

Input and Output: Laser Reflective System LRS18a

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

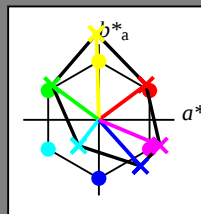
HIC^*

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

$u^*_{rel} = 114$

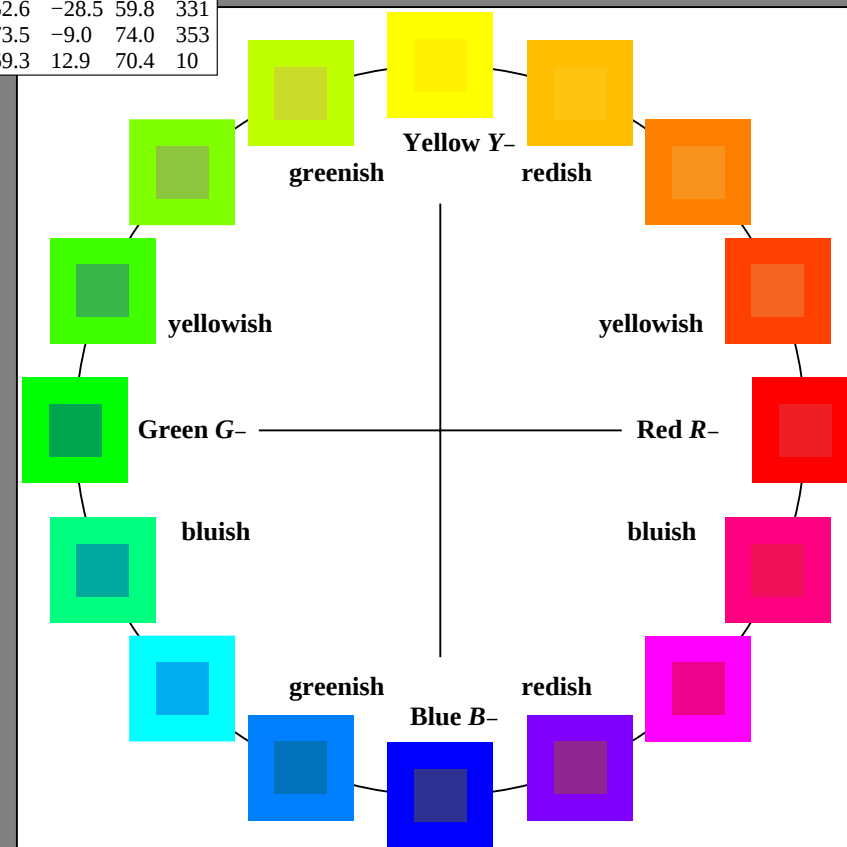
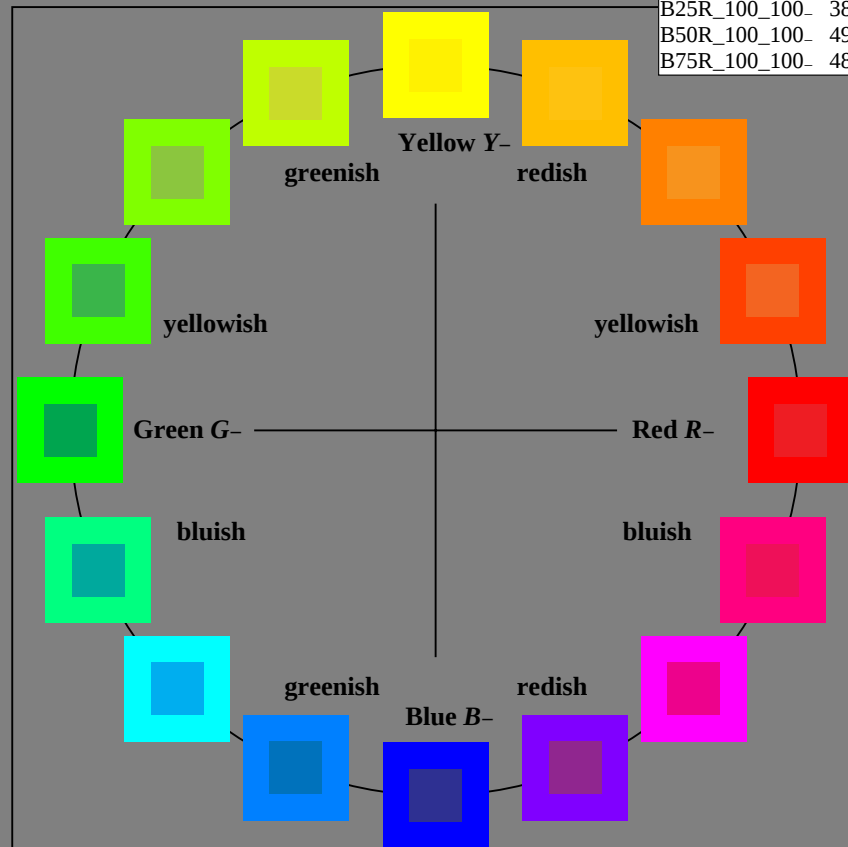
% Regularity

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

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

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



RE860-7N_RGB 1-103030-L0

TUB-test chart RE86; 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:

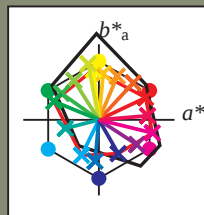
$$HIC^*_d$$

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	45.9	61.7	29.3	68.3	25
R25Y_100_100_d	57.6	45.4	48.7	66.6	47
R50Y_100_100_d	69.5	24.3	57.8	62.8	67
R75Y_100_100_d	81.1	5.7	61.4	61.7	84
Y00G_100_100_d	89.4	-7.1	66.3	66.7	96
Y25G_100_100_d	88.3	-14.2	73.9	75.3	100
Y50G_100_100_d	72.6	-32.8	51.9	61.5	122
Y75G_100_100_d	60.9	-49.3	34.9	60.4	144
G00B_100_100_d	54.1	-59.5	24.4	64.3	157
G25B_100_100_d	55.4	-44.3	-11.3	45.7	194
G50B_100_100_d	52.1	-22.8	-47.0	52.2	244
G75B_100_100_d	45.3	-5.0	-54.6	54.9	264
B00R_100_100_d	32.3	25.6	-44.5	51.4	299
B25R_100_100_d	35.4	50.1	-32.6	59.8	326
B50R_100_100_d	46.8	70.7	-17.3	72.8	346
B75R_100_100_d	44.4	64.5	5.3	64.7	4



% Gamut

$u^*_{rel} = 114$

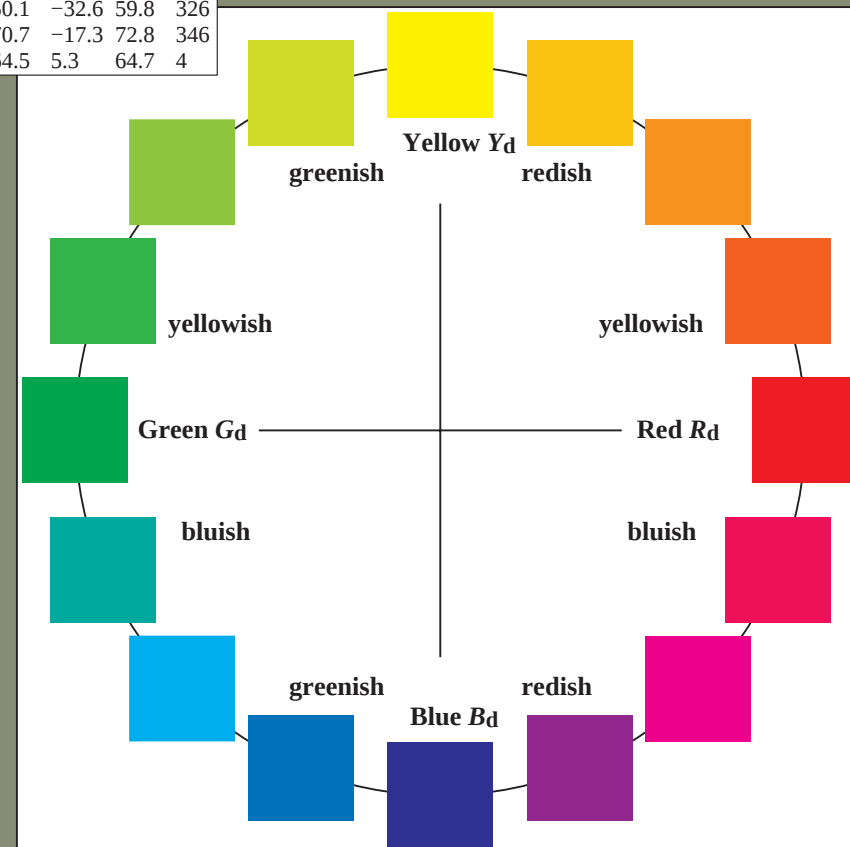
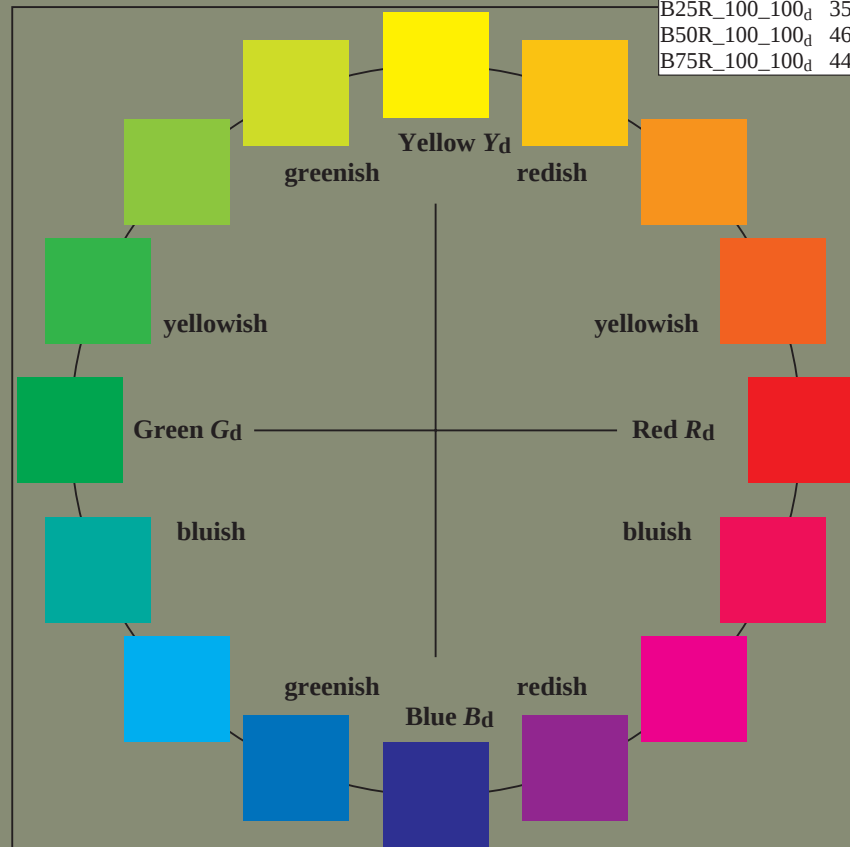
% Regularity

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

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

LRS18a; adapted (a) CIELAB data

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{d, Ma}	45.9	61.7	29.3	68.3	25
Y _{d, Ma}	89.4	-7.1	66.3	66.7	96
G _{d, Ma}	54.1	-59.5	24.4	64.3	157
C _{d, Ma}	52.1	-22.8	-47.0	52.2	244
B _{d, Ma}	32.3	25.6	-44.5	51.4	299
M _{d, Ma}	46.8	70.7	-17.3	72.8	346
N _{d, Ma}	20.0	0.0	0.0	0.0	0
W _{d, Ma}	94.2	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



RE860-72

1-103130-L0

TUB-test chart RE86; 16 step hue circle, $cf=1$
Test chart according to DIN 33872, 3D=1, $de=0$, cmk^*

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

Input and Output: Laser Reflective System LRS18a

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elementary (e) colour:

HIC^*

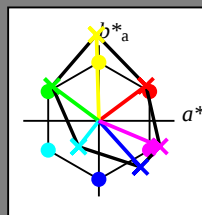
hue text for the colours

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

$u^*_{rel} = 114$

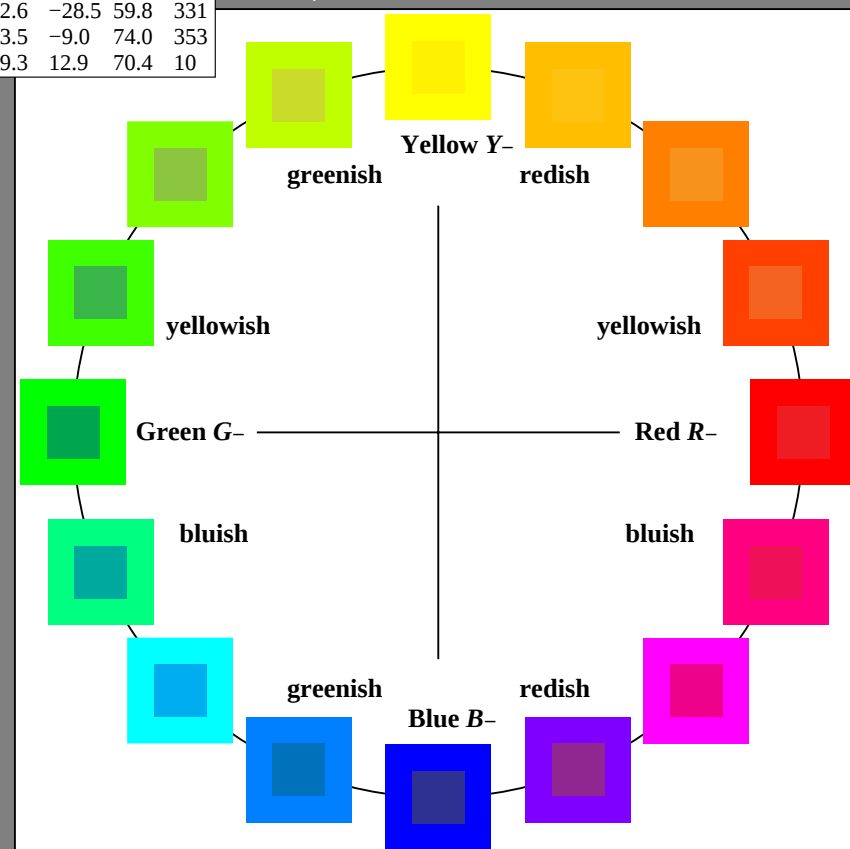
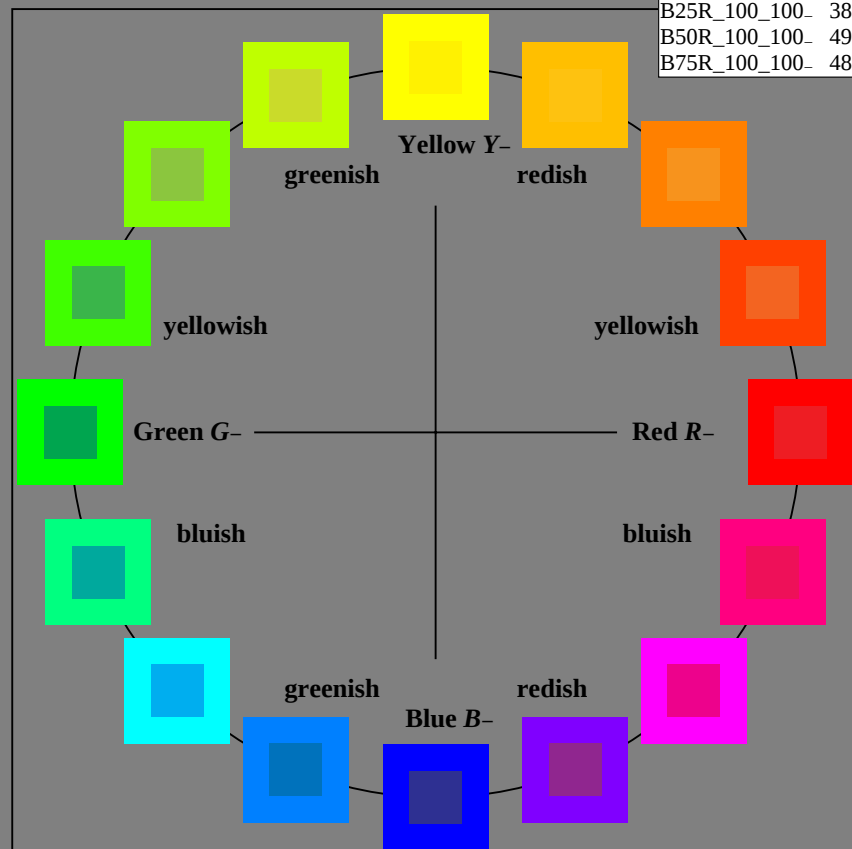
% Regularity

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

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

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



RE860-7N_RGB 1-113030-L0

TUB-test chart RE86; 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:

$$HIC_e^*$$

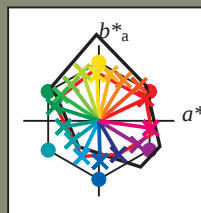
hue text for the colours

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	45.9	61.7	29.4	68.4
R25Y_100_100_e	53.7	53.2	46.3	70.6
R50Y_100_100_e	64.9	32.5	53.9	63.0
R75Y_100_100_e	75.4	14.6	62.1	63.9
Y00G_100_100_e	86.8	-2.4	61.6	92
Y25G_100_100_e	82.1	-21.8	64.9	68.5
Y50G_100_100_e	69.6	-36.4	47.9	60.2
Y75G_100_100_e	60.3	-50.1	33.9	60.5
G00B_100_100_e	53.8	-58.7	18.8	61.6
G25B_100_100_e	55.0	-46.7	-7.9	47.4
G50B_100_100_e	56.0	-34.7	-26.1	43.4
G75B_100_100_e	52.0	-22.6	-47.2	52.4
B00R_100_100_e	40.0	1.6	-53.4	53.5
B25R_100_100_e	32.3	25.8	-44.4	51.4
B50R_100_100_e	36.4	51.8	-31.6	60.6
B75R_100_100_e	45.5	68.6	-9.5	69.3



% Gamut

$u^*_{rel} = 114$

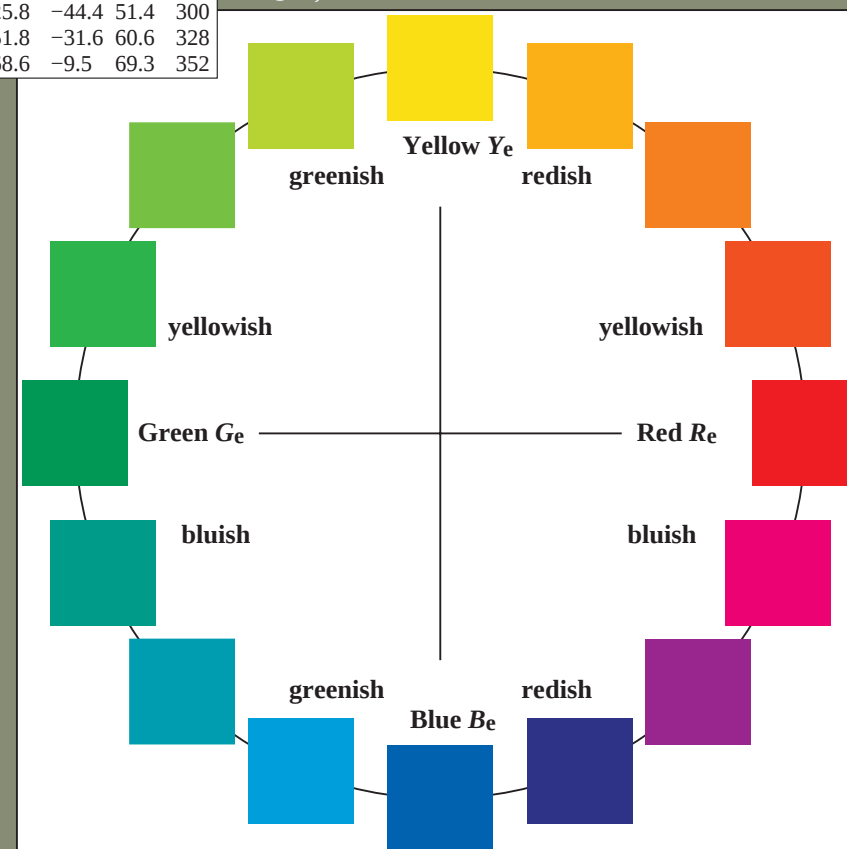
% Regularity

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

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

LRS18a; adapted (a) CIELAB data

name	$L^*=L_a^* a_a^*$	b_a^*	$C_{ab,a}^*$	$h_{ab,a}^*$
R _e ,Ma	45.9	61.7	29.4	68.4
Y _e ,Ma	86.8	-2.4	61.6	92
G _e ,Ma	53.8	-58.7	18.8	61.6
C _e ,Ma	56.0	-34.7	-26.1	43.4
B _e ,Ma	40.0	1.6	-53.4	53.5
M _e ,Ma	36.4	51.8	-31.6	60.6
N _e ,Ma	20.0	0.0	0.0	0
W _e ,Ma	94.2	0.0	0.0	0
R _e ,CIE	39.9	58.7	27.9	65.0
Y _e ,CIE	81.2	-2.8	71.5	71.6
G _e ,CIE	52.2	-42.4	13.6	44.5
B _e ,CIE	30.5	1.4	-46.4	46.4



RE860-73

1-113130-L0

TUB-test chart RE86; 16 step hue circle, $cf=1$
Test chart according to DIN 33872, 3D=1, $de=1$, $cmYk^*$

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