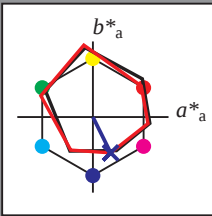


Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 296/360 = 0.82$ $H^*_d = B00R_d$

Data for any device (d) or elementary (e) colour:

HIC^*_d
hue text for the colours of this page:
 $H^*_d = B00R_d$
triangle lightness T^*



ORS20a; adapted (a) CIELAB data					
name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _d ,Ma	47.3	63.8	41.2	76.0	32
Y _d ,Ma	88.3	-11.9	95.1	95.8	97
G _d ,Ma	51.9	-68.8	28.1	74.3	157
C _d ,Ma	58.3	-29.2	-43.7	52.6	236
B _d ,Ma	25.3	23.5	-47.3	52.8	296
M _d ,Ma	48.2	72.8	-8.5	73.3	353
N _d ,Ma	17.7	0.0	0.0	0.0	0
W _d ,Ma	95.4	0.0	0.0	0.0	0
R _d ,CIE	39.9	58.7	27.9	65.0	25
Y _d ,CIE	81.2	-2.8	71.5	71.6	92
G _d ,CIE	52.2	-42.4	13.6	44.5	162
B _d ,CIE	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_d, Ma$: 25 23 -47 52 296

HIC^*_d, Ma : B00R_100_100d

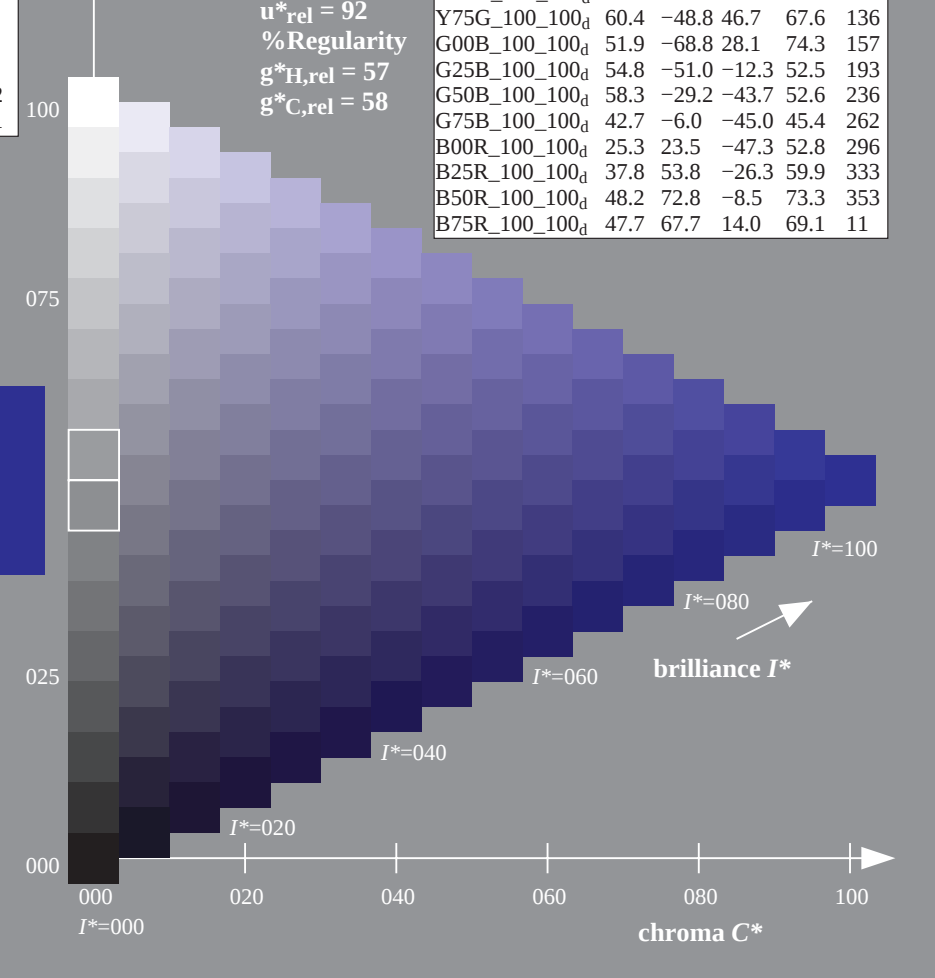
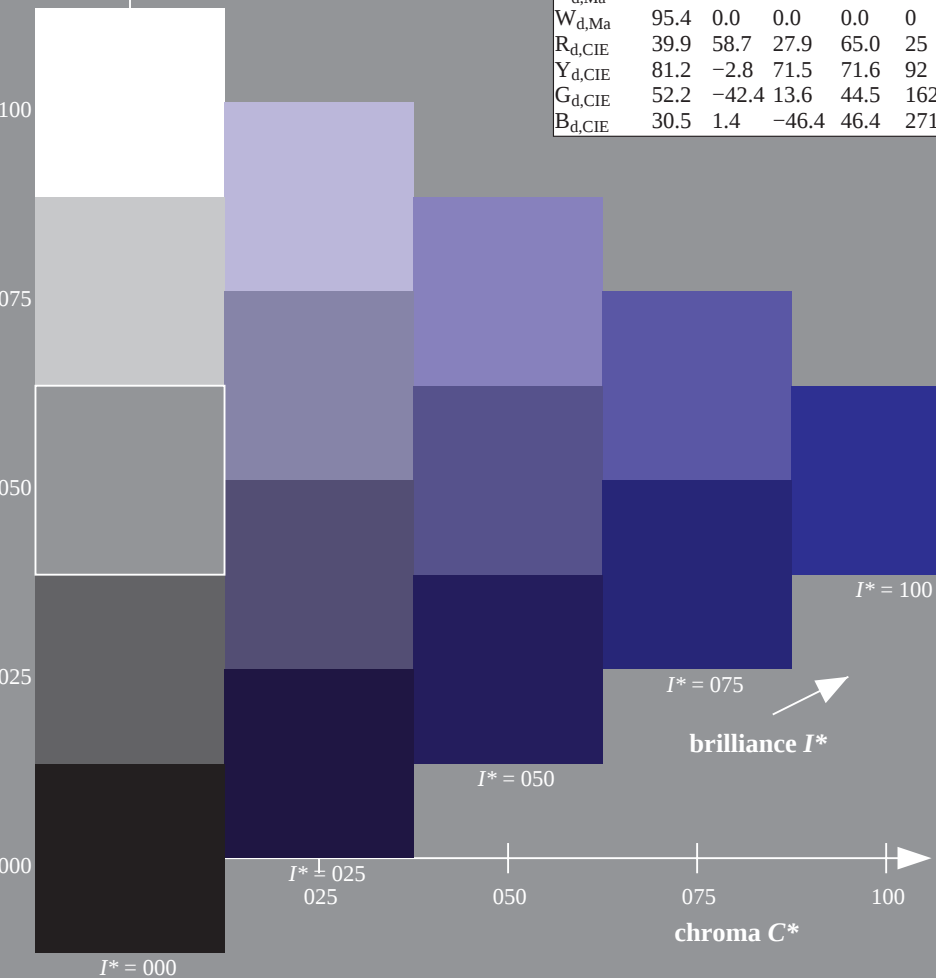
$rgbic^*_d, Ma$:

0.0 0.0 1.0 1.0 1.0

triangle lightness T^*

%Gamut
 $u^*_{rel} = 92$
%Regularity
 $g^*_{H,rel} = 57$
 $g^*_{C,rel} = 58$

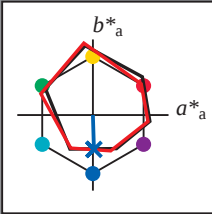
ORS20a; adapted (a) CIELAB data					
H^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100d	47.3	63.8	41.2	76.0	32
R25Y_100_100d	55.3	45.8	52.2	69.5	48
R50Y_100_100d	67.2	22.6	67.6	71.2	71
R75Y_100_100d	79.9	1.0	83.9	83.9	89
Y00G_100_100d	88.3	-11.9	95.1	95.8	97
Y25G_100_100d	83.3	-19.2	83.7	85.9	102
Y50G_100_100d	72.7	-31.3	66.0	73.1	115
Y75G_100_100d	60.4	-48.8	46.7	67.6	136
G00B_100_100d	51.9	-68.8	28.1	74.3	157
G25B_100_100d	54.8	-51.0	-12.3	52.5	193
G50B_100_100d	58.3	-29.2	-43.7	52.6	236
G75B_100_100d	42.7	-6.0	-45.0	45.4	262
B00R_100_100d	25.3	23.5	-47.3	52.8	296
B25R_100_100d	37.8	53.8	-26.3	59.9	333
B50R_100_100d	48.2	72.8	-8.5	73.3	353
B75R_100_100d	47.7	67.7	14.0	69.1	11



Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 271/360 = 0.75$ $H^*_e = B00R_e$

Data for any device (d) or elementary (e) colour:

HIC^*_e
hue text for the colours of this page:
 $H^*_e = B00R_e$
triangle lightness T^*



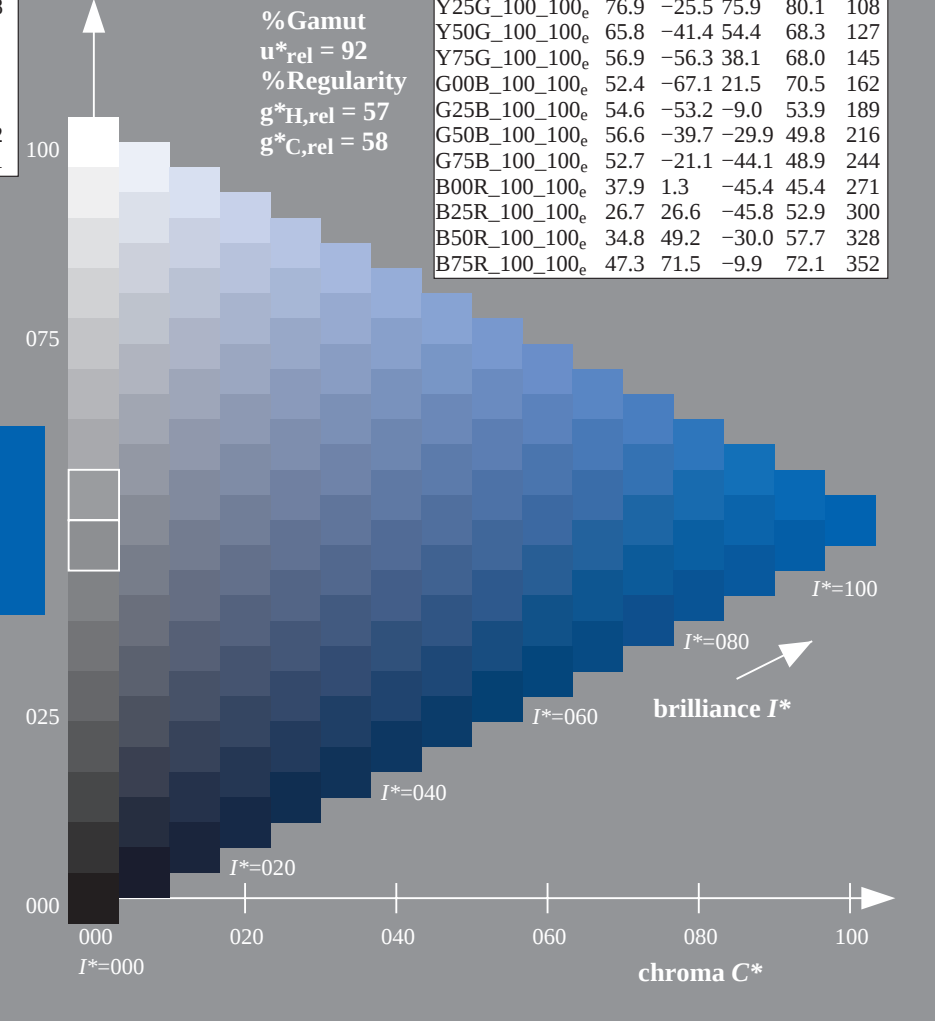
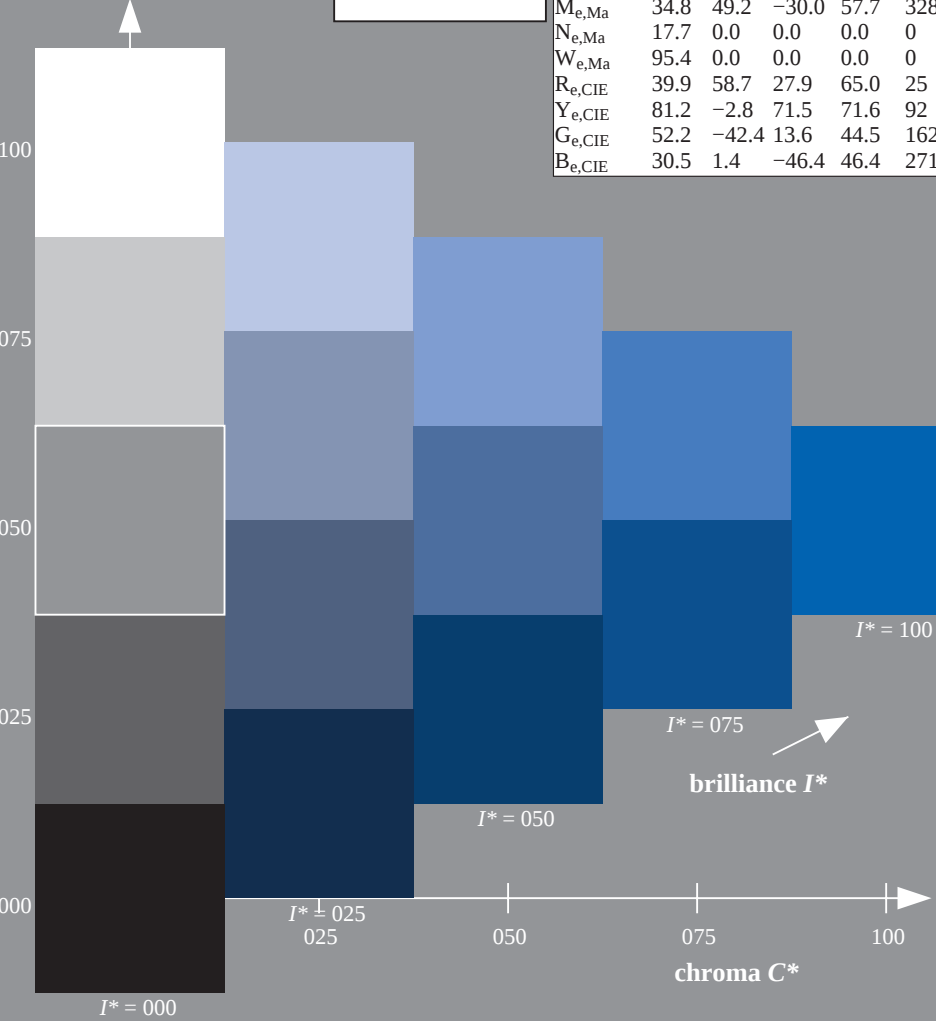
ORS20a; adapted (a) CIELAB data					
name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _e ,Ma	47.6	64.9	30.9	71.9	25
Y _e ,Ma	82.9	-3.5	87.8	87.9	92
G _e ,Ma	52.4	-67.1	21.5	70.5	162
C _e ,Ma	56.6	-39.7	-29.9	49.8	216
B _e ,Ma	37.9	1.3	-45.4	45.4	271
M _e ,Ma	34.8	49.2	-30.0	57.7	328
N _e ,Ma	17.7	0.0	0.0	0.0	0
W _e ,Ma	95.4	0.0	0.0	0.0	0
R _e ,CIE	39.9	58.7	27.9	65.0	25
Y _e ,CIE	81.2	-2.8	71.5	71.6	92
G _e ,CIE	52.2	-42.4	13.6	44.5	162
B _e ,CIE	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_{e, Ma}: 37 \ 1 \ -45 \ 45 \ 271$
 $HIC^*_{e, Ma}: B00R_100_100_e$
 $rgbic^*_{e, Ma}: 0.0 \ 0.37 \ 1.0 \ 1.0 \ 1.0$
triangle lightness T^*

ORS20a; adapted (a) CIELAB data					
H^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100 _e	47.6	64.9	30.9	71.9	25
R25Y_100_100 _e	51.5	54.2	47.2	71.9	41
R50Y_100_100 _e	60.3	35.6	59.0	68.9	58
R75Y_100_100 _e	70.4	17.0	72.2	74.1	76
Y00G_100_100 _e	82.9	-3.5	87.8	87.9	92
Y25G_100_100 _e	76.9	-25.5	75.9	80.1	108
Y50G_100_100 _e	65.8	-41.4	54.4	68.3	127
Y75G_100_100 _e	56.9	-56.3	38.1	68.0	145
G00B_100_100 _e	52.4	-67.1	21.5	70.5	162
G25B_100_100 _e	54.6	-53.2	-9.0	53.9	189
G50B_100_100 _e	56.6	-39.7	-29.9	49.8	216
G75B_100_100 _e	52.7	-21.1	-44.1	48.9	244
B00R_100_100 _e	37.9	1.3	-45.4	45.4	271
B25R_100_100 _e	26.7	26.6	-45.8	52.9	300
B50R_100_100 _e	34.8	49.2	-30.0	57.7	328
B75R_100_100 _e	47.3	71.5	-9.9	72.1	352

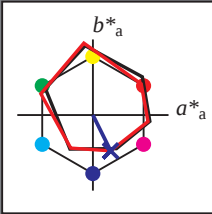
%Gamut
 $u^*_{rel} = 92$
%Regularity
 $g^*_{H,rel} = 57$
 $g^*_{C,rel} = 58$



Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 296/360 = 0.82$ $H^*_d = B00R_d$

Data for any device (d) or elementary (e) colour:

HIC^*_d
hue text for the colours of this page:
 $H^*_d = B00R_d$
triangle lightness T^*



ORS20a; adapted (a) CIELAB data					
name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _d ,Ma	47.3	63.8	41.2	76.0	32
Y _d ,Ma	88.3	-11.9	95.1	95.8	97
G _d ,Ma	51.9	-68.8	28.1	74.3	157
C _d ,Ma	58.3	-29.2	-43.7	52.6	236
B _d ,Ma	25.3	23.5	-47.3	52.8	296
M _d ,Ma	48.2	72.8	-8.5	73.3	353
N _d ,Ma	17.7	0.0	0.0	0.0	0
W _d ,Ma	95.4	0.0	0.0	0.0	0
R _d ,CIE	39.9	58.7	27.9	65.0	25
Y _d ,CIE	81.2	-2.8	71.5	71.6	92
G _d ,CIE	52.2	-42.4	13.6	44.5	162
B _d ,CIE	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_d, Ma$: 25 23 -47 52 296

HIC^*_d, Ma : B00R_100_100d

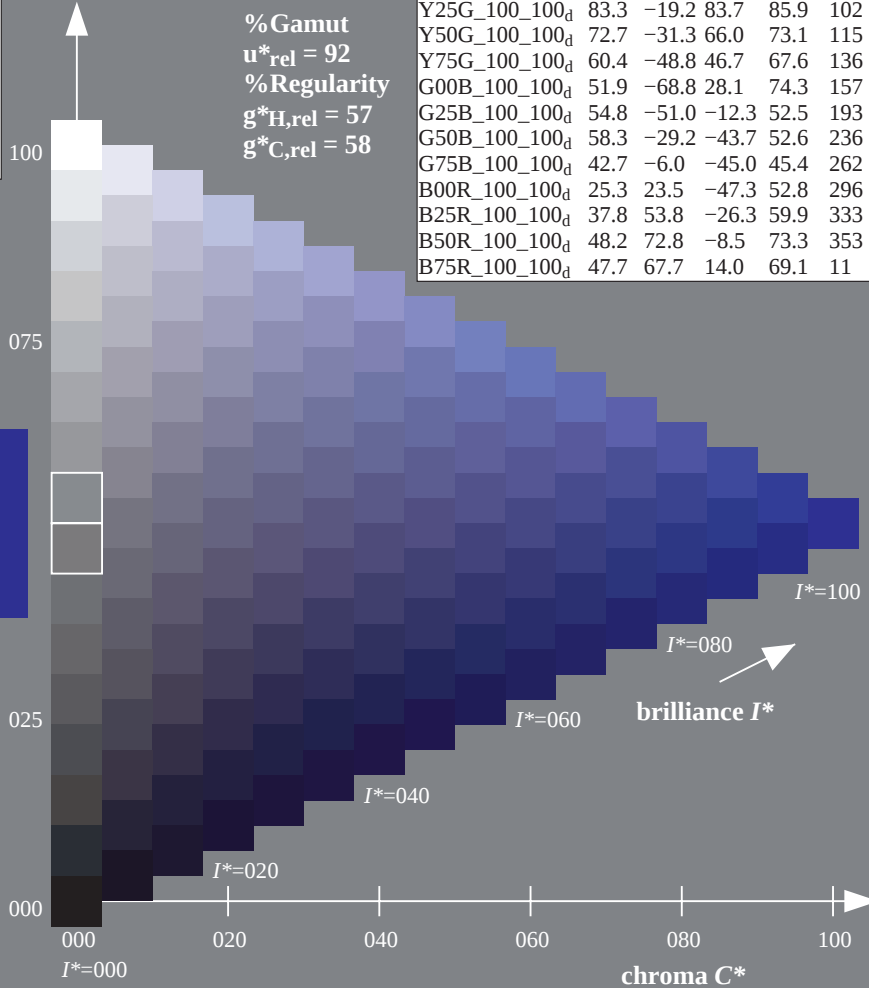
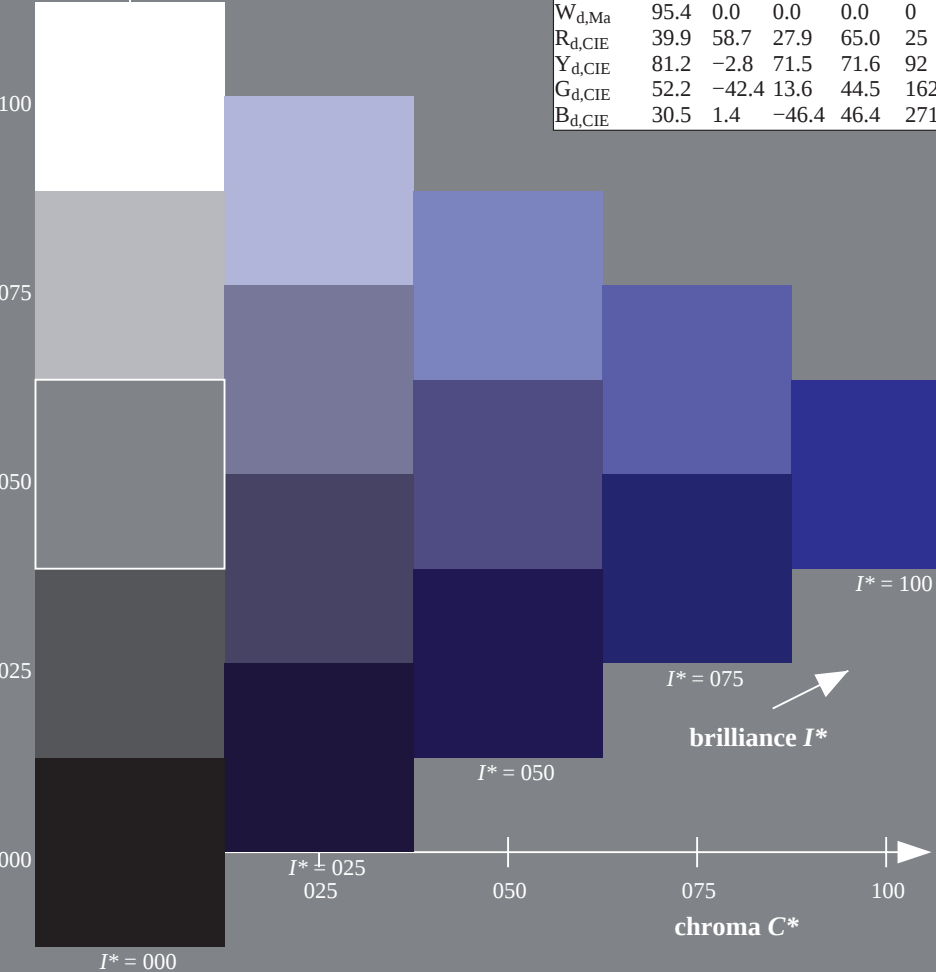
$rgbic^*_d, Ma$:

0.0 0.0 1.0 1.0 1.0

triangle lightness T^*

%Gamut
 $u^*_{rel} = 92$
%Regularity
 $g^*_{H,rel} = 57$
 $g^*_{C,rel} = 58$

ORS20a; adapted (a) CIELAB data					
H^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100d	47.3	63.8	41.2	76.0	32
R25Y_100_100d	55.3	45.8	52.2	69.5	48
R50Y_100_100d	67.2	22.6	67.6	71.2	71
R75Y_100_100d	79.9	1.0	83.9	83.9	89
Y00G_100_100d	88.3	-11.9	95.1	95.8	97
Y25G_100_100d	83.3	-19.2	83.7	85.9	102
Y50G_100_100d	72.7	-31.3	66.0	73.1	115
Y75G_100_100d	60.4	-48.8	46.7	67.6	136
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G50B_100_100d	58.3	-29.2	-43.7	52.6	236
G75B_100_100d	42.7	-6.0	-45.0	45.4	262
B00R_100_100d	25.3	23.5	-47.3	52.8	296
B25R_100_100d	37.8	53.8	-26.3	59.9	333
B50R_100_100d	48.2	72.8	-8.5	73.3	353
B75R_100_100d	47.7	67.7	14.0	69.1	11



$$H_e^* = B00R_e$$

Data for maximum colour (Ma):

LabCh*_{e, Ma}: 37 1 -45 45 271

LabCh*_{e, Ma}: 37 1 -45 45 271

***HIC**_{e, Ma}: B00R_100_100_e**

*rgbic**_{e, Ma}:

0.0 0.37 1.0 1.0 1.0

triangle lightness T^*

▲ %

%Gamut

$$u_{rel}^* = 92$$

%Regularity

$$g^*_{H,rel} = 57$$
$$g^*_{C,rel} = 58$$

Figure 1. The effect of the number of trials on the number of correct responses.

Age Group	Percentage
18-24	100%
25-34	90%
35-44	80%
45-54	70%
55-64	60%
65-74	50%
75-84	40%
85+	10%

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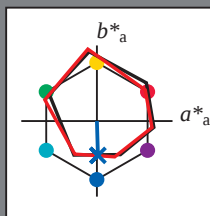
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ORS20a; adapted (a) CIELAB data					
name	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _e ,Ma	47.6	64.9	30.9	71.9	25
Y _e ,Ma	82.9	-3.5	87.8	87.9	92
G _e ,Ma	52.4	-67.1	21.5	70.5	162
C _e ,Ma	56.6	-39.7	-29.9	49.8	216
B _e ,Ma	37.9	1.3	-45.4	45.4	271
M _e ,Ma	34.8	49.2	-30.0	57.7	328
N _e ,Ma	17.7	0.0	0.0	0.0	0
W _e ,Ma	95.4	0.0	0.0	0.0	0
R _e ,CIE	39.9	58.7	27.9	65.0	25
Y _e ,CIE	81.2	-2.8	71.5	71.6	92
G _e ,CIE	52.2	-42.4	13.6	44.5	162
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ORS20a; adapted (a) CIELAB data					
H^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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R50Y_100_100 _e	60.3	35.6	59.0	68.9	58
R75Y_100_100 _e	70.4	17.0	72.2	74.1	76
Y00G_100_100 _e	82.9	-3.5	87.8	87.9	92
Y25G_100_100 _e	76.9	-25.5	75.9	80.1	108
Y50G_100_100 _e	65.8	-41.4	54.4	68.3	127
Y75G_100_100 _e	56.9	-56.3	38.1	68.0	145
G00B_100_100 _e	52.4	-67.1	21.5	70.5	162
G25B_100_100 _e	54.6	-53.2	-9.0	53.9	189
G50B_100_100 _e	56.6	-39.7	-29.9	49.8	216
G75B_100_100 _e	52.7	-21.1	-44.1	48.9	244
B00R_100_100 _e	37.9	1.3	-45.4	45.4	271
B25R_100_100 _e	26.7	26.6	-45.8	52.9	300
B50R_100_100 _e	34.8	49.2	-30.0	57.7	328
B75R_100_100 _e	47.3	71.5	-9.9	72.1	352

