

Input: Colorimetric Offset Reflective System ORS18a

for hue $h^* = lab^*h = 36/360 = 0.1$

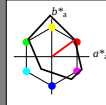
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 35 76 36

ol*Ma: 1.0 0.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 109$

%Regularity

$g^*_{H,rel} = 30$

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

ORS18a; adapted (a) CIELAB data						
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
O_{Ma}	35.32	60.99	44.6	75.56	36	
Y_{Ma}	83.65	-4.11	108.86	108.94	92	
L_{Ma}	43.49	-61.66	46.73	77.37	143	
C_{Ma}	52.18	-28.14	-32.36	42.9	229	
V_{Ma}	13.71	52.15	-59.7	79.28	311	
M_{Ma}	37.69	79.56	-33.73	86.42	337	
N_{Ma}	8.99	0.0	0.0	0.0	0	
W_{Ma}	92.16	0.0	0.0	0.0	0	
R_{CIE}	39.92	58.74	27.99	65.07	25	
J_{CIE}	81.26	-2.88	71.56	71.62	92	
G_{CIE}	52.23	-42.41	13.6	44.55	162	
B_{CIE}	30.57	1.41	-46.46	46.49	272	

Output: Colorimetric Offset Reflective System ORS18a

for hue $h^* = lab^*h = 36/360 = 0.1$

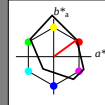
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 35 76 36

ol*Ma: 1.0 0.0 0.0

triangle lightness t^*



%Gamut

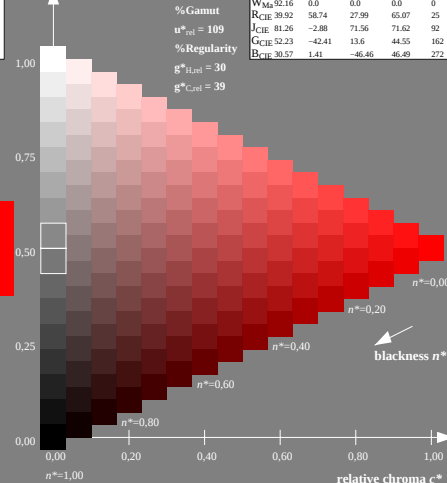
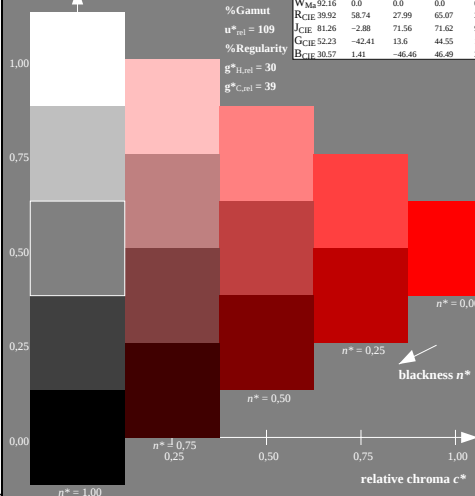
$u^*_{rel} = 109$

%Regularity

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

ORS18a; adapted (a) CIELAB data						
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G_{CIE}	52.23	-42.41	13.6	44.55	162	
B_{CIE}	30.57	1.41	-46.46	46.49	272	



De620-7N, 5 step scales for constant CIELAB hue 36/360 = 0.1 (left)

16 step scales for constant CIELAB hue 36/360 = 0.1 (right)

De62: Test chart 1 according to DIN 33872-2, Hue O, Page 1/11 input: *rgb* ($\rightarrow$ *ol*Ma*) *setrgbcolor*

Discrimination of 5 and 16 step colour scales, ORS18a

output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18a

for hue $h^* = lab^*h = 92/360 = 0.256$

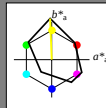
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 84 109 92

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 109$

%Regularity

$g^*_{H,rel} = 30$

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

ORS18a; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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B_{CIE}	30.57	1.41	-46.46	46.49	272

Output: Colorimetric Offset Reflective System ORS18a

for hue $h^* = lab^*h = 92/360 = 0.256$

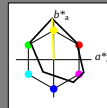
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 84 109 92

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



%Gamut

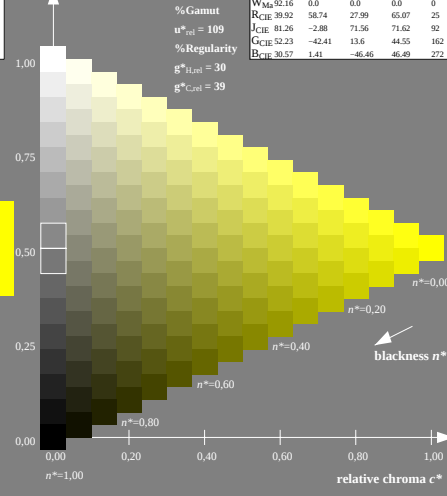
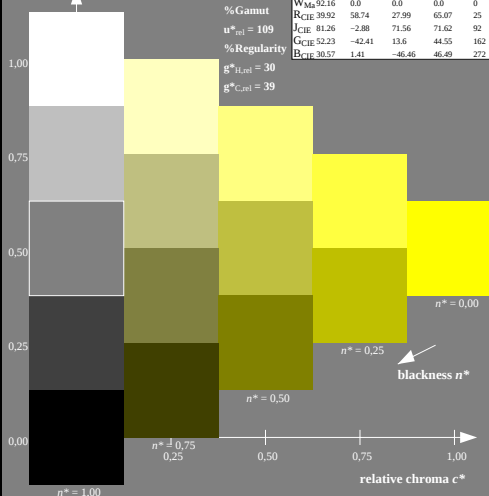
$u^*_{rel} = 109$

%Regularity

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B_{CIE}	30.57	1.41	-46.46	46.49	272



De620-7N, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

16 step scales for constant CIELAB hue 92/360 = 0.256 (right)

De62: Test chart 1 according to DIN 33872-2, Hue Y, Page 2/11 input: $rgb (->olv^*)$ setrgbcolor
Discrimination of 5 and 16 step colour scales, ORS18a

output: no change compared to input

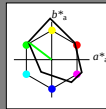
Input: Colorimetric Offset Reflective System ORS18a

for hue $h^* = lab^*h = 143/360 = 0.397$ lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 43 77 143

olv*Ma: 0.0 1.0 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 109$

%Regularity

 $g^*_{H,rel} = 30$ $g^*_{C,rel} = 39$

ORS18a; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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W_{Ma}	92.16	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	-2.88	71.56	71.62	92
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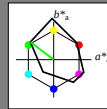
Output: Colorimetric Offset Reflective System ORS18a

for hue $h^* = lab^*h = 143/360 = 0.397$ lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 43 77 143

olv*Ma: 0.0 1.0 0.0

triangle lightness t^* 

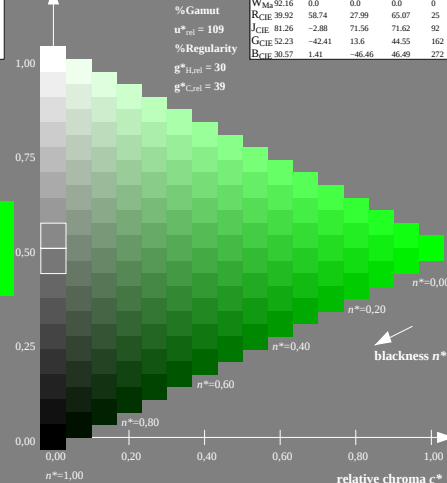
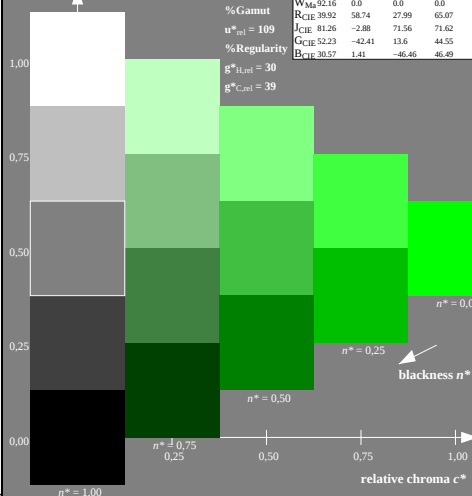
%Gamut

 $u^*_{rel} = 109$

%Regularity

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	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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W_{Ma}	92.16	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	-2.88	71.56	71.62	92
G_{CIE}	52.23	-42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	-46.46	46.49	272



De620-7N, 5 step scales for constant CIELAB hue 143/360 = 0.397 (left)

16 step scales for constant CIELAB hue 143/360 = 0.397 (right)

De62: Test chart 1 according to DIN 33872-2, Hue L, Page 3/11 input: *rgb* ($\rightarrow$ *olv**) *setrgbcolor*

Discrimination of 5 and 16 step colour scales, ORS18a

output: no change compared to input

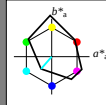
Input: Colorimetric Offset Reflective System ORS18a

for hue $h^* = lab^*h = 229/360 = 0.636$ lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 52 43 229

olv*Ma: 0.0 1.0 1.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 109$

%Regularity

 $g^*_{H,rel} = 30$ $g^*_{C,rel} = 39$

ORS18a; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.32	60.99	44.6	75.56	36
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C_{Ma}	52.18	-28.14	-32.36	42.9	229
V_{Ma}	13.71	52.15	-59.7	79.28	311
M_{Ma}	37.69	79.56	-33.73	86.42	337
N_{Ma}	8.99	0.0	0.0	0.0	0
W_{Ma}	92.16	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	-2.88	71.56	71.62	92
G_{CIE}	52.23	-42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	-46.46	46.49	272

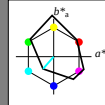
Output: Colorimetric Offset Reflective System ORS18a

for hue $h^* = lab^*h = 229/360 = 0.636$ lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 52 43 229

olv*Ma: 0.0 1.0 1.0

triangle lightness t^* 

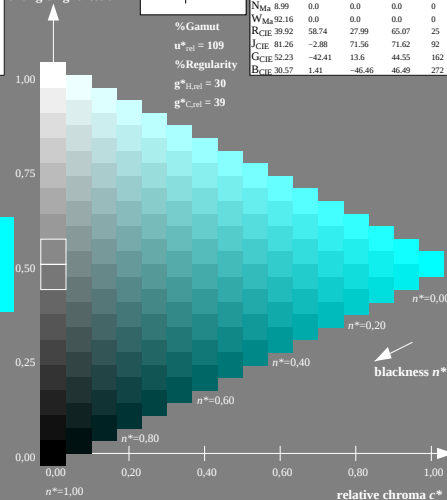
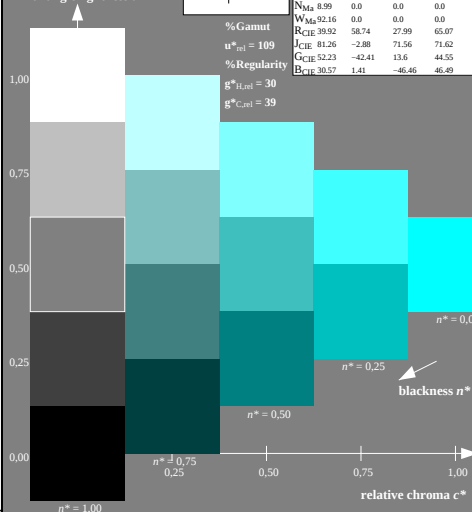
%Gamut

 $u^*_{rel} = 109$

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	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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G_{CIE}	52.23	-42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	-46.46	46.49	272



De620-7N, 5 step scales for constant CIELAB hue 229/360 = 0.636 (left)

16 step scales for constant CIELAB hue 229/360 = 0.636 (right)

De62: Test chart 1 according to DIN 33872-2, Hue C, Page 4/11 input: *rgb* ($\rightarrow$ *olv**) *setrgbcolor*

Discrimination of 5 and 16 step colour scales, ORS18a

output: no change compared to input

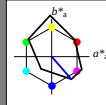
Input: Colorimetric Offset Reflective System ORS18a

for hue $h^* = lab^*h = 311/360 = 0.864$ lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 14 79 311

ol*Ma: 0.0 0.0 1.0

triangle lightness t^* 

%Gamut

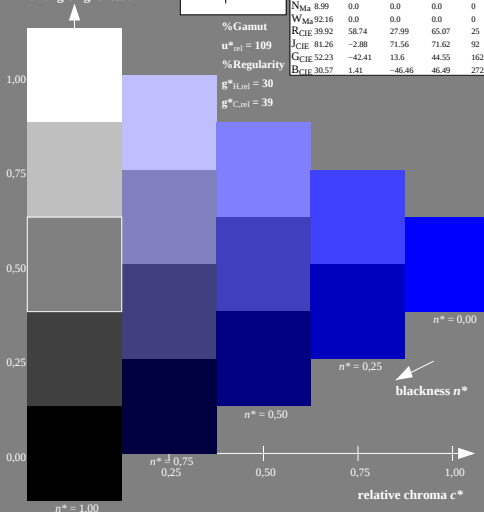
 $u^*_{rel} = 109$

%Regularity

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ORS18a; adapted (a) CIELAB data

	$L^* = L^*_{a,b}$	$a^*_{a,b}$	$b^*_{a,b}$	$C^*_{a,b}$	$h^*_{a,b}$
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B_{CIE}	30.57	1.41	-46.46	46.49	272



De620-7N, 5 step scales for constant CIELAB hue 311/360 = 0.864 (left)

De62: Test chart 1 according to DIN 33872-2, Hue V, Page 5/11 input: *rgb* ($\rightarrow$ *ol*Ma*) *setrgbcolor*
Discrimination of 5 and 16 step colour scales, ORS18a

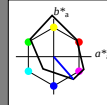
Output: Colorimetric Offset Reflective System ORS18a

for hue $h^* = lab^*h = 311/360 = 0.864$ lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 14 79 311

ol*Ma: 0.0 0.0 1.0

triangle lightness t^* 

%Gamut

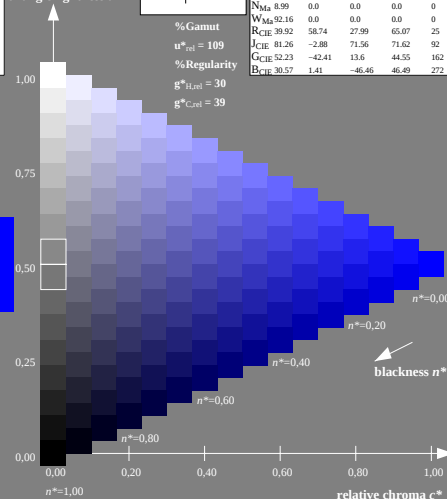
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ORS18a; adapted (a) CIELAB data

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G_{CIE}	52.23	-42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	-46.46	46.49	272



16 step scales for constant CIELAB hue 311/360 = 0.864 (right)

output: no change compared to input

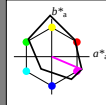
Input: Colorimetric Offset Reflective System ORS18a

for hue $h^* = lab^*h = 337/360 = 0.936$ lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 38 86 337

olv*Ma: 1.0 0.0 1.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 109$

%Regularity

 $g^*_{H,rel} = 30$ $g^*_{C,rel} = 39$

ORS18a; adapted (a) CIELAB data

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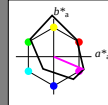
Output: Colorimetric Offset Reflective System ORS18a

for hue $h^* = lab^*h = 337/360 = 0.936$ lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 38 86 337

olv*Ma: 1.0 0.0 1.0

triangle lightness t^* 

%Gamut

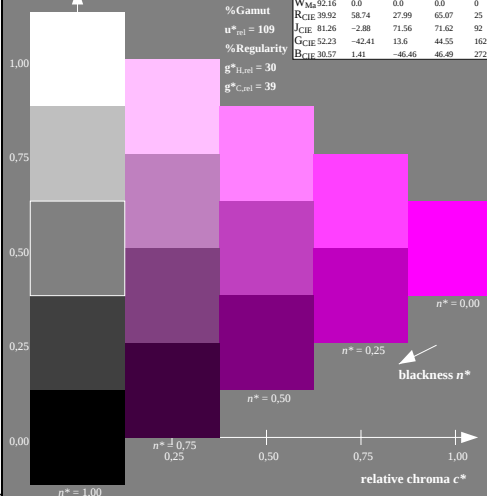
 $u^*_{rel} = 109$

%Regularity

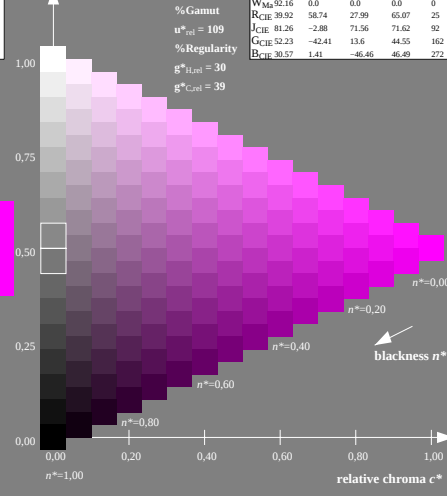
 $g^*_{H,rel} = 30$ $g^*_{C,rel} = 39$

ORS18a; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.32	60.99	44.6	75.56	36
Y_{Ma}	83.65	-4.11	108.86	108.94	92
L_{Ma}	43.49	-61.66	46.73	77.37	143
C_{Ma}	52.18	-28.14	-32.36	42.9	229
V_{Ma}	13.71	52.15	-59.7	79.28	311
M_{Ma}	37.69	79.56	-33.73	86.42	337
N_{Ma}	8.99	0.0	0.0	0.0	0
W_{Ma}	92.16	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	-2.88	71.56	71.62	92
G_{CIE}	52.23	-42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	-46.46	46.49	272



De620-7N, 5 step scales for constant CIELAB hue 337/360 = 0.936 (left)



16 step scales for constant CIELAB hue 337/360 = 0.936 (right)

De62: Test chart 1 according to DIN 33872-2, Hue M, Page 6/11input: rgb ($\rightarrow olv^*$) $setrgbcolor$

Discrimination of 5 and 16 step colour scales, ORS18a

output: no change compared to input

See for similar files: <http://www.ps.bam.de/De62/>; www.ps.bam.de/De.HTM
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1

BAM registration: 20080301-De62/L62e00N1.PS / .TXT BAM
application for output of monitor, data projector, or printer systems

BAM material: code=rha4ta

Input: Colorimetric Offset Reflective System ORS18a

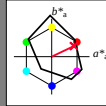
for hue $h^* = lab^*h = 25/360 = 0.071$

*lab*tch* and *lab*nch*

D65: hue R

LCH*Ma: 36 71 25

olv*Ma: 1.0 0.0 0.18

triangle lightness t^* 

%Gamut

$$u_{rel}^* = 10$$

%Regularity

$$g^*_{H_{rel}} = 3$$
$$g^*_{C,rel} = 3$$

100

	$L^* = L^*_{ab}$	a^*	b^*	C^*_{ab}	h^*
O _M 1a	35.32	60.99	44.6	75.56	36
Y _M 1a	83.65	-4.11	108.86	108.94	92
L _M 1a	43.49	-61.66	46.73	77.37	143
C _M 1a	52.18	-28.14	-32.36	42.9	229
V _M 1a	13.71	52.15	-59.7	79.28	311
N _M 1a	37.69	79.56	-33.73	86.42	337
M _M 1a	8.99	0.0	0.0	0.0	0
W _M 1a	92.16	0.0	0.0	0.0	0
R _C 1E	39.92	58.74	27.99	65.07	25
J _C 1E	81.26	-2.88	71.56	71.62	92
G _C 1E	52.23	-42.41	13.6	44.55	162
B _C 1E	30.57	14.1	-46.46	46.49	272

Output: Colorimetric Offset Reflective System ORS18a

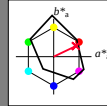
for hue $h^* = lab^*h = 25/360 = 0.071$

*lab*tch* and *lab*nch*

D65: hue R

LCH*Ma: 36 71 25

olv*Ma: 1.0 0.0 0.18

triangle lightness t^* 

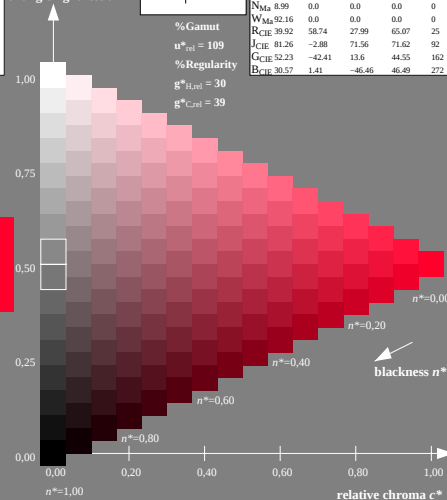
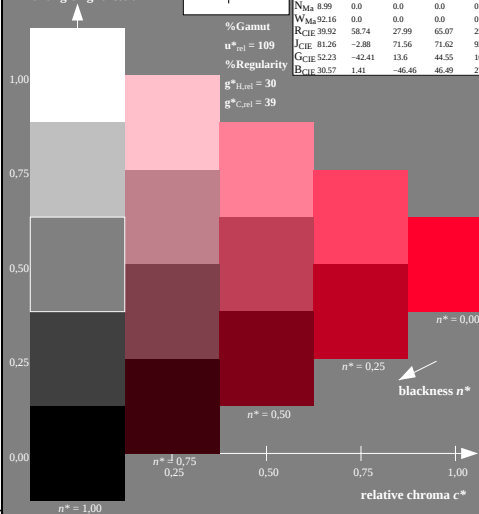
%Gamut

$$u_{\text{rel}}^* = 10$$

%Regularity

$$J_0^*[\mathbf{H}, \mathbf{E}] = 3$$
$$g^*C_{rel} = 3$$

ORS18A: adapted (a) CIELAB data					
	$L^* = L^*_{ab}$	a^*	b^*	$C^*_{ab,ab}$	h^*_{ab}
O_{Mfa}	35.32	60.99	44.6	75.56	36
Y_{Mfa}	83.65	-4.11	108.86	108.94	92
L_{Mfa}	43.49	-61.66	46.73	77.37	143
C_{Mfa}	52.18	-28.14	-32.36	42.9	229
V_{Mfa}	13.71	52.15	-59.7	79.28	311
M_{Mfa}	37.69	79.56	-33.73	86.42	337
N_{Mfa}	8.99	0.0	0.0	0.0	0
W_{Mfa}	92.16	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	-2.88	71.56	71.62	92
G_{CIE}	52.23	-42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	-46.46	46.49	272



De620-7N, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

16 step scales for constant CIELAB hue $25/360 = 0.071$ (right)

De62: Test chart 1 according to DIN 33872-2, Hue R, Page 7/11 input: *rqb* ($\rightarrow$ *rqb**) *setrqbc*color

Discrimination of 5 and 16 step colour scales, ORS18a

output: no change compared to input

N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D)

output: no change compared to input

BAM material: code=rh4ta

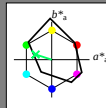
Input: Colorimetric Offset Reflective System ORS18a

for hue $h^* = lab^*h = 162/360 = 0.451$ lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 47 51 162

olv*Ma: 0.0 1.0 0.39

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 109$

%Regularity

 $g^*_{H,rel} = 30$ $g^*_{C,rel} = 39$

ORS18a; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.32	60.99	44.6	75.56	36
Y_{Ma}	83.65	-4.11	108.86	108.94	92
L_{Ma}	43.49	-61.66	46.73	77.37	143
C_{Ma}	52.18	-28.14	-32.36	42.9	229
V_{Ma}	13.71	52.15	-59.7	79.28	311
M_{Ma}	37.69	79.56	-33.73	86.42	337
N_{Ma}	8.99	0.0	0.0	0.0	0
W_{Ma}	92.16	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	-2.88	71.56	71.62	92
G_{CIE}	52.23	-42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	-46.46	46.49	272

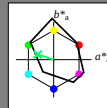
Output: Colorimetric Offset Reflective System ORS18a

for hue $h^* = lab^*h = 162/360 = 0.451$ lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 47 51 162

olv*Ma: 0.0 1.0 0.39

triangle lightness t^* 

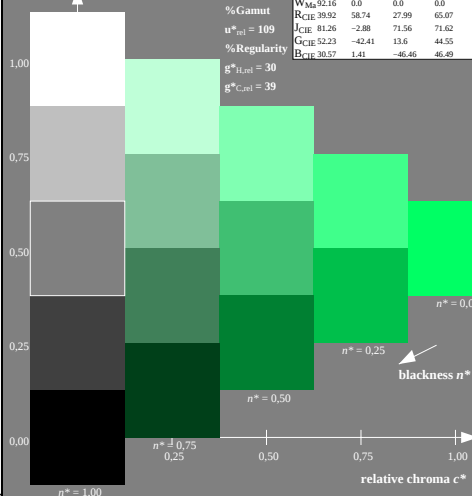
%Gamut

 $u^*_{rel} = 109$

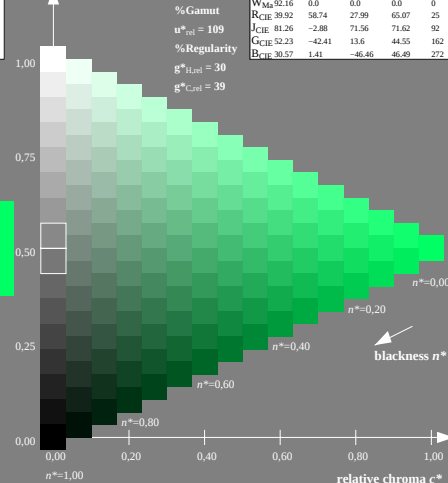
%Regularity

 $g^*_{H,rel} = 30$ $g^*_{C,rel} = 39$

ORS18a; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.32	60.99	44.6	75.56	36
Y_{Ma}	83.65	-4.11	108.86	108.94	92
L_{Ma}	43.49	-61.66	46.73	77.37	143
C_{Ma}	52.18	-28.14	-32.36	42.9	229
V_{Ma}	13.71	52.15	-59.7	79.28	311
M_{Ma}	37.69	79.56	-33.73	86.42	337
N_{Ma}	8.99	0.0	0.0	0.0	0
W_{Ma}	92.16	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	-2.88	71.56	71.62	92
G_{CIE}	52.23	-42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	-46.46	46.49	272



De620-7N, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

De62: Test chart 1 according to DIN 33872-2, Hue G, Page 9/11 input: $rgb (-> rgb^*)$ setrgcolor
Discrimination of 5 and 16 step colour scales, ORS18a

16 step scales for constant CIELAB hue 162/360 = 0.451 (right)

output: no change compared to input

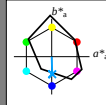
Input: Colorimetric Offset Reflective System ORS18a

for hue $h^* = lab^*h = 272/360 = 0.755$ lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 38 42 272

olv*Ma: 0.0 0.63 1.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 109$

%Regularity

 $g^*_{H,rel} = 30$ $g^*_{C,rel} = 39$

ORS18a; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.32	60.99	44.6	75.56	36
Y_{Ma}	83.65	-4.11	108.86	108.94	92
L_{Ma}	43.49	-61.66	46.73	77.37	143
C_{Ma}	52.18	-28.14	-32.36	42.9	229
V_{Ma}	13.71	52.15	-59.7	79.28	311
M_{Ma}	37.69	79.56	-33.73	86.42	337
N_{Ma}	8.99	0.0	0.0	0.0	0
W_{Ma}	92.16	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	-2.88	71.56	71.62	92
G_{CIE}	52.23	-42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	-46.46	46.49	272

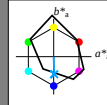
Output: Colorimetric Offset Reflective System ORS18a

for hue $h^* = lab^*h = 272/360 = 0.755$ lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 38 42 272

olv*Ma: 0.0 0.63 1.0

triangle lightness t^* 

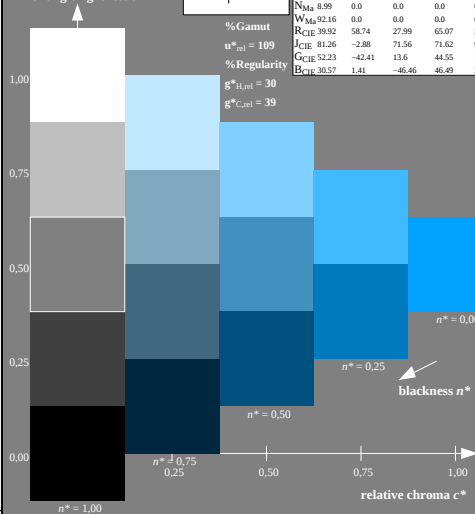
%Gamut

 $u^*_{rel} = 109$

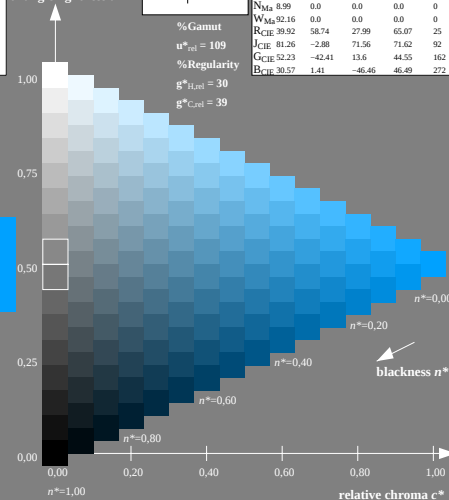
%Regularity

 $g^*_{H,rel} = 30$ $g^*_{C,rel} = 39$

ORS18a; adapted (a) CIELAB data					
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.32	60.99	44.6	75.56	36
Y_{Ma}	83.65	-4.11	108.86	108.94	92
L_{Ma}	43.49	-61.66	46.73	77.37	143
C_{Ma}	52.18	-28.14	-32.36	42.9	229
V_{Ma}	13.71	52.15	-59.7	79.28	311
M_{Ma}	37.69	79.56	-33.73	86.42	337
N_{Ma}	8.99	0.0	0.0	0.0	0
W_{Ma}	92.16	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	-2.88	71.56	71.62	92
G_{CIE}	52.23	-42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	-46.46	46.49	272



De620-7N, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)



16 step scales for constant CIELAB hue 272/360 = 0.755 (right)

De62: Test chart 1 according to DIN 33872-2, Hue B, Page 10/11 input: $rgb (-\rightarrow rgb^*)$ setrgbcolor

Discrimination of 5 and 16 step colour scales, ORS18a

output: no change compared to input