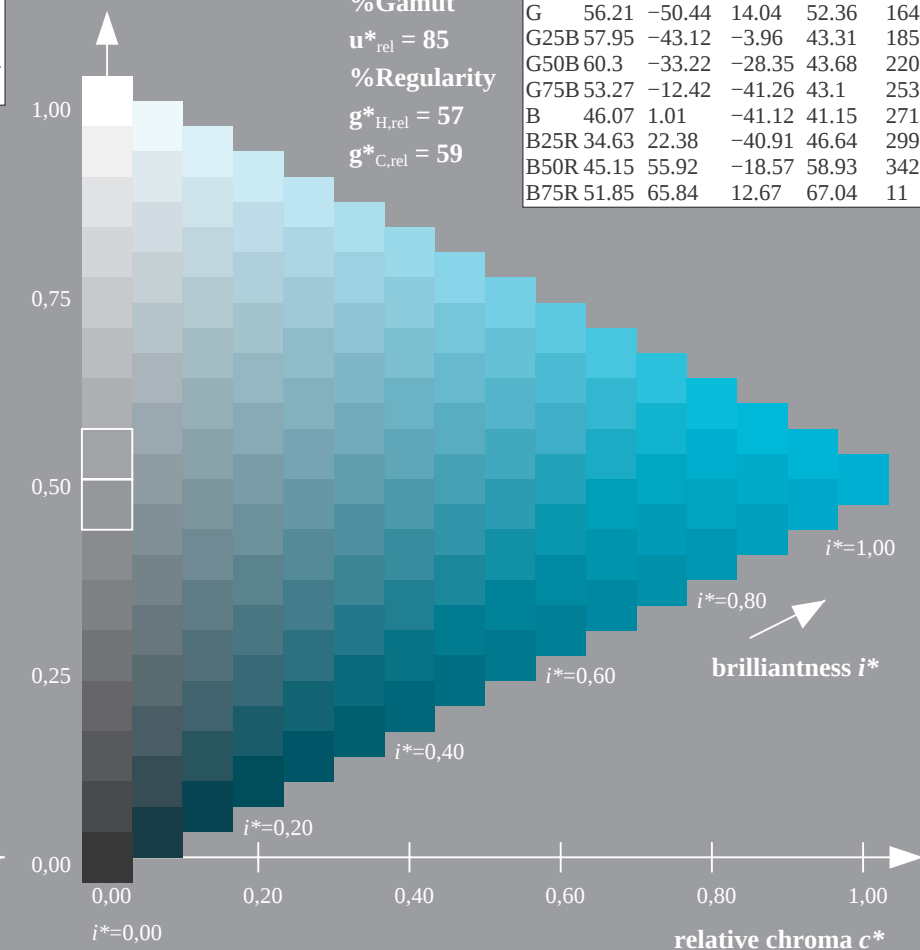
%Gamut

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

%Regularity

$$g^*_{H_{rel}} = 57$$
$$g^*_{C,rel} = 59$$

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



ZE920-7N, 16 step scales for constant CIELAB hue 220/360 = 0.612 (right)

```
input: rrgb / cmv0 set(rrgb/cmvk)color
```

output: $\rightarrow cmyk5^*$ *setcmykcolor*

Input: Colorimetric Offset Reflective System ORS18

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

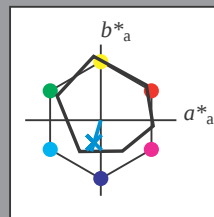
lab^*tch and lab^*nch

D65: hue G75B

LCH*Ma: 53 43 253

olv*Ma: 0.0 0.73 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

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

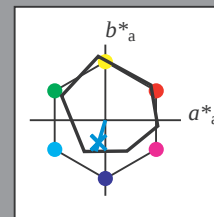
lab^*tch and lab^*nch

D65: hue G75B

LCH*Ma: 53 43 253

olv*Ma: 0.0 0.73 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11

triangle lightness t^*

%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ZE920-7N, 9 step scales for constant CIELAB hue 253/360 = 0.703 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 253/360 = 0.703 (right)

BAM-test chart ZE92; Colorimetric systems, Page 28/96

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

input: $rgb / cmy0$ set($rgb/cmyk$)color

output: $-> cmy5^*$ set($cmyk$)color

See for similar files: <http://www.ps.bam.de/ZE92/>; www.ps.bam.de/ZE.HTM
Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1

BAM registration: 20071001-ZE92/10L/L92E00NA.PS/.TXT BAM material: code=rh4ta
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

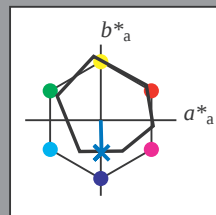
for hue $h^* = lab^*h = 271/360 = 0.754$

*lab*tch* and *lab*nch*

D65: hue B

LCH*Ma: 46 41 271

olv*Ma: 0.0 0.49 1.0



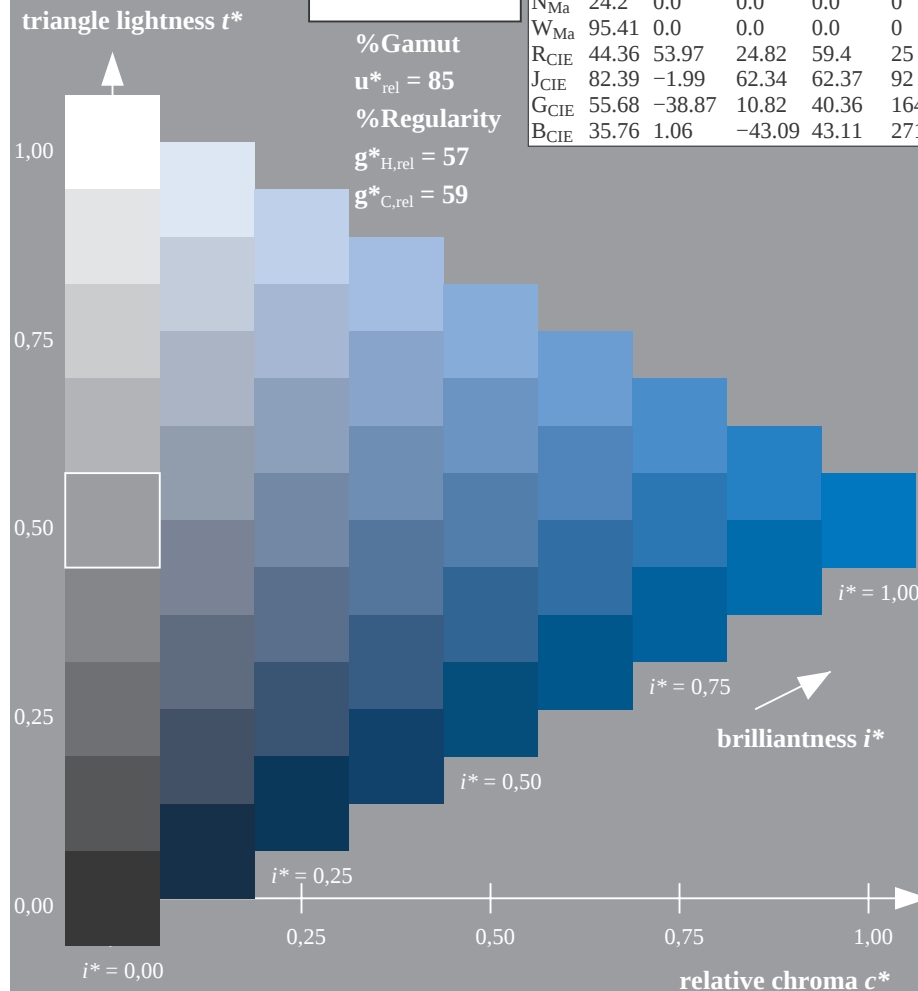
%Gamut

$$u_{\text{rel}}^* = 85$$

%Regularity

$$g^*_{H_{rel}} = 57$$
 $\mathbf{g^*_{C,rel} = 59}$

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



ZE920-7N, 9 step scales for constant CIELAB hue 271/360 = 0.754 (left)

BAM-test chart ZE92; Colorimetric systems, Page 29/96

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

Output: Colorimetric Offset Reflective System ORS18

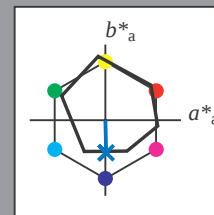
for hue $h^* = lab^*h = 271/360 = 0.754$

*lab*tch* and *lab*nch*

D65: hue B

LCH*Ma: 46 41 271

olv*Ma: 0.0 0.49 1.0



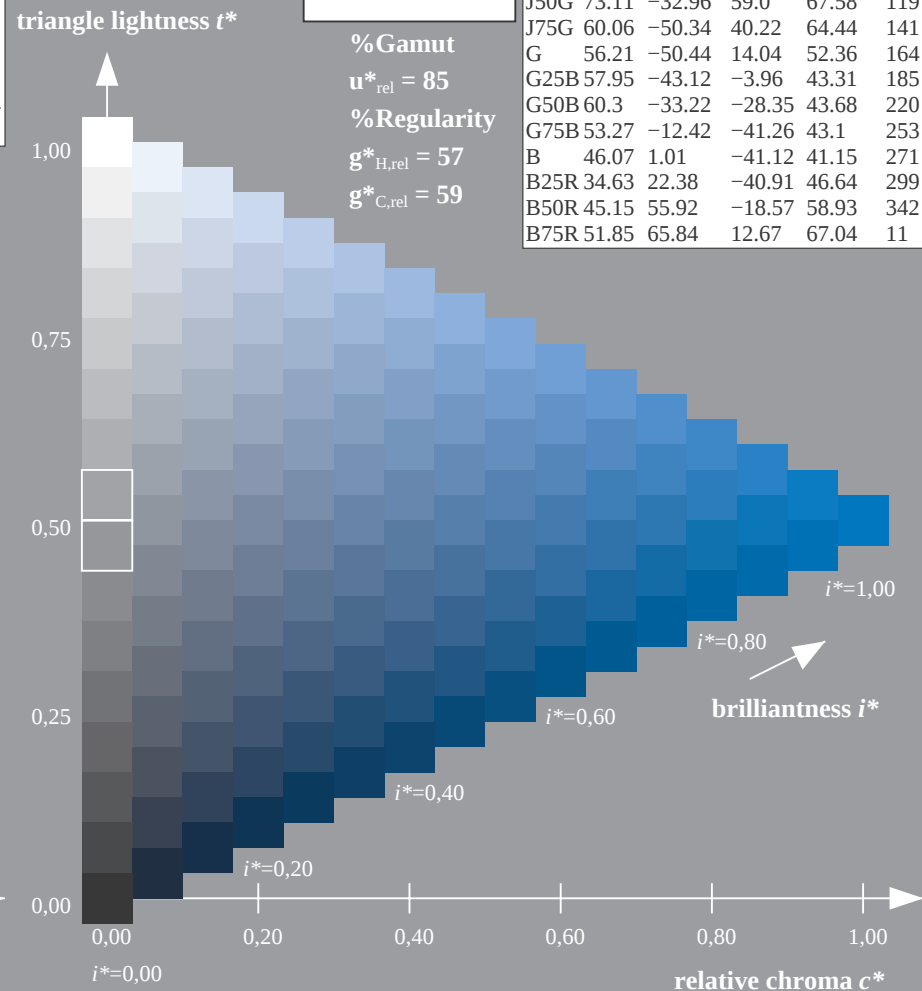
% Gamut

$$u_{\text{rel}}^* = 85$$

%Regularity

$$g^*_{H_{rel}} = 57$$
$$\mathbf{g}_{\text{C rel}}^* = 59$$

ORS18; adapted (a)		CIELAB data			
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11



ZE920-7N, 16 step scales for constant CIELAB hue 271/360 = 0.754 (right)

input: *rgb / cmy0* set(*rgb/cmyk*)color

output: $\rightarrow cmyk5^* setcmykcolor$

Input: Colorimetric Offset Reflective System ORS18

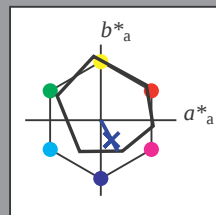
for hue $h^* = lab^*h = 299/360 = 0.83$

lab*tch and lab*nch

D65: hue B25R

LCH*Ma: 35 47 299

olv*Ma: 0.0 0.11 1.0

triangle lightness t^*

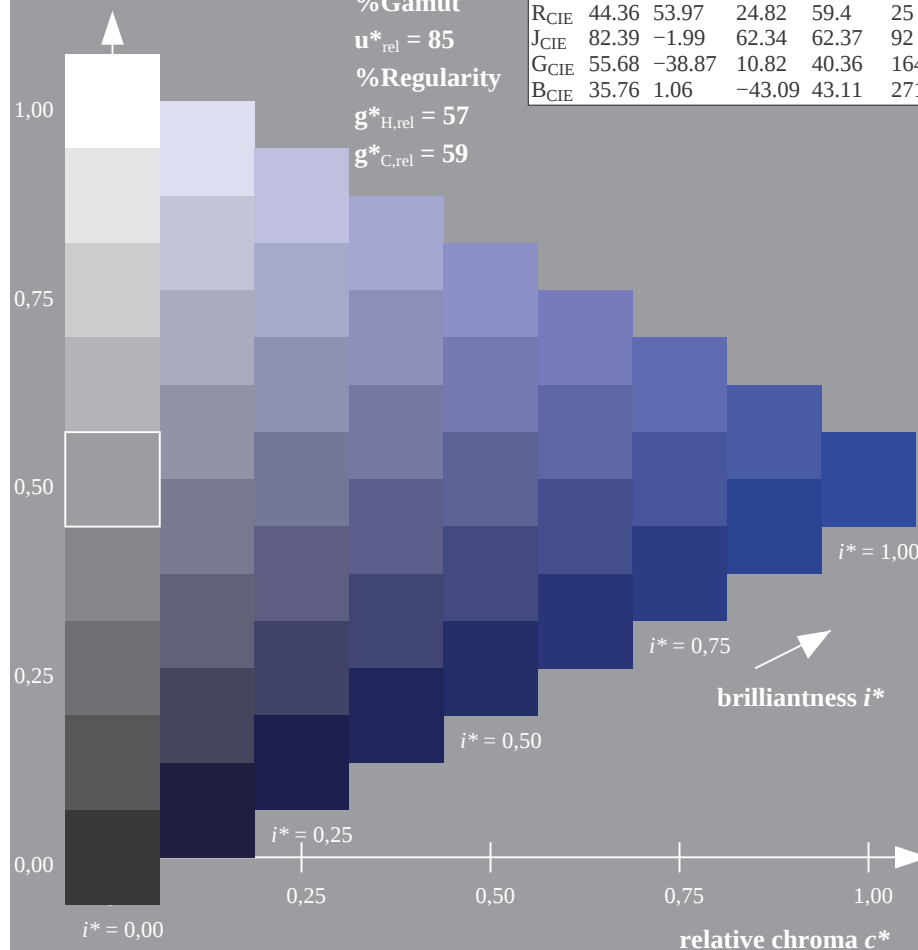
%Gamut

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

%Regularity

$$g^*_{H,rel} = 57$$
$$g^*_{C,rel} = 59$$

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



ZE920-7N, 9 step scales for constant CIELAB hue 299/360 = 0.83 (left)

BAM-test chart ZE92; Colorimetric systems, Page 30/96
D65: 9 and 16 step colour scales for 16 elementary hues

Output: Colorimetric Offset Reflective System ORS18

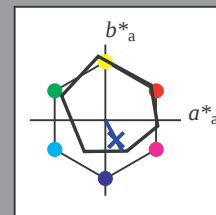
for hue $h^* = lab^*h = 299/360 = 0.83$

lab*tch and lab*nch

D65: hue B25R

LCH*Ma: 35 47 299

olv*Ma: 0.0 0.11 1.0

triangle lightness t^*

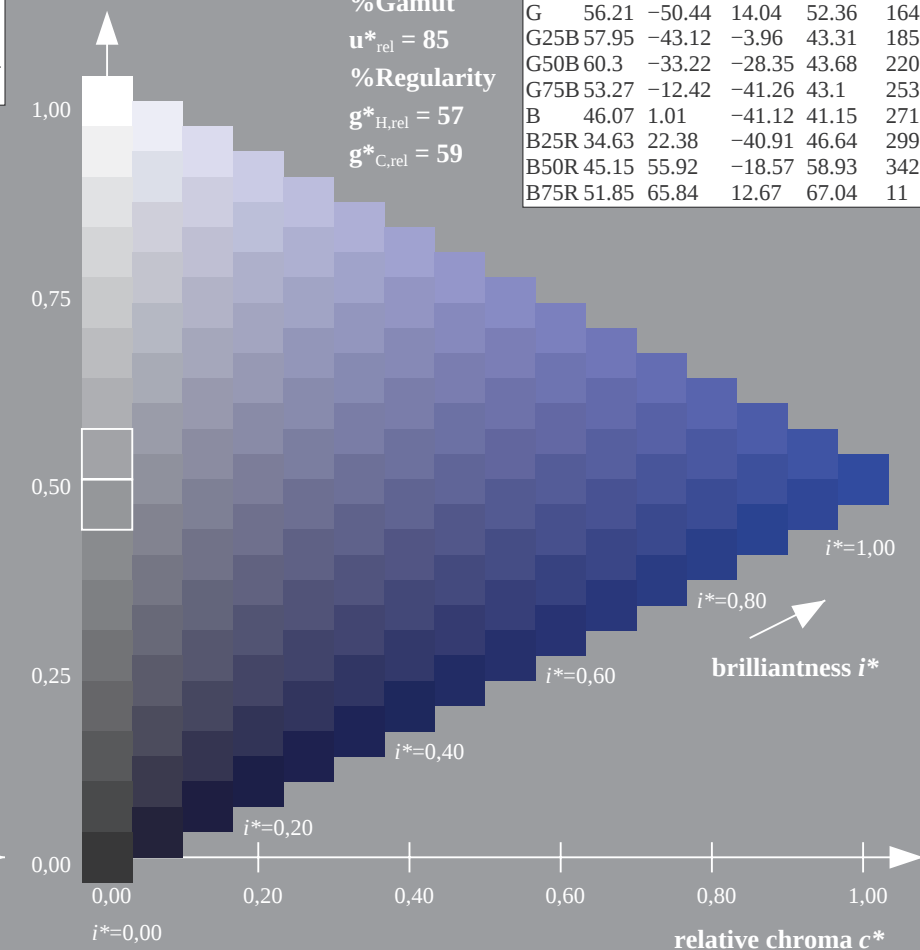
%Gamut

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

%Regularity

$$g_{\text{H,rel}}^* = 57$$
$$g^*_{C,rel} = 59$$

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



ZE920-7N, 16 step scales for constant CIELAB hue 299/360 = 0.83 (right)

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

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 342/360 = 0.949$

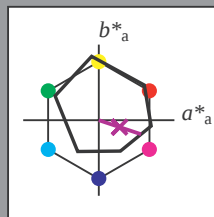
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 45 59 342

olv*Ma: 0.67 0.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 342/360 = 0.949$

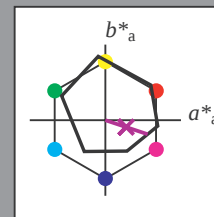
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 45 59 342

olv*Ma: 0.67 0.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11

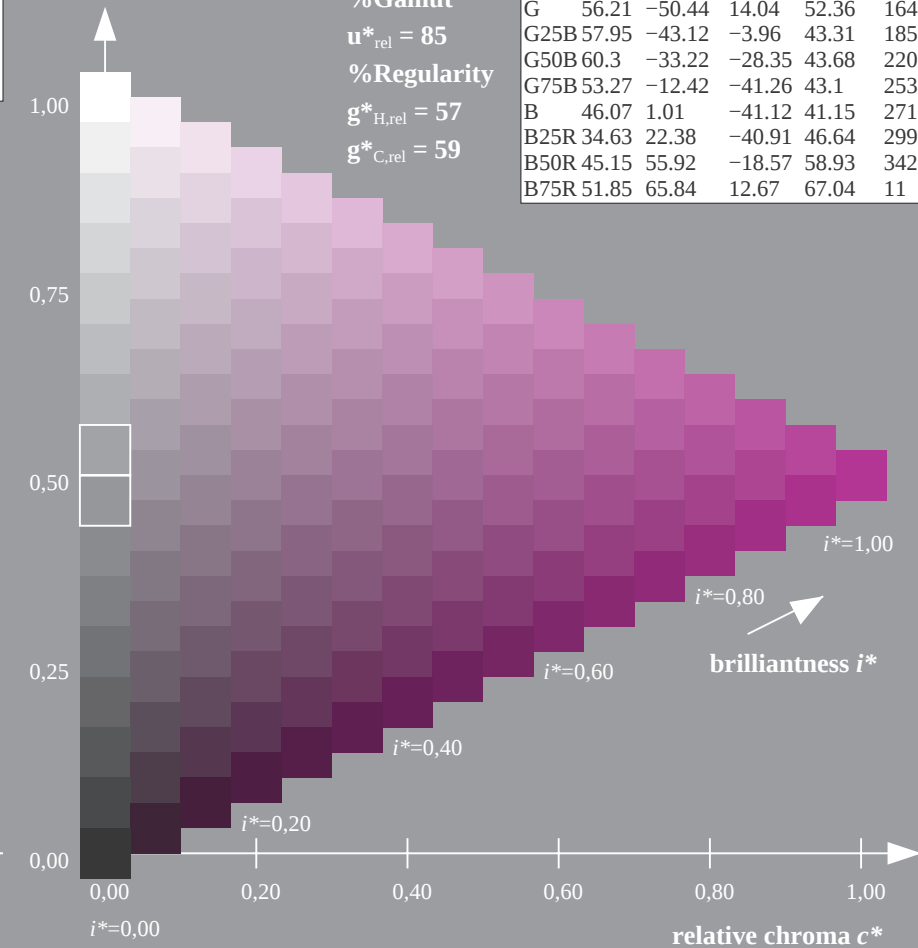
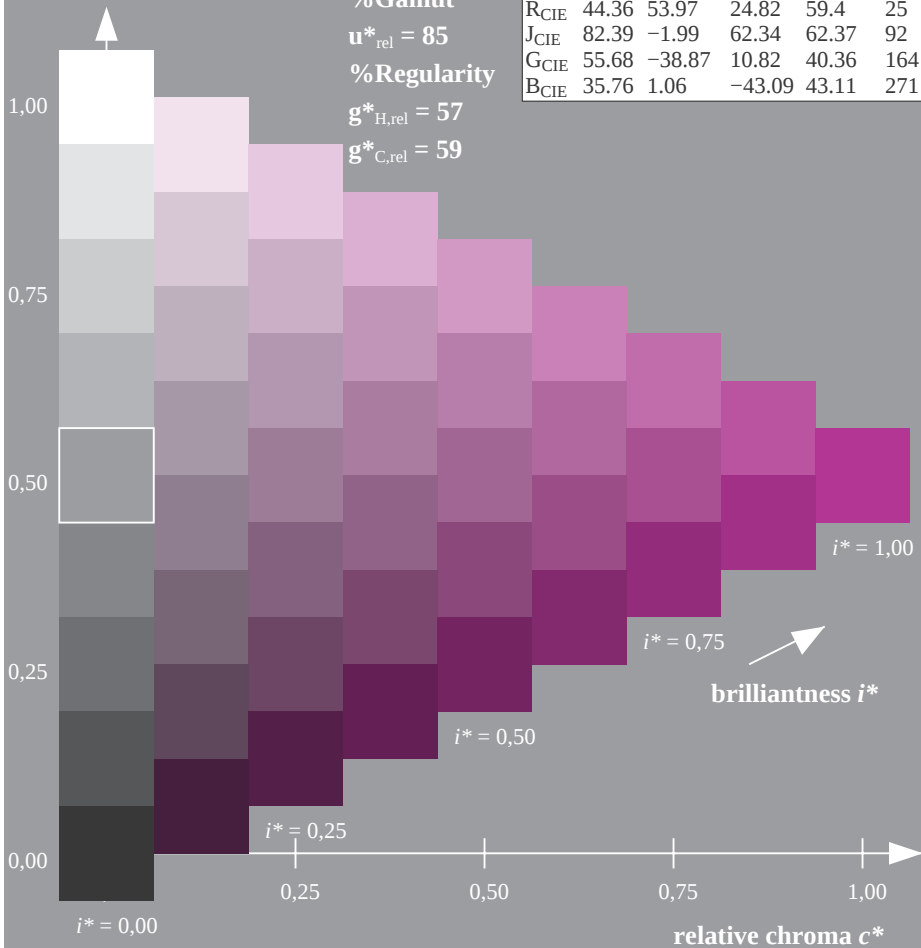
%Gamut

$u^*_{rel} = 85$

%Regularity

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

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



ZE920-7N, 9 step scales for constant CIELAB hue 342/360 = 0.949 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 342/360 = 0.949 (right)

BAM-test chart ZE92; Colorimetric systems, Page 31/96

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

input: `rgb / cmy0 set(rgb/cmyk)color`

output: `->cmy5* setcmykcolor`

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 11/360 = 0.03$

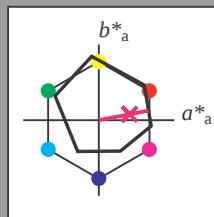
lab^*tch and lab^*nch

D65: hue B75R

LCH*Ma: 52 67 11

olv*Ma: 1.0 0.0 0.62

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 11/360 = 0.03$

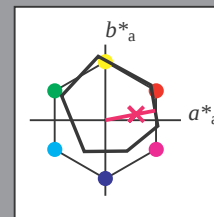
lab^*tch and lab^*nch

D65: hue B75R

LCH*Ma: 52 67 11

olv*Ma: 1.0 0.0 0.62

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11

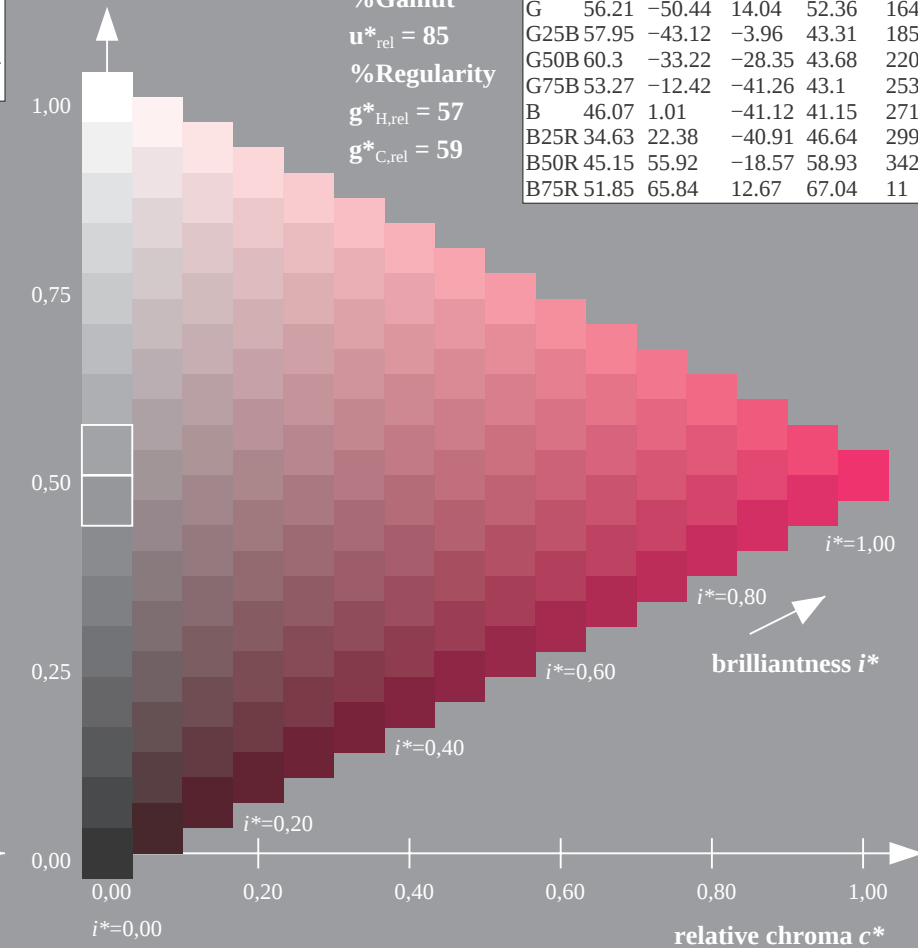
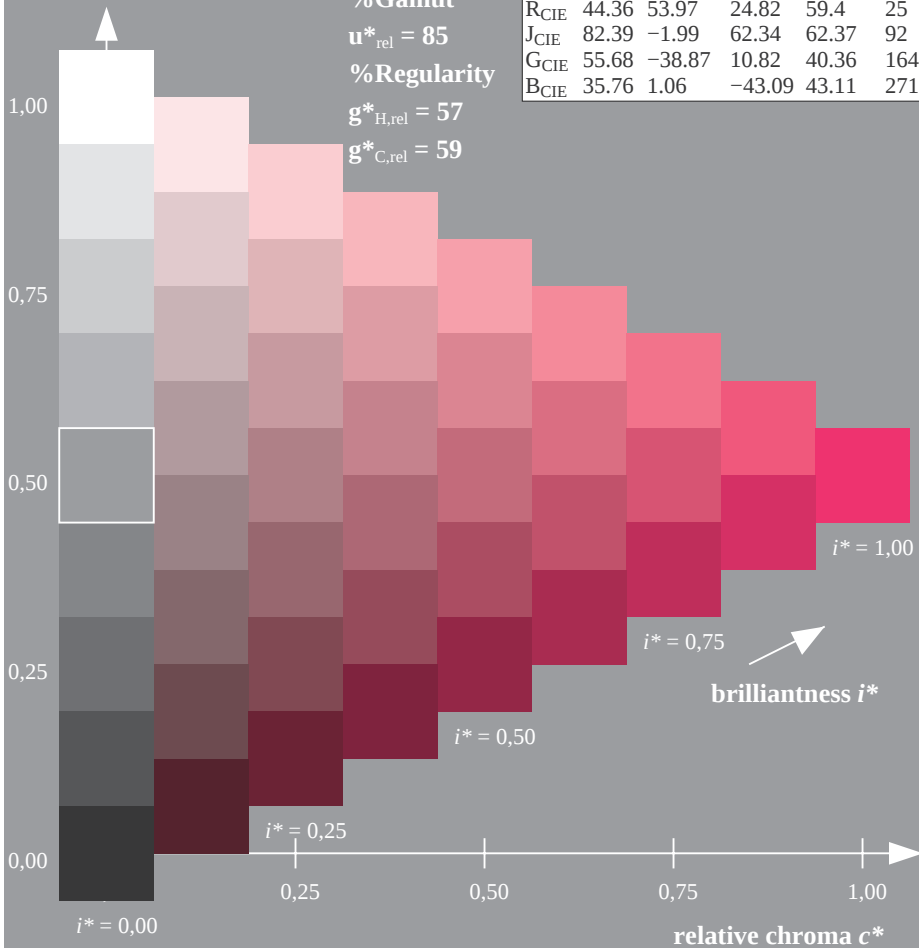
%Gamut

$u^*_{rel} = 85$

%Regularity

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

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



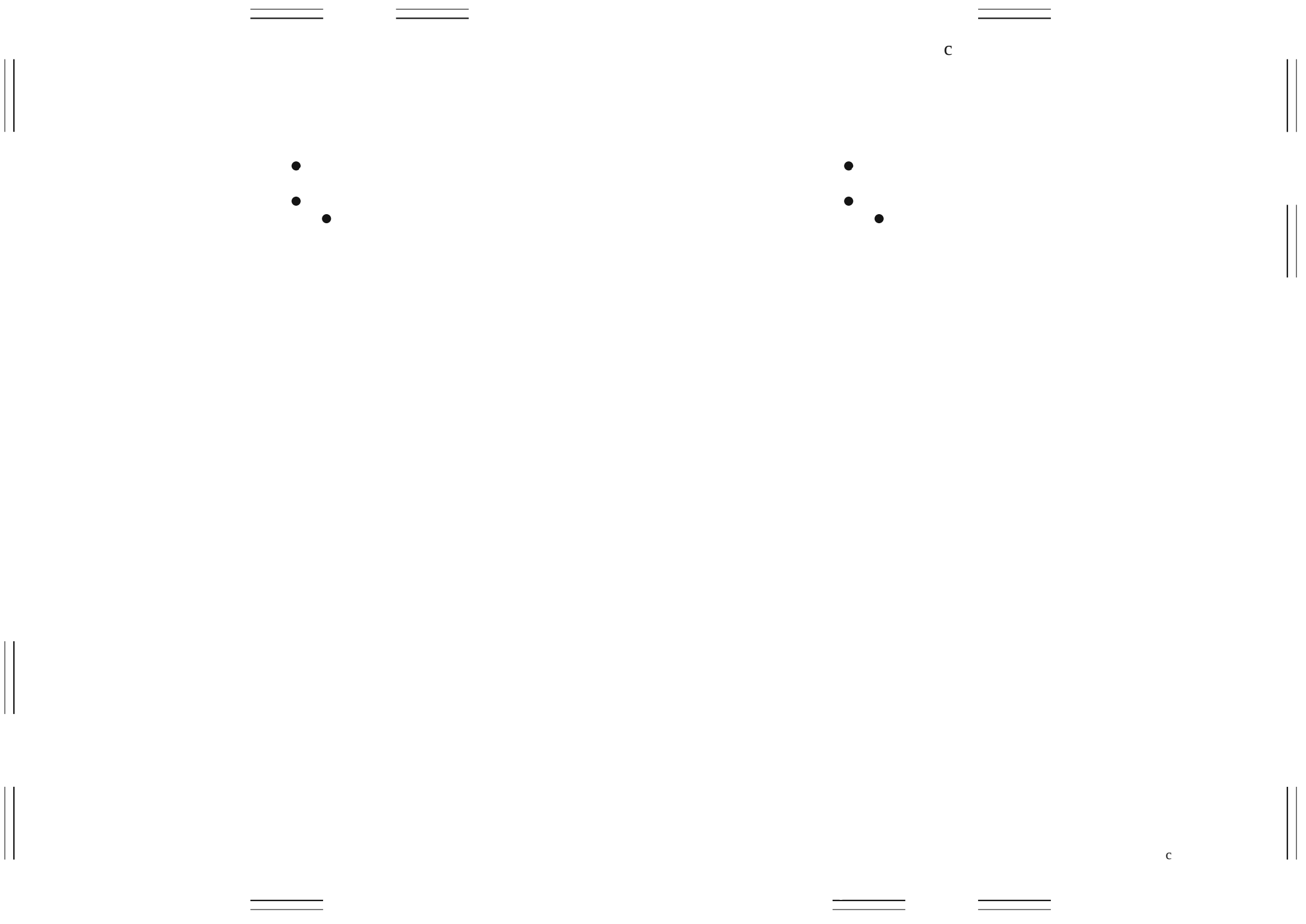
ZE920-7N, 9 step scales for constant CIELAB hue 11/360 = 0.03 (left)

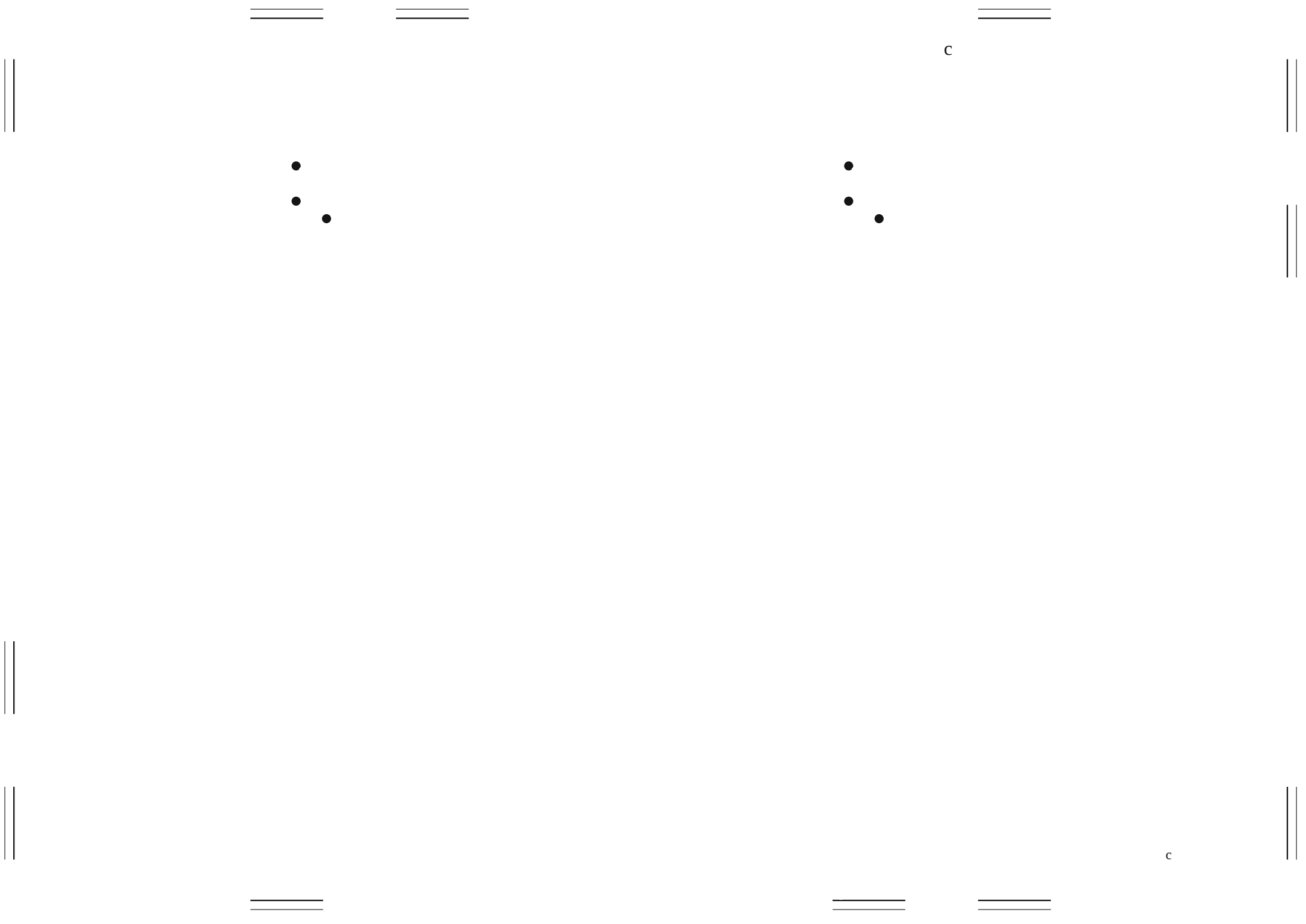
Page 32/96

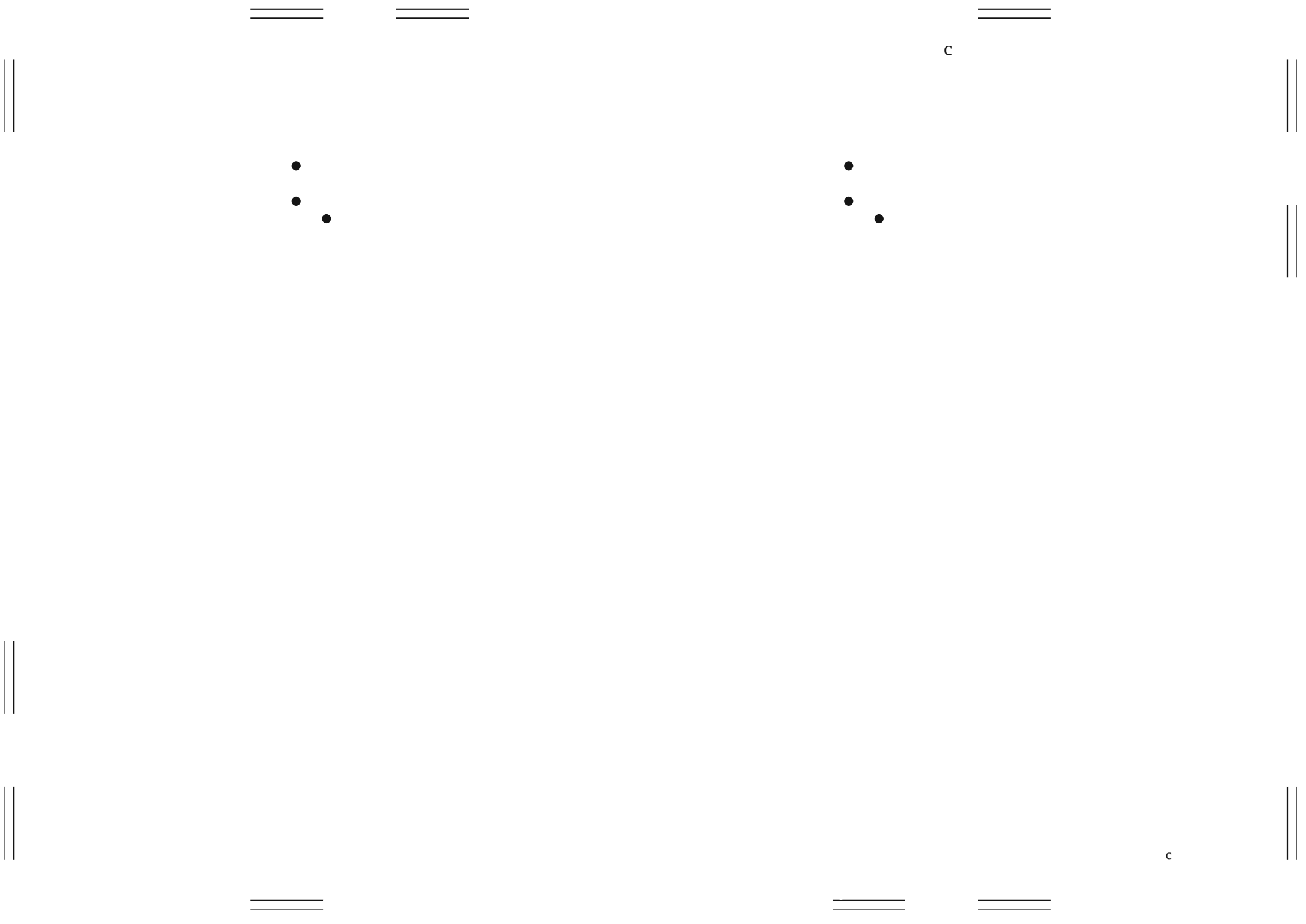
ZE920-7N, 16 step scales for constant CIELAB hue 11/360 = 0.03 (right)

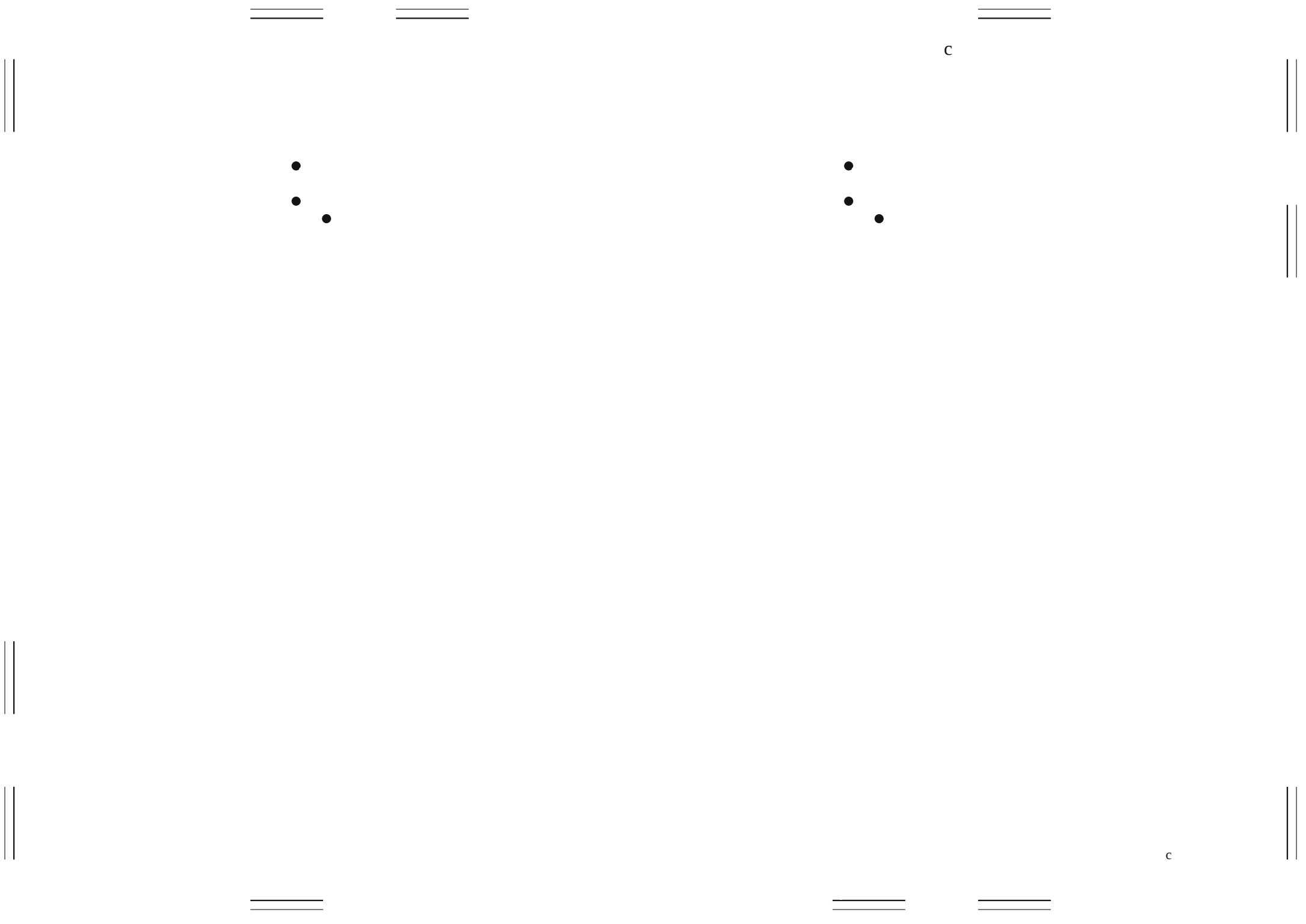
BAM-test chart ZE92; Colorimetric systems, Page 32/96
D65: 9 and 16 step colour scales for 16 elementary hues

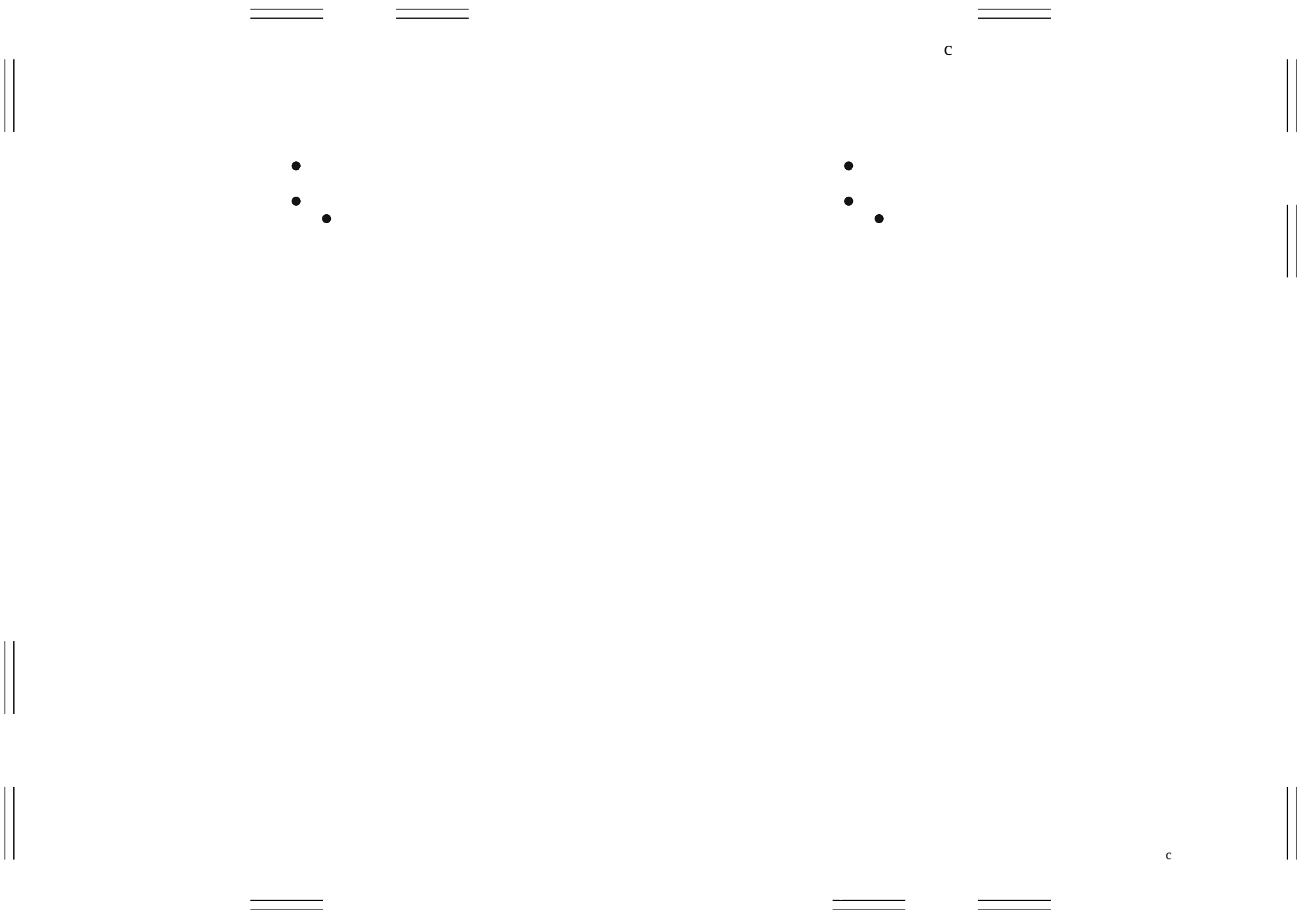
input: $rgb / cmy0$ set($rgb/cmyk$)color
output: $->cmy5^*$ setcmykcolor

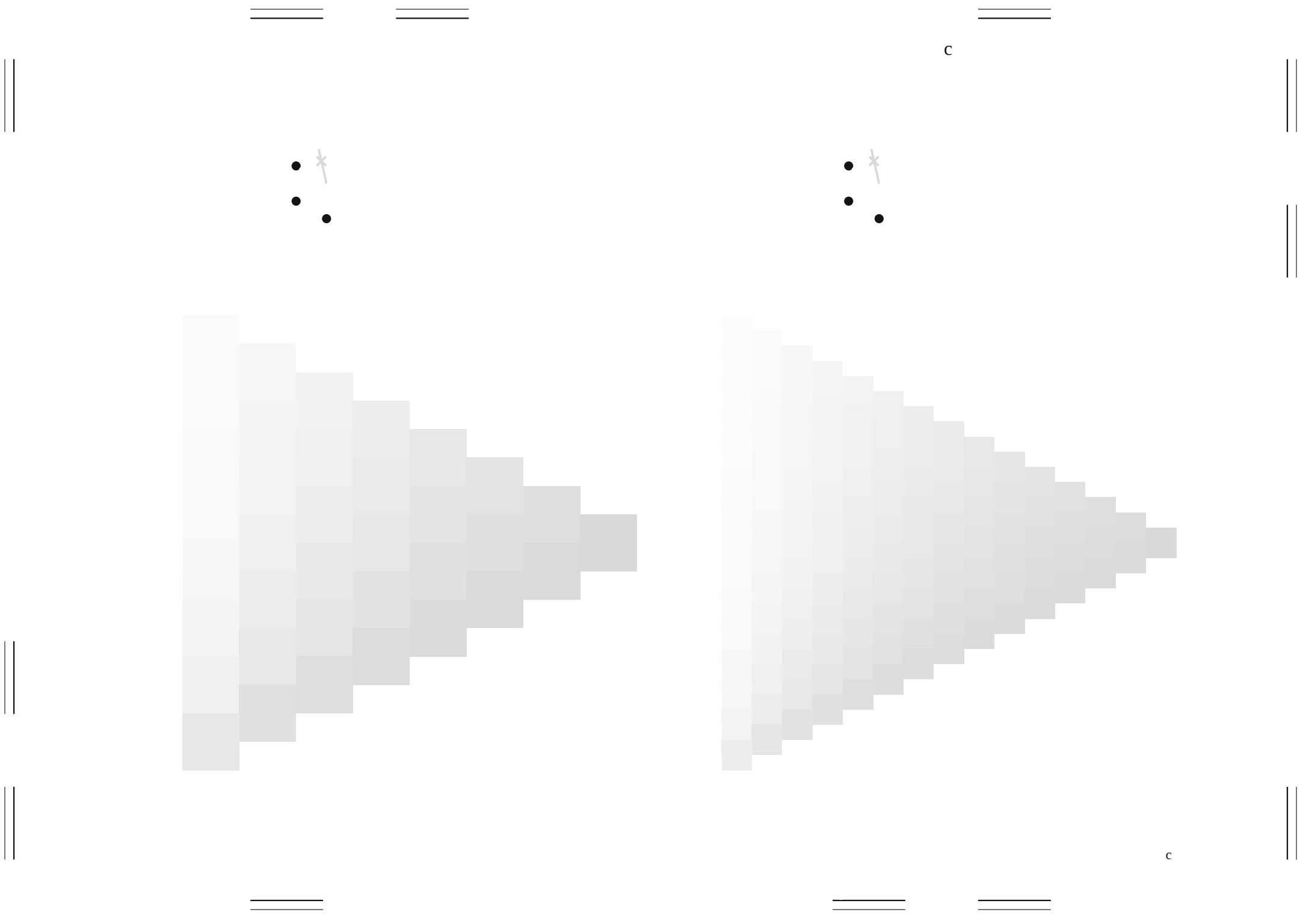


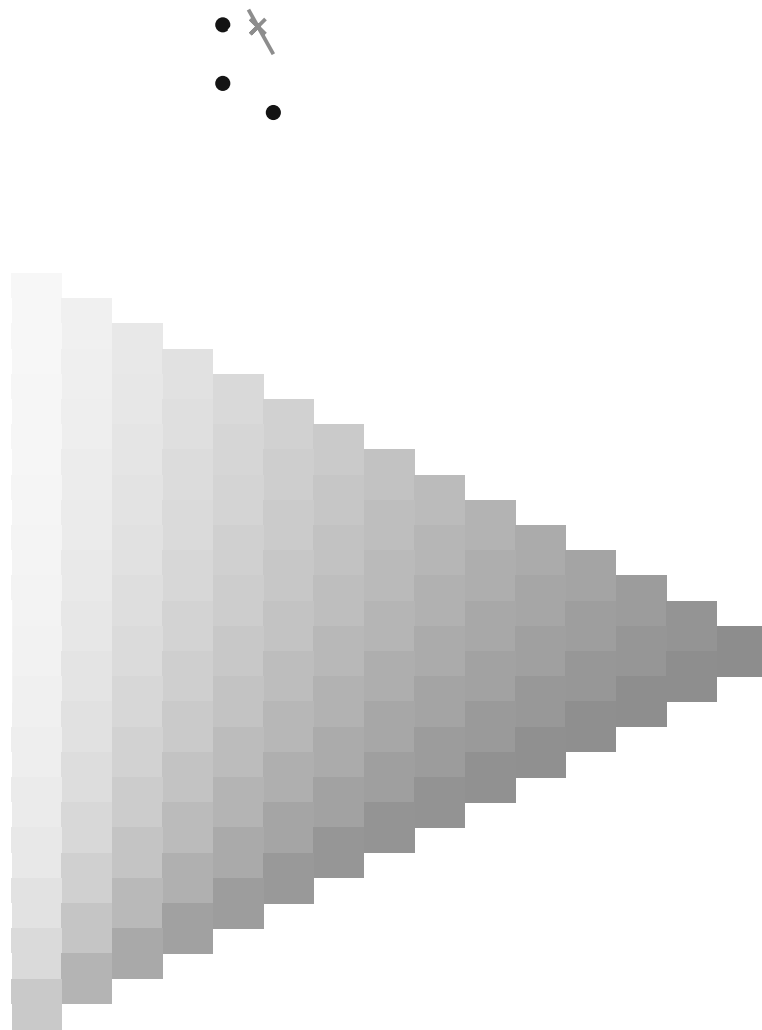
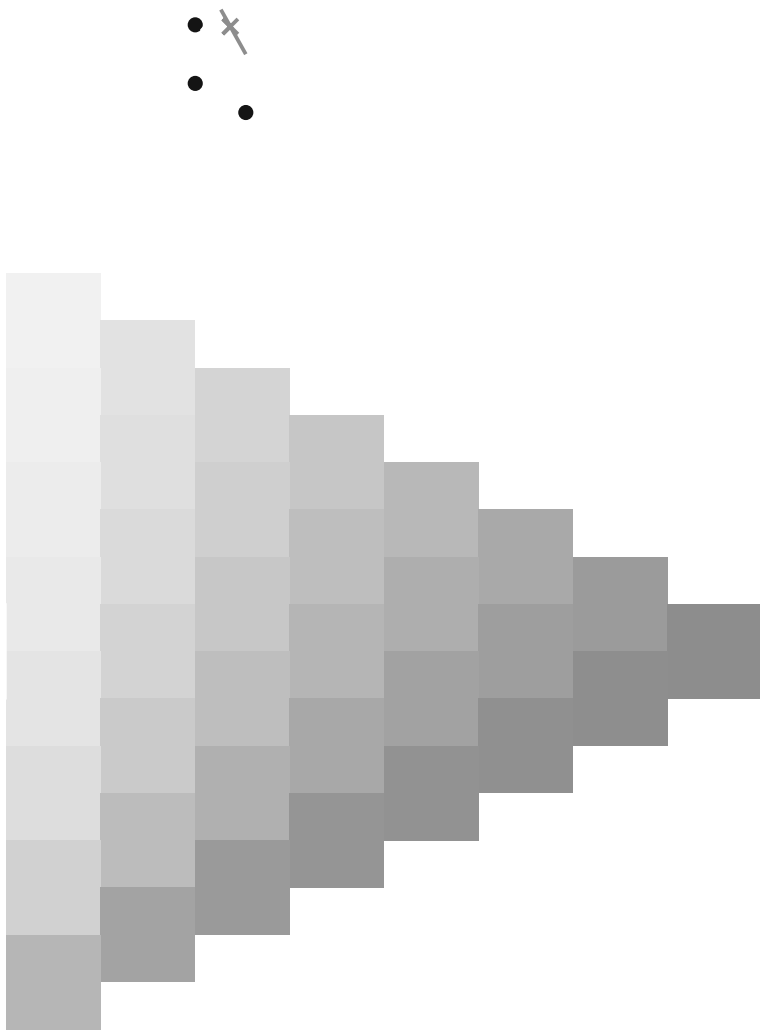








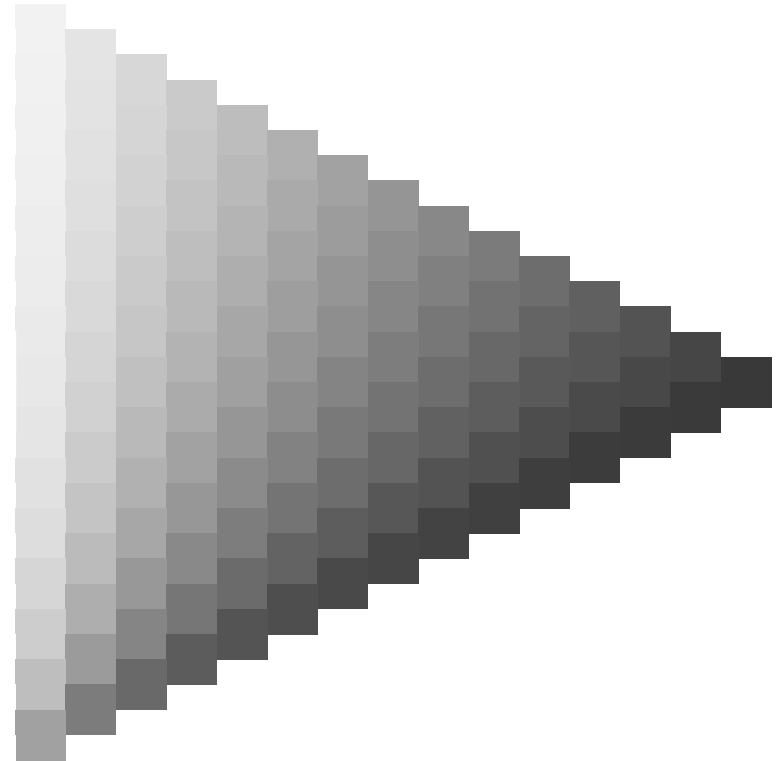
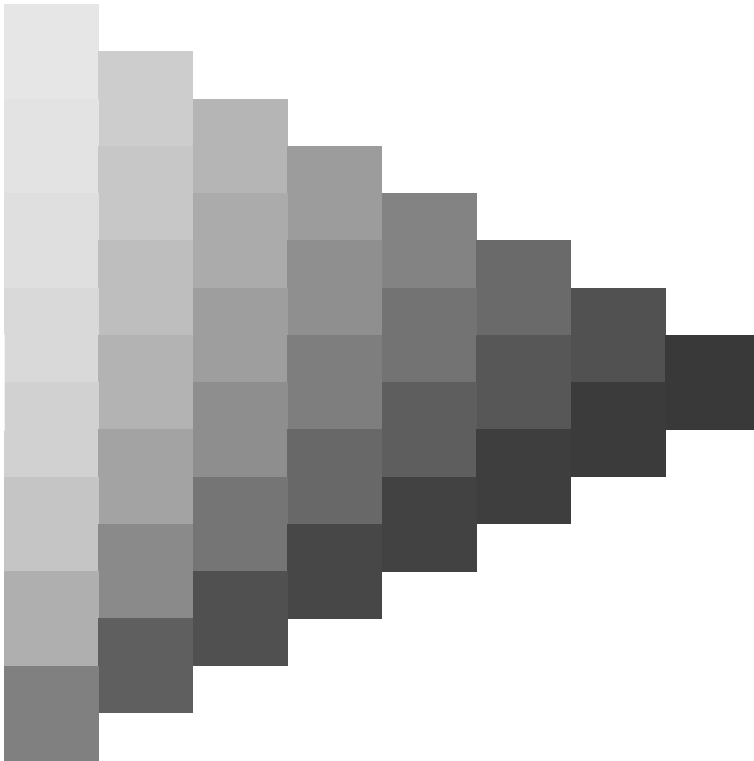




c

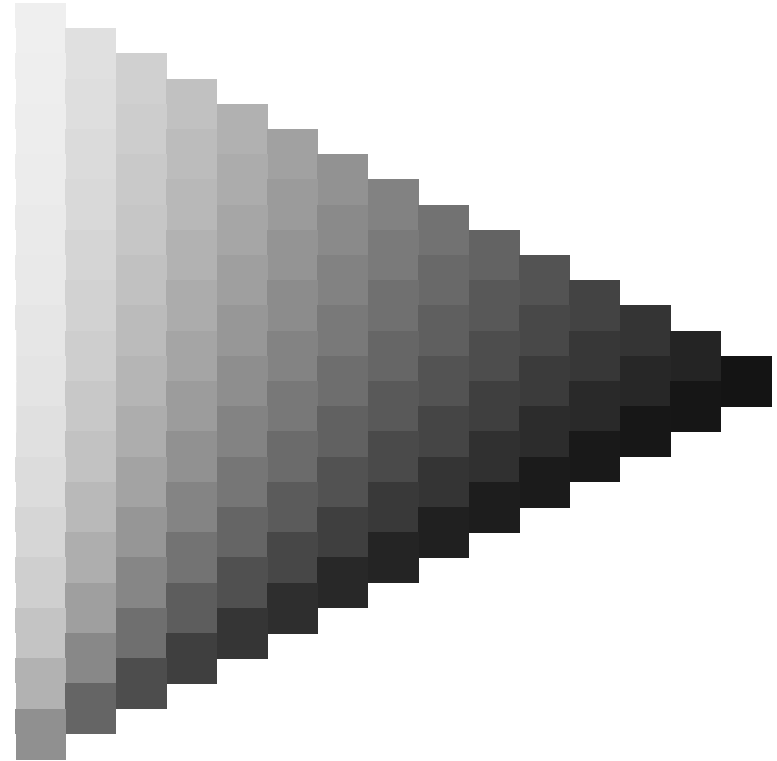
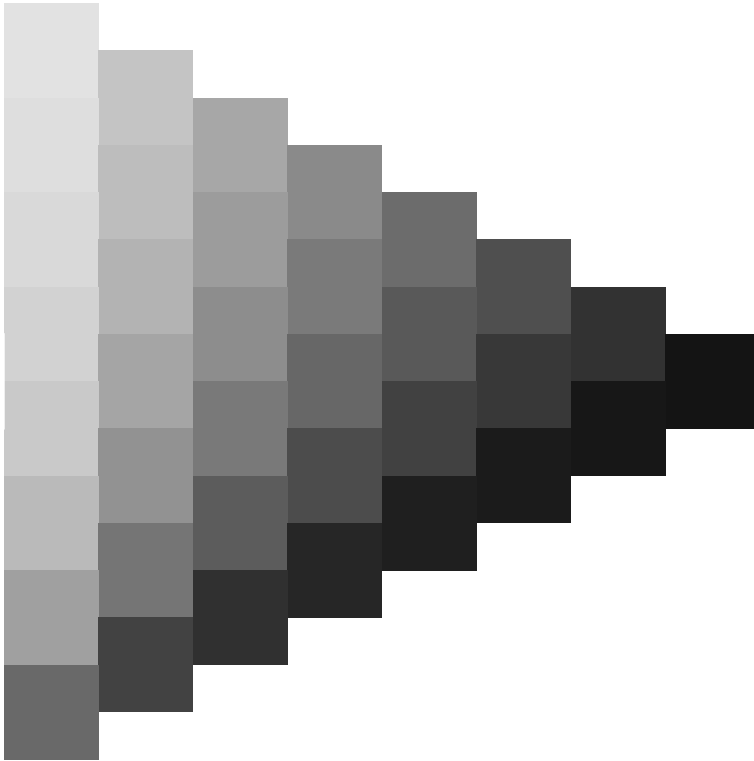
c

c



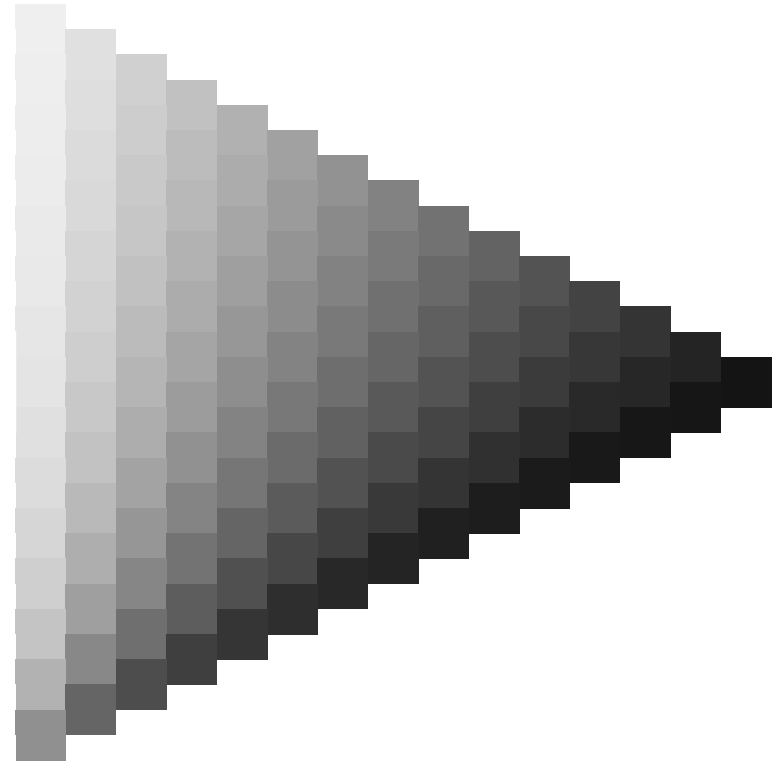
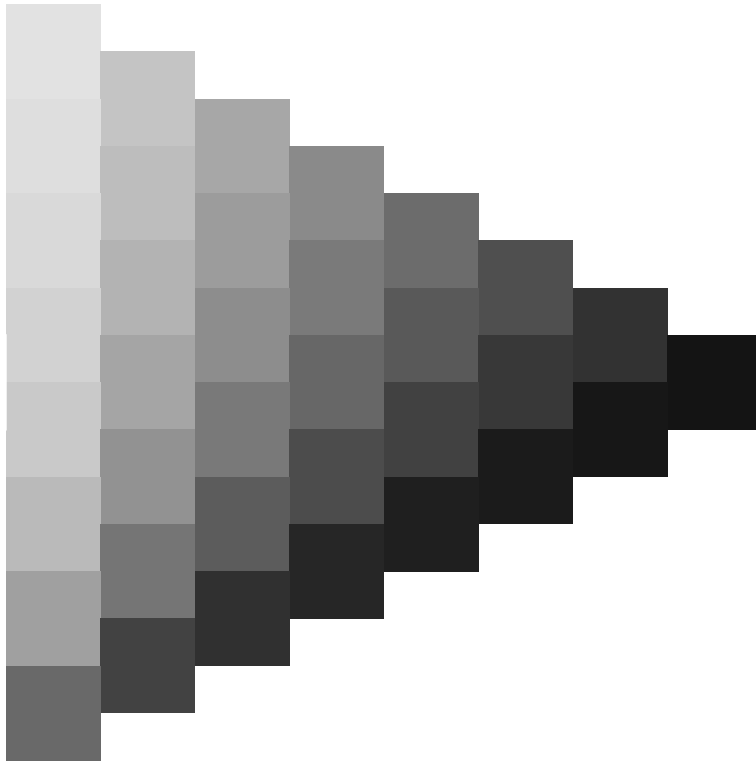
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c



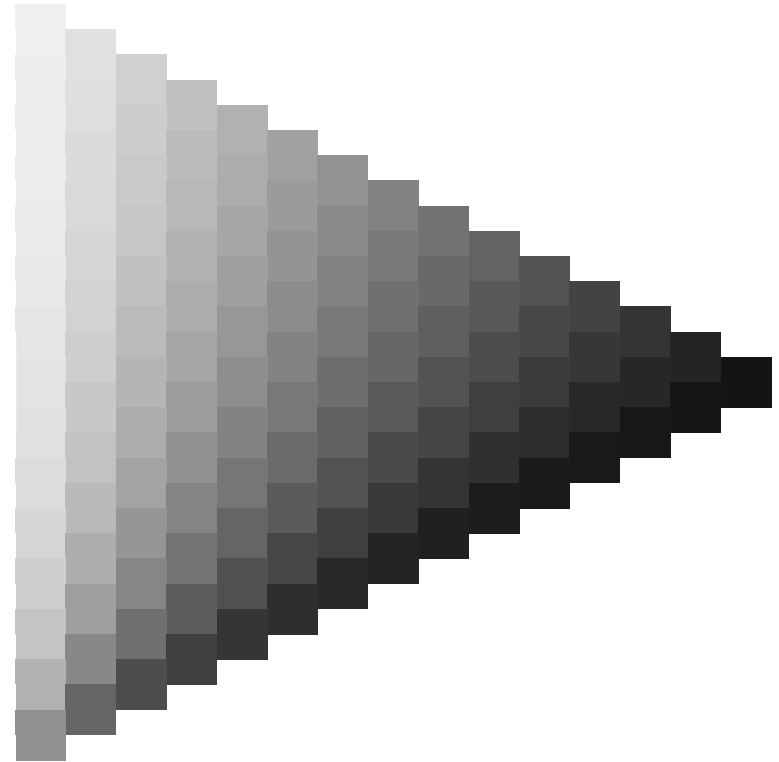
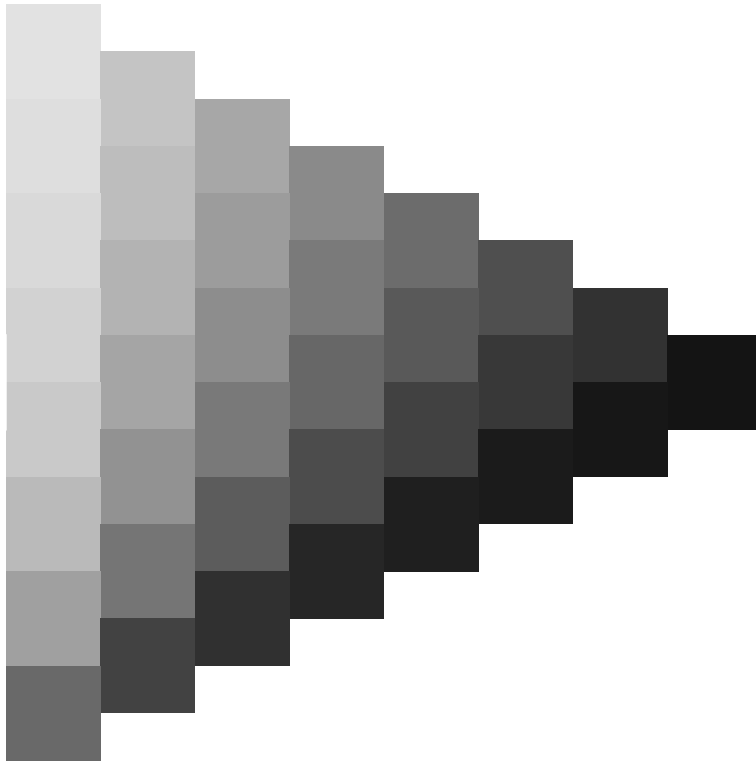
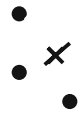
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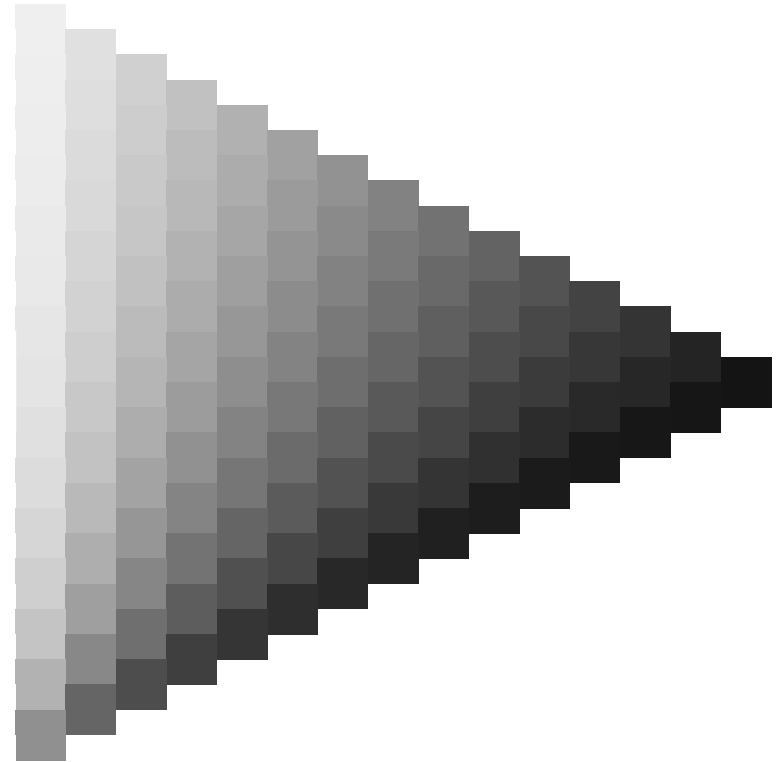
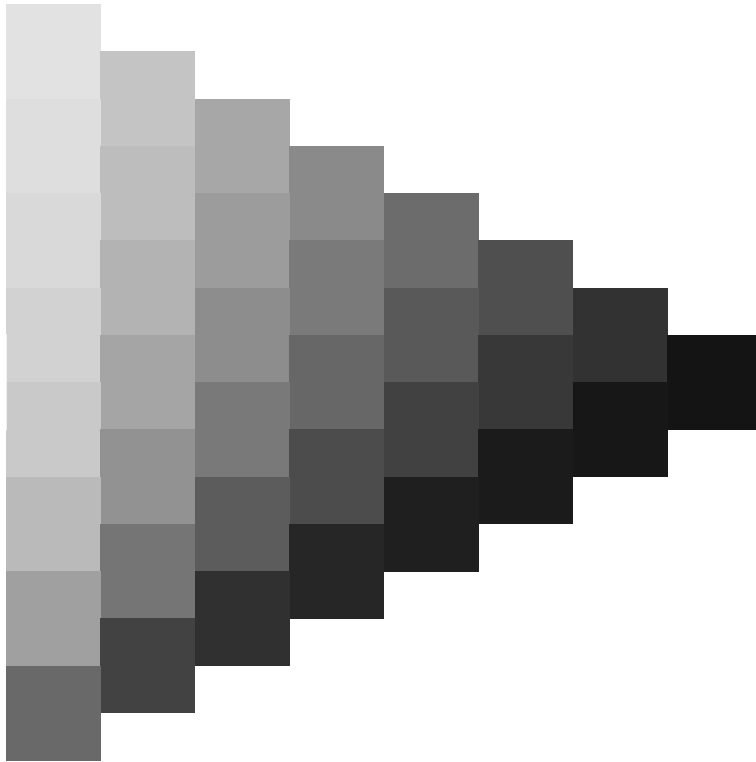
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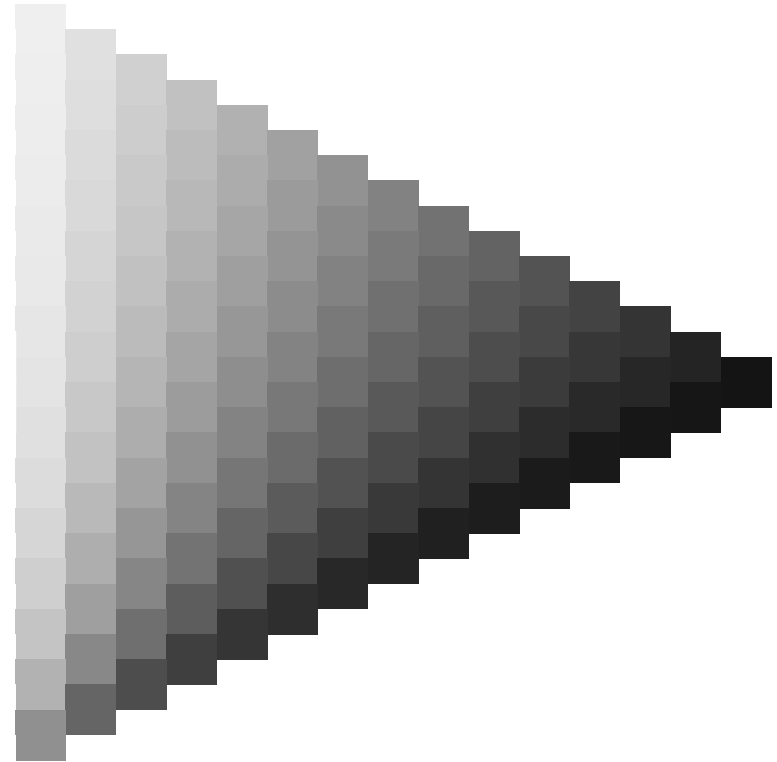
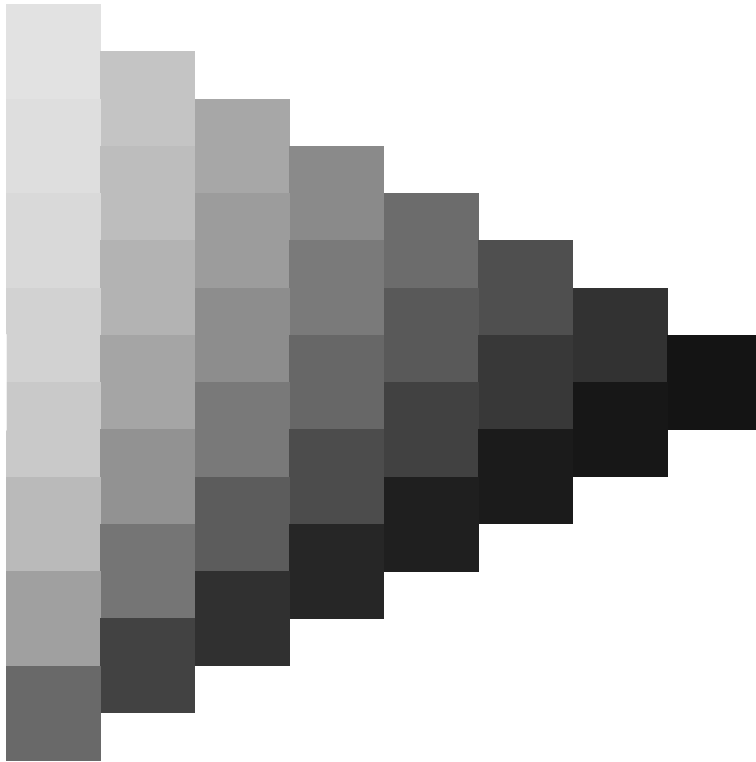
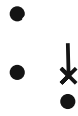
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c



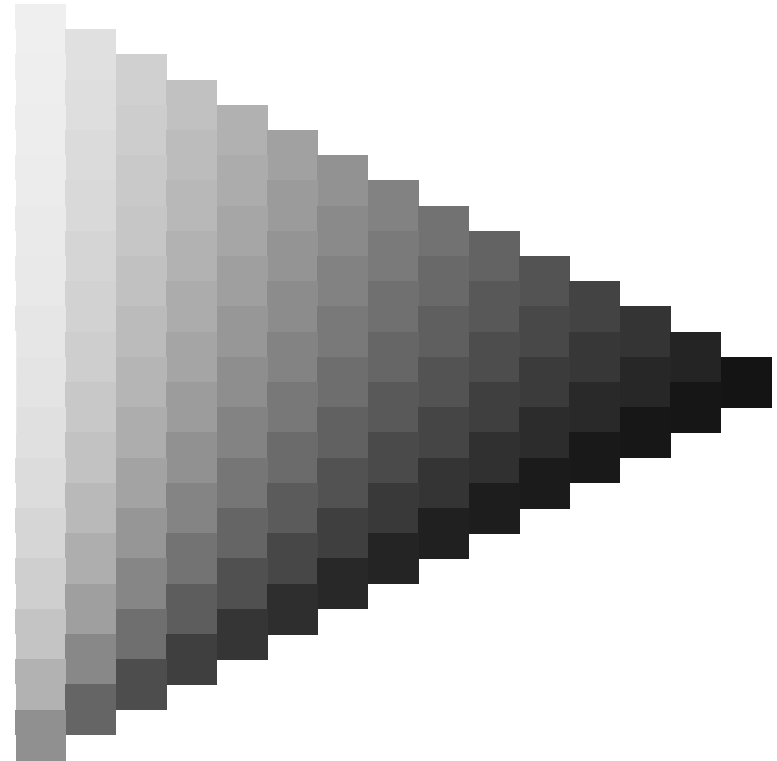
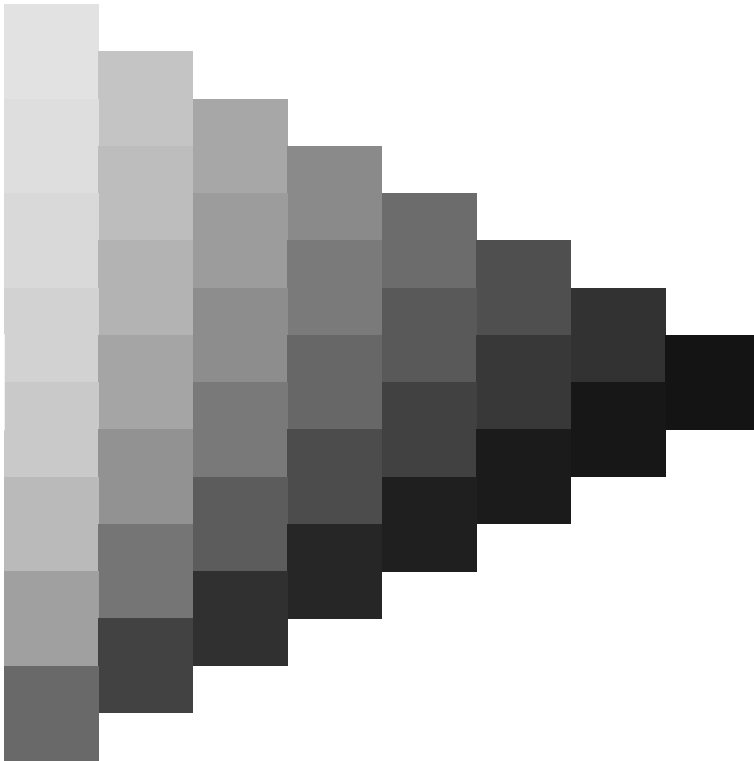
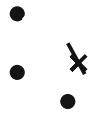
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c



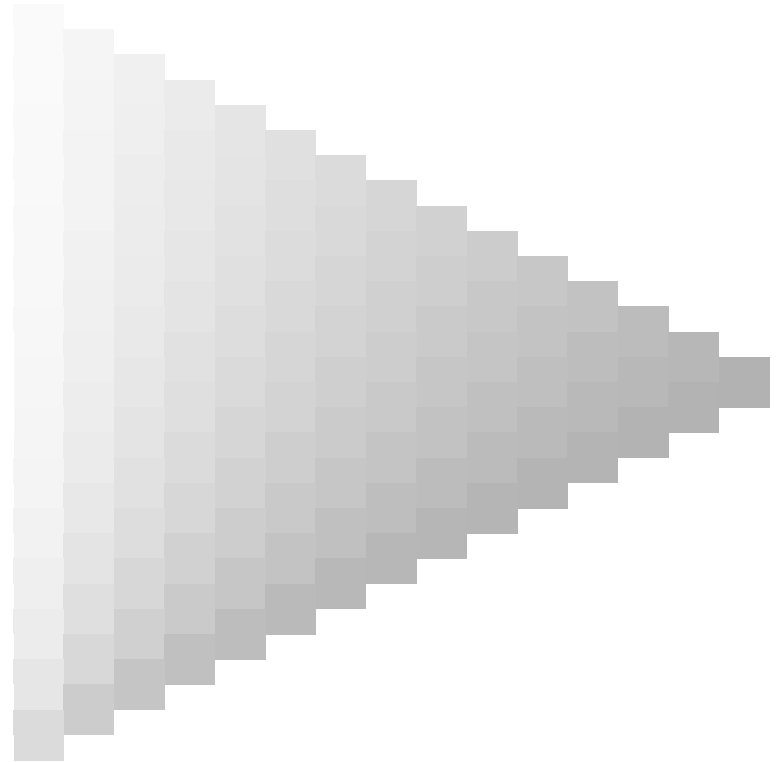
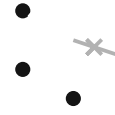
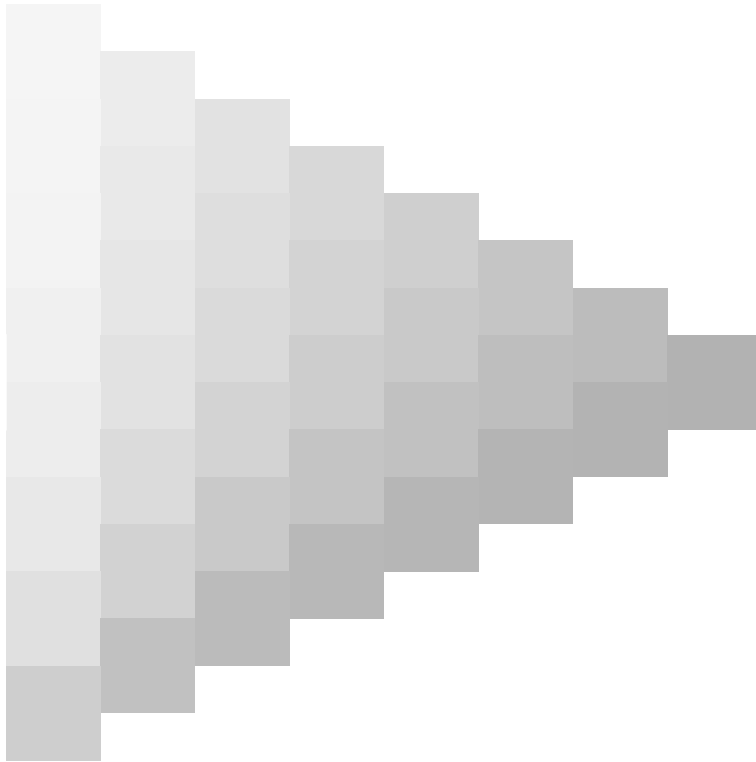
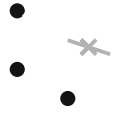
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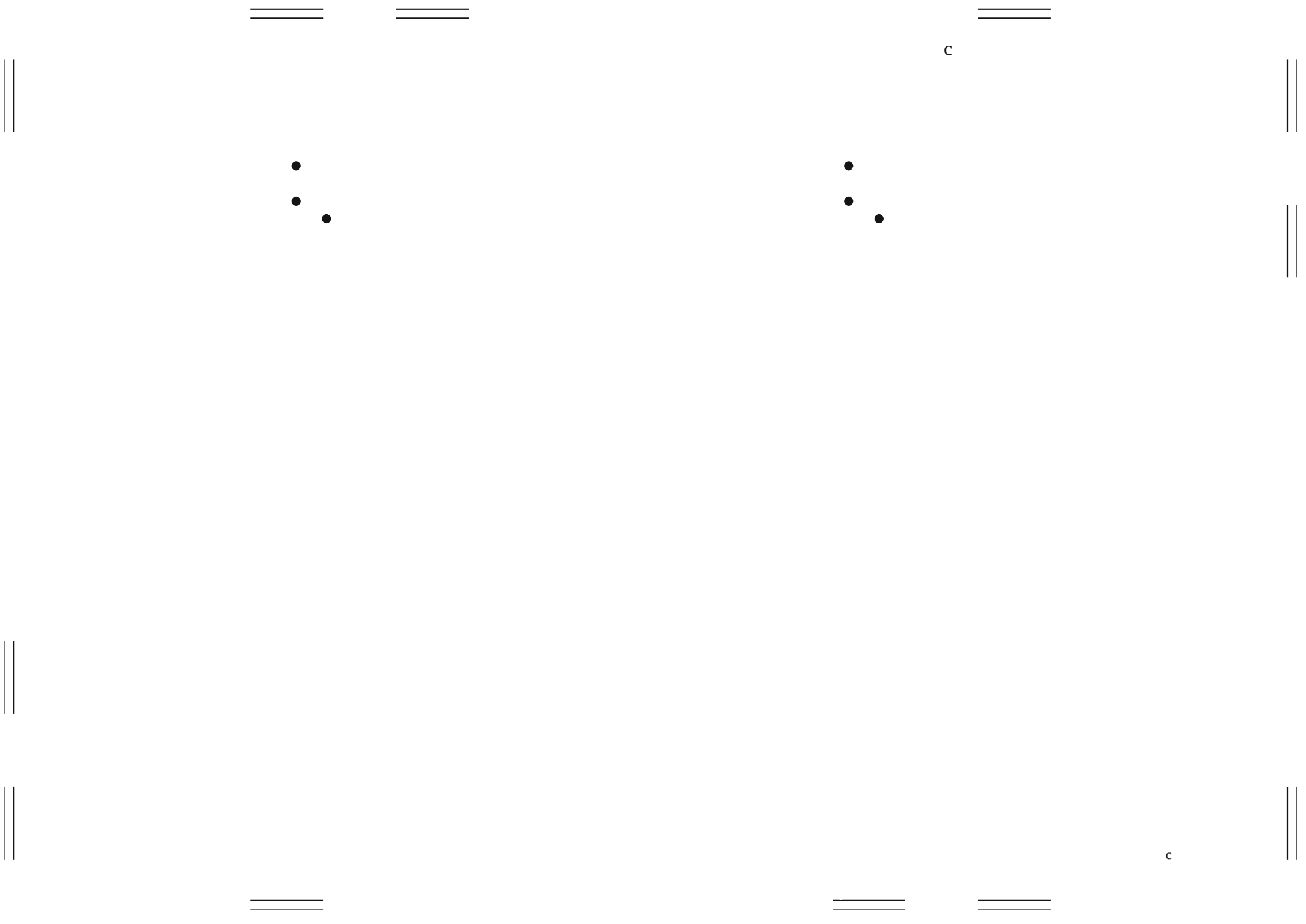


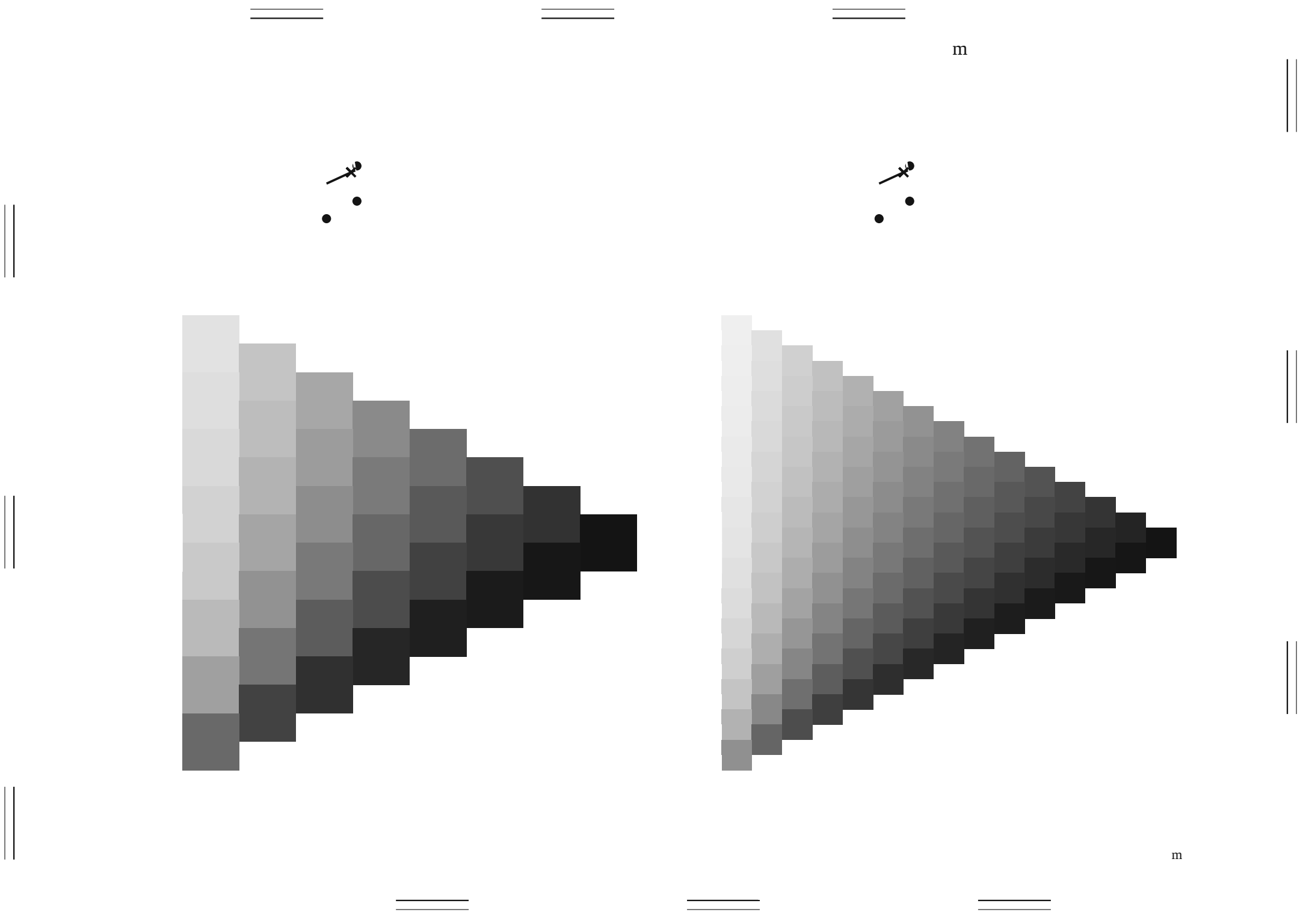
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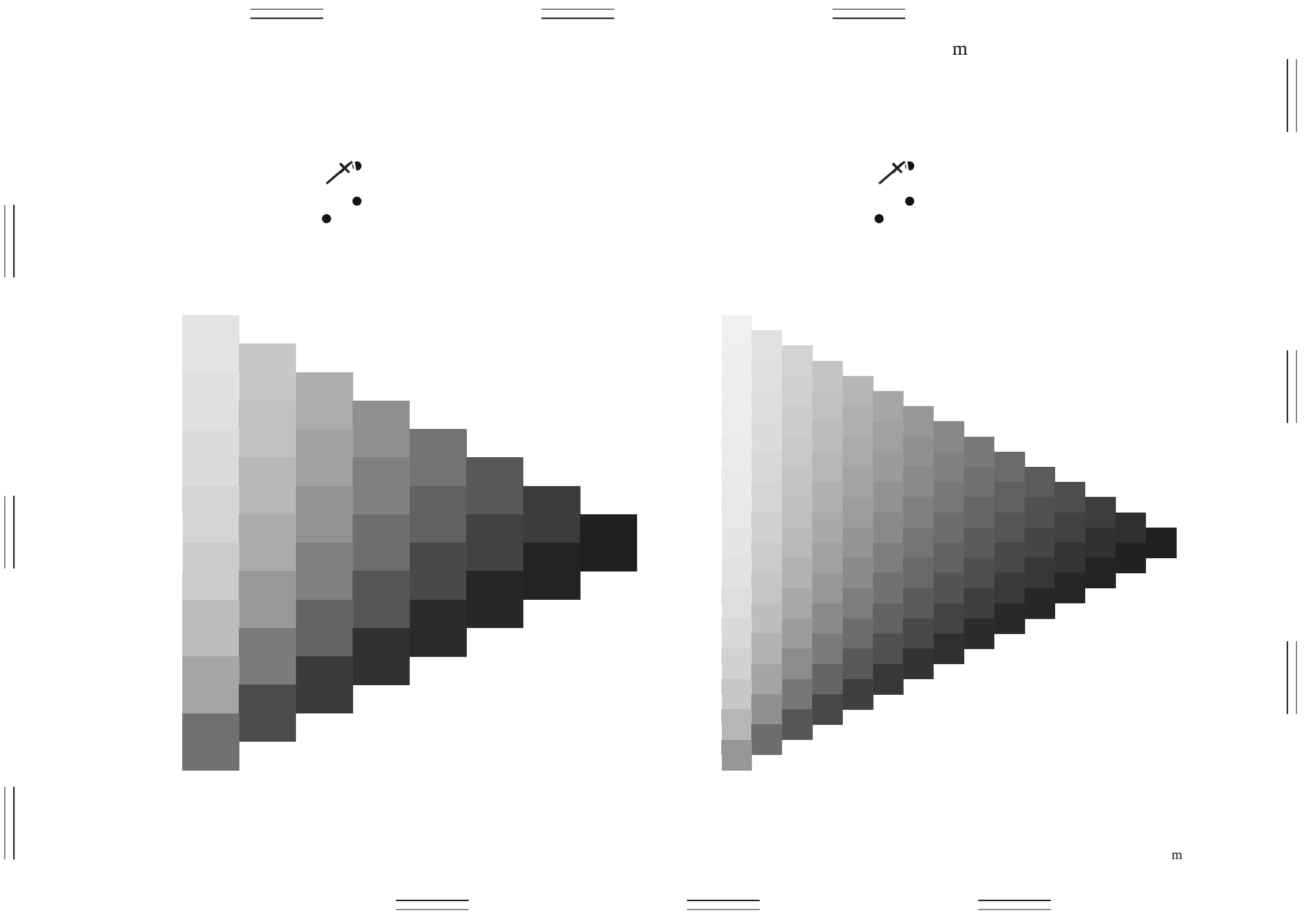
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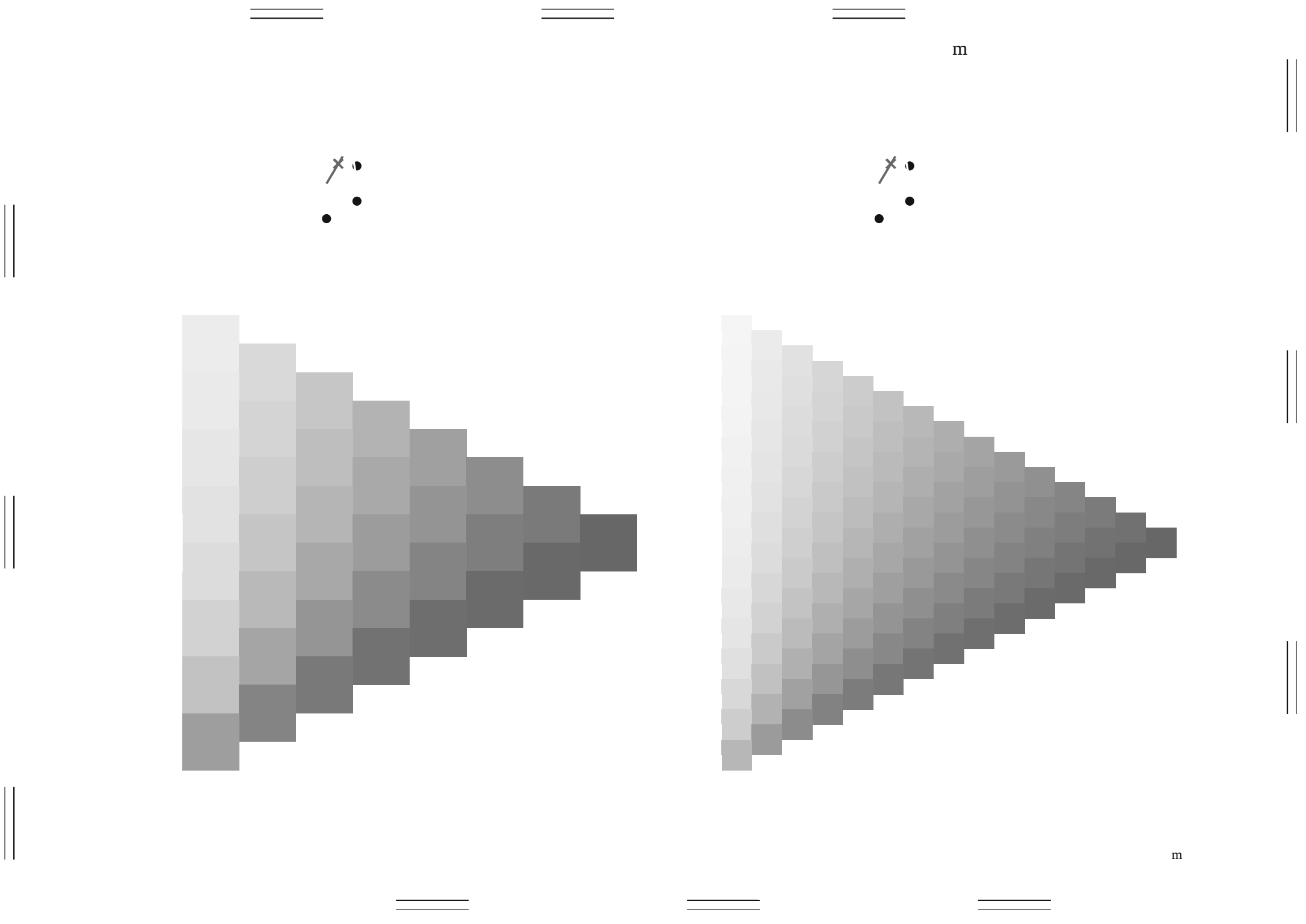


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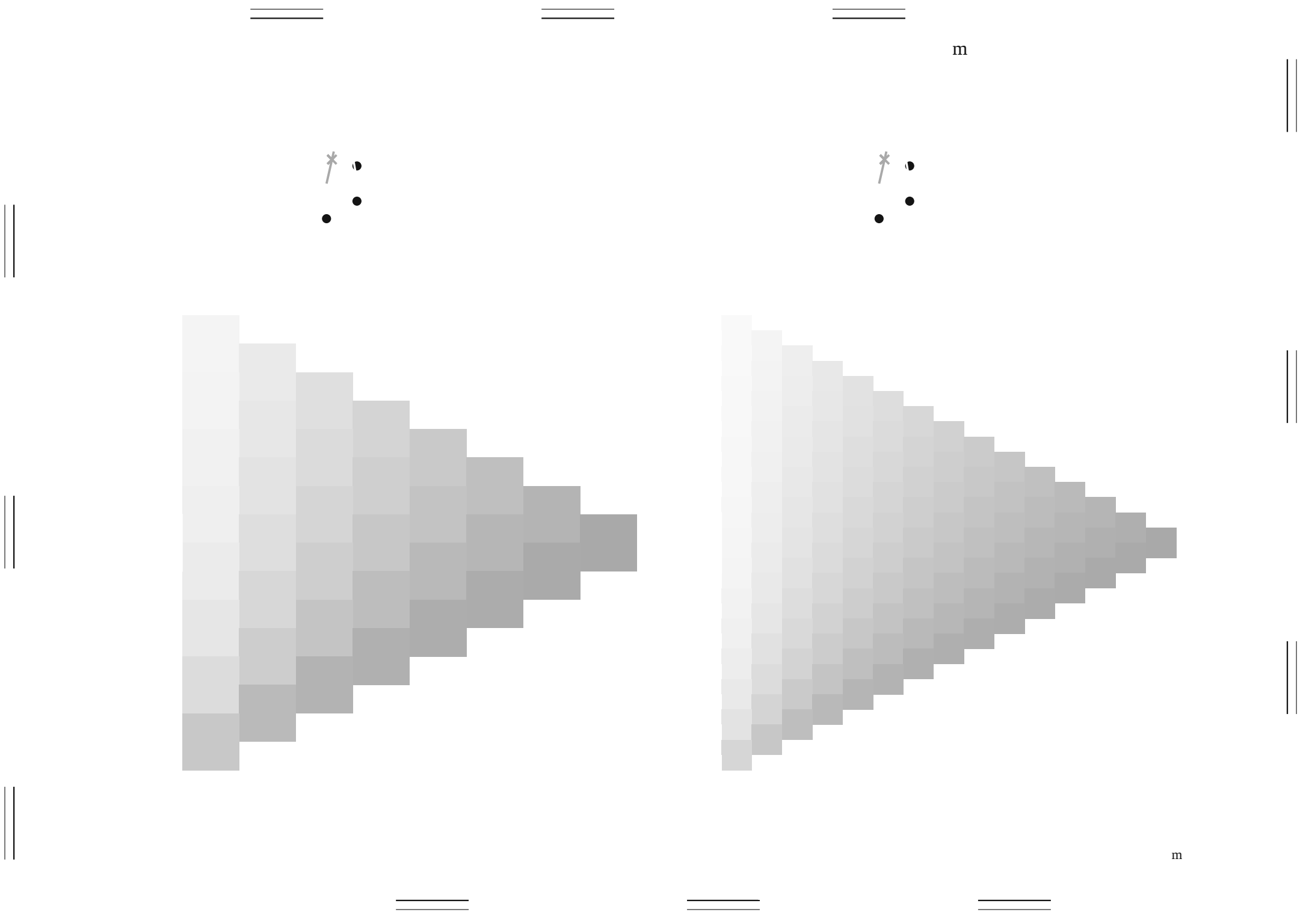


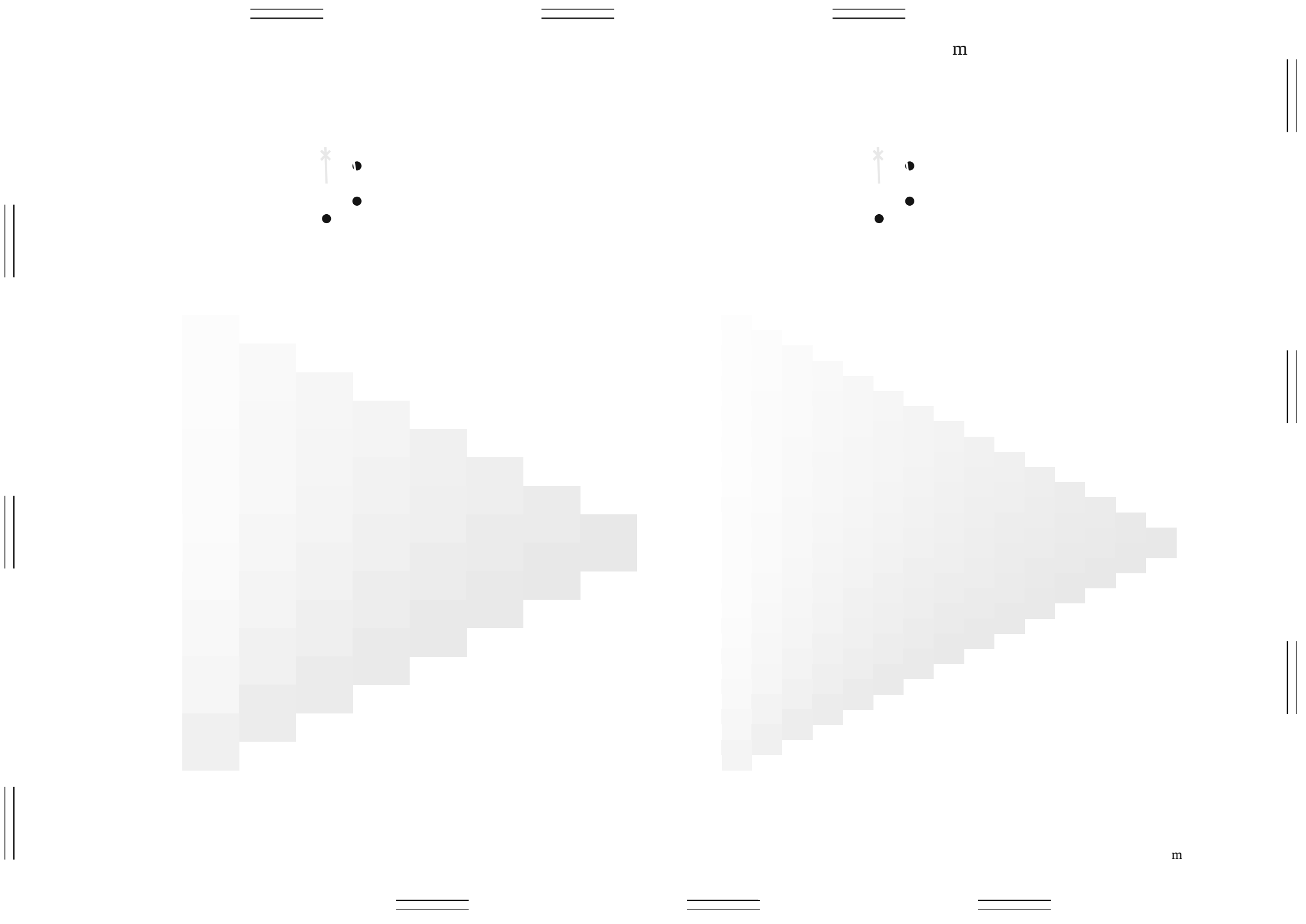


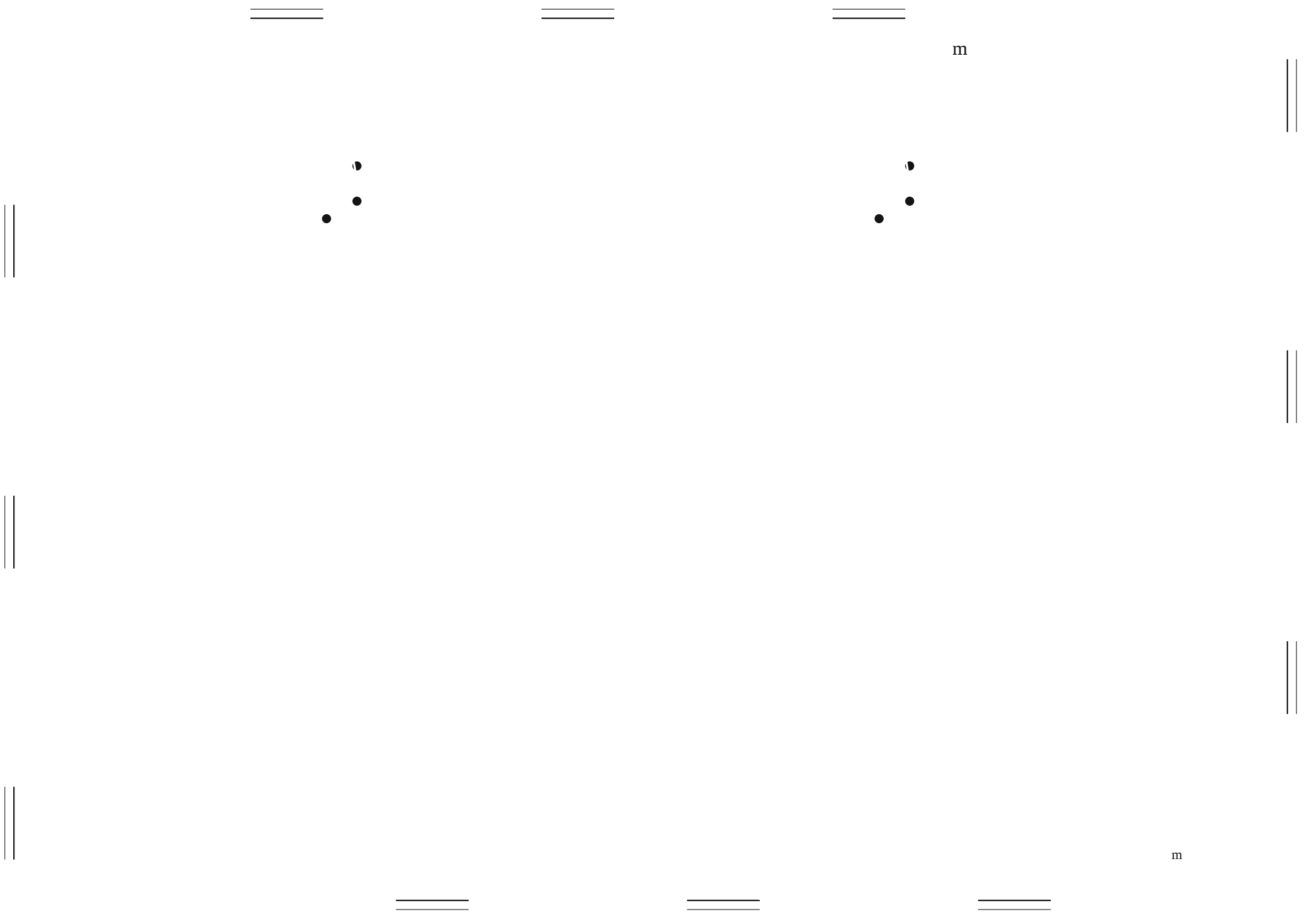


m

m

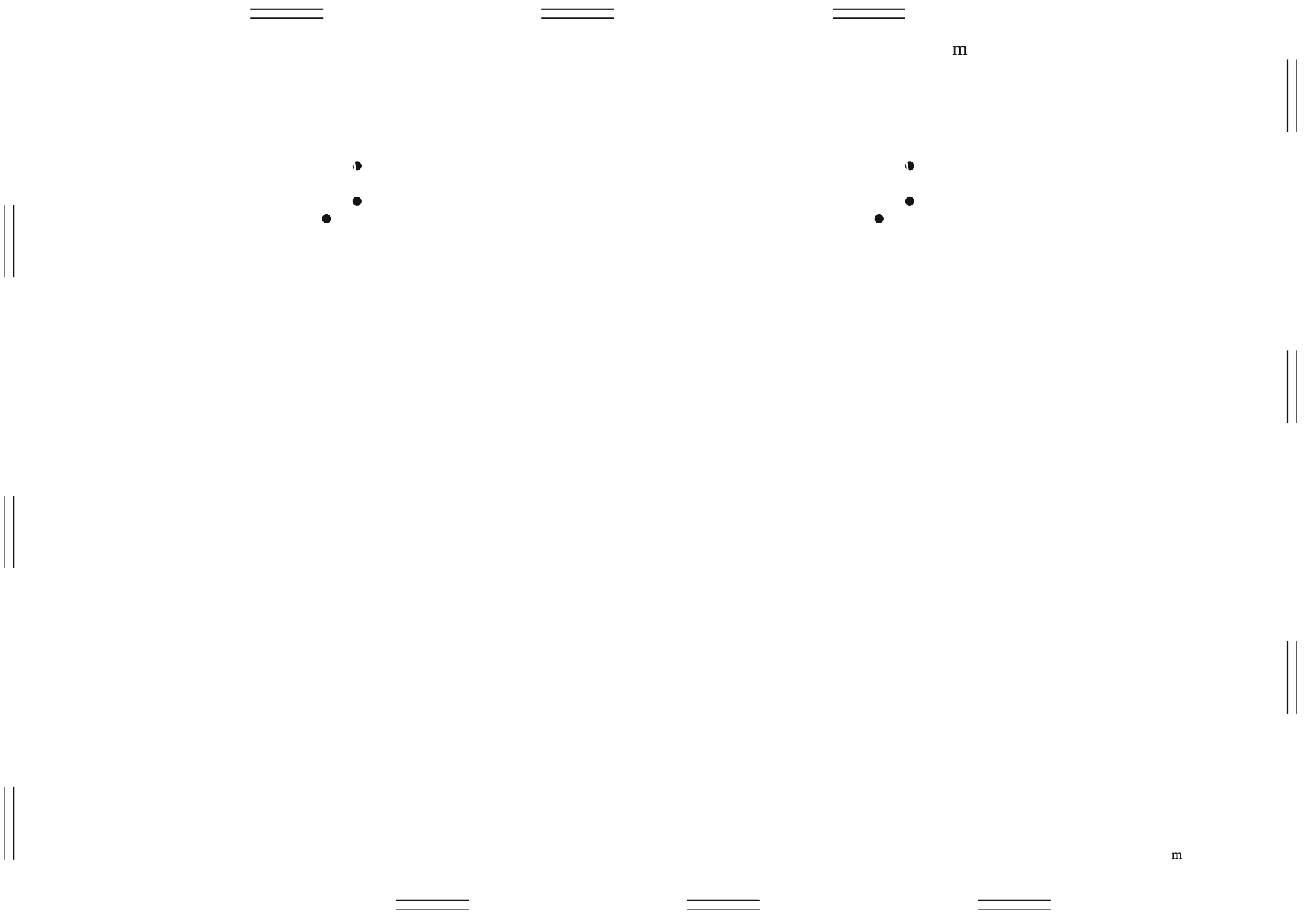






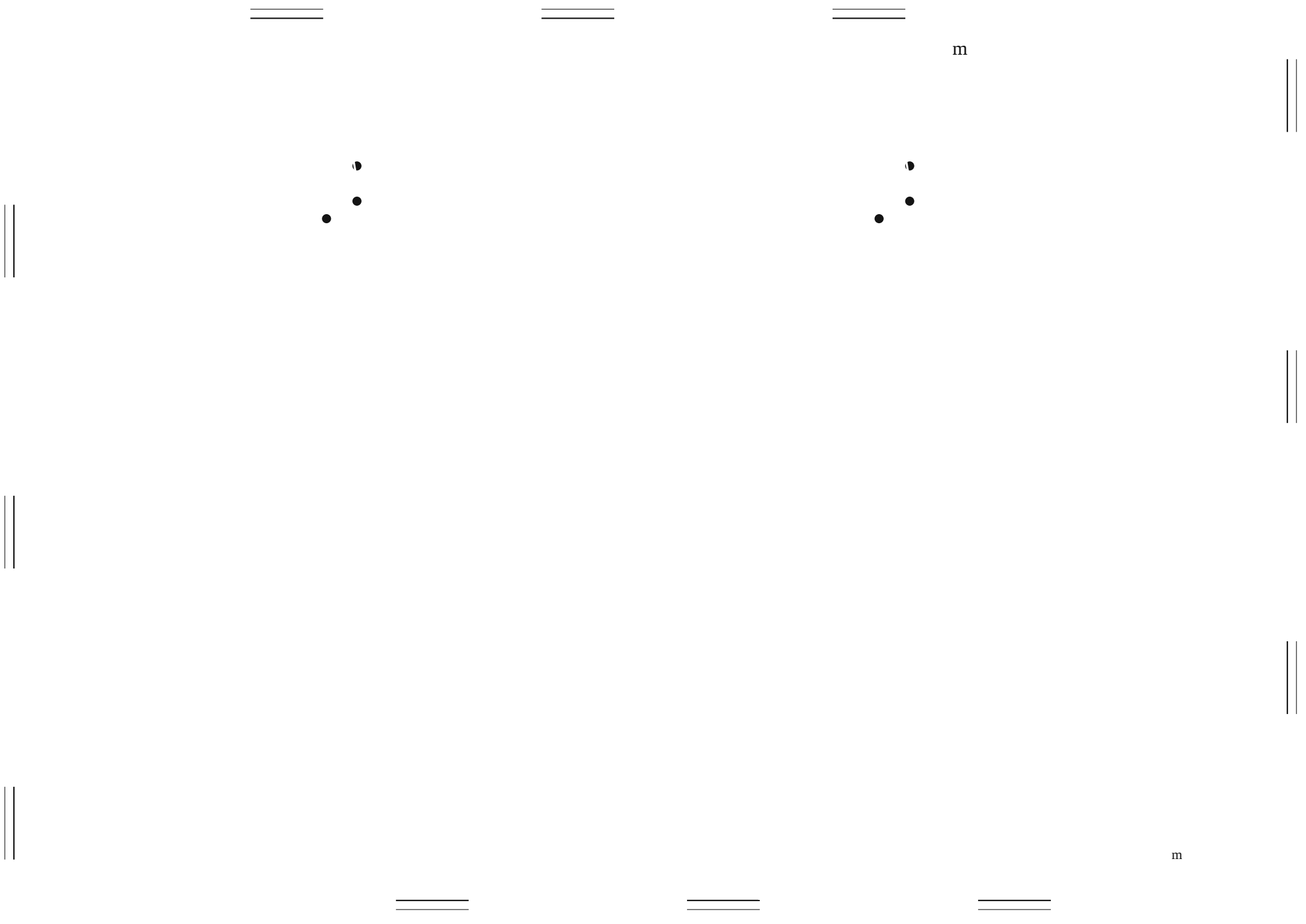
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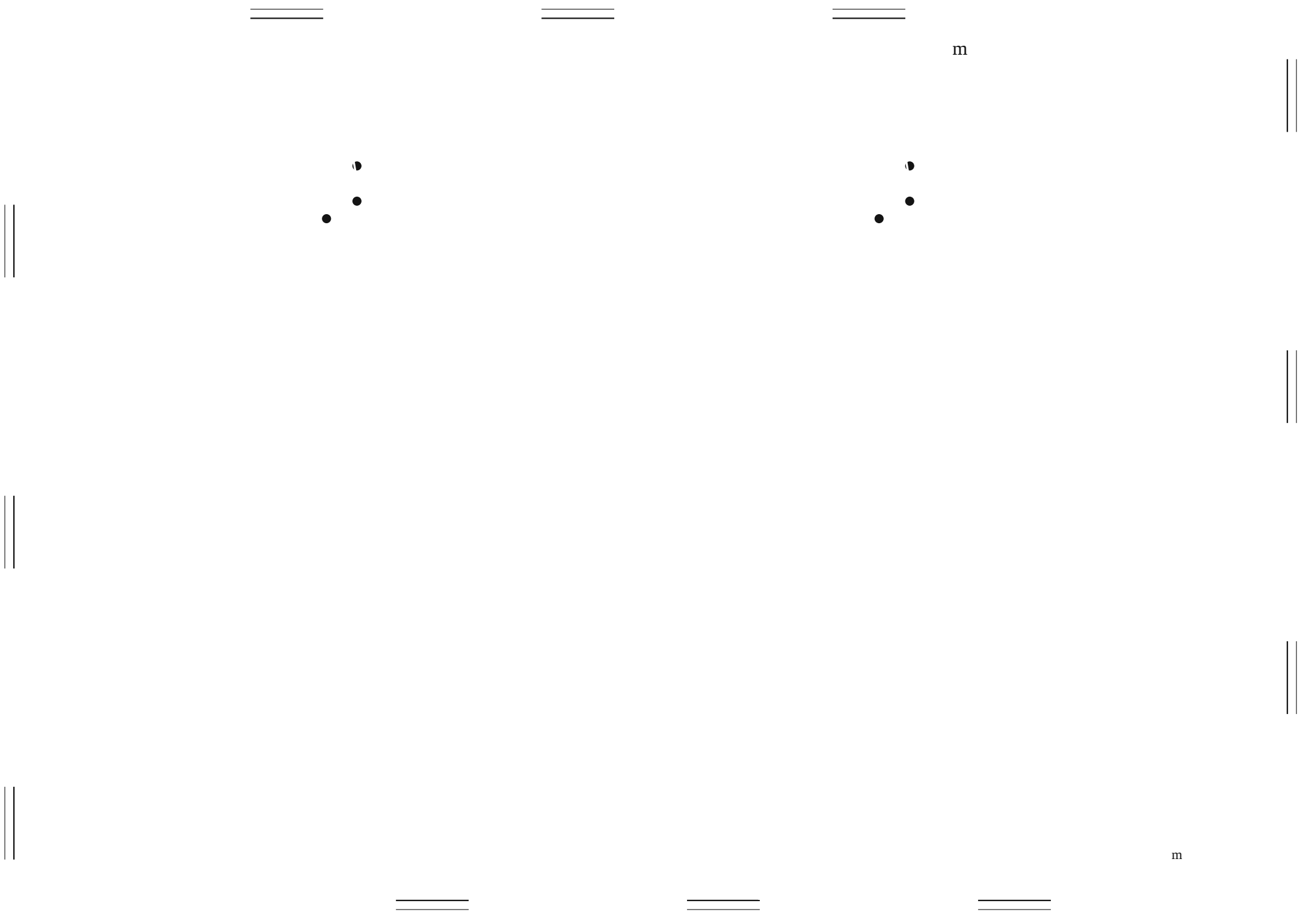
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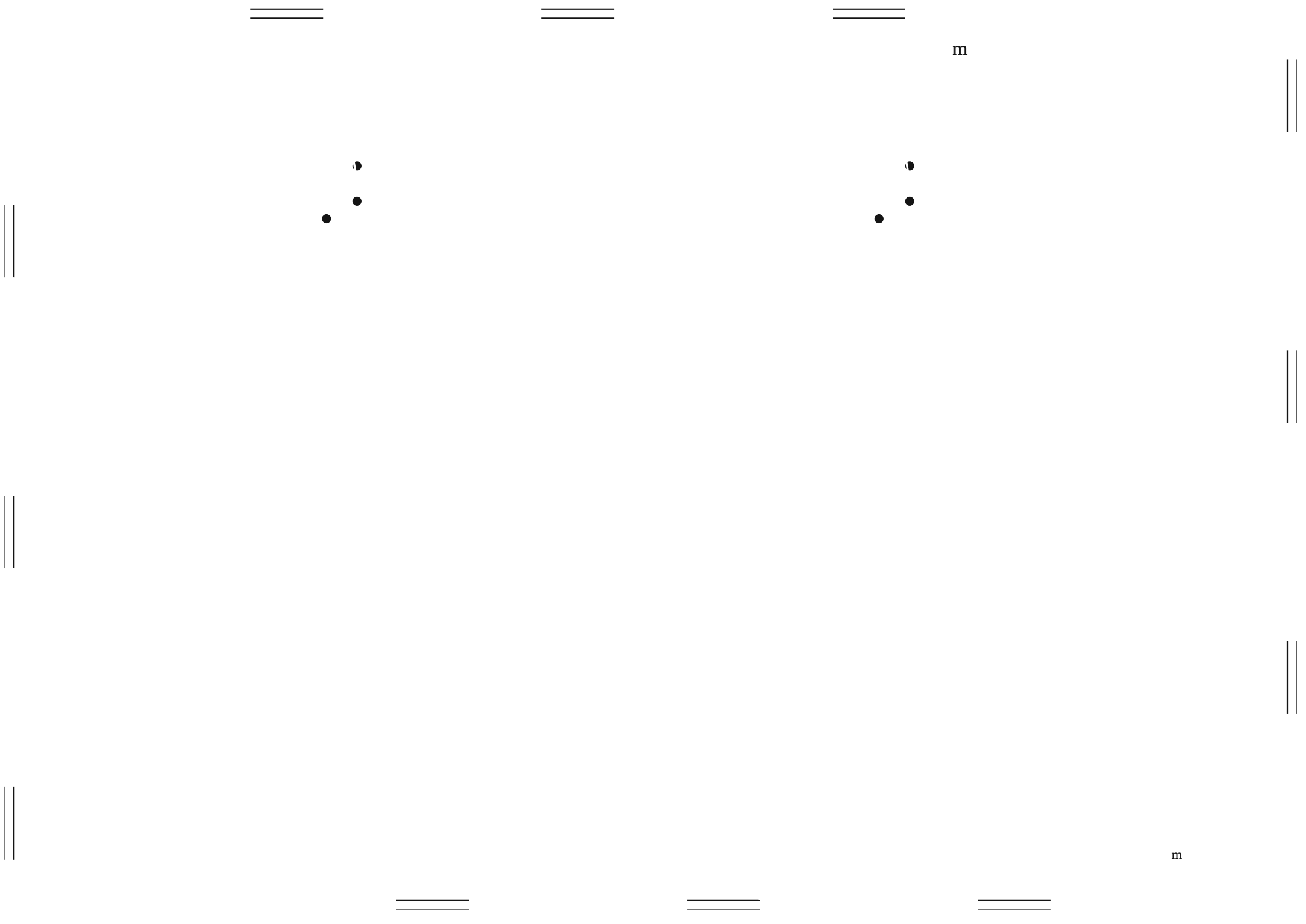
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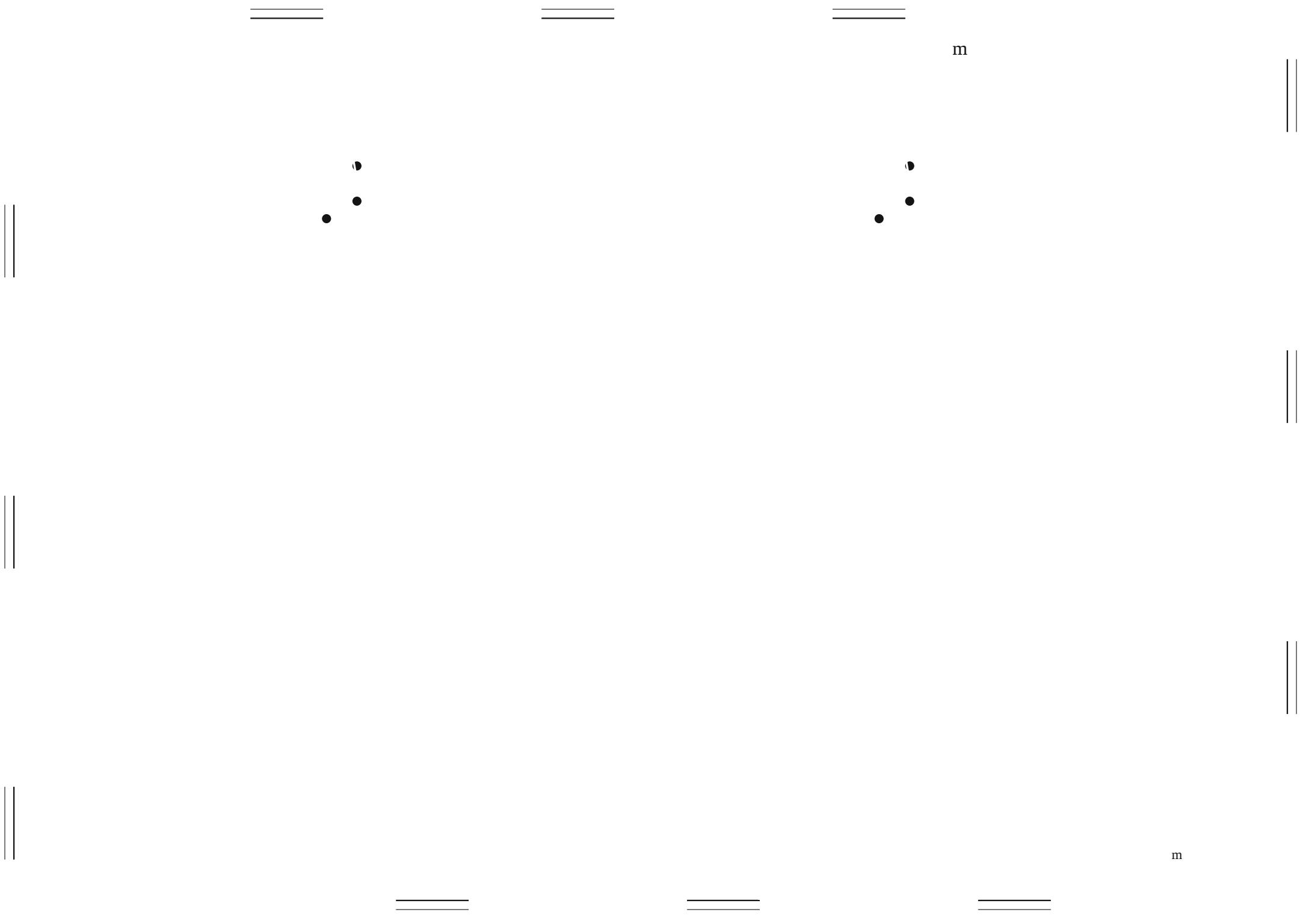
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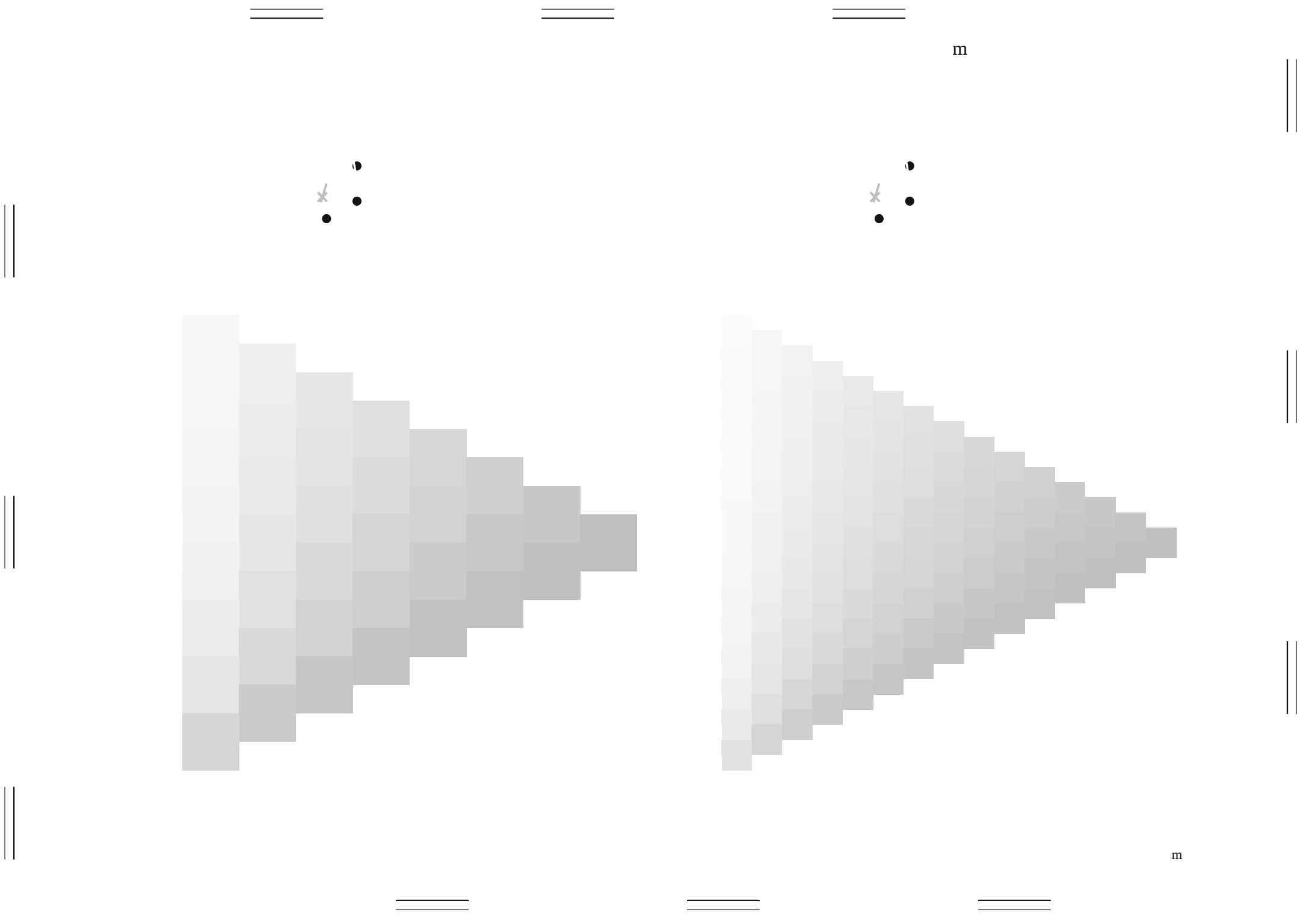
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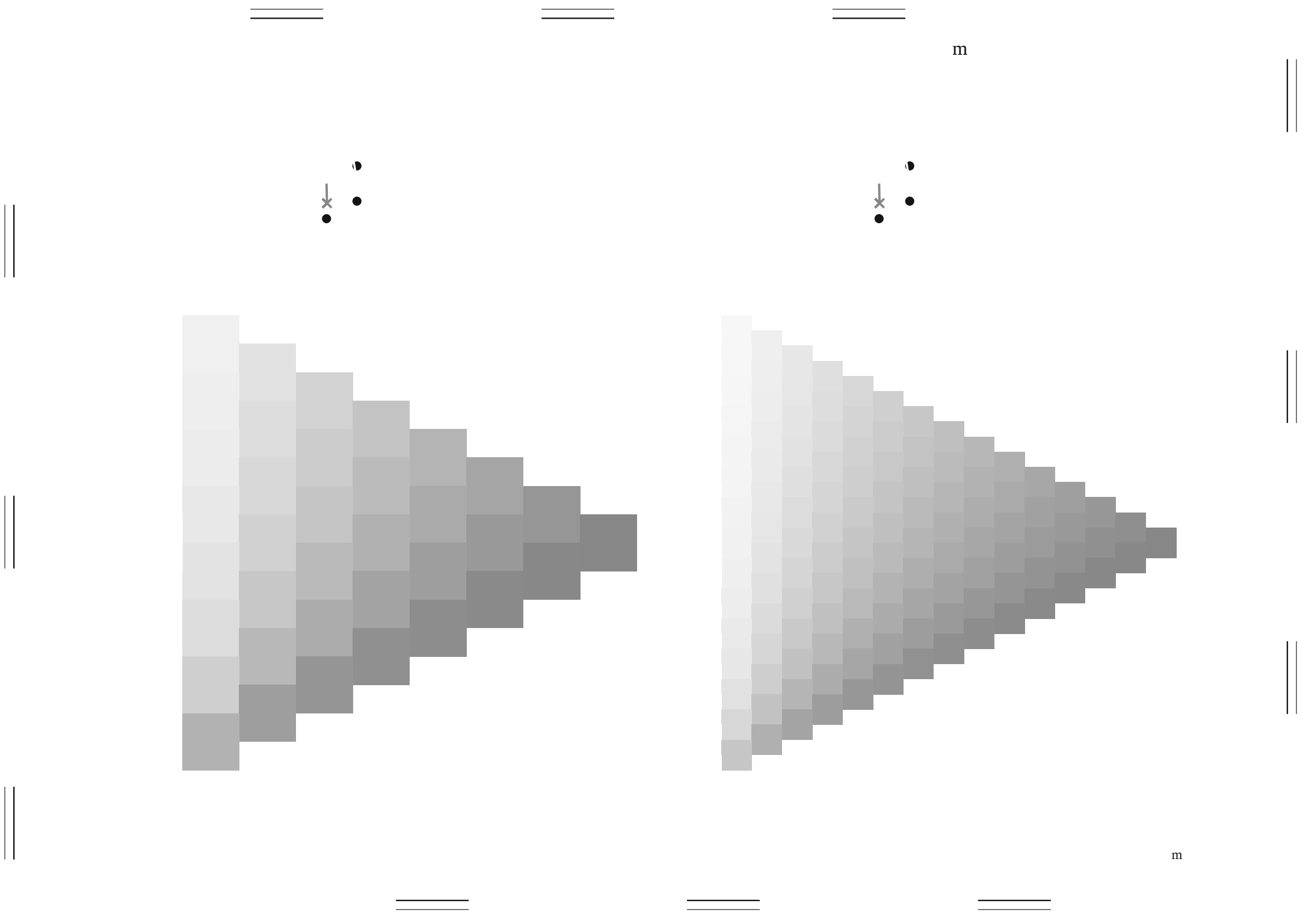
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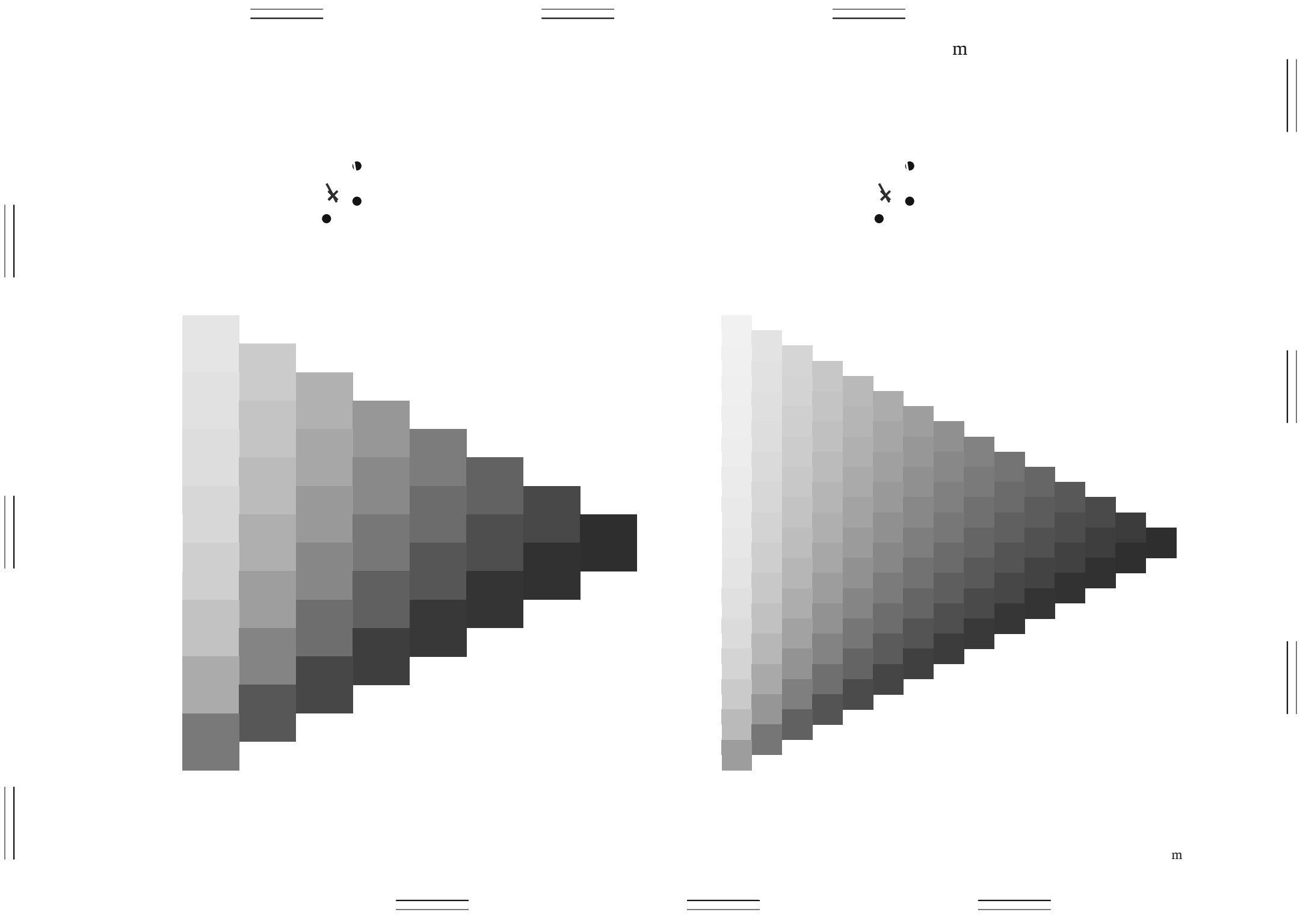
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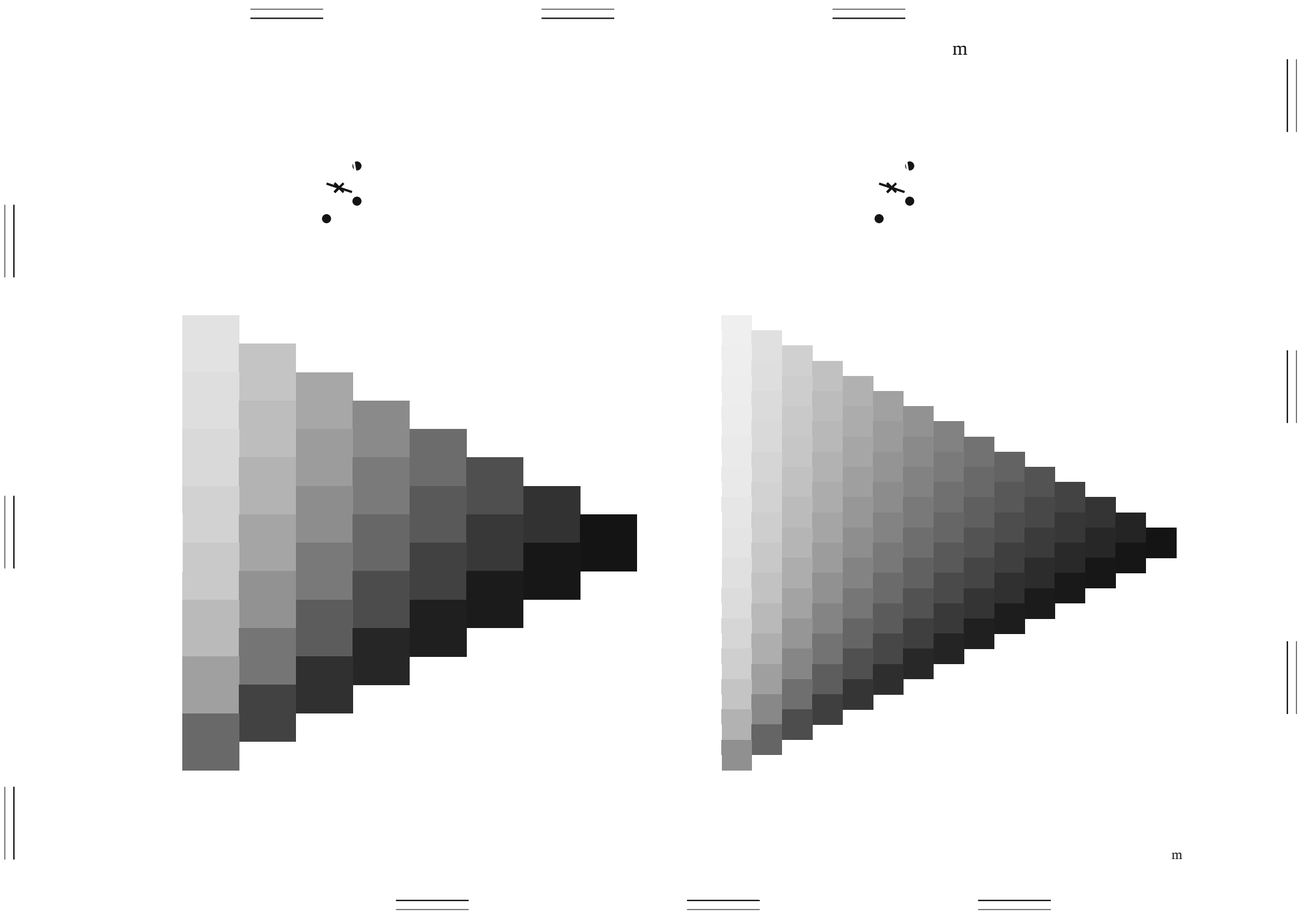


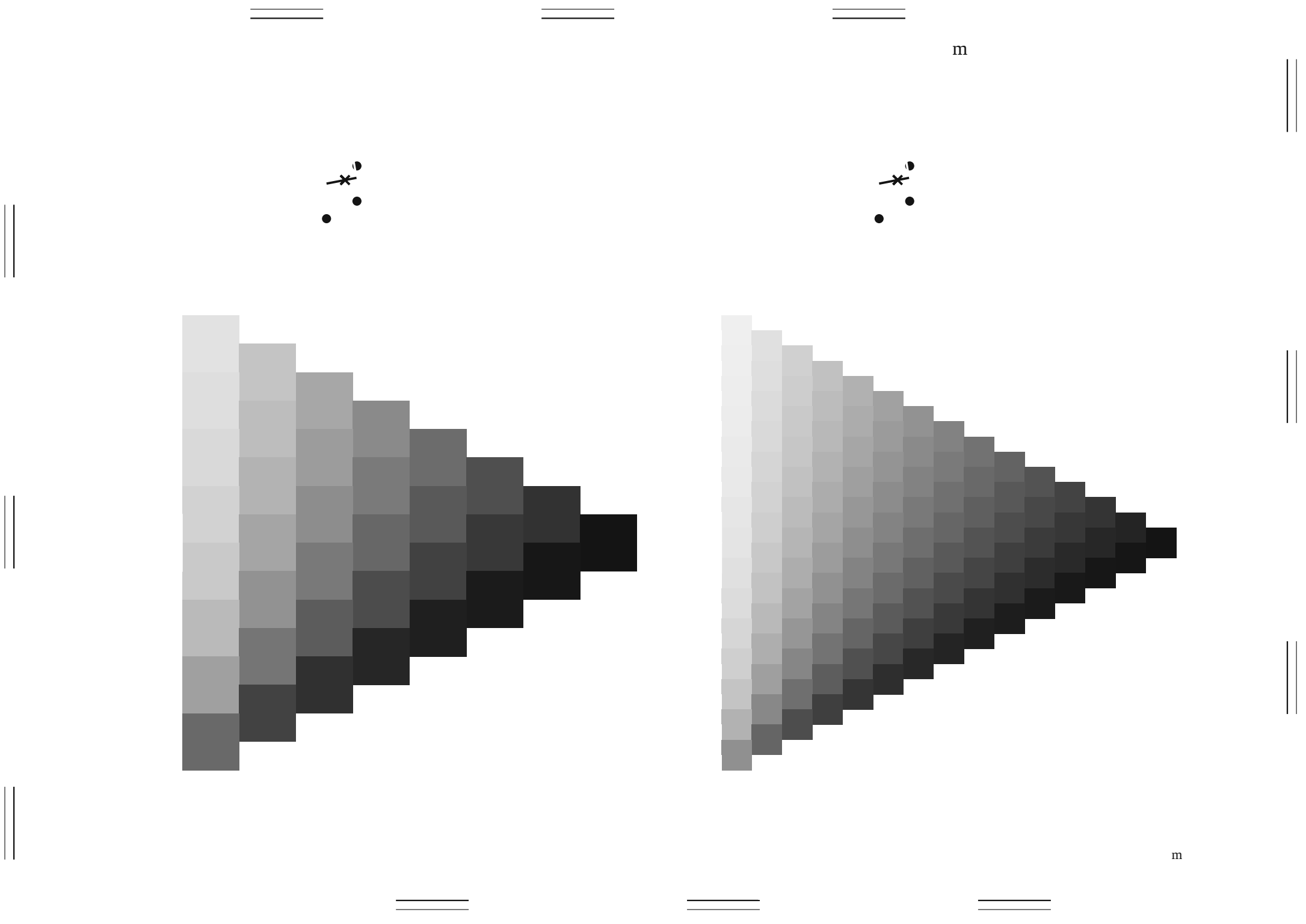
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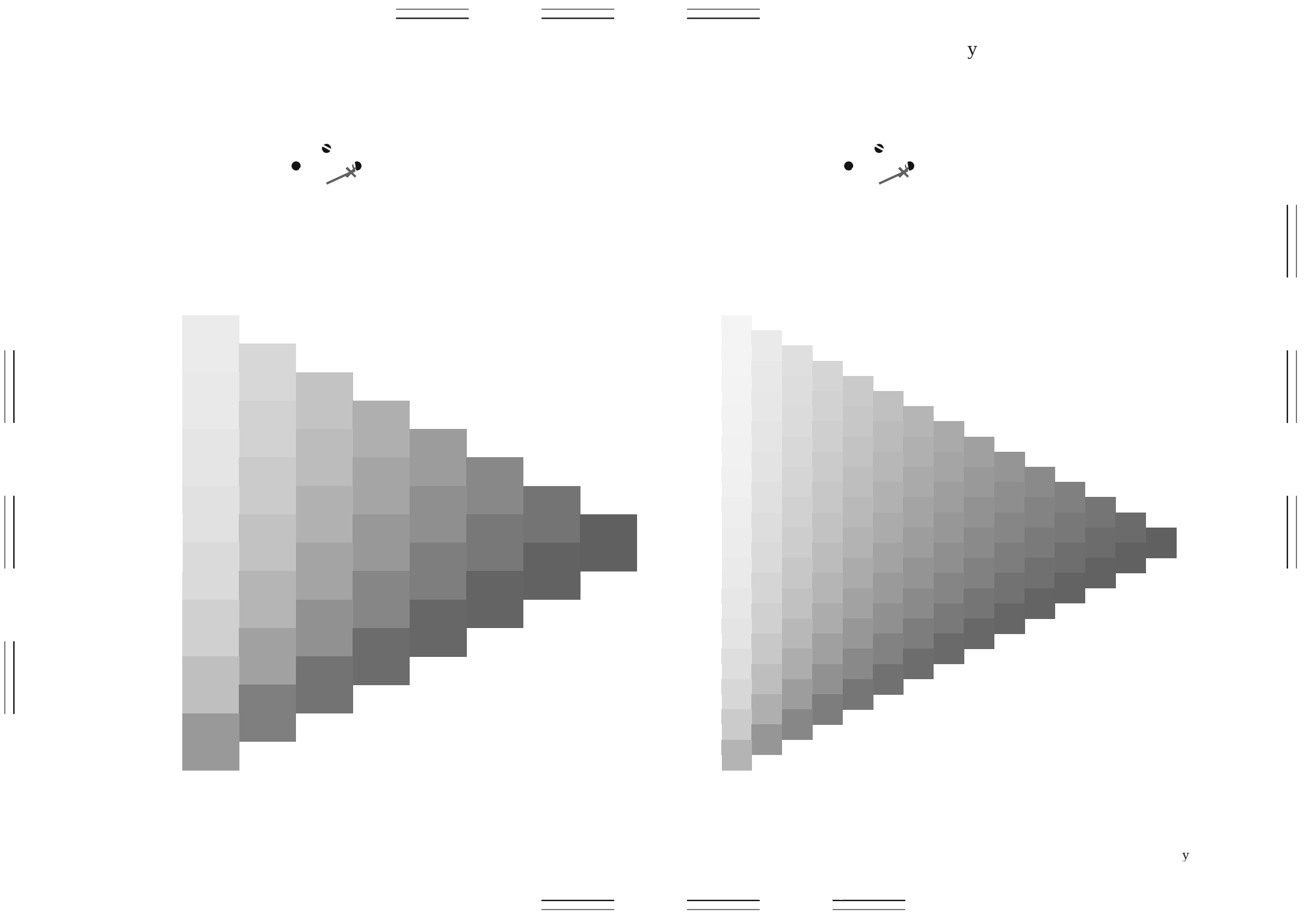
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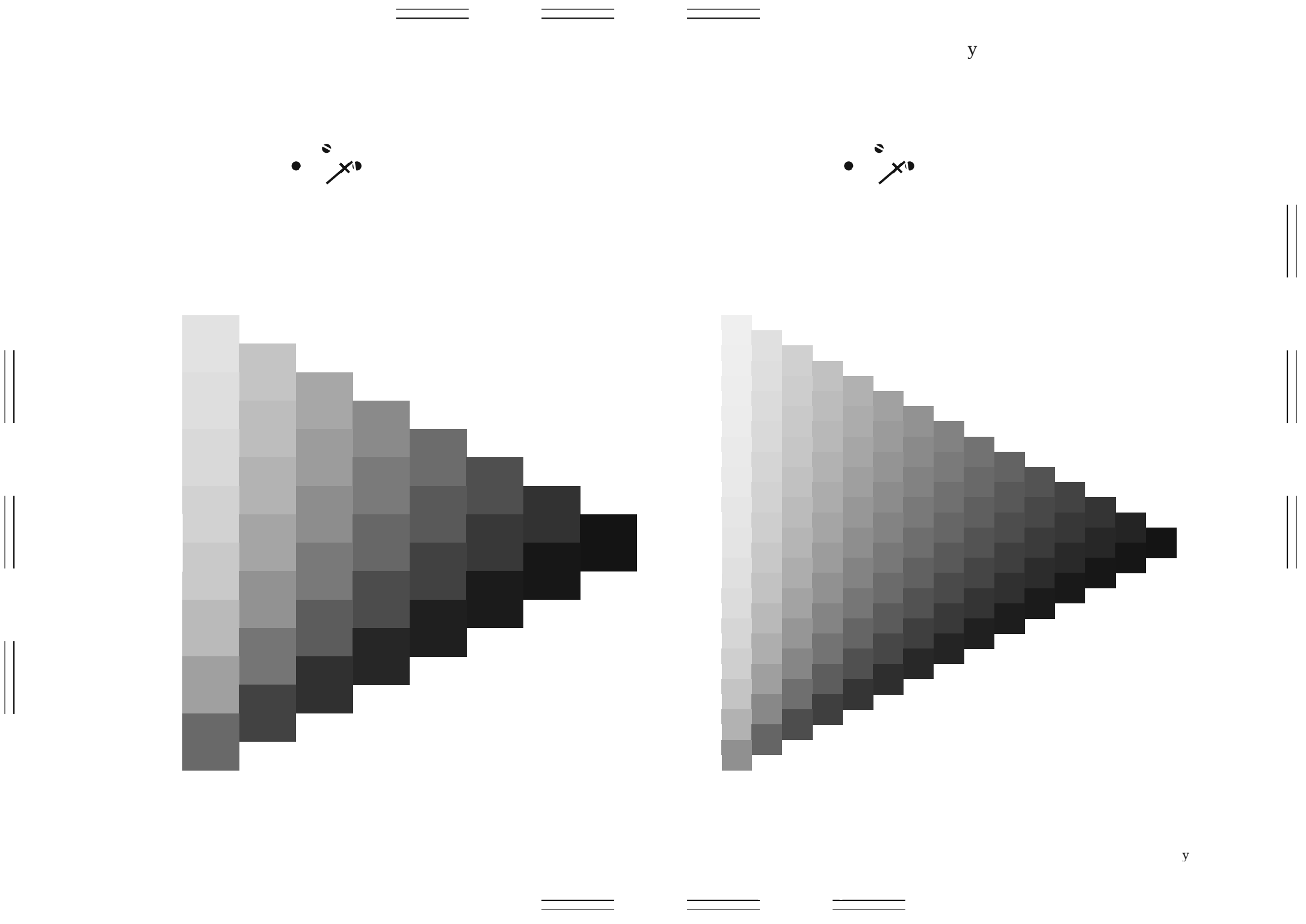


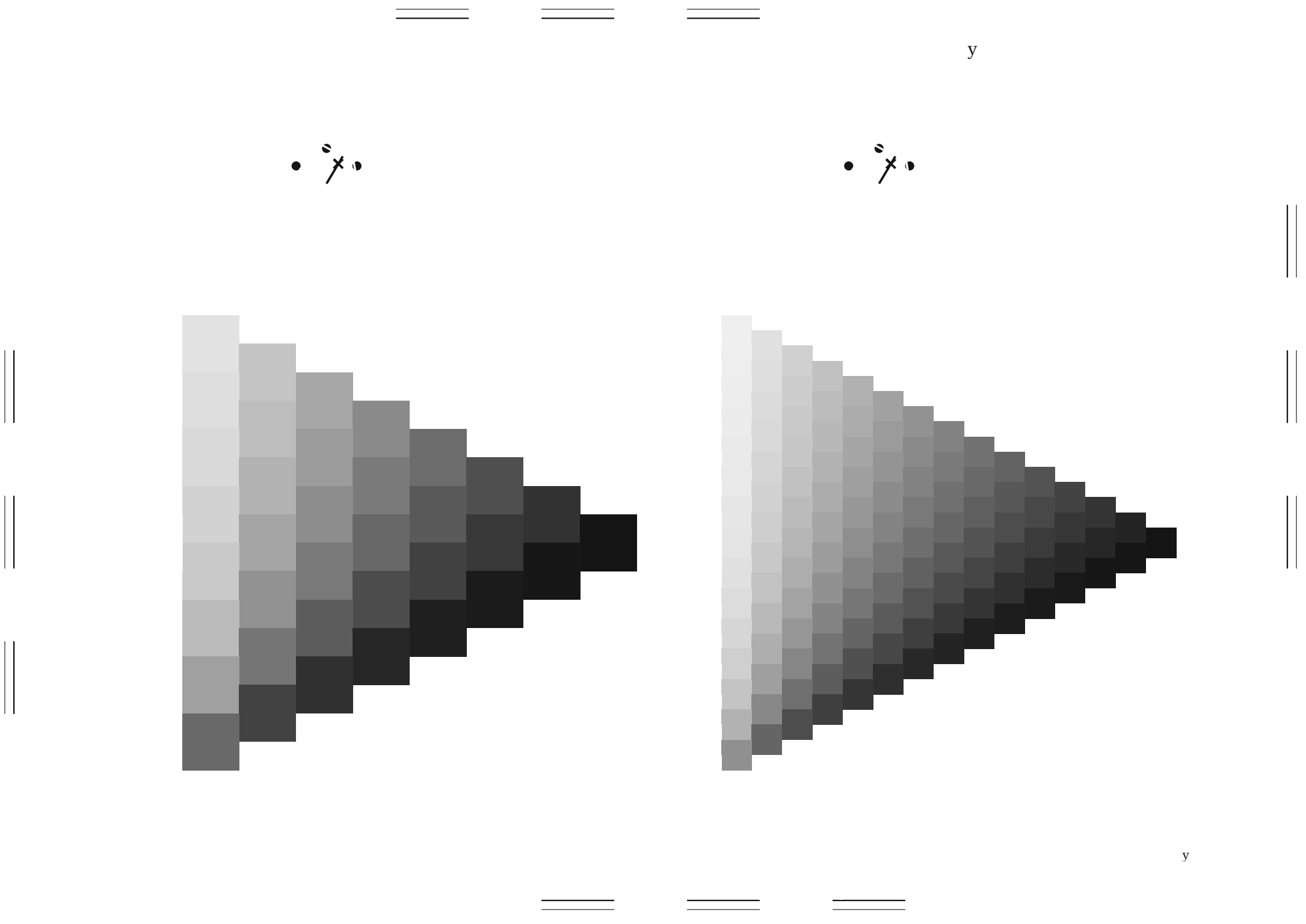


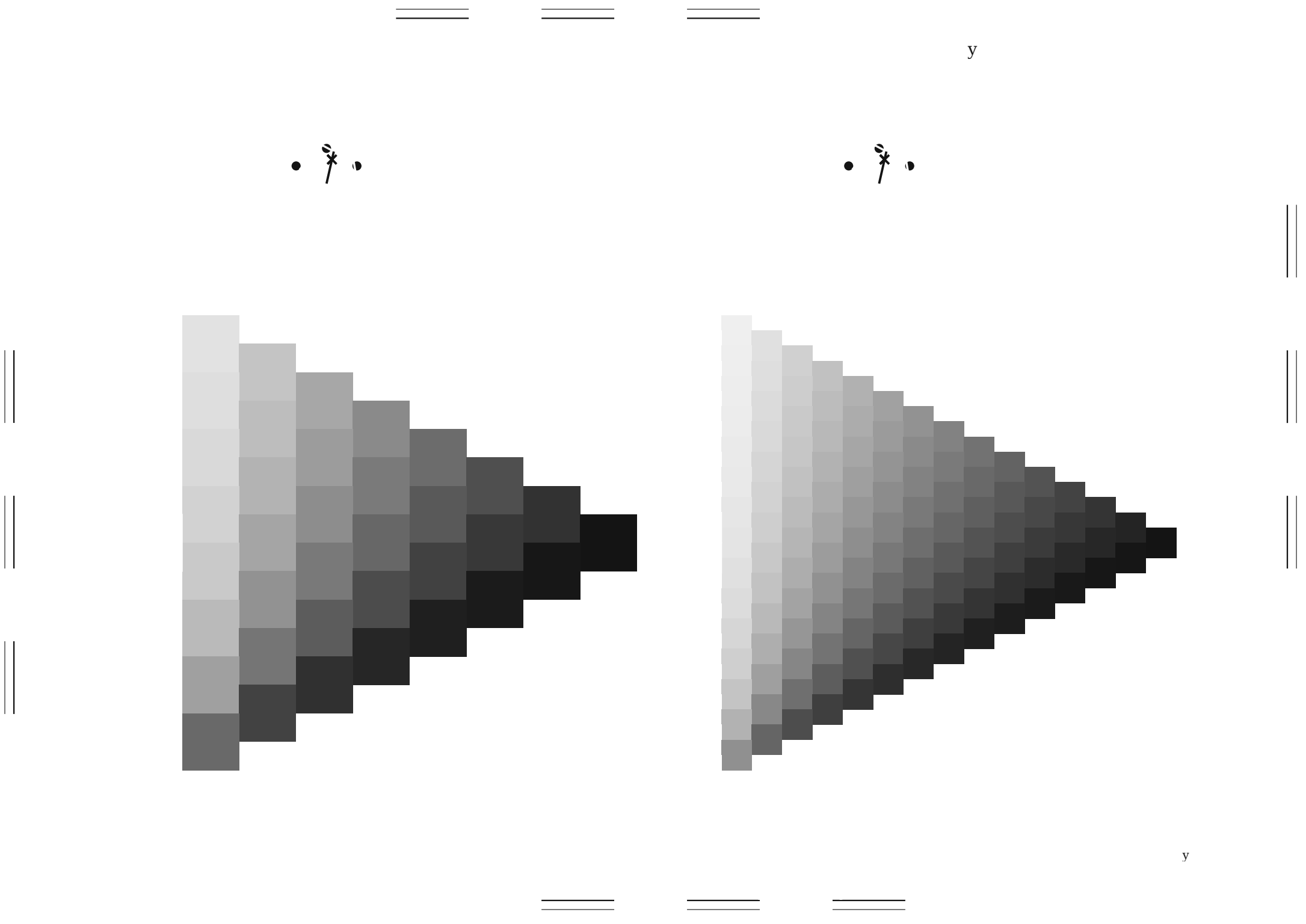


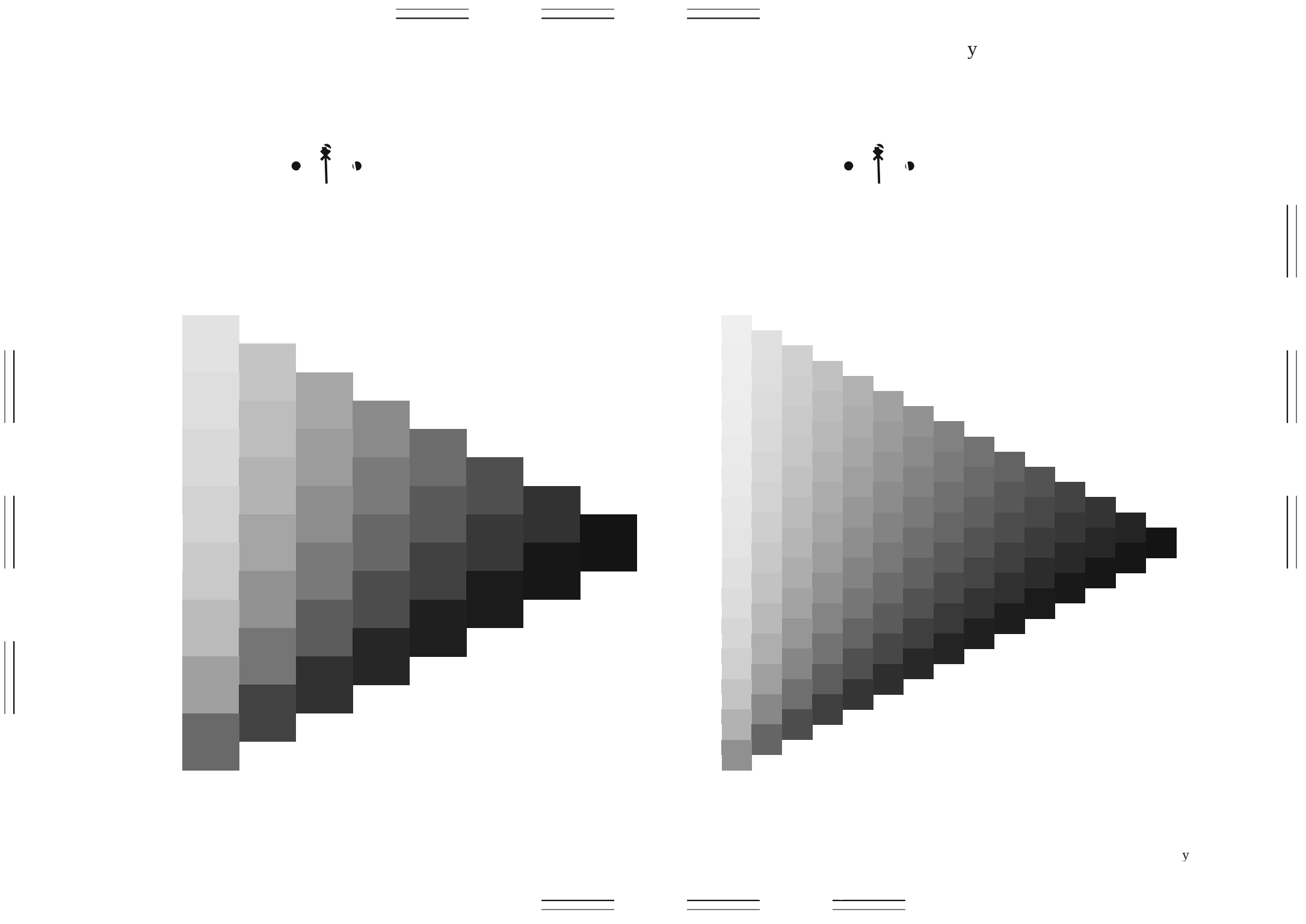


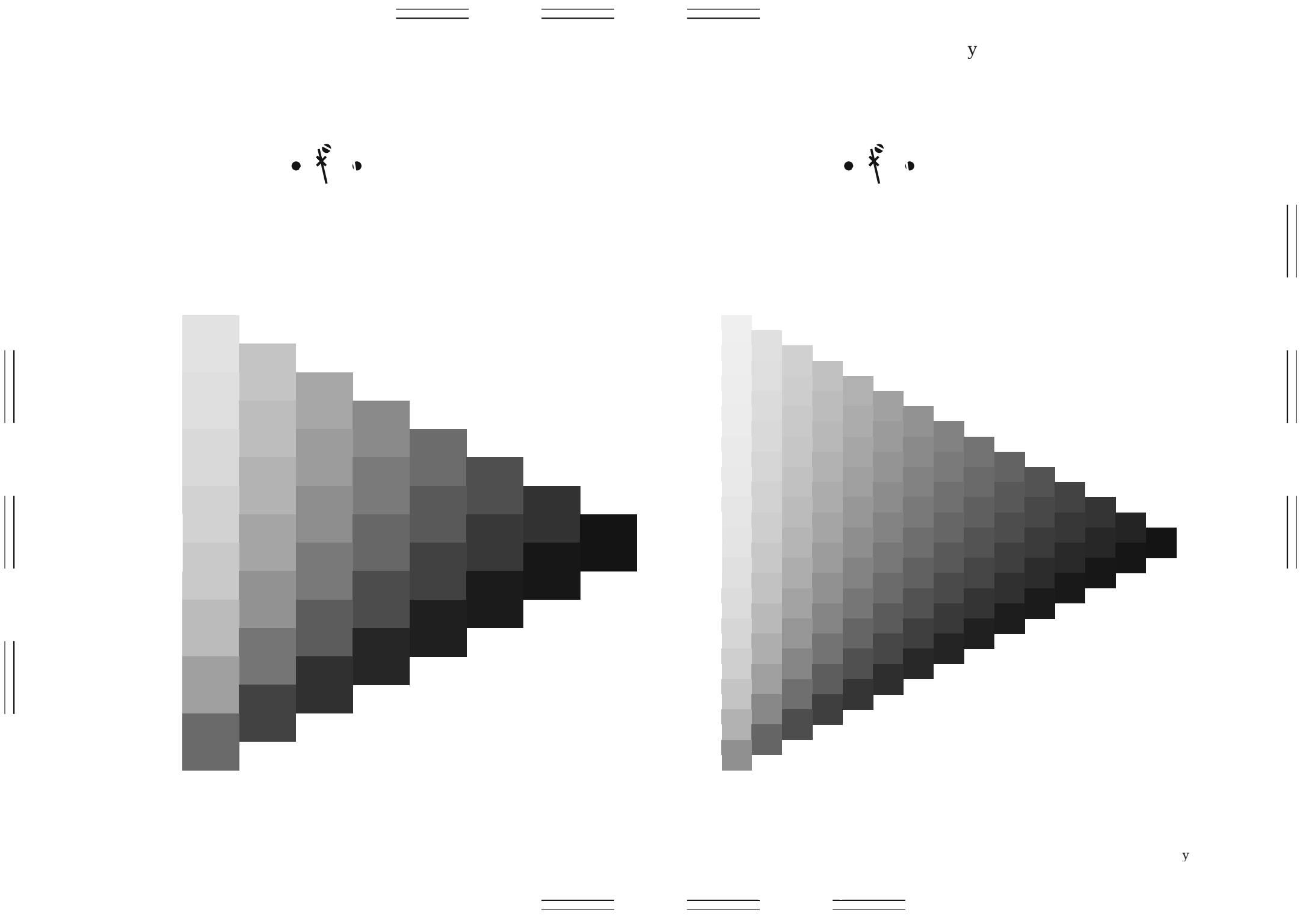


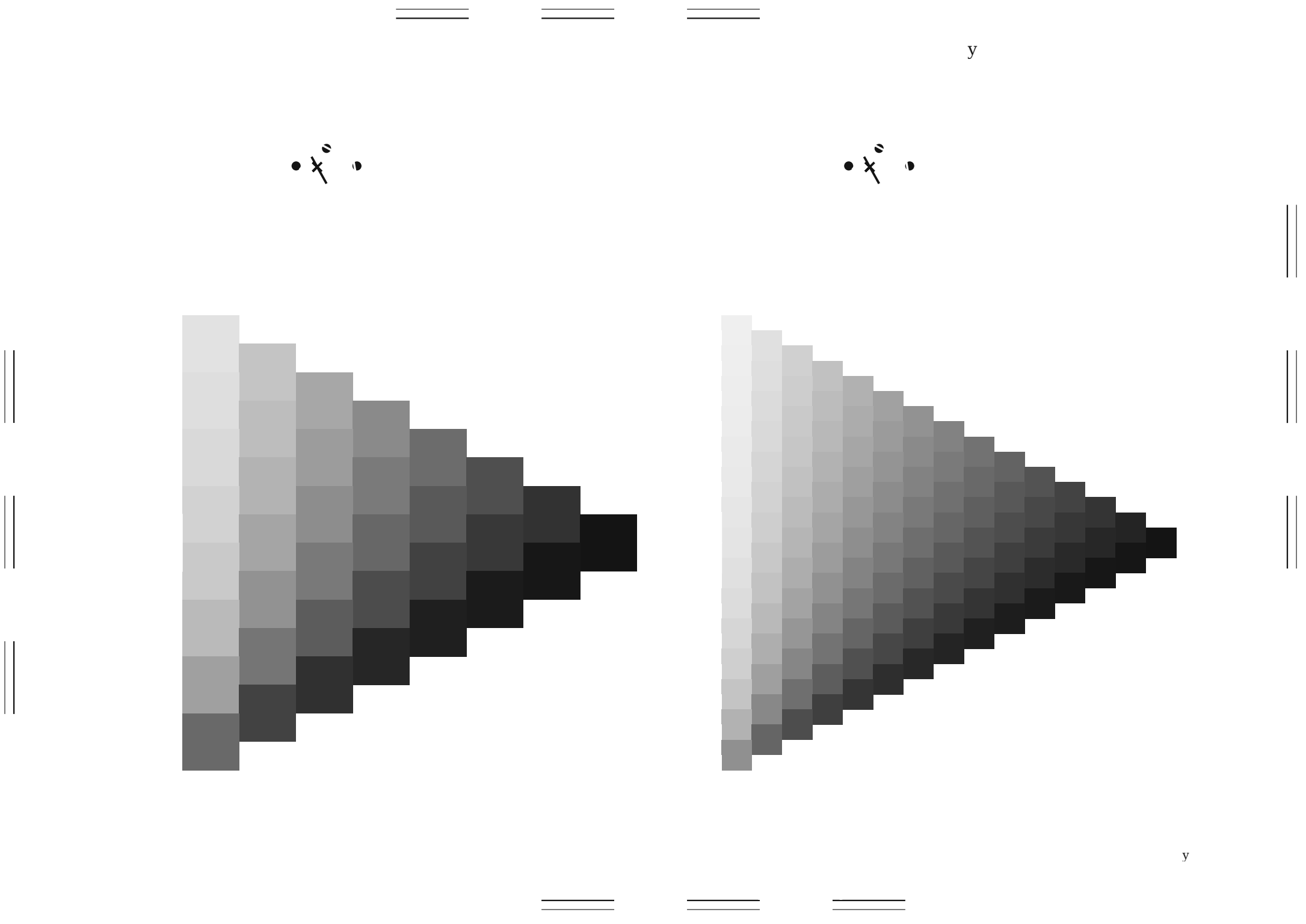


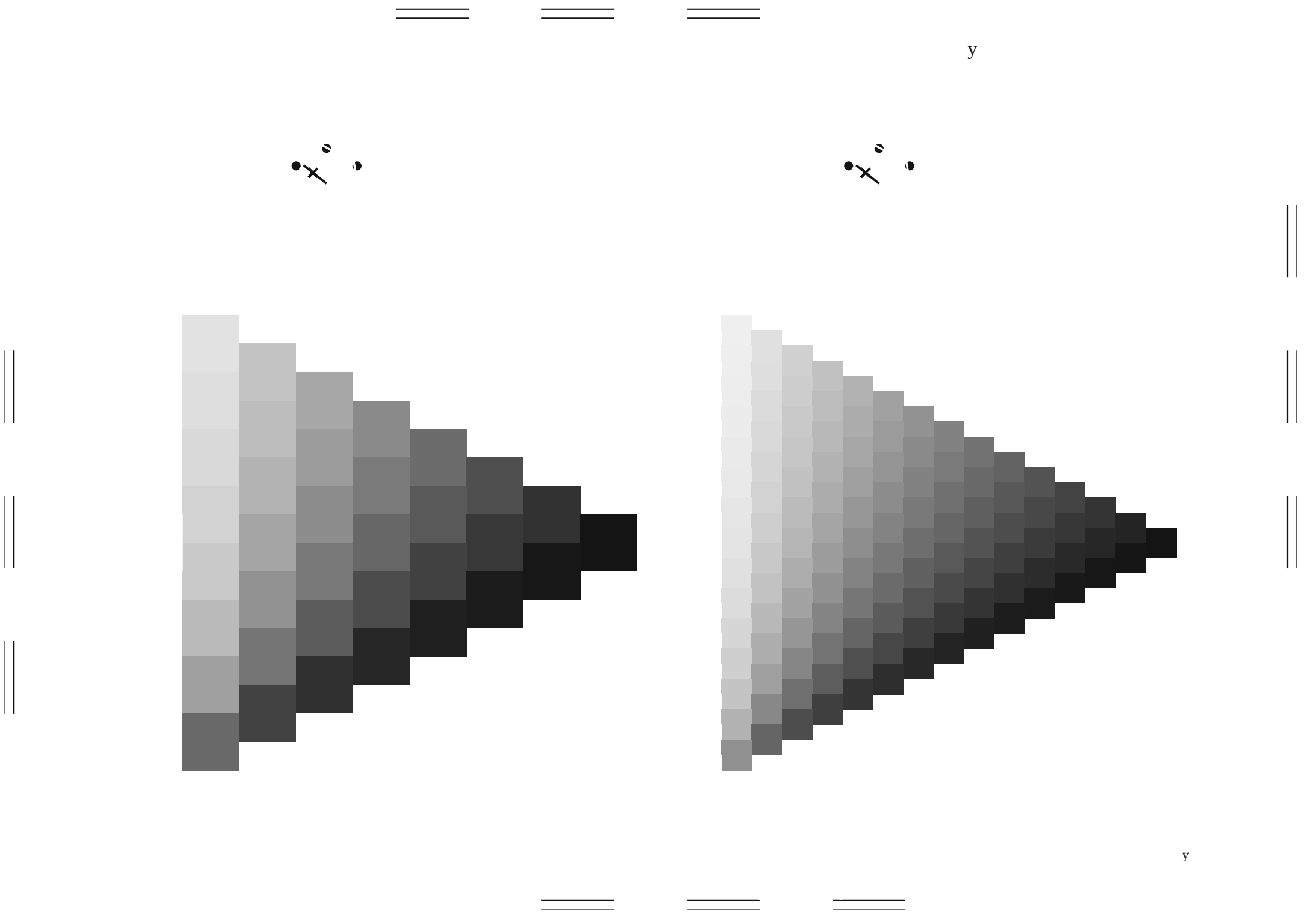


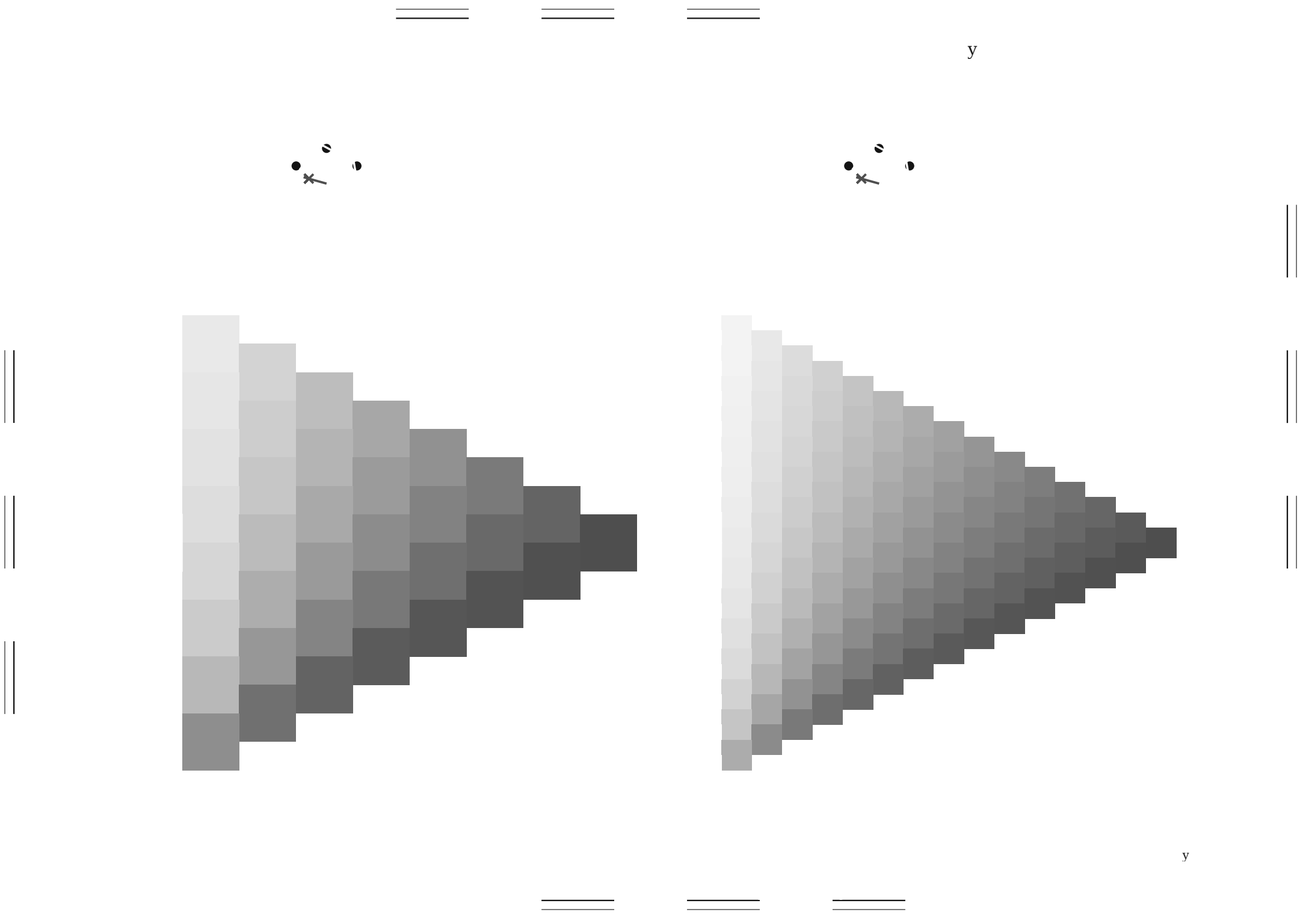


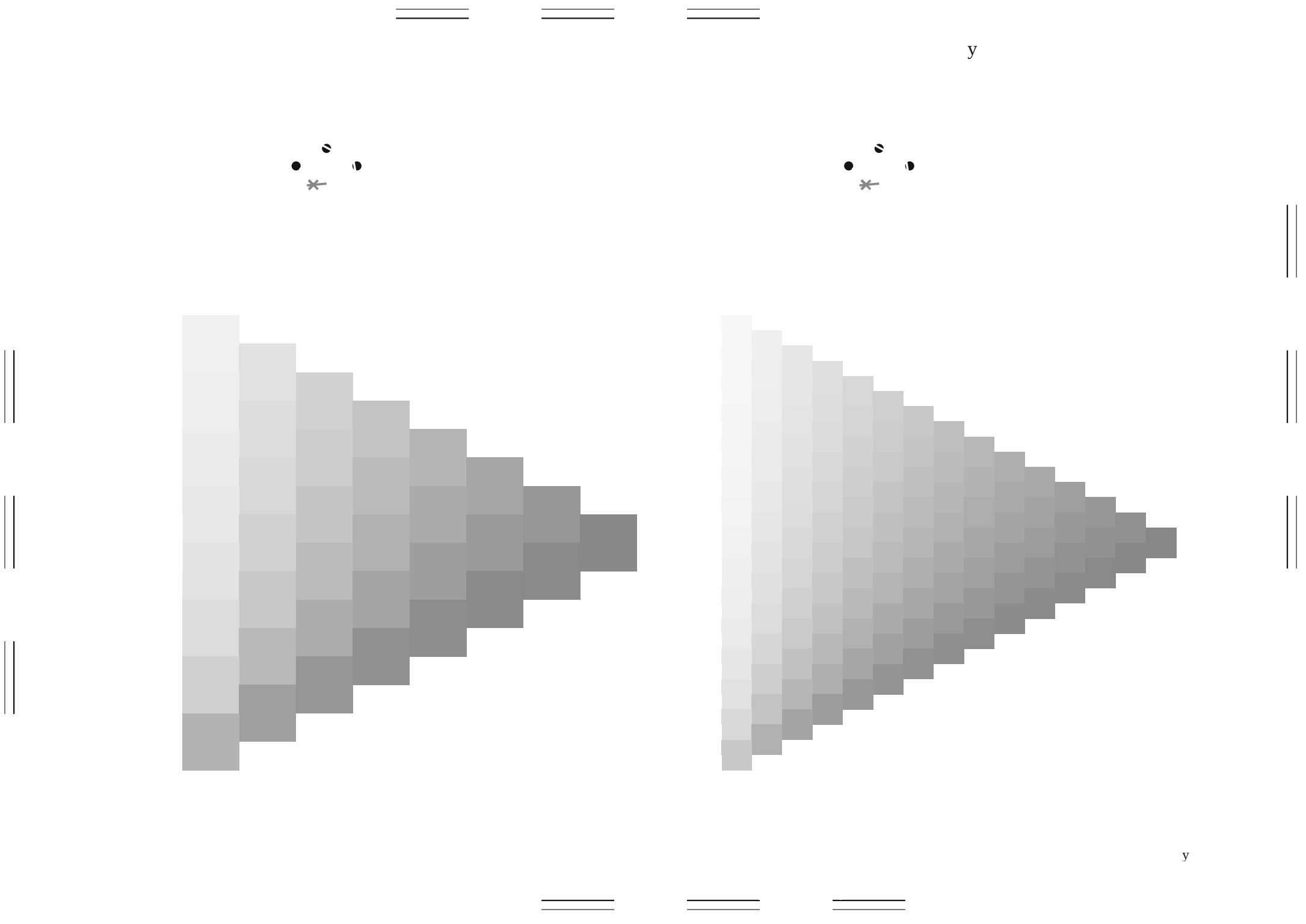


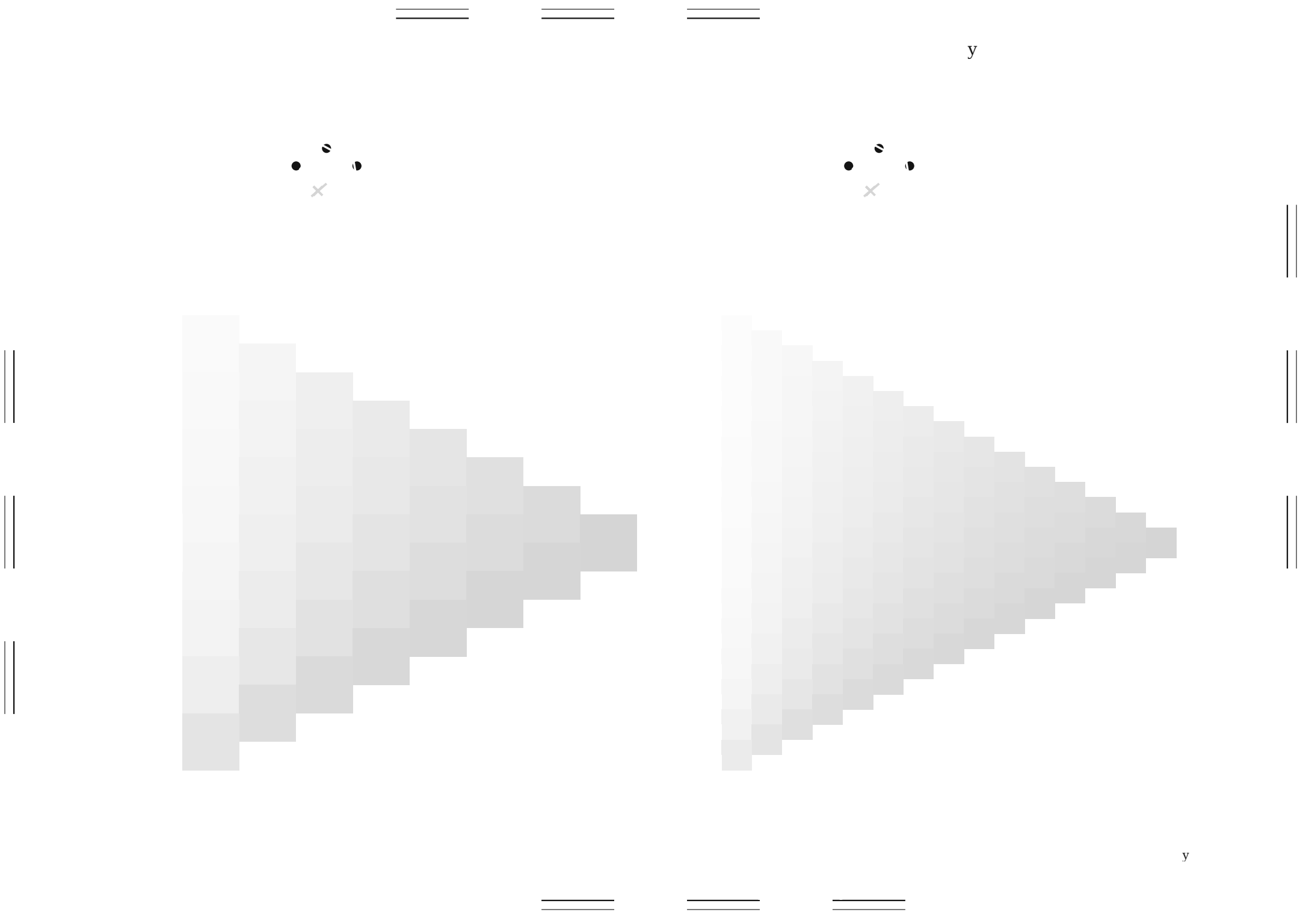


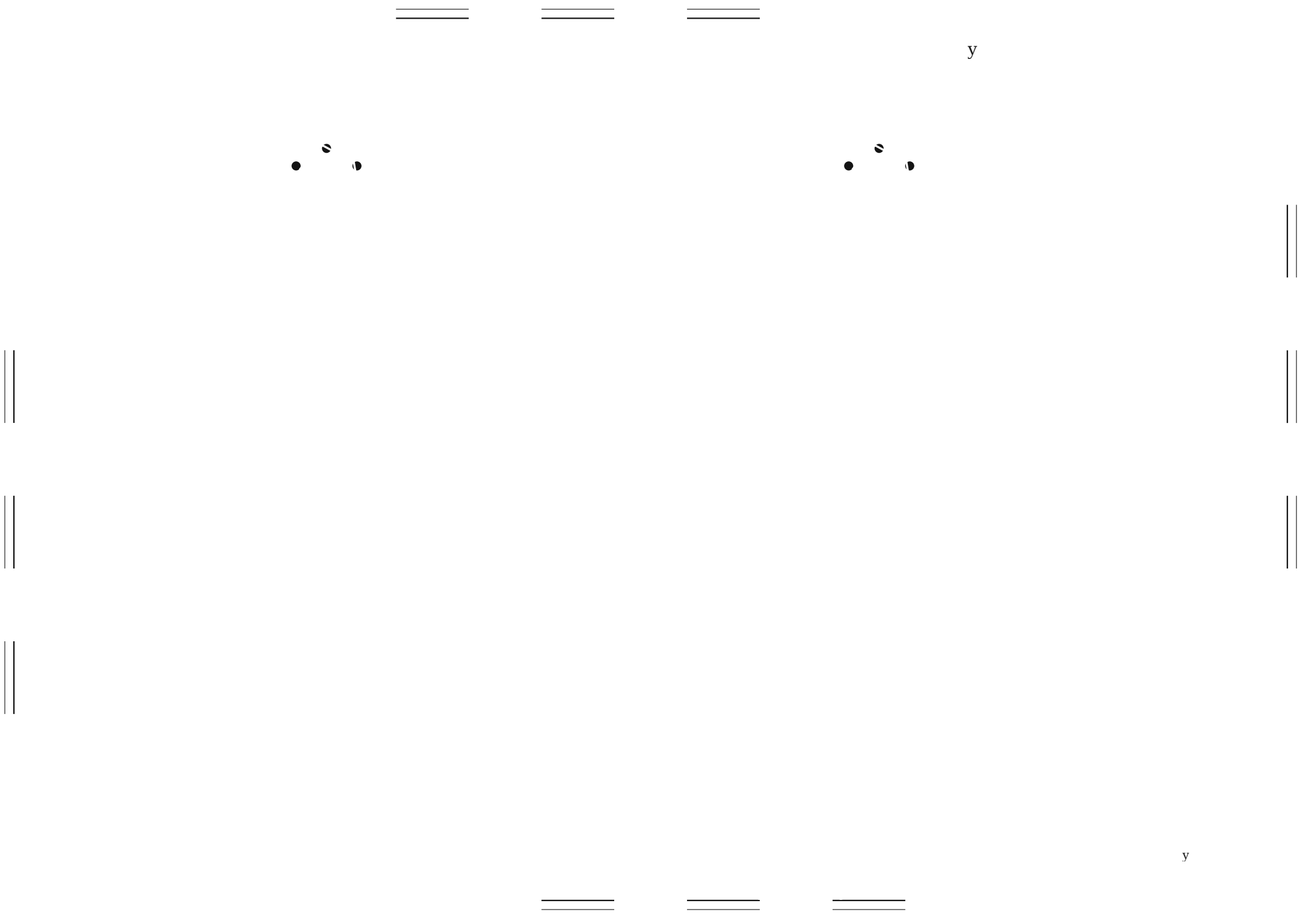


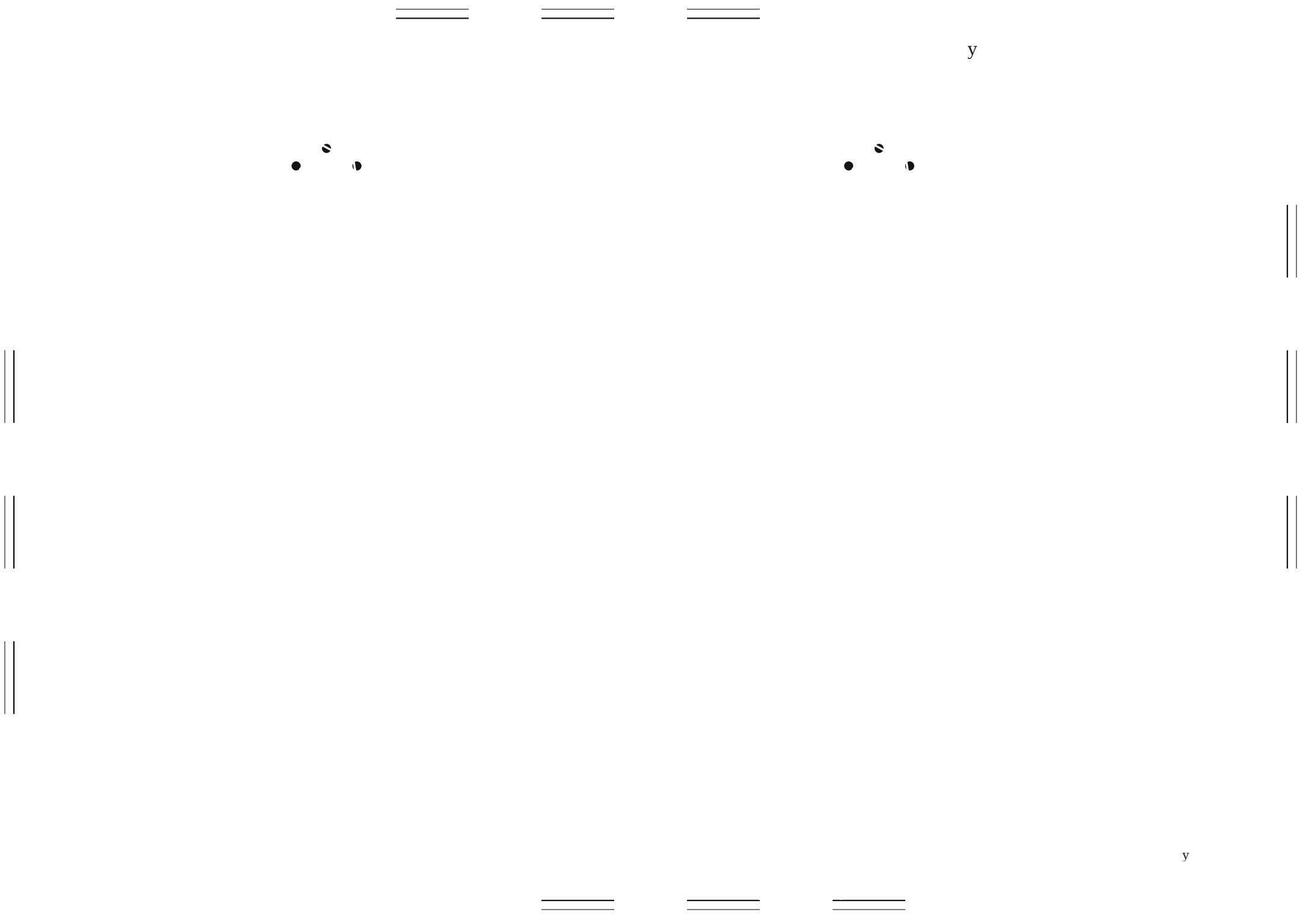


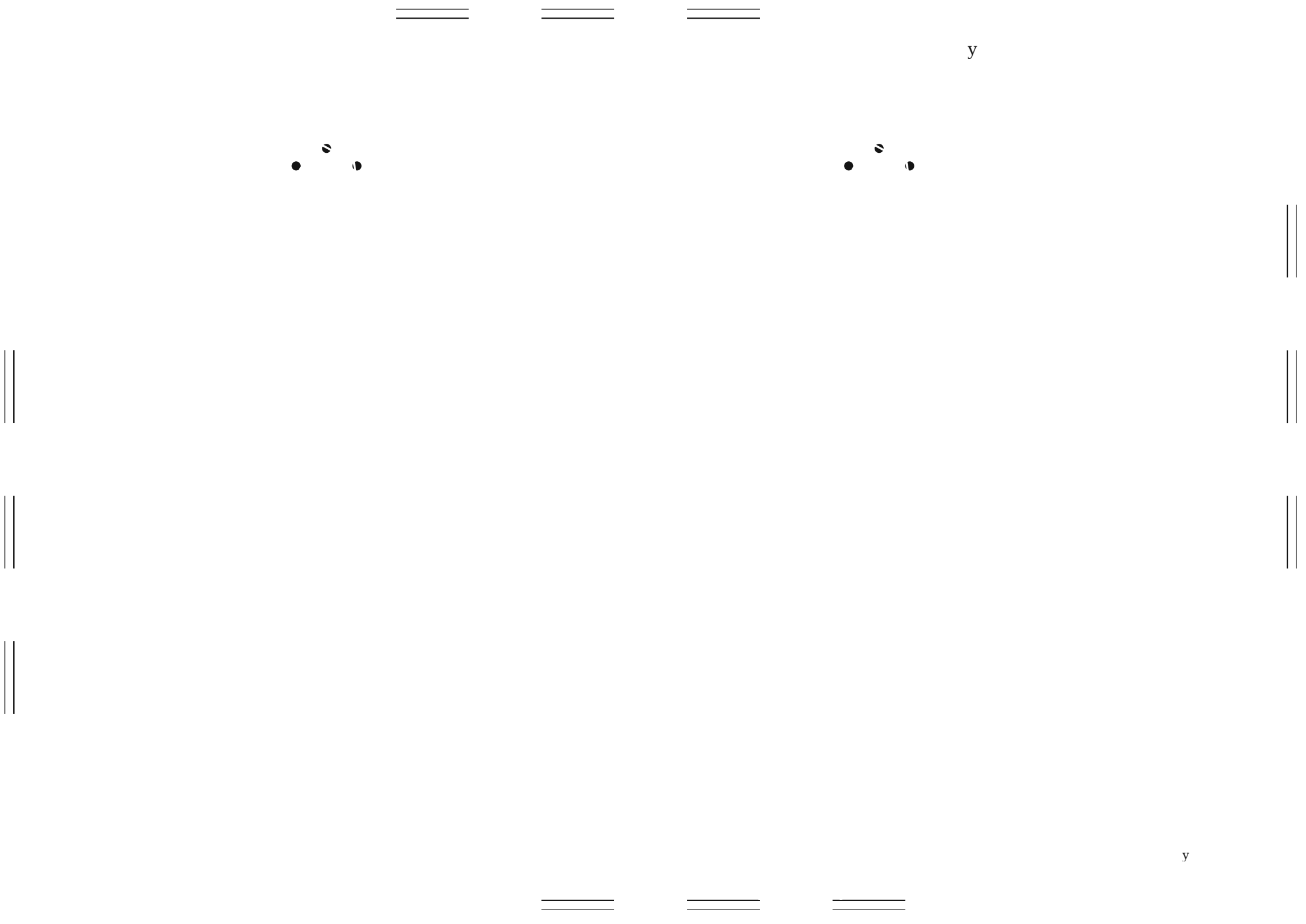


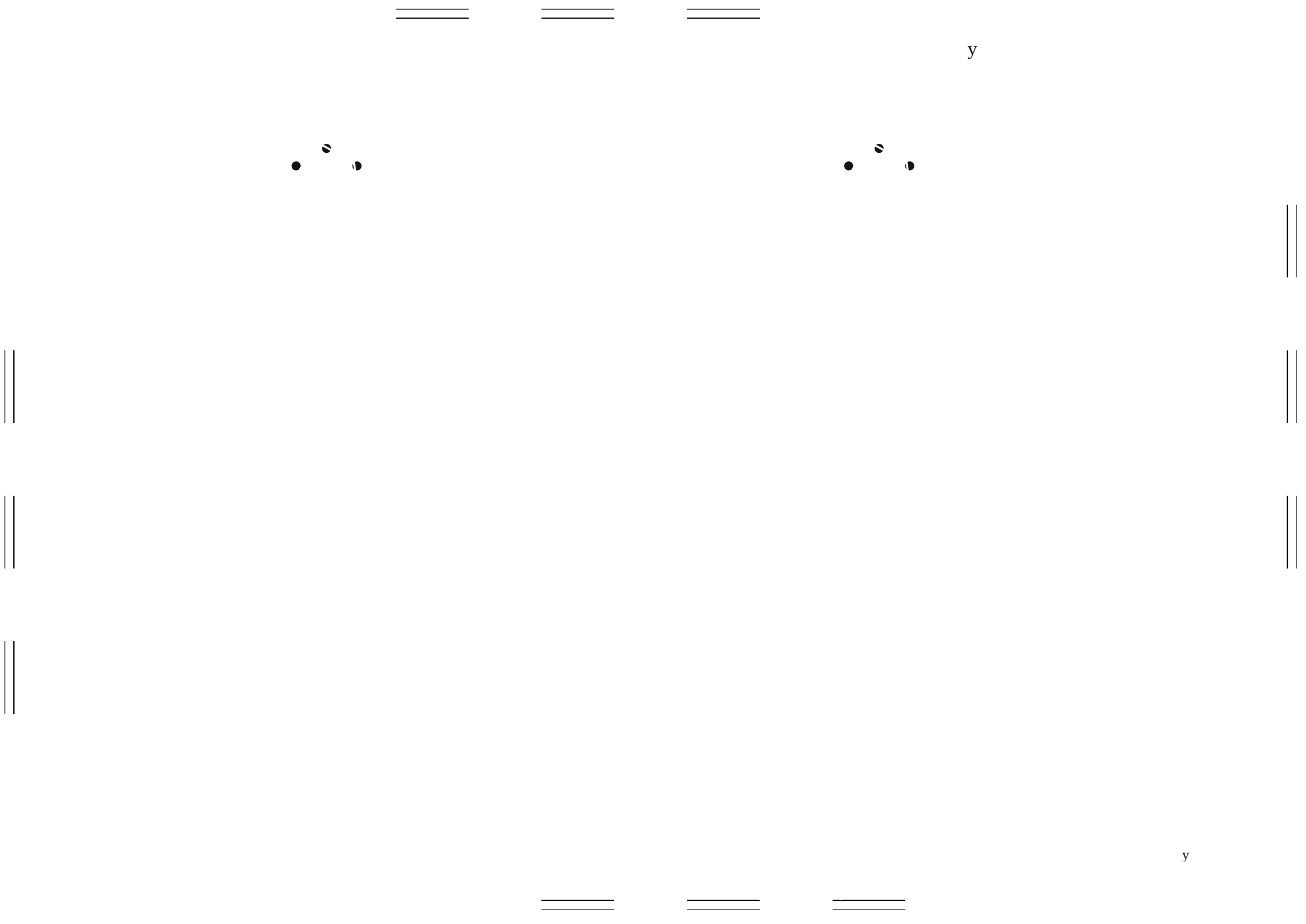


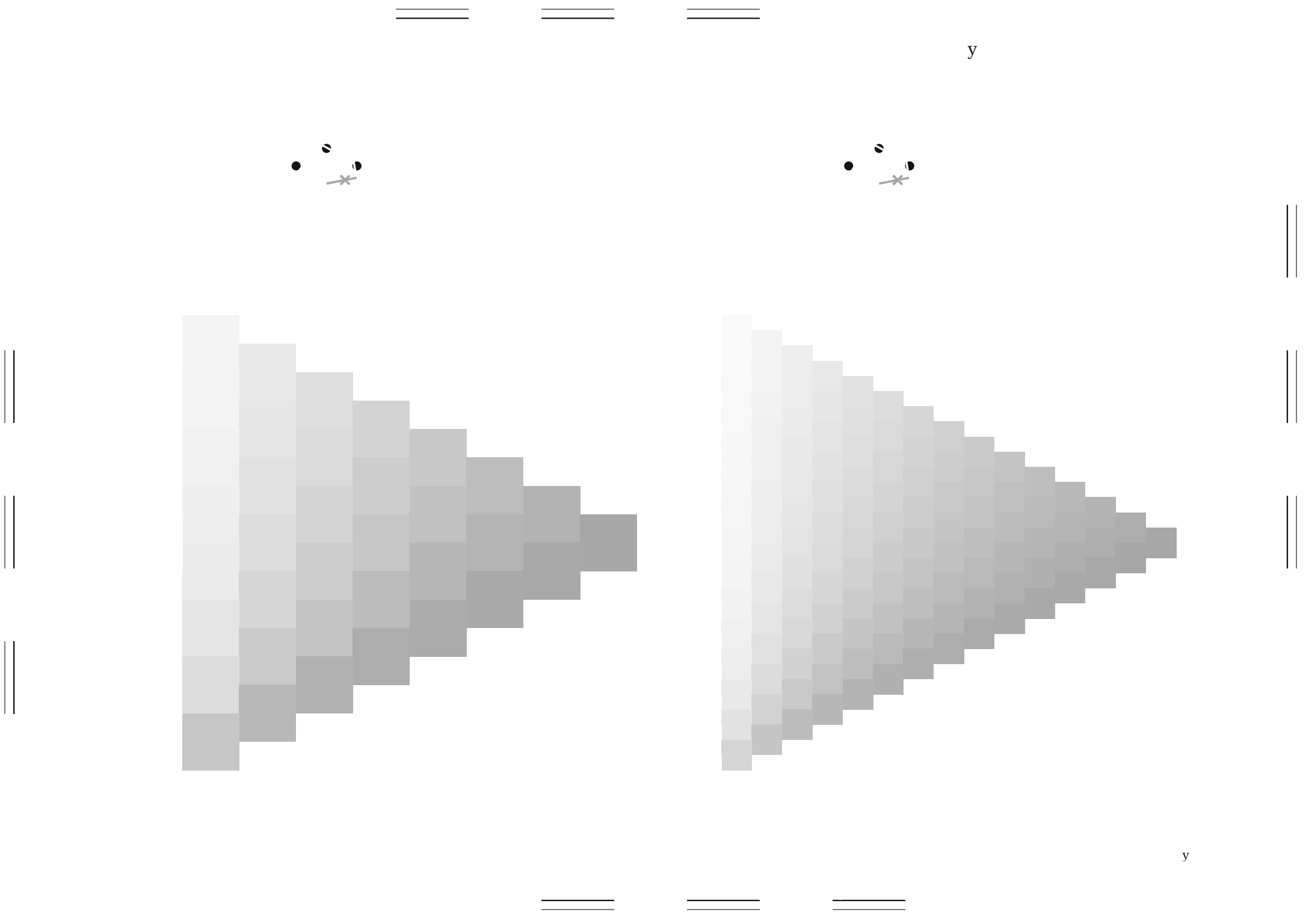












Input: Colorimetric Offset Reflective System ORS18

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

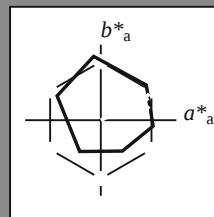
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 52 69 25

olv*Ma: 1.0 0.0 0.32

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

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

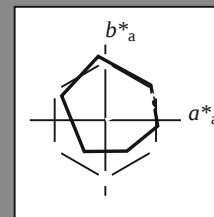
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 52 69 25

olv*Ma: 1.0 0.0 0.32

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

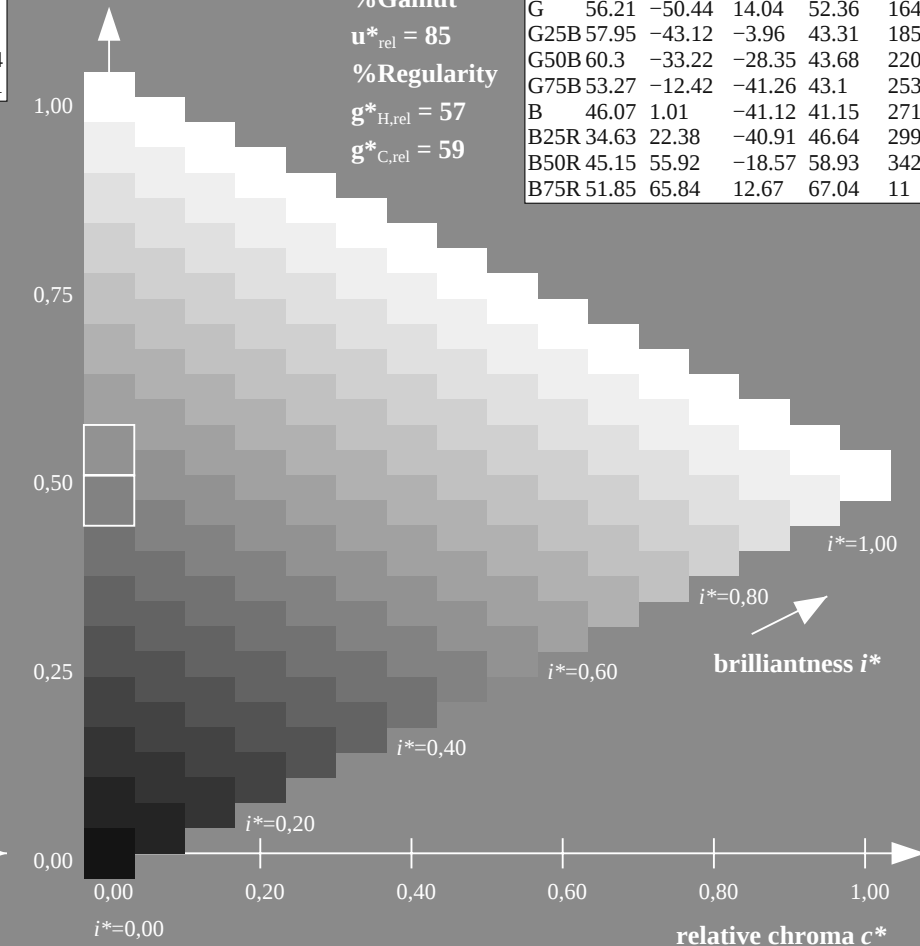
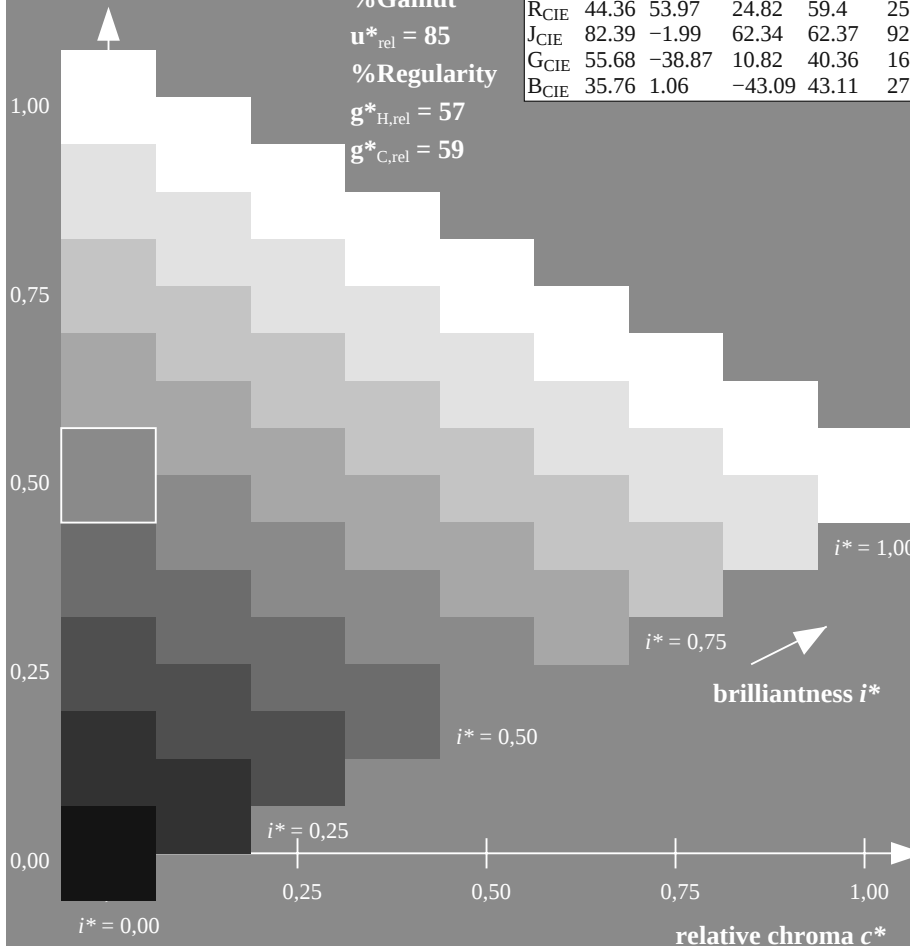
%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11



ZE920-7N, 9 step scales for constant CIELAB hue 25/360 = 0.069 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 25/360 = 0.069 (right)

BAM-test chart ZE92; Colorimetric systems, Page 81/96
D65: 9 and 16 step colour scales for 16 elementary hues

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

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 41/360 = 0.113$

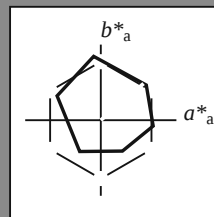
lab^*tch and lab^*nch

D65: hue R25J

LCH*Ma: 54 74 41

olv*Ma: 1.0 0.05 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 41/360 = 0.113$

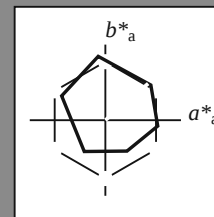
lab^*tch and lab^*nch

D65: hue R25J

LCH*Ma: 54 74 41

olv*Ma: 1.0 0.05 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

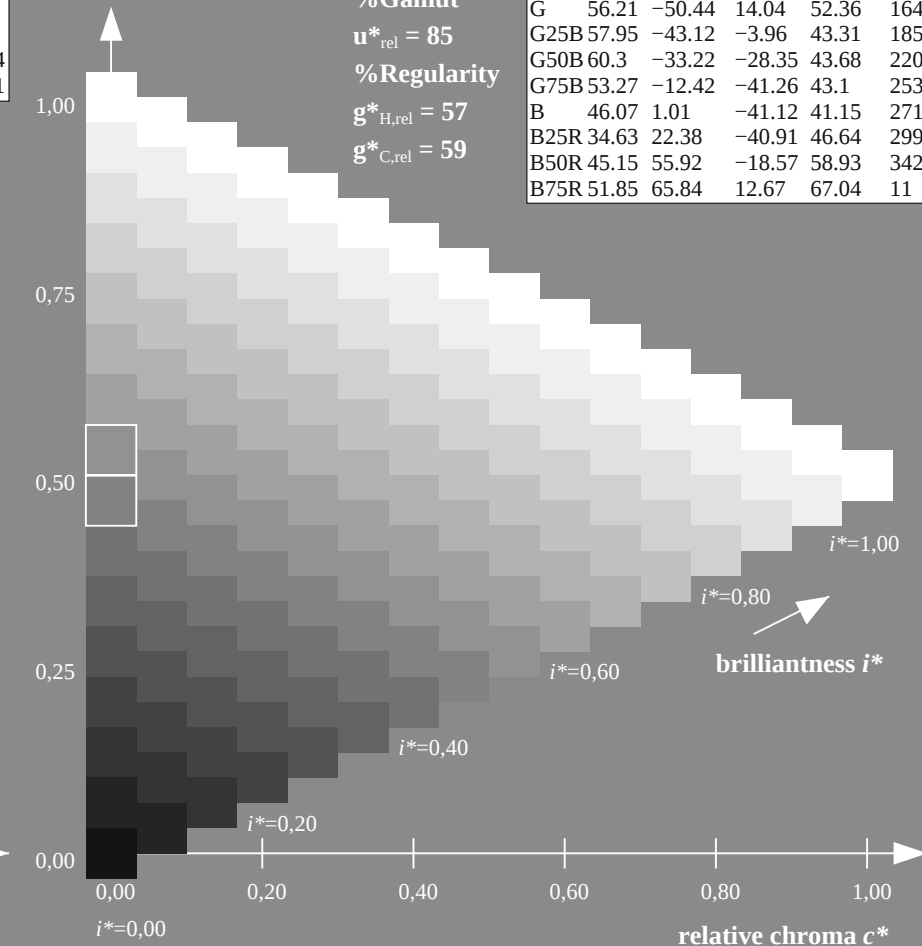
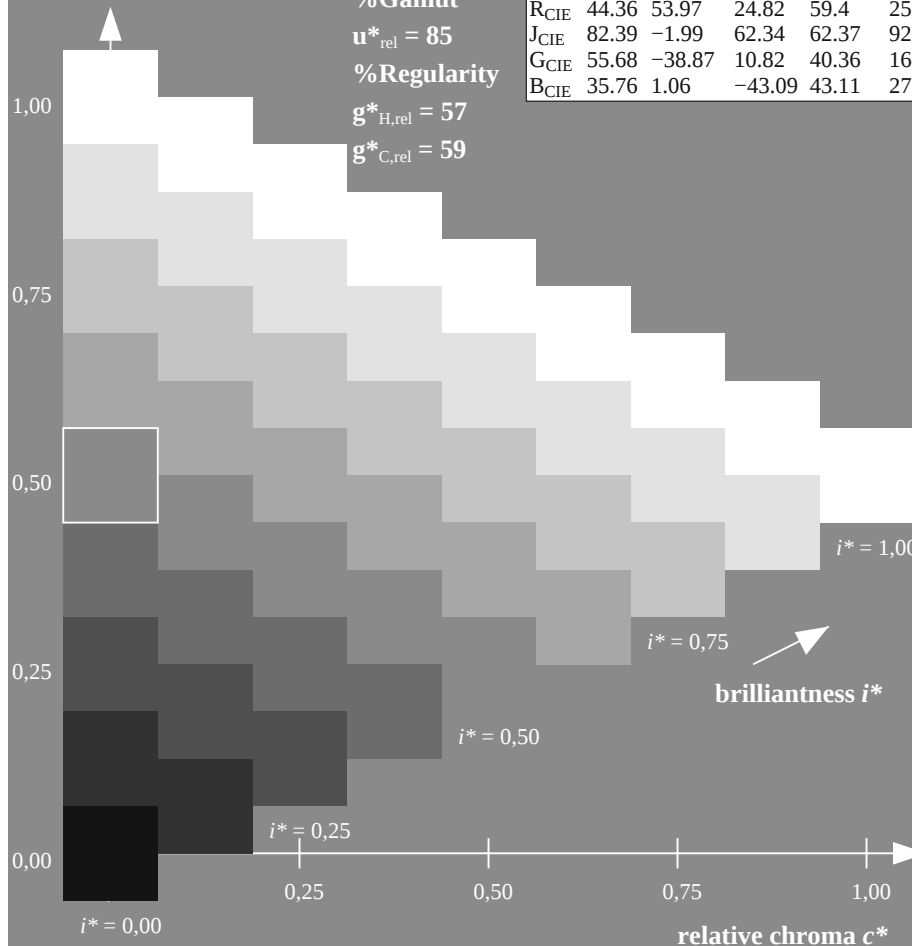
%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11



ZE920-7N, 9 step scales for constant CIELAB hue 41/360 = 0.113 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 41/360 = 0.113 (right)

BAM-test chart ZE92; Colorimetric systems, Page 82/96
D65: 9 and 16 step colour scales for 16 elementary hues

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

BAM registration: 20071001-ZE92/10L/L92E00NA.PS/.TXT BAM material: code=rhdata
application for evaluation and measurement of printer or monitor systems

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 59/360 = 0.164$

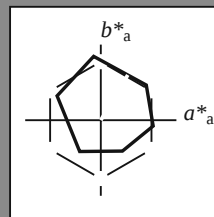
lab^*tch and lab^*nch

D65: hue R50J

LCH*Ma: 65 70 59

olv*Ma: 1.0 0.35 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

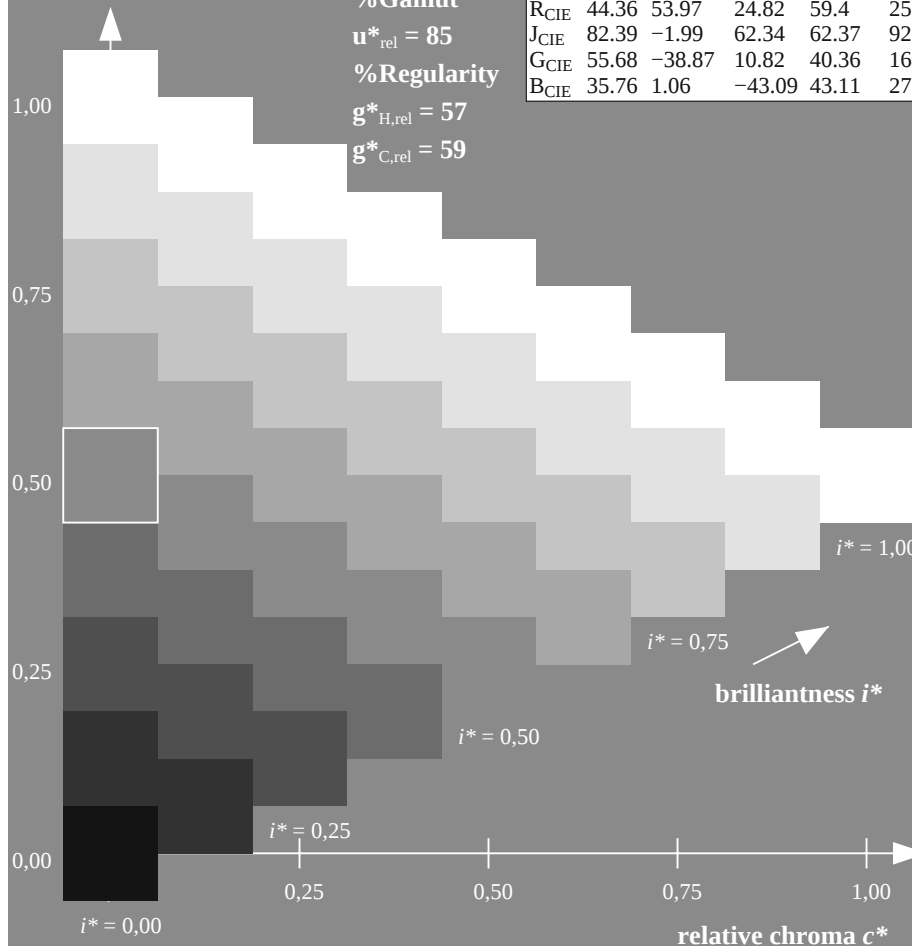
%Regularity

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

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

ORS18; adapted (a) CIELAB data

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



ZE920-7N, 9 step scales for constant CIELAB hue 59/360 = 0.164 (left)

BAM-test chart ZE92; Colorimetric systems, Page 83/96
D65: 9 and 16 step colour scales for 16 elementary hues

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 59/360 = 0.164$

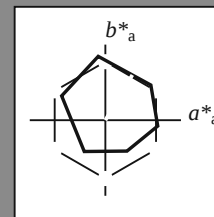
lab^*tch and lab^*nch

D65: hue R50J

LCH*Ma: 65 70 59

olv*Ma: 1.0 0.35 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

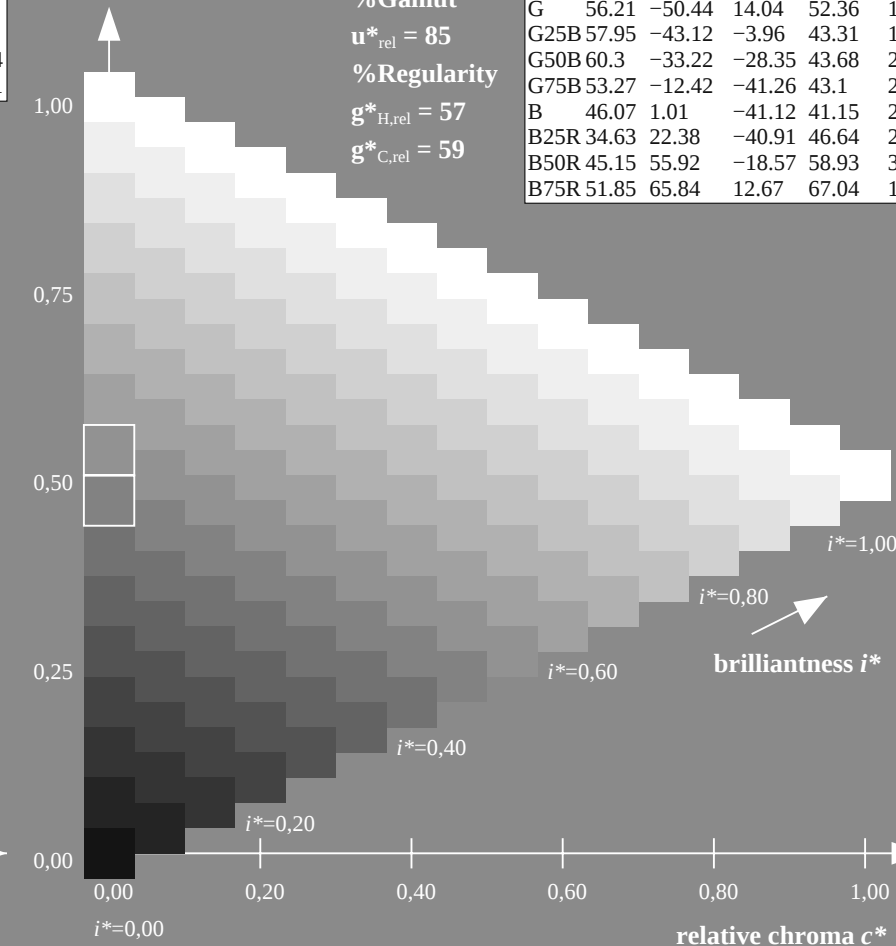
%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11



ZE920-7N, 16 step scales for constant CIELAB hue 59/360 = 0.164 (right)

input: $rgb / cmy0$ set($rgb/cmyk$)color
output: $-> cmy5^*$ set($cmyk$)color

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 77/360 = 0.215$

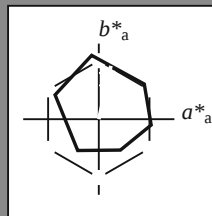
lab^*tch and lab^*nch

D65: hue R75J

LCH*Ma: 77 72 77

olv*Ma: 1.0 0.63 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 77/360 = 0.215$

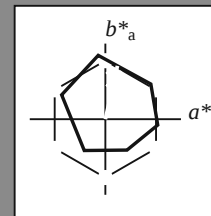
lab^*tch and lab^*nch

D65: hue R75J

LCH*Ma: 77 72 77

olv*Ma: 1.0 0.63 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11

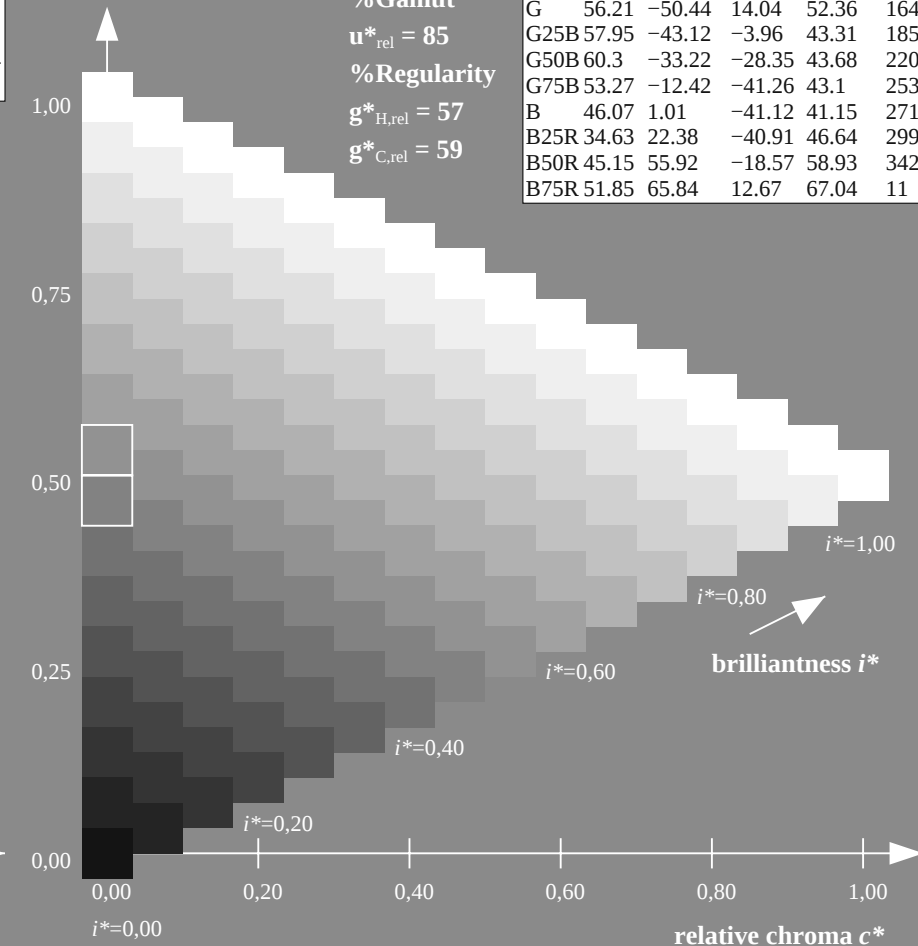
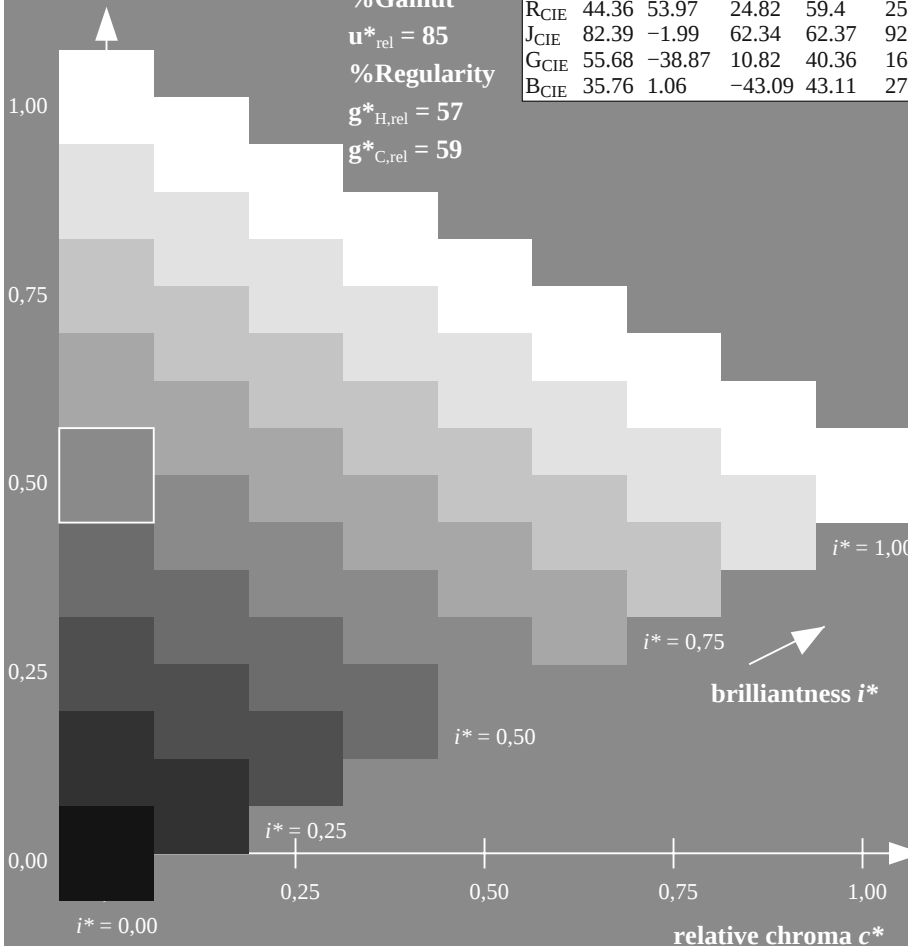
%Gamut

$u^*_{rel} = 85$

%Regularity

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

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



ZE920-7N, 9 step scales for constant CIELAB hue 77/360 = 0.215 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 77/360 = 0.215 (right)

BAM-test chart ZE92; Colorimetric systems, Page 84/96
D65: 9 and 16 step colour scales for 16 elementary hues

input: $rgb / cmy0$ set($rgb/cmyk$)color
output: $-> cmy5^*$ set($cmyk$)color

Input: Colorimetric Offset Reflective System ORS18

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

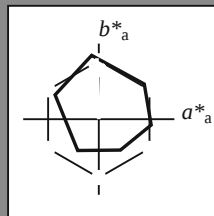
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 87 81 92

olv*Ma: 1.0 0.9 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

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

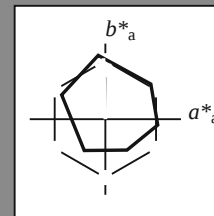
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 87 81 92

olv*Ma: 1.0 0.9 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11

%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ZE920-7N, 9 step scales for constant CIELAB hue 92/360 = 0.255 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 92/360 = 0.255 (right)

BAM-test chart ZE92; Colorimetric systems, Page 85/96
D65: 9 and 16 step colour scales for 16 elementary hues

input: $rgb / cmy0$ set($rgb/cmyk$)color
output: $-> cmy5^*$ set($cmyk$)color

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 103/360 = 0.286$

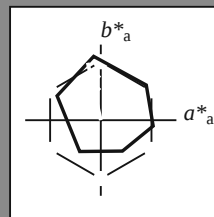
lab^*tch and lab^*nch

D65: hue J25G

LCH*Ma: 85 78 103

olv*Ma: 0.84 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

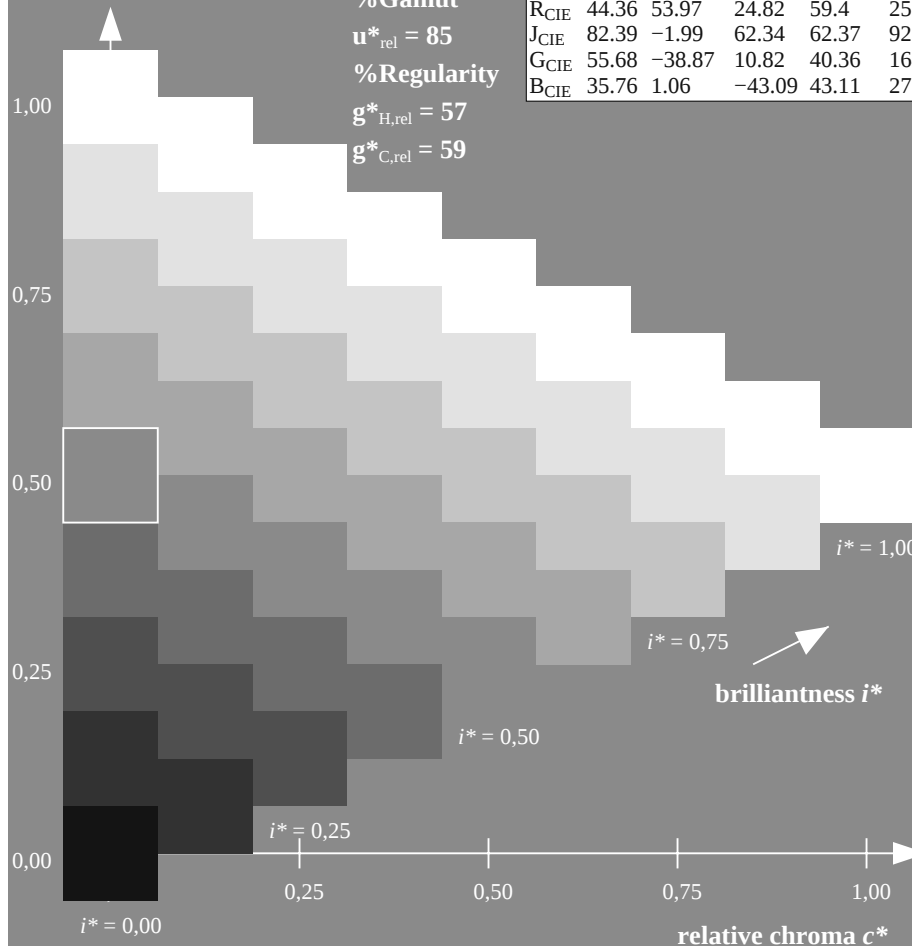
%Regularity

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

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

ORS18; adapted (a) CIELAB data

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



ZE920-7N, 9 step scales for constant CIELAB hue 103/360 = 0.286 (left)

BAM-test chart ZE92; Colorimetric systems, Page 86/96
D65: 9 and 16 step colour scales for 16 elementary hues

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 103/360 = 0.286$

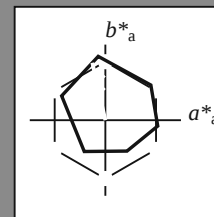
lab^*tch and lab^*nch

D65: hue J25G

LCH*Ma: 85 78 103

olv*Ma: 0.84 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

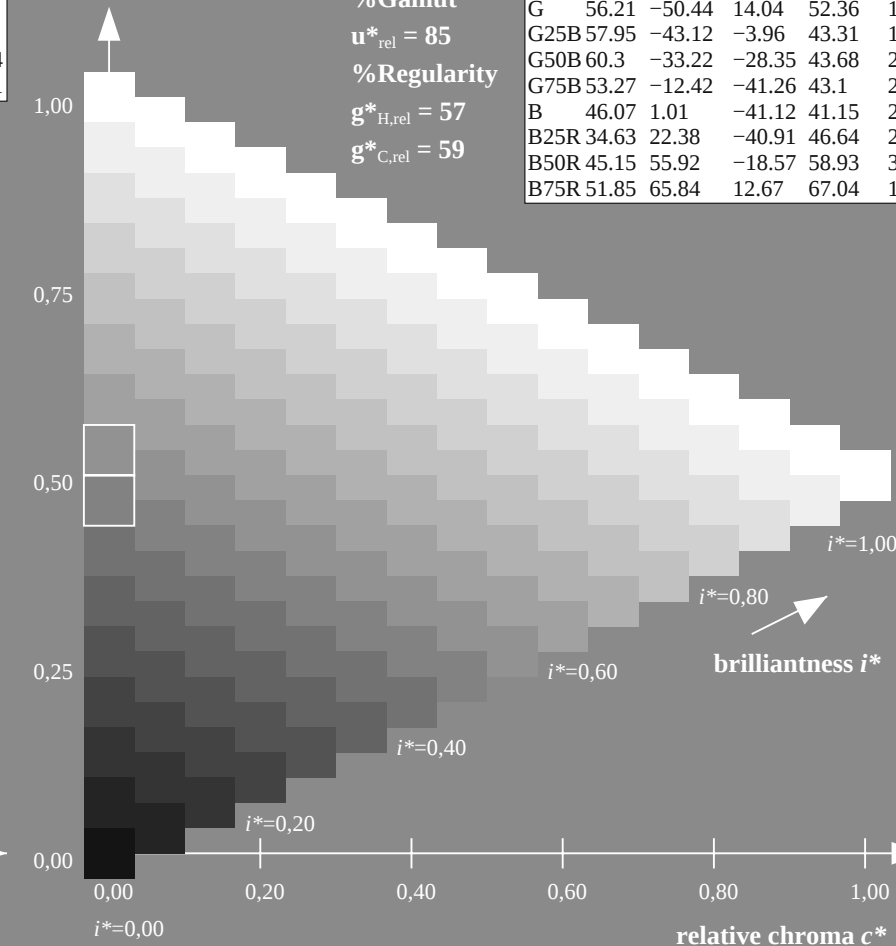
%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11



ZE920-7N, 16 step scales for constant CIELAB hue 103/360 = 0.286 (right)

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

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 119/360 = 0.331$

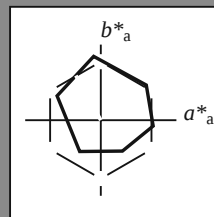
lab^*tch and lab^*nch

D65: hue J50G

LCH*Ma: 73 68 119

olv*Ma: 0.51 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

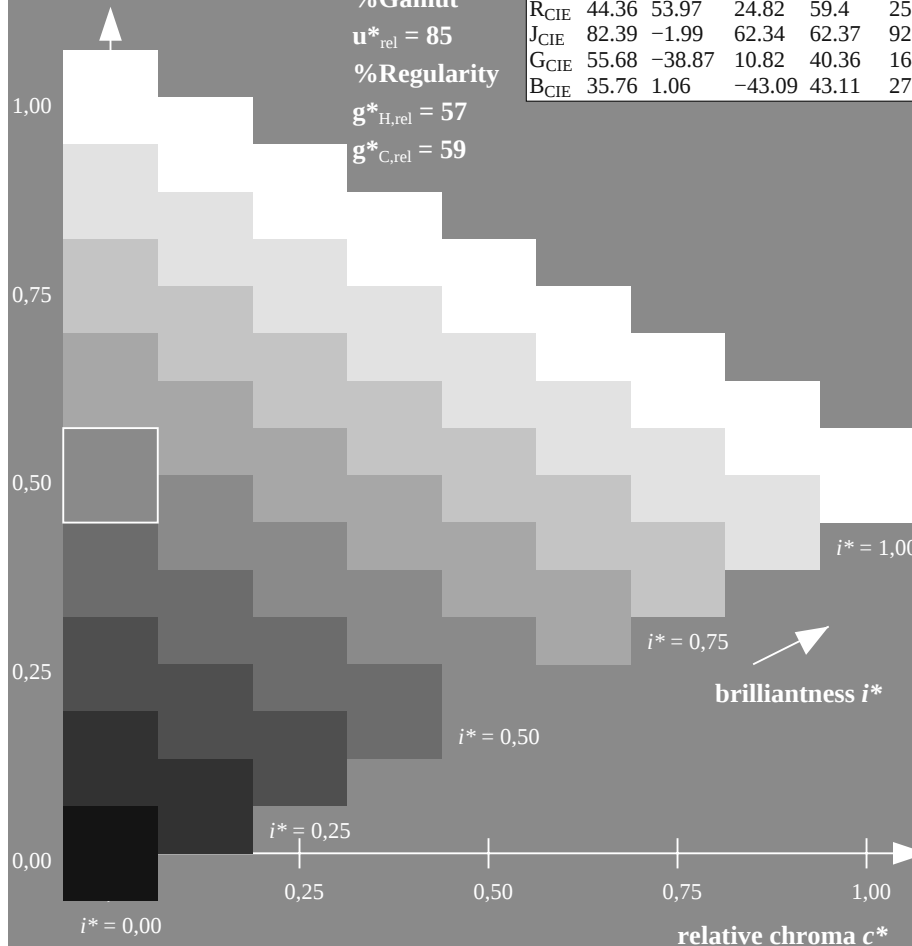
%Regularity

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

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

ORS18; adapted (a) CIELAB data

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



ZE920-7N, 9 step scales for constant CIELAB hue 119/360 = 0.331 (left)

BAM-test chart ZE92; Colorimetric systems, Page 87/96
D65: 9 and 16 step colour scales for 16 elementary hues

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 119/360 = 0.331$

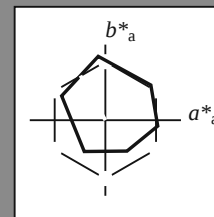
lab^*tch and lab^*nch

D65: hue J50G

LCH*Ma: 73 68 119

olv*Ma: 0.51 1.0 0.0

triangle lightness t^*



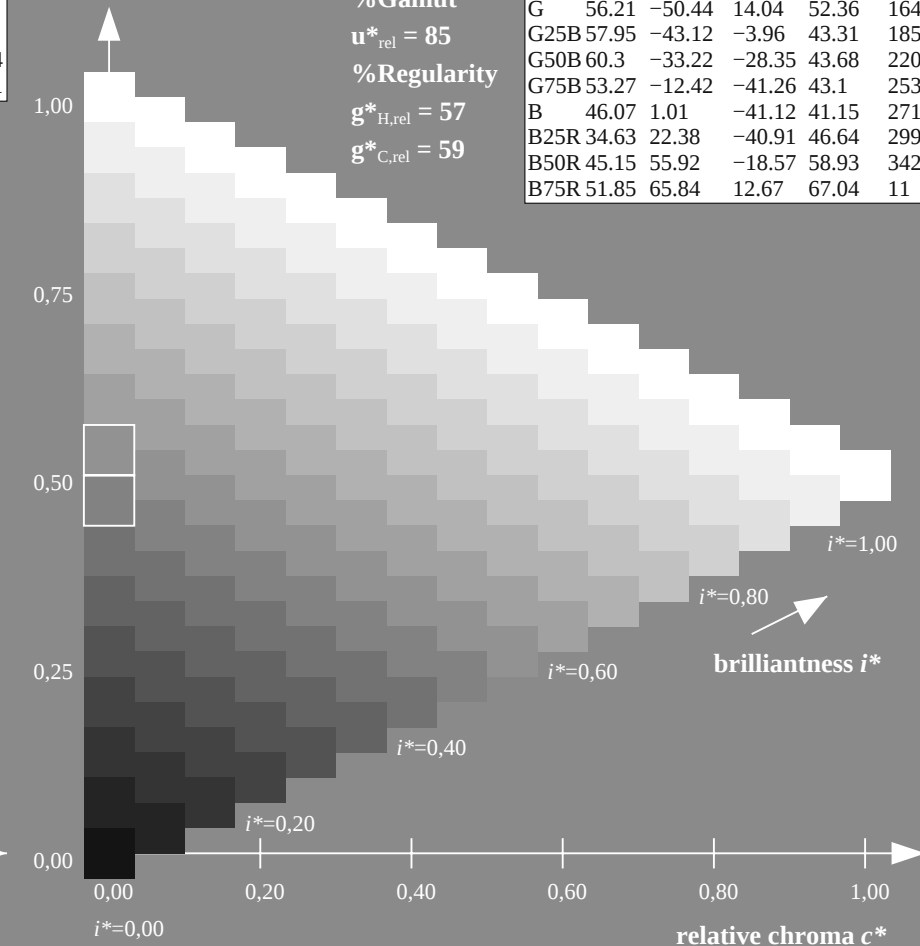
%Gamut

$u^*_{rel} = 85$

%Regularity

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

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



ZE920-7N, 16 step scales for constant CIELAB hue 119/360 = 0.331 (right)

input: $rgb / cmy0$ set($rgb/cmyk$)color
output: $-> cmy5^*$ set($cmyk$)color

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 141/360 = 0.393$

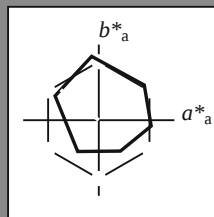
lab^*tch and lab^*nch

D65: hue J75G

LCH*Ma: 60 64 141

olv*Ma: 0.15 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

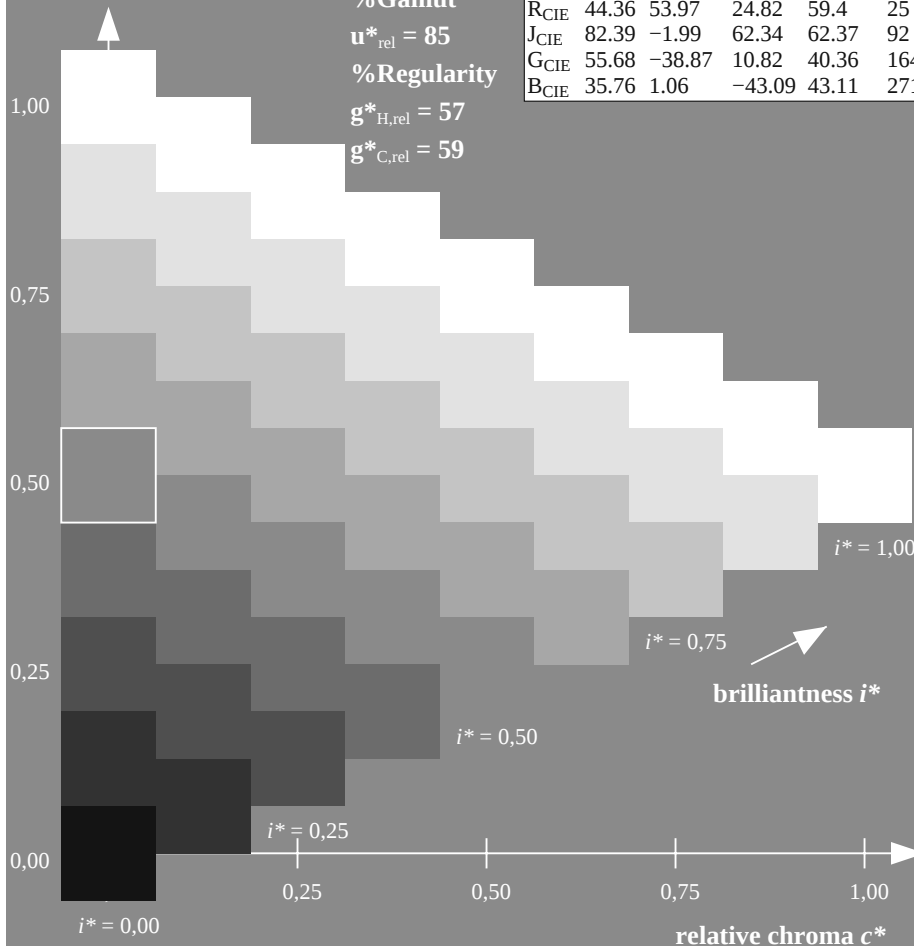
%Regularity

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

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

ORS18; adapted (a) CIELAB data

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



Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 141/360 = 0.393$

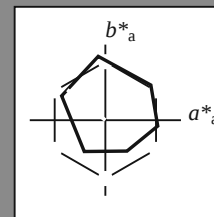
lab^*tch and lab^*nch

D65: hue J75G

LCH*Ma: 60 64 141

olv*Ma: 0.15 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

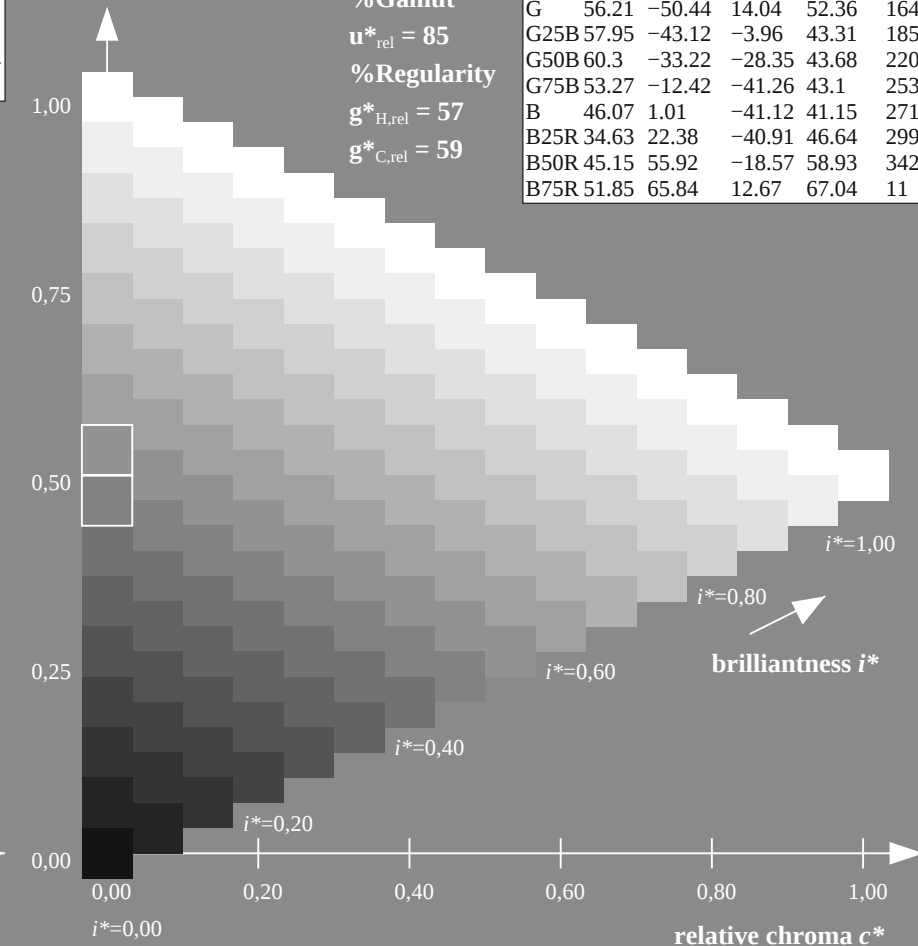
%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11



ZE920-7N, 9 step scales for constant CIELAB hue 141/360 = 0.393 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 141/360 = 0.393 (right)

BAM-test chart ZE92; Colorimetric systems, Page 88/96
D65: 9 and 16 step colour scales for 16 elementary hues

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

Input: Colorimetric Offset Reflective System ORS18

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

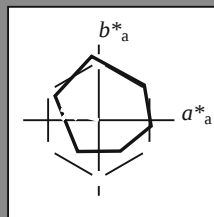
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 52 164

olv*Ma: 0.0 1.0 0.25

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

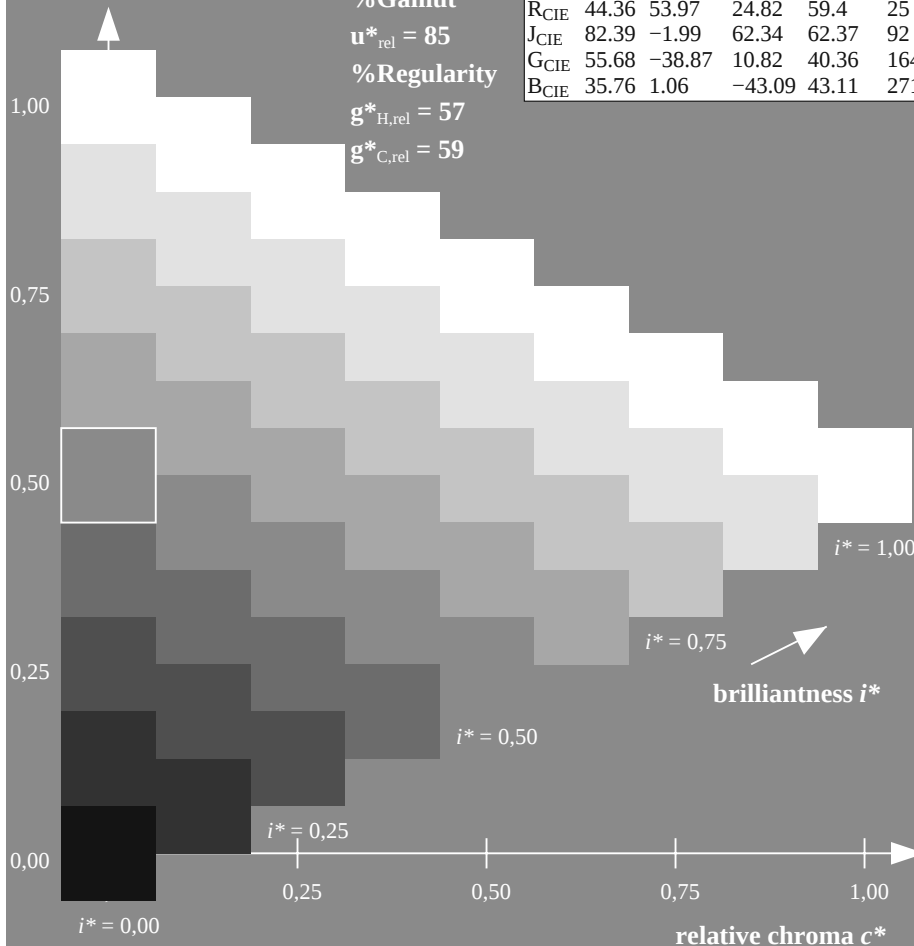
%Regularity

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

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

ORS18; adapted (a) CIELAB data

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



ZE920-7N, 9 step scales for constant CIELAB hue 164/360 = 0.457 (left)

BAM-test chart ZE92; Colorimetric systems, Page 89/96
D65: 9 and 16 step colour scales for 16 elementary hues

Output: Colorimetric Offset Reflective System ORS18

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

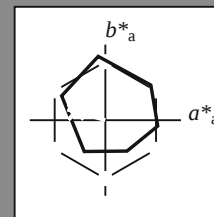
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 52 164

olv*Ma: 0.0 1.0 0.25

triangle lightness t^*



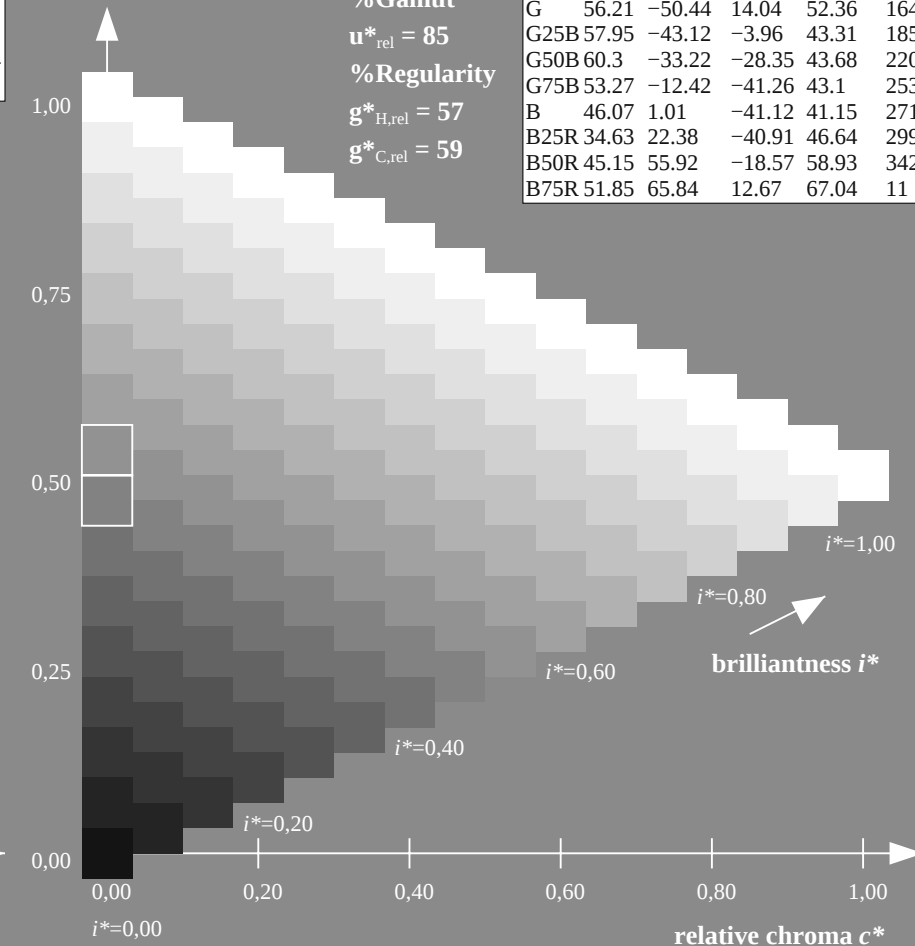
%Gamut

$u^*_{rel} = 85$

%Regularity

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

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



ZE920-7N, 16 step scales for constant CIELAB hue 164/360 = 0.457 (right)

input: $rgb / cmy0$ set($rgb/cmyk$)color
output: $-> cmy5^*$ set($cmyk$)color

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 185/360 = 0.515$

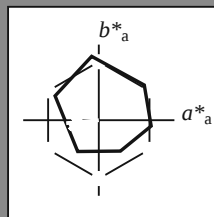
lab^*tch and lab^*nch

D65: hue G25B

LCH*Ma: 58 43 185

olv*Ma: 0.0 1.0 0.49

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 185/360 = 0.515$

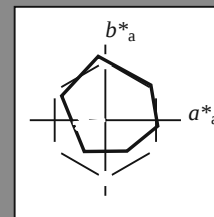
lab^*tch and lab^*nch

D65: hue G25B

LCH*Ma: 58 43 185

olv*Ma: 0.0 1.0 0.49

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11

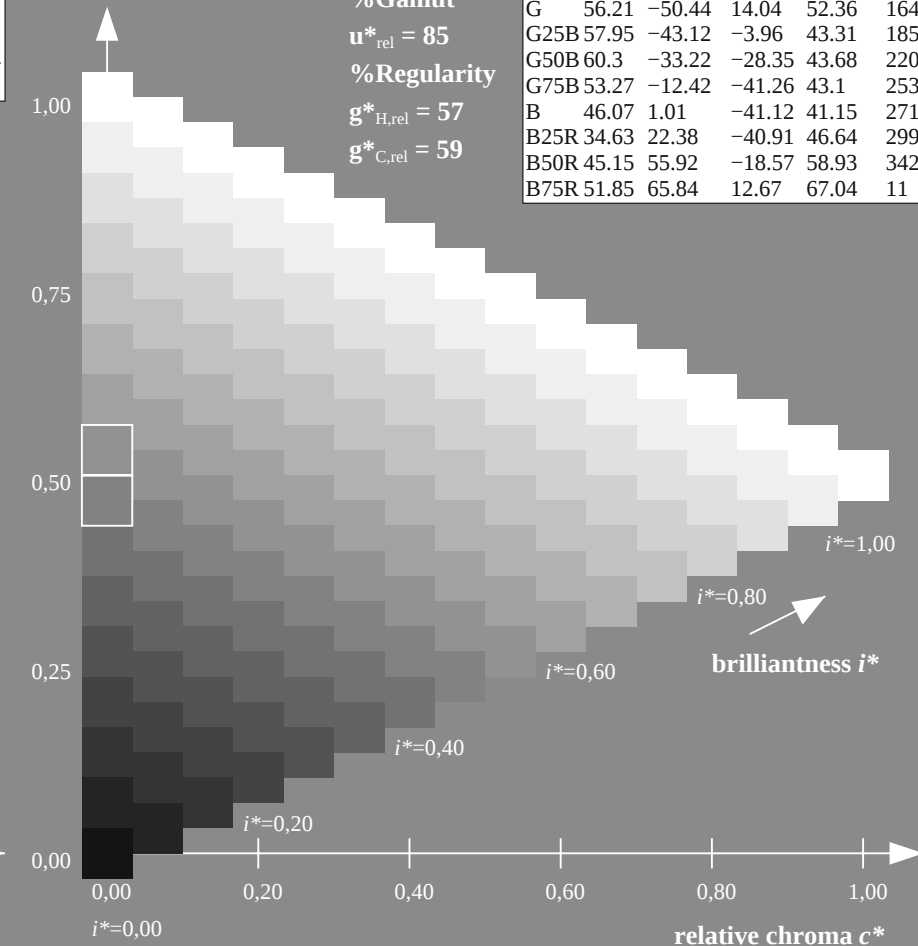
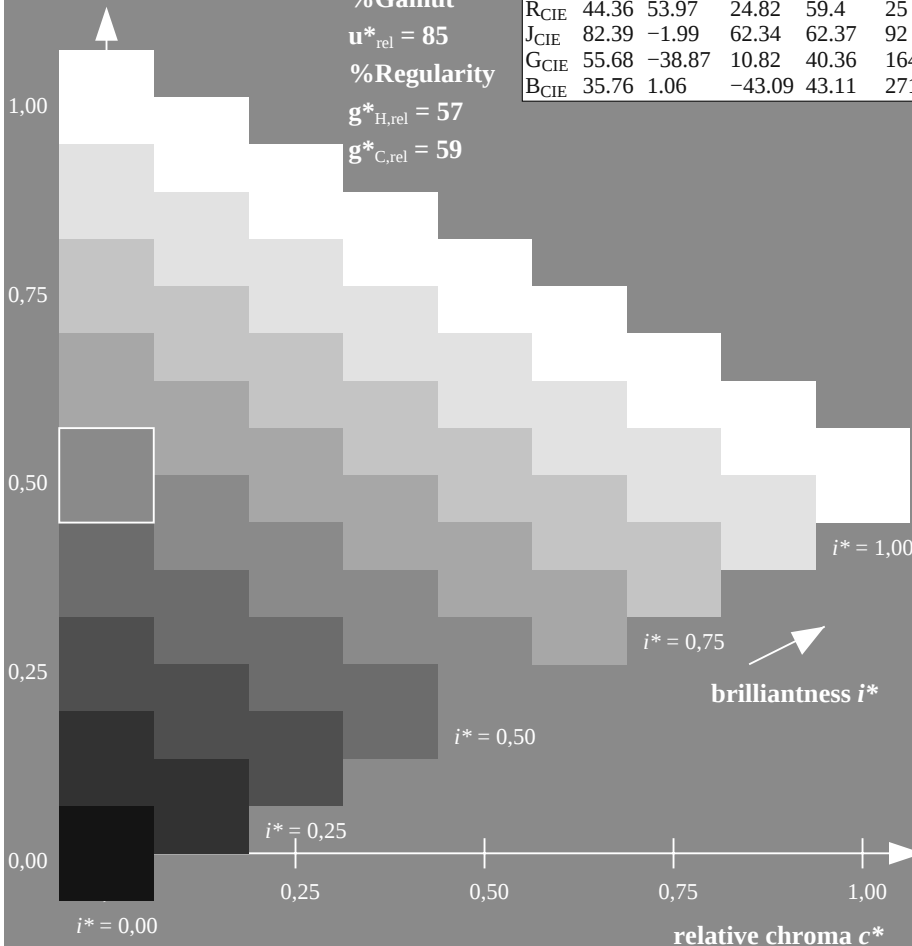
%Gamut

$u^*_{rel} = 85$

%Regularity

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

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



ZE920-7N, 9 step scales for constant CIELAB hue 185/360 = 0.515 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 185/360 = 0.515 (right)

n

BAM-test chart ZE92; Colorimetric systems, Page 90/96

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

input: $rgb / cmy0$ set($rgb/cmyk$)color

output: $-> cmy5^*$ set($cmyk$)color

Input: Colorimetric Offset Reflective System ORS18

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

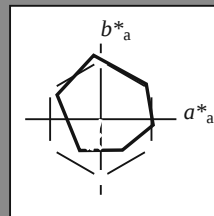
lab^*tch and lab^*nch

D65: hue G75B

LCH*Ma: 53 43 253

olv*Ma: 0.0 0.73 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

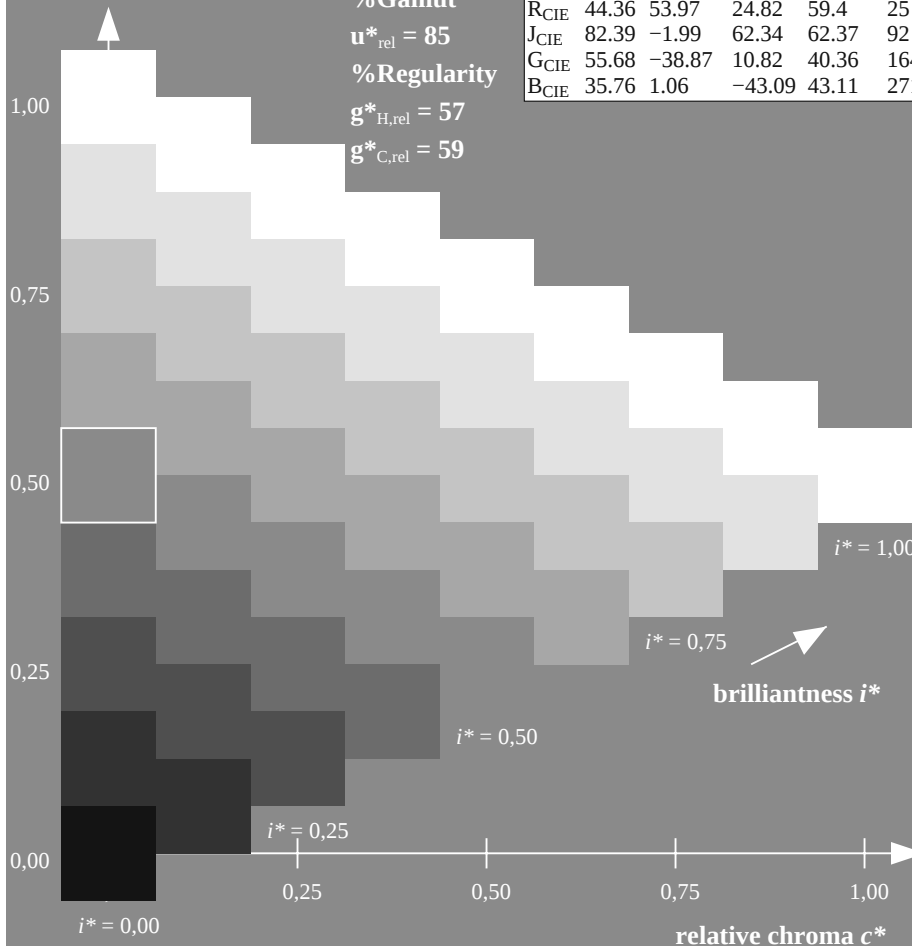
%Regularity

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

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

ORS18; adapted (a) CIELAB data

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



ZE920-7N, 9 step scales for constant CIELAB hue 253/360 = 0.703 (left)

BAM-test chart ZE92; Colorimetric systems, Page 92/96
D65: 9 and 16 step colour scales for 16 elementary hues

Output: Colorimetric Offset Reflective System ORS18

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

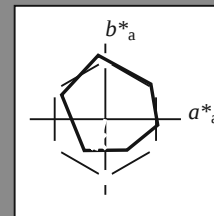
lab^*tch and lab^*nch

D65: hue G75B

LCH*Ma: 53 43 253

olv*Ma: 0.0 0.73 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

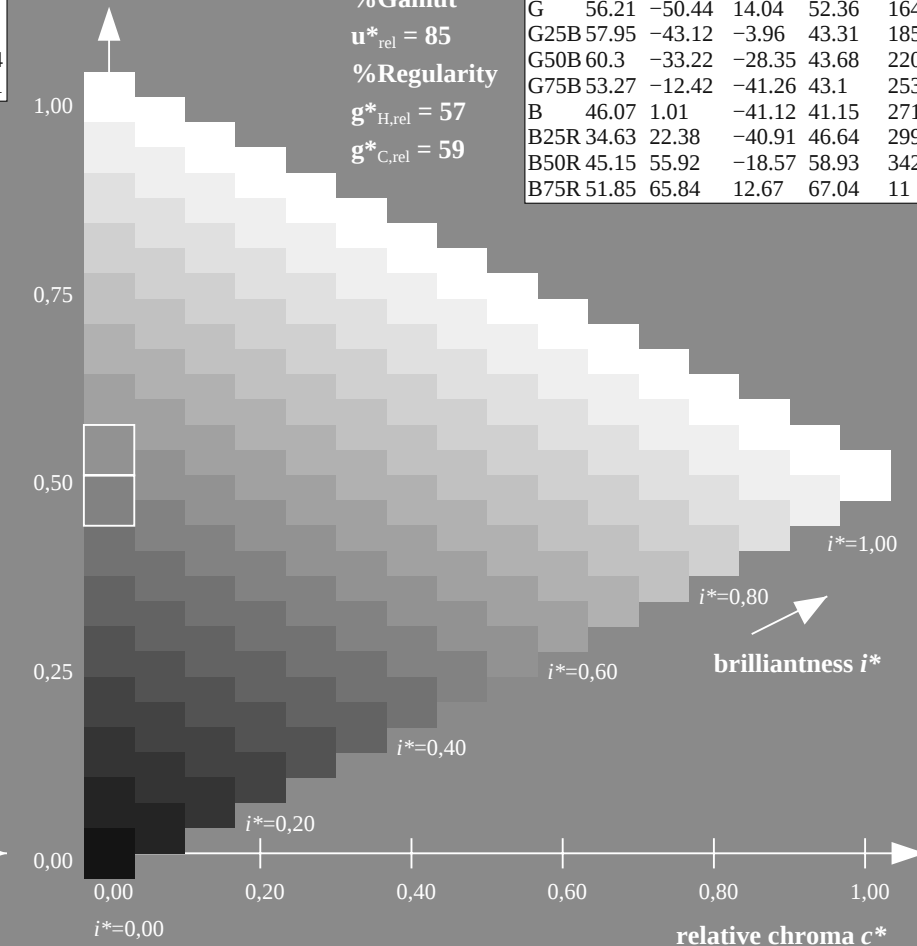
%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11



ZE920-7N, 16 step scales for constant CIELAB hue 253/360 = 0.703 (right)

input: $rgb / cmy0$ set($rgb/cmyk$)color
output: $-> cmy5^*$ set($cmyk$)color

Input: Colorimetric Offset Reflective System ORS18

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

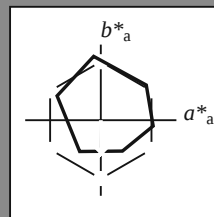
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 46 41 271

olv*Ma: 0.0 0.49 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

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

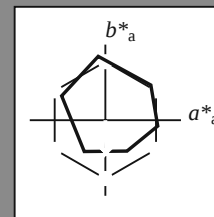
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 46 41 271

olv*Ma: 0.0 0.49 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

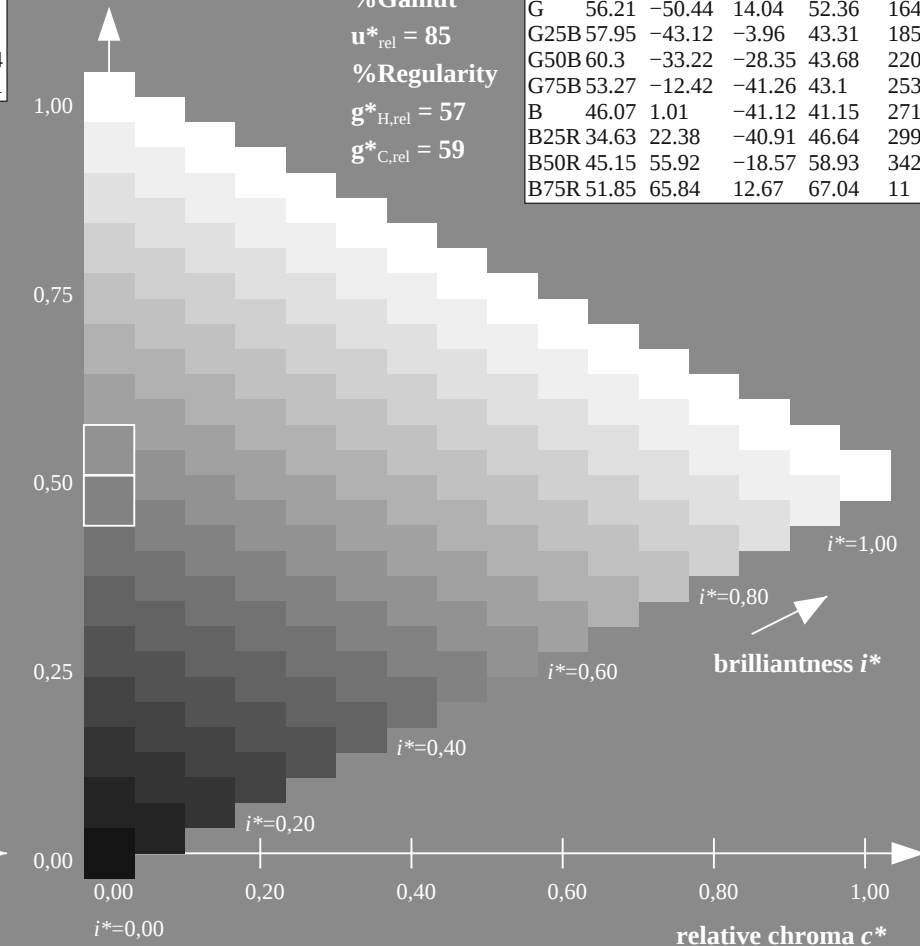
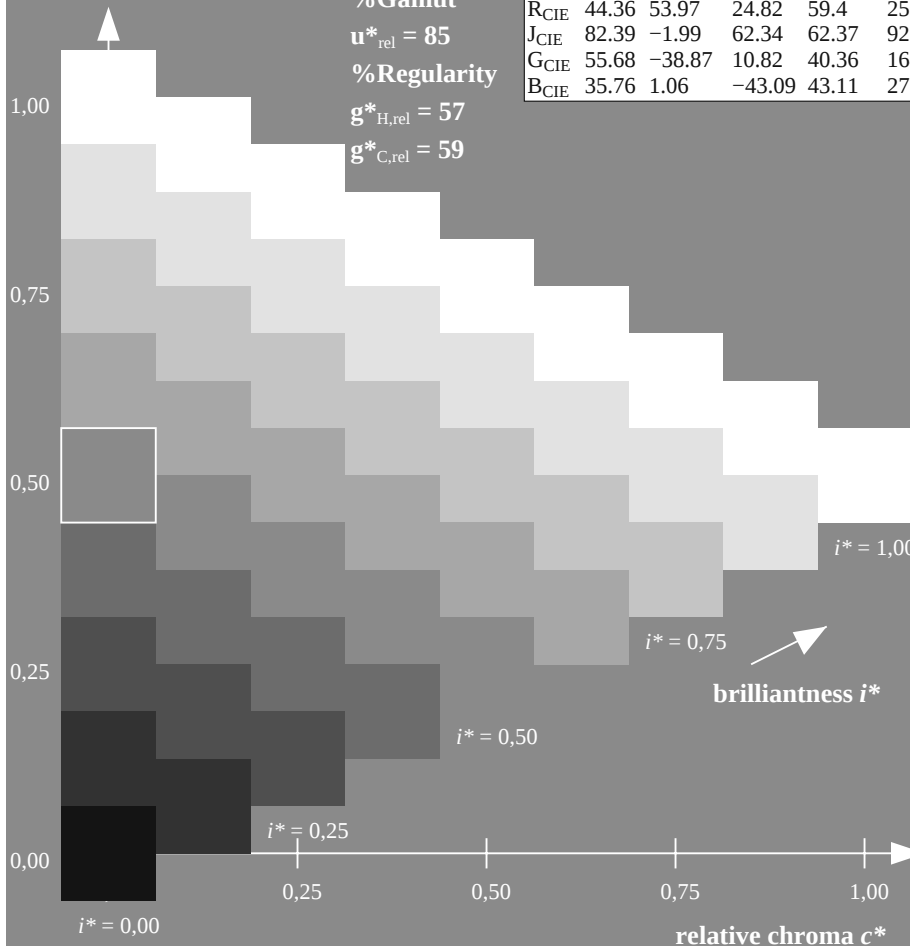
%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11



ZE920-7N, 9 step scales for constant CIELAB hue 271/360 = 0.754 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 271/360 = 0.754 (right)

BAM-test chart ZE92; Colorimetric systems, Page 93/96
D65: 9 and 16 step colour scales for 16 elementary hues

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

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 299/360 = 0.83$

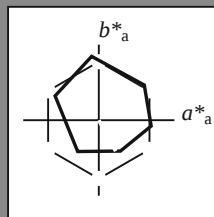
lab^*tch and lab^*nch

D65: hue B25R

LCH*Ma: 35 47 299

olv*Ma: 0.0 0.11 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

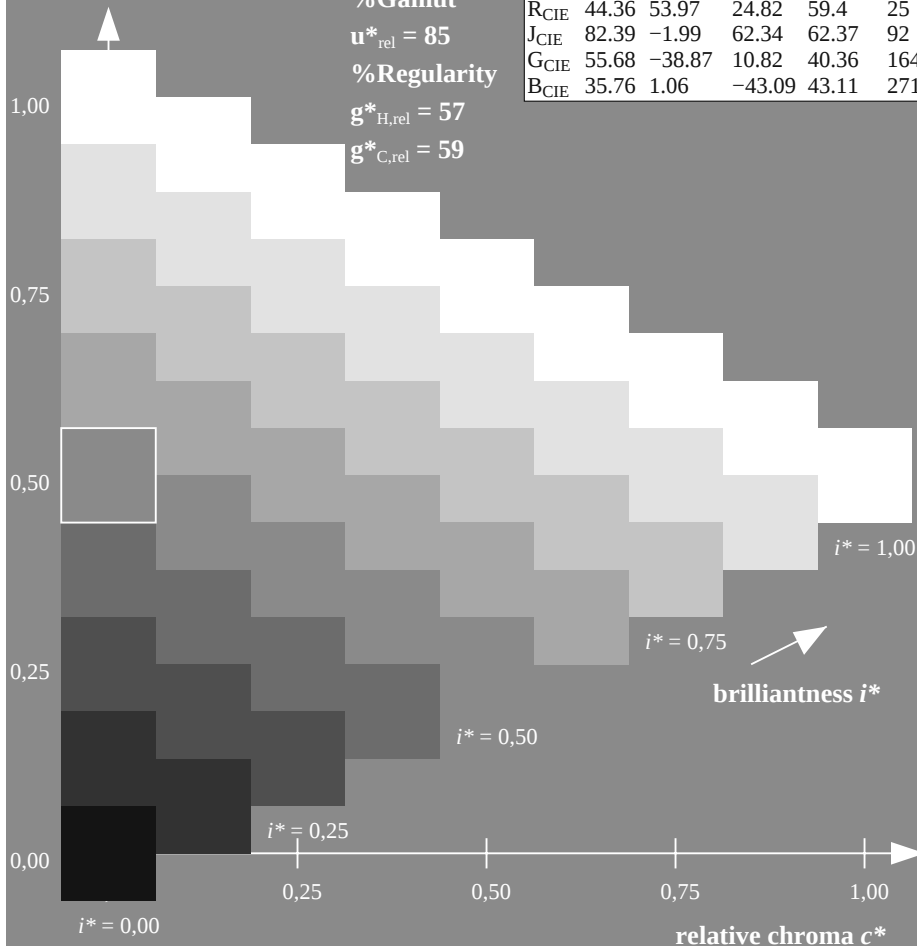
%Regularity

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

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

ORS18; adapted (a) CIELAB data

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



ZE920-7N, 9 step scales for constant CIELAB hue 299/360 = 0.83 (left)

BAM-test chart ZE92; Colorimetric systems, Page 94/96
D65: 9 and 16 step colour scales for 16 elementary hues

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 299/360 = 0.83$

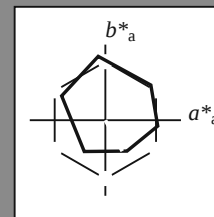
lab^*tch and lab^*nch

D65: hue B25R

LCH*Ma: 35 47 299

olv*Ma: 0.0 0.11 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

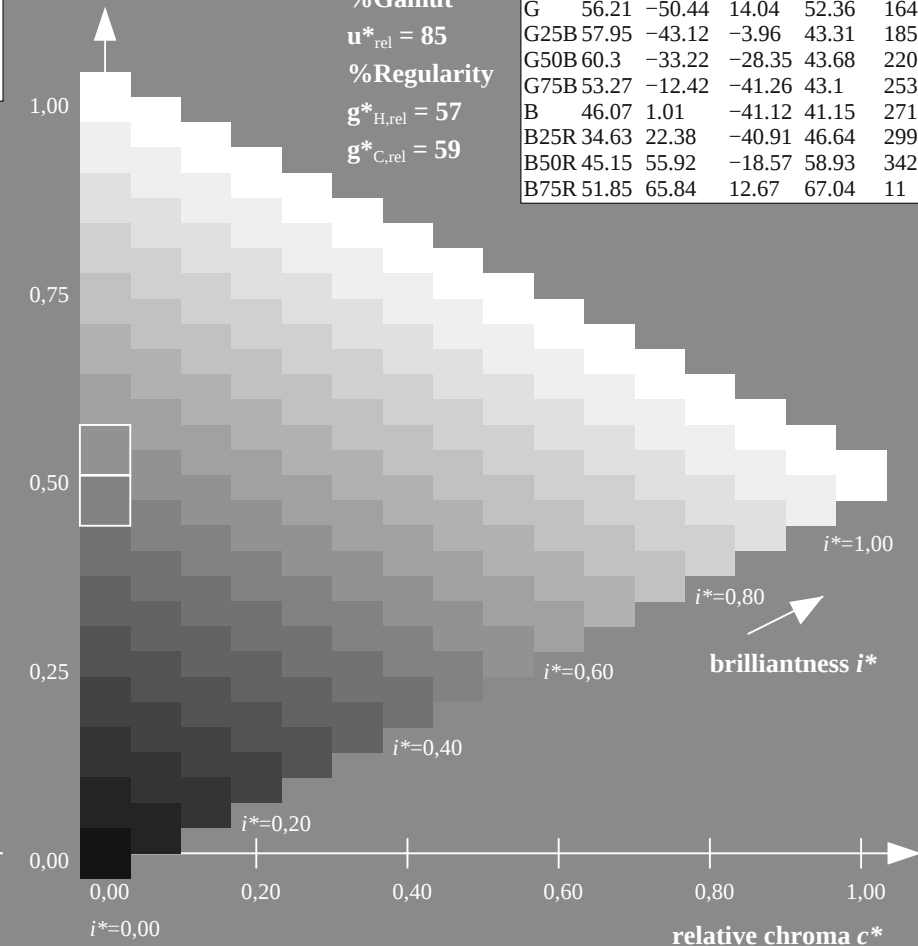
%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11



ZE920-7N, 16 step scales for constant CIELAB hue 299/360 = 0.83 (right)

input: $rgb / cmy0$ set($rgb/cmyk$)color
output: $-> cmy5^*$ set($cmyk$)color

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 342/360 = 0.949$

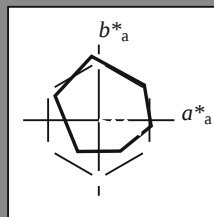
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 45 59 342

olv*Ma: 0.67 0.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 342/360 = 0.949$

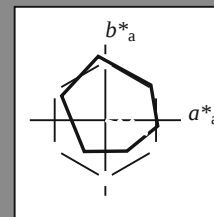
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 45 59 342

olv*Ma: 0.67 0.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

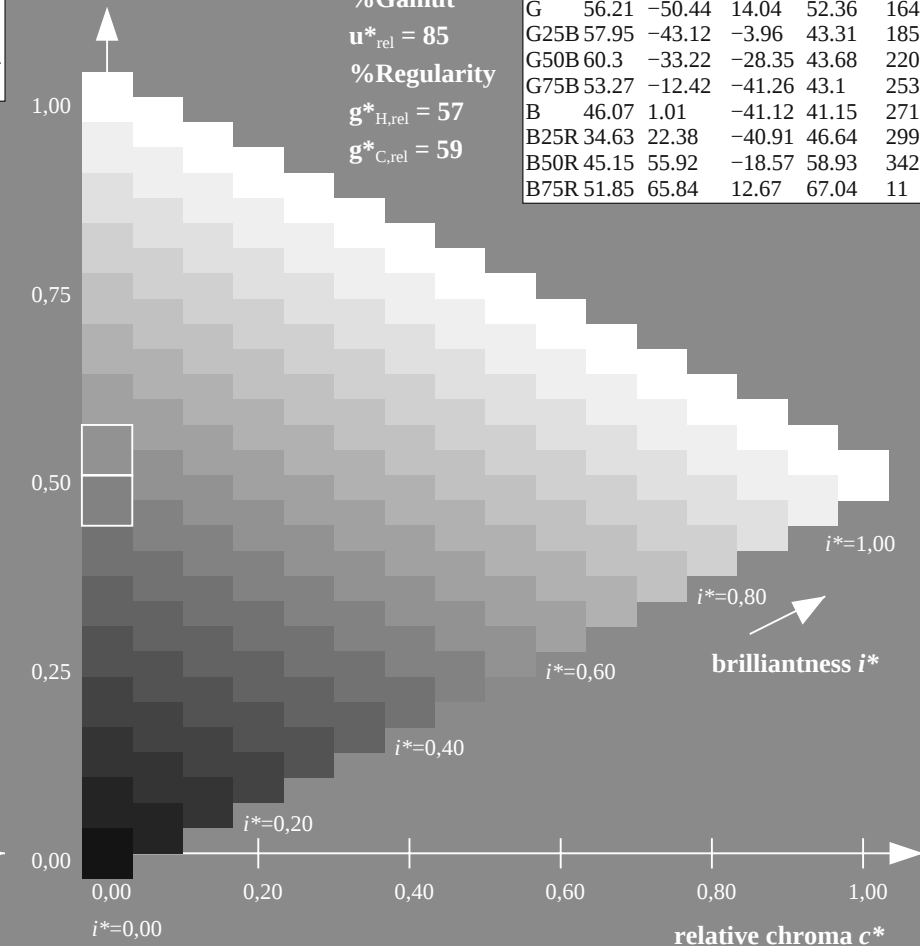
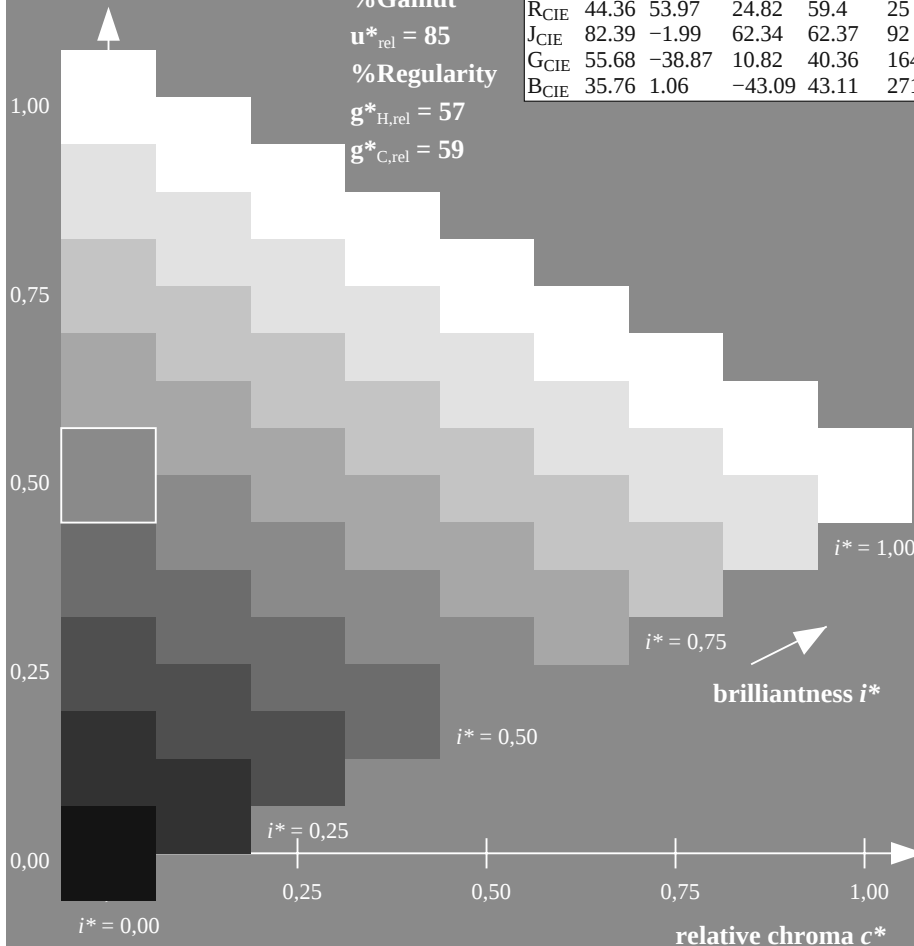
%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
R75J	76.51	15.98	70.55	72.34	77
J	86.93	-2.58	80.67	80.71	92
J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
G50B	60.3	-33.22	-28.35	43.68	220
G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11



ZE920-7N, 9 step scales for constant CIELAB hue 342/360 = 0.949 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 342/360 = 0.949 (right)

BAM-test chart ZE92; Colorimetric systems, Page 95/96
D65: 9 and 16 step colour scales for 16 elementary hues

input: $rgb / cmy0$ set($rgb/cmyk$)color
output: $-> cmy5^*$ set($cmyk$)color

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 11/360 = 0.03$

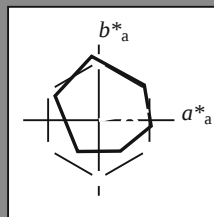
lab^*tch and lab^*nch

D65: hue B75R

LCH*Ma: 52 67 11

olv*Ma: 1.0 0.0 0.62

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

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

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 11/360 = 0.03$

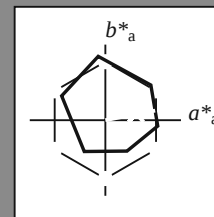
lab^*tch and lab^*nch

D65: hue B75R

LCH*Ma: 52 67 11

olv*Ma: 1.0 0.0 0.62

triangle lightness t^*



%Gamut

$u^*_{rel} = 85$

%Regularity

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

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R	51.79	63.09	29.02	69.44	25
R25J	53.73	56.6	48.42	74.48	41
R50J	65.47	35.67	59.82	69.65	59
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J25G	84.92	-17.23	75.99	77.92	103
J50G	73.11	-32.96	59.0	67.58	119
J75G	60.06	-50.34	40.22	64.44	141
G	56.21	-50.44	14.04	52.36	164
G25B	57.95	-43.12	-3.96	43.31	185
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G75B	53.27	-12.42	-41.26	43.1	253
B	46.07	1.01	-41.12	41.15	271
B25R	34.63	22.38	-40.91	46.64	299
B50R	45.15	55.92	-18.57	58.93	342
B75R	51.85	65.84	12.67	67.04	11

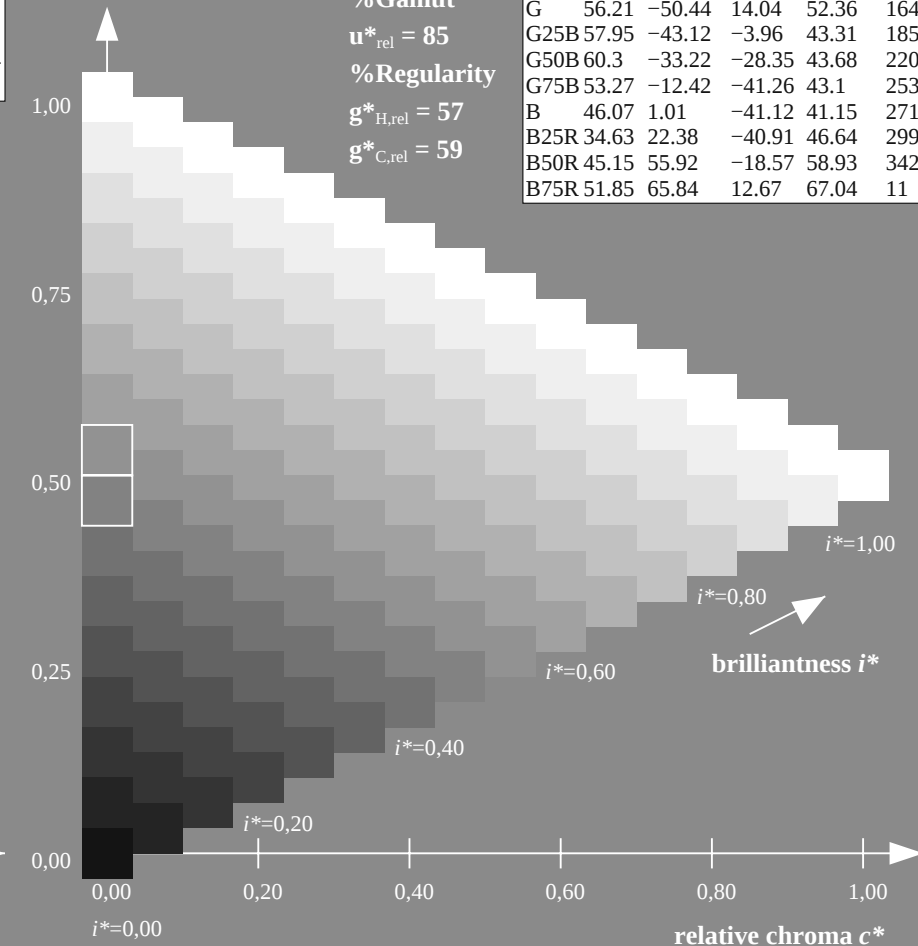
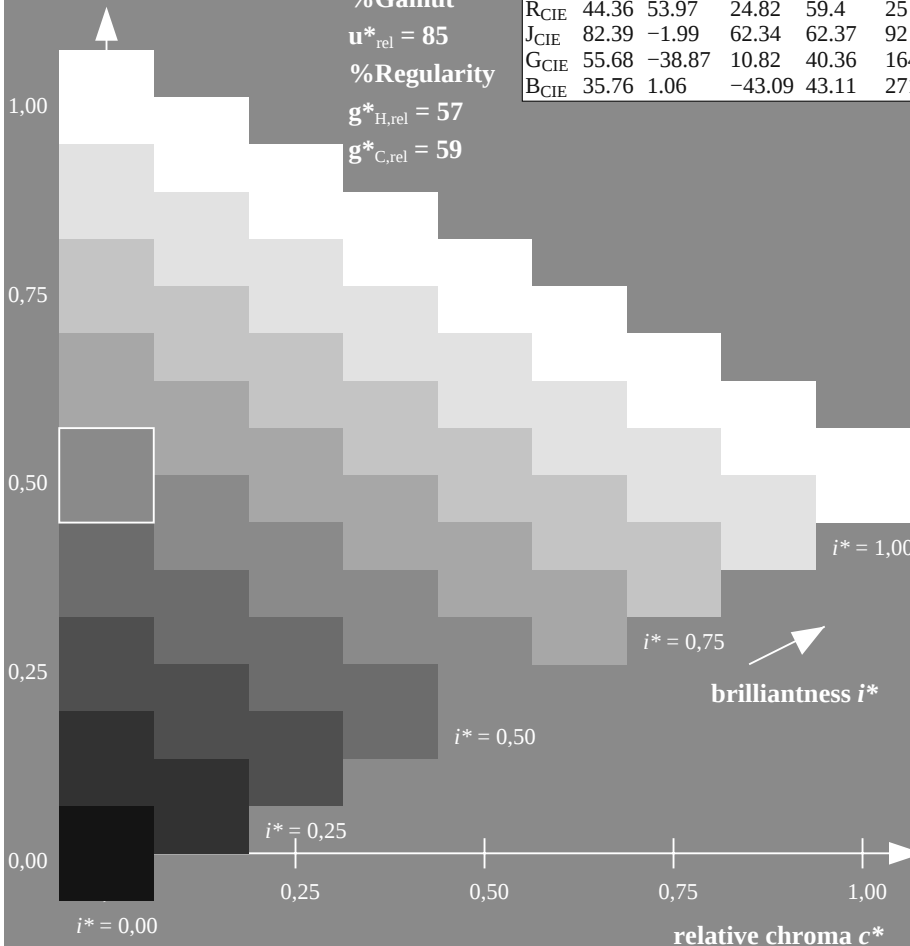
%Gamut

$u^*_{rel} = 85$

%Regularity

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

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



ZE920-7N, 9 step scales for constant CIELAB hue 11/360 = 0.03 (left)

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ZE920-7N, 16 step scales for constant CIELAB hue 11/360 = 0.03 (right)

BAM-test chart ZE92; Colorimetric systems, Page 96/96
D65: 9 and 16 step colour scales for 16 elementary hues

input: $rgb / cmy0$ set($rgb/cmyk$)color
output: $-> cmy5^*$ set($cmyk$)color