

Input and Output: Laser Reflective System LRS18a

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

HIC^* -

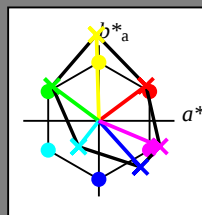
hue text for the colours

of this page:

$H^*_e = R00Y-, R25Y-, ..., B75R-$

ORS20a; adapted (a) CIELAB data

H^*_e	$L^*=L^*_a a^*_a$	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100_	48.4	66.1	40.2	77.3
R25Y_100_100_	56.8	48.0	50.5	69.6
R50Y_100_100_	68.6	25.0	63.9	68.6
R75Y_100_100_	80.6	4.8	77.2	77.3
Y00G_100_100_	90.2	-9.6	88.2	88.7
Y25G_100_100_	83.2	-18.4	79.9	81.9
Y50G_100_100_	73.3	-31.7	62.7	70.2
Y75G_100_100_	62.0	-49.7	43.2	65.8
G00B_100_100_	55.8	-65.2	33.8	73.4
G25B_100_100_	59.3	-50.3	-9.0	51.0
G50B_100_100_	63.0	-30.5	-42.0	51.9
G75B_100_100_	45.7	-5.7	-44.6	44.9
B00R_100_100_	27.5	25.9	-47.3	53.9
B25R_100_100_	38.3	52.6	-28.5	59.8
B50R_100_100_	49.5	73.5	-9.0	74.0
B75R_100_100_	48.9	69.3	12.9	70.4



% Gamut

$u^*_{rel} = 114$

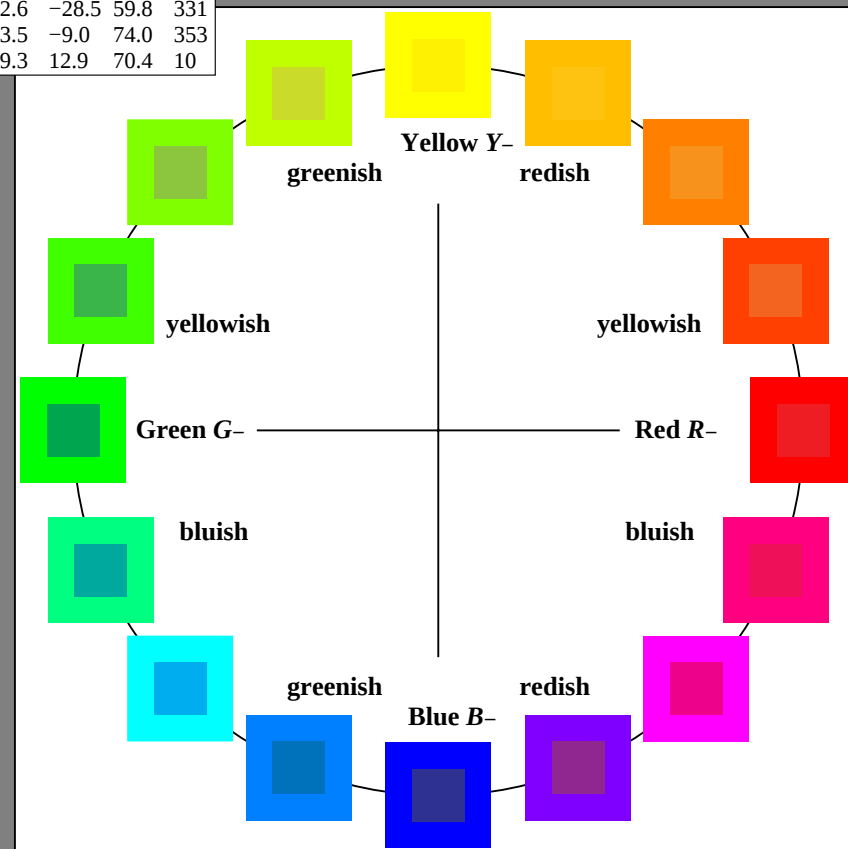
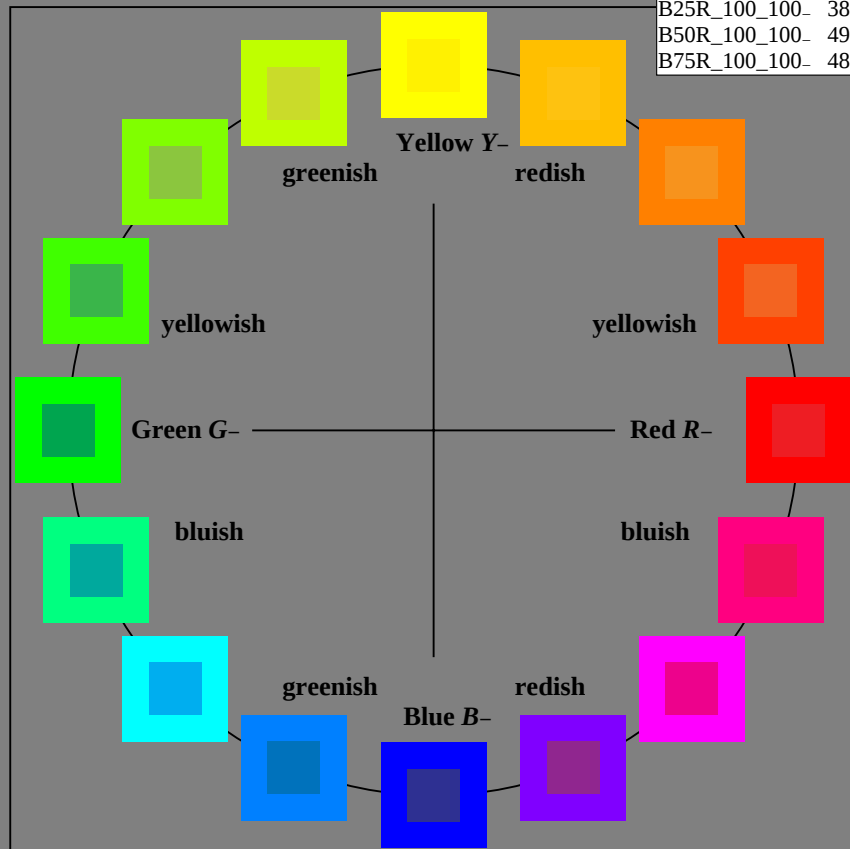
% Regularity

$g^*_{H,rel} = 28$

$g^*_{C,rel} = 38$

LRS18a; adapted (a) CIELAB data

name	$L^*=L^*_a a^*_a$	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R-,Ma	32.5	62.3	46.4	77.7
Y-,Ma	82.7	-3.1	113.9	114.0
G-,Ma	39.4	-61.8	45.8	76.9
C-,Ma	47.8	-26.8	-34.2	43.4
B-,Ma	10.1	55.1	-61.0	82.2
M-,Ma	34.5	80.6	-33.9	87.5
N-,Ma	6.2	0.0	0.0	0.0
W-,Ma	91.9	0.0	0.0	0.0
R-,CIE	39.9	58.7	27.9	65.0
Y-,CIE	81.2	-2.8	71.5	71.6
G-,CIE	52.2	-42.4	13.6	44.5
B-,CIE	30.5	1.4	-46.4	46.4



RE800-7N_RGB 1-103034-L0

TUB-test chart RE80; 16 step hue circle, $cf=1$
Test chart according to DIN 33872

input: $rgb/cmyk \rightarrow rgb/cmyk$
output: no change

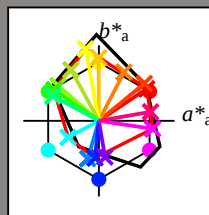
Input and Output: Laser Reflective System LRS18a

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

 HIC^*_d hue text for the colours
of this page: $H^*_d = R00Y_d, R25Y_d, \dots, B75R_d$

LRS18a; adapted (a) CIELAB data

H^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100_d	48.1	63.3	42.5	76.2	33
R25Y_100_100_d	49.7	60.1	49.4	77.8	39
R50Y_100_100_d	63.4	33.2	64.3	72.4	62
R75Y_100_100_d	82.3	-0.3	83.5	83.5	90
Y00G_100_100_d	92.8	-17.5	95.2	96.8	100
Y25G_100_100_d	75.6	-36.7	67.3	76.7	118
Y50G_100_100_d	61.7	-53.9	46.2	71.0	139
Y75G_100_100_d	58.6	-59.0	41.0	71.9	145
G00B_100_100_d	58.5	-59.5	40.8	72.2	145
G25B_100_100_d	57.1	-60.7	32.7	68.9	151
G50B_100_100_d	57.0	-40.5	-21.8	46.1	208
G75B_100_100_d	47.1	-14.6	-50.0	52.1	253
B00R_100_100_d	41.5	-5.0	-49.0	49.2	264
B25R_100_100_d	36.4	8.1	-47.9	48.5	279
B50R_100_100_d	50.1	71.1	-10.5	71.8	351
B75R_100_100_d	48.3	68.4	11.9	69.5	9



% Gamut

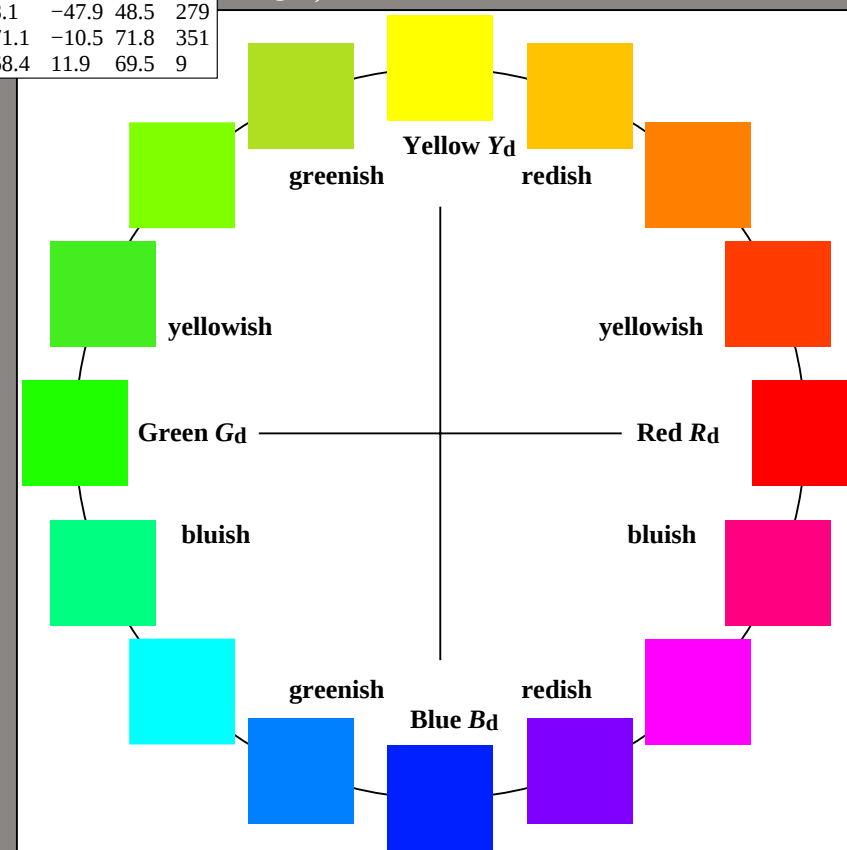
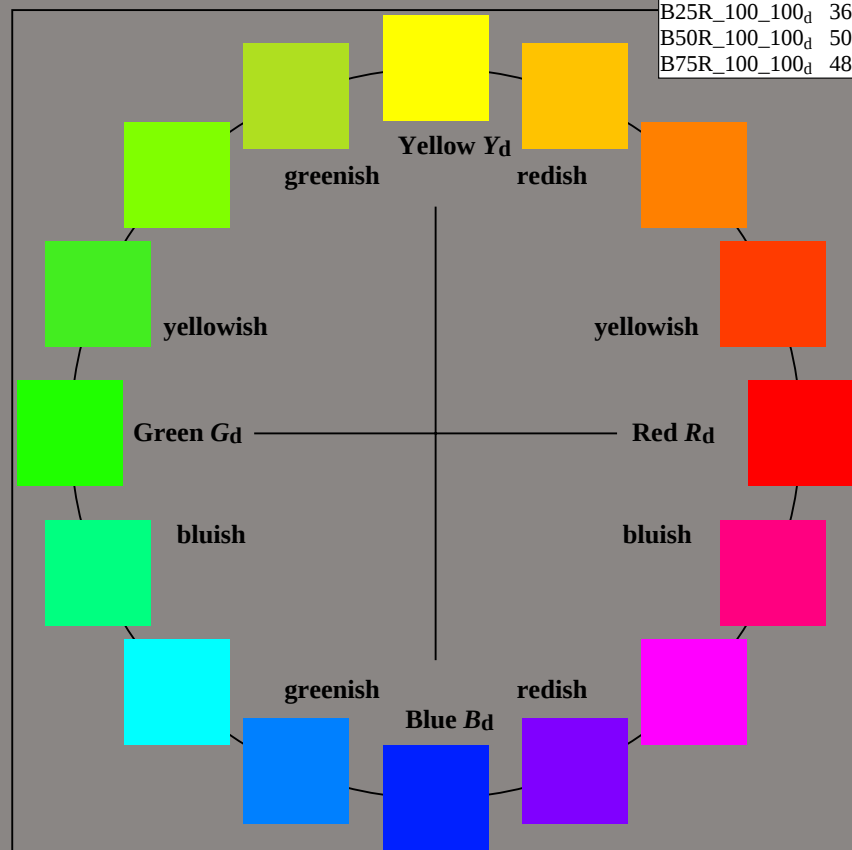
 $u^*_{rel} = 114$

% Regularity

 $g^*_{H,rel} = 28$ $g^*_{C,rel} = 38$

LRS18a; adapted (a) CIELAB data

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _d ,Ma	48.1	63.3	42.5	76.2	33
Y _d ,Ma	92.8	-17.5	95.2	96.8	100
G _d ,Ma	58.5	-59.5	40.8	72.2	145
C _d ,Ma	57.0	-40.5	-21.8	46.1	208
B _d ,Ma	41.5	-5.0	-49.0	49.2	264
M _d ,Ma	50.1	71.1	-10.5	71.8	351
N _d ,Ma	15.7	0.0	0.0	0.0	0
W _d ,Ma	96.3	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



RE800-72

1-103134-L0

TUB-test chart RE80; 16 step hue circle, $cf=1$
Test chart according to DIN 33872, 3D=1, $de=0$, rgb^*

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to rgb^*_{dd}

Input and Output: Laser Reflective System LRS18a

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

HIC^*

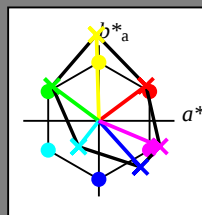
hue text for the colours

of this page:

$H^*_e = R00Y_e, R25Y_e, \dots, B75R_e$

ORS20a; adapted (a) CIELAB data

H^*_e	$L^*=L^*_a a^*_a$	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100_	48.4	66.1	40.2	77.3
R25Y_100_100_	56.8	48.0	50.5	69.6
R50Y_100_100_	68.6	25.0	63.9	68.6
R75Y_100_100_	80.6	4.8	77.2	77.3
Y00G_100_100_	90.2	-9.6	88.2	88.7
Y25G_100_100_	83.2	-18.4	79.9	81.9
Y50G_100_100_	73.3	-31.7	62.7	70.2
Y75G_100_100_	62.0	-49.7	43.2	65.8
G00B_100_100_	55.8	-65.2	33.8	73.4
G25B_100_100_	59.3	-50.3	-9.0	51.0
G50B_100_100_	63.0	-30.5	-42.0	51.9
G75B_100_100_	45.7	-5.7	-44.6	44.9
B00R_100_100_	27.5	25.9	-47.3	53.9
B25R_100_100_	38.3	52.6	-28.5	59.8
B50R_100_100_	49.5	73.5	-9.0	74.0
B75R_100_100_	48.9	69.3	12.9	70.4



% Gamut

$u^*_{rel} = 114$

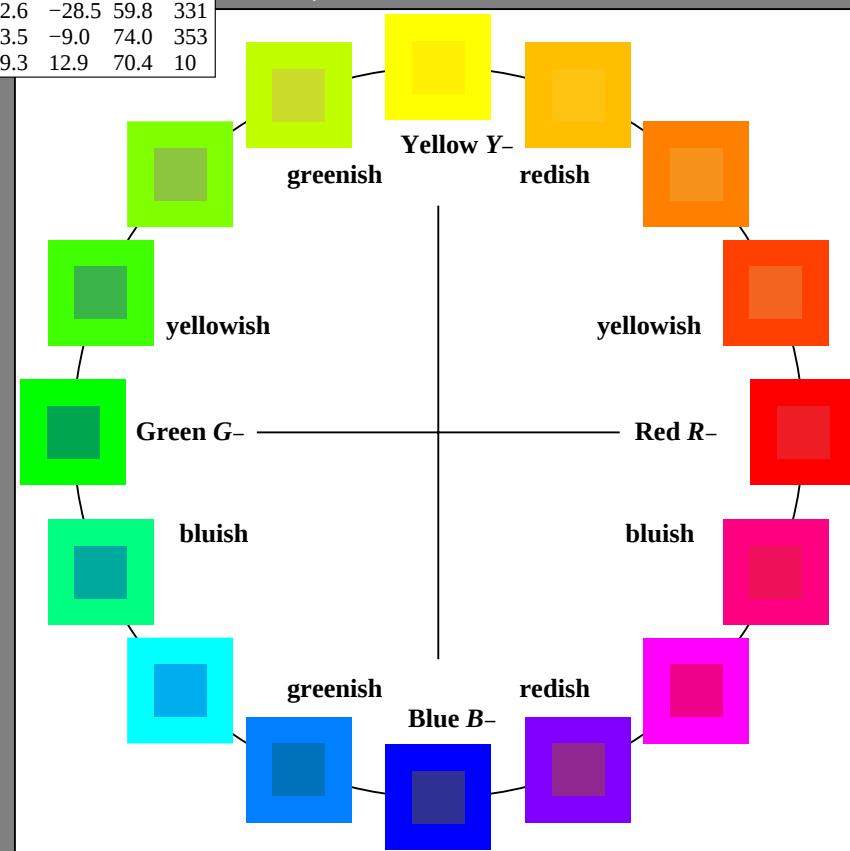
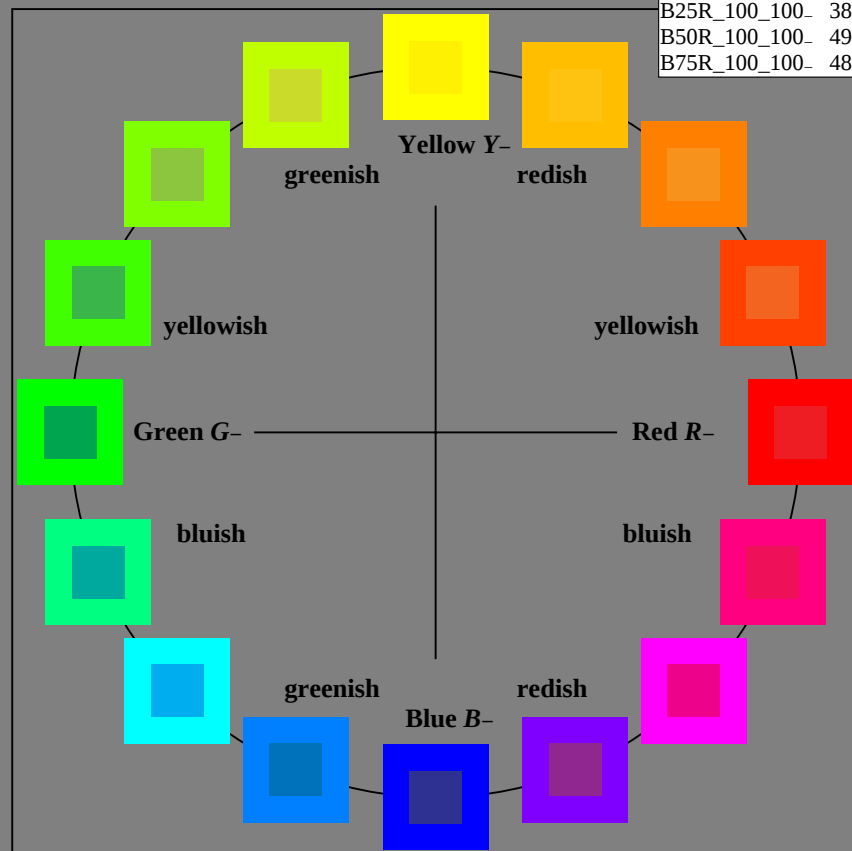
% Regularity

$g^*_{H,rel} = 28$

$g^*_{C,rel} = 38$

LRS18a; adapted (a) CIELAB data

name	$L^*=L^*_a a^*_a$	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_.,Ma	32.5	62.3	46.4	77.7
Y_.,Ma	82.7	-3.1	113.9	114.0
G_.,Ma	39.4	-61.8	45.8	76.9
C_.,Ma	47.8	-26.8	-34.2	43.4
B_.,Ma	10.1	55.1	-61.0	82.2
M_.,Ma	34.5	80.6	-33.9	87.5
N_.,Ma	6.2	0.0	0.0	0.0
W_.,Ma	91.9	0.0	0.0	0.0
R_.,CIE	39.9	58.7	27.9	65.0
Y_.,CIE	81.2	-2.8	71.5	71.6
G_.,CIE	52.2	-42.4	13.6	44.5
B_.,CIE	30.5	1.4	-46.4	46.4



TUB-test chart RE80; 16 step hue circle, $cf=1$
Test chart according to DIN 33872

input: $rgb/cmyk \rightarrow rgb/cmyk$
output: no change

Input and Output: Laser Reflective System LRS18a

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

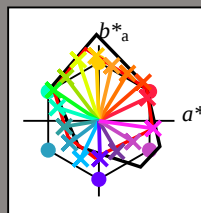
$$HIC_e^*$$

hue text for the colours
of this page:

$$H_e^* = R00Y_e, R25Y_e, \dots, B75R_e$$

LRS18a; adapted (a) CIELAB data

H_e^*	$L^*=L_a^* a_a^*$	b_a^*	$C_{ab,a}^*$	$h_{ab,a}^*$	
R00Y_100_100_e	48.3	64.2	30.6	71.1	25
R25Y_100_100_e	50.5	58.6	51.1	77.8	41
R50Y_100_100_e	61.1	37.8	62.8	73.3	58
R75Y_100_100_e	72.1	17.1	72.8	74.8	76
Y00G_100_100_e	84.3	-3.4	85.8	85.9	92
Y25G_100_100_e	84.0	-27.1	80.6	85.0	108
Y50G_100_100_e	69.4	-43.7	57.5	72.3	127
Y75G_100_100_e	58.2	-60.0	40.6	72.5	145
G00B_100_100_e	58.4	-54.9	17.6	57.7	162
G25B_100_100_e	59.0	-45.6	-7.7	46.3	189
G50B_100_100_e	55.3	-38.8	-29.2	48.5	216
G75B_100_100_e	52.2	-24.1	-50.2	55.7	244
B00R_100_100_e	38.0	1.5	-49.8	49.8	271
B25R_100_100_e	38.4	23.5	-40.4	46.8	300
B50R_100_100_e	44.8	45.0	-27.4	52.7	328
B75R_100_100_e	49.8	71.7	-9.9	72.3	352



% Gamut

$$u^*_{rel} = 114$$

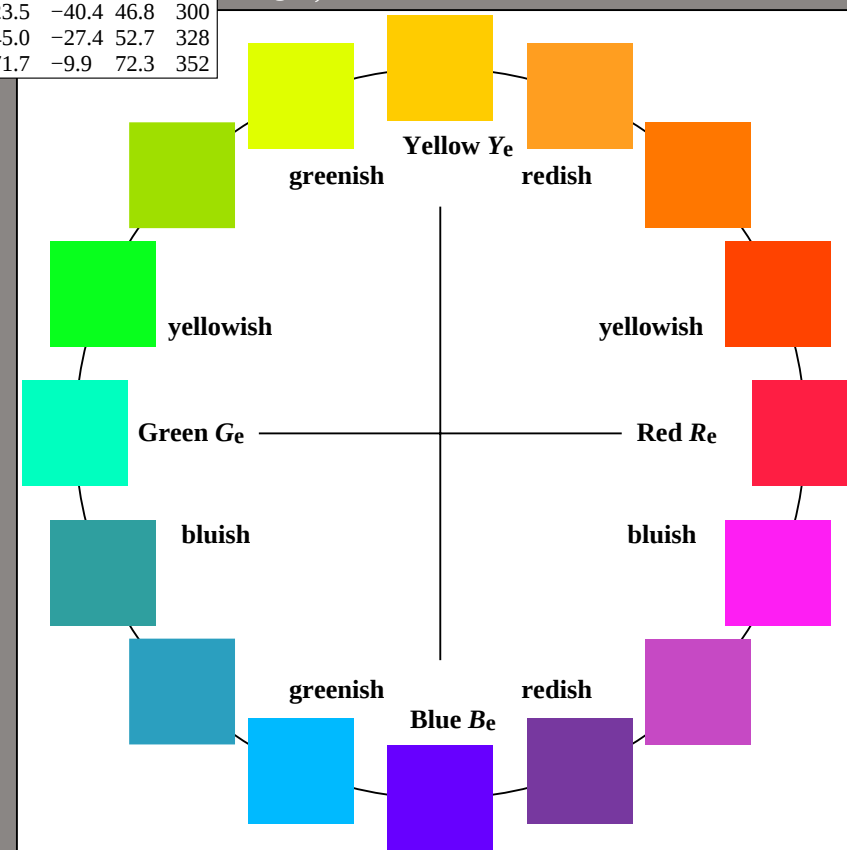
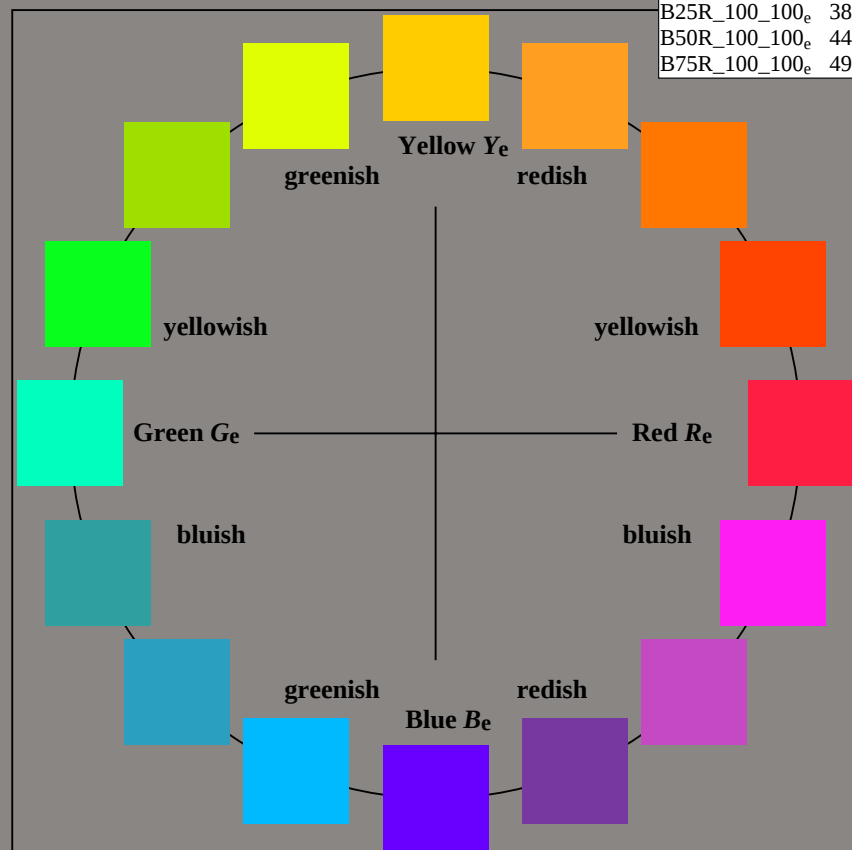
% Regularity

$$g^*_{H,rel} = 28$$

$$g^*_{C,rel} = 38$$

LRS18a; adapted (a) CIELAB data

name	$L^*=L_a^* a_a^*$	b_a^*	$C_{ab,a}^*$	$h_{ab,a}^*$	
R _e ,Ma	48.3	64.2	30.6	71.1	25
Y _e ,Ma	84.3	-3.4	85.8	85.9	92
G _e ,Ma	58.4	-54.9	17.6	57.7	162
C _e ,Ma	55.3	-38.8	-29.2	48.5	216
B _e ,Ma	38.0	1.5	-49.8	49.8	271
M _e ,Ma	44.8	45.0	-27.4	52.7	328
N _e ,Ma	15.7	0.0	0.0	0.0	0
W _e ,Ma	96.3	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



RE800-73

1-113134-L0

TUB-test chart RE80; 16 step hue circle, $cf=1$
Test chart according to DIN 33872, 3D=1, $de=1$, rgb^*

input: $rgb/cmyk \rightarrow rgb_{de}$
output: 3D-linearization to rgb^*_{de}