

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 298/360 = 0.82$

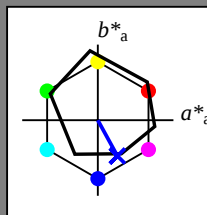
Data for any device (d) or elementary (e) colour:

HIC^*

hue text for the colours of this page:

$H^*_ = B00R_-$

triangle lightness T^*



ORS18a; adapted (a) CIELAB data					
name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R-,Ma	47.9	65.3	50.5	82.6	37
Y-,Ma	90.3	-10.2	91.7	92.3	96
G-,Ma	50.9	-62.8	34.9	71.9	150
C-,Ma	58.6	-30.3	-45.0	54.2	236
B-,Ma	25.7	31.0	-44.4	54.2	305
M-,Ma	48.1	75.2	-8.3	75.7	353
N-,Ma	18.0	0.0	0.0	0.0	0
W-,Ma	95.4	0.0	0.0	0.0	0
R-,CIE	39.9	58.7	27.9	65.0	25
Y-,CIE	81.2	-2.8	71.5	71.6	92
G-,CIE	52.2	-42.4	13.6	44.5	162
B-,CIE	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_{-,Ma}$: 27 25 -47 53 298

$HIC^*_{-,Ma}$: B00R_100_100-

$rgbic^*_{-,Ma}$:

0.0 0.0 1.0 1.0 1.0

triangle lightness T^*

% Gamut

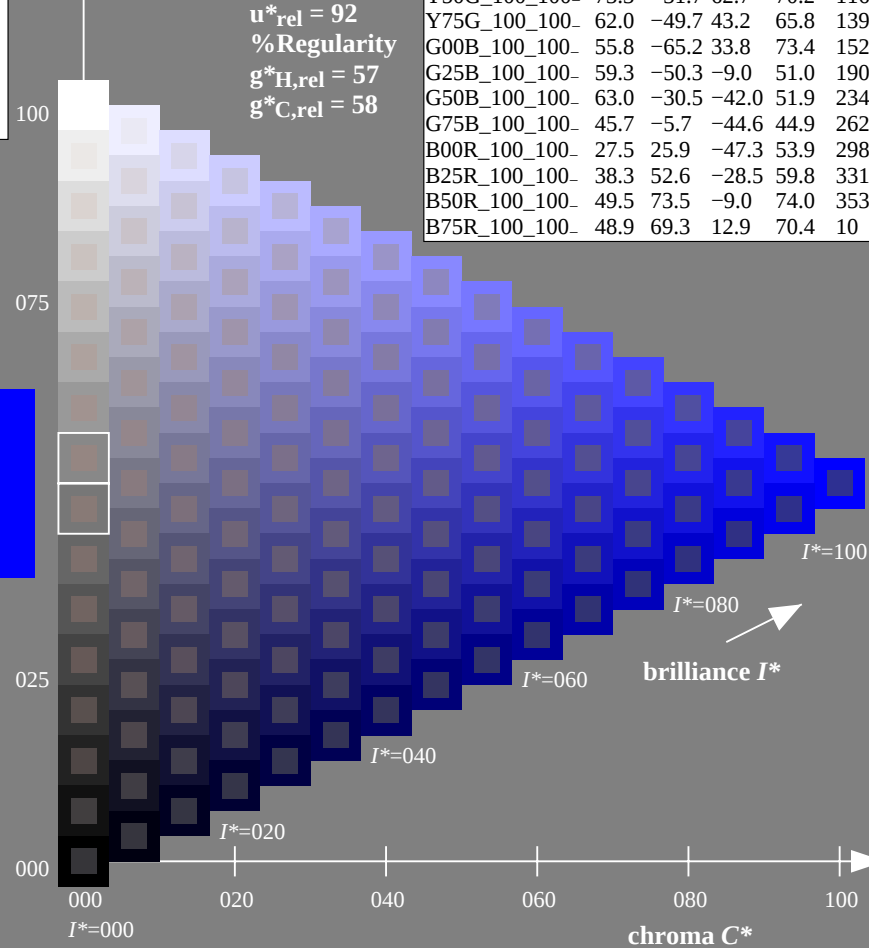
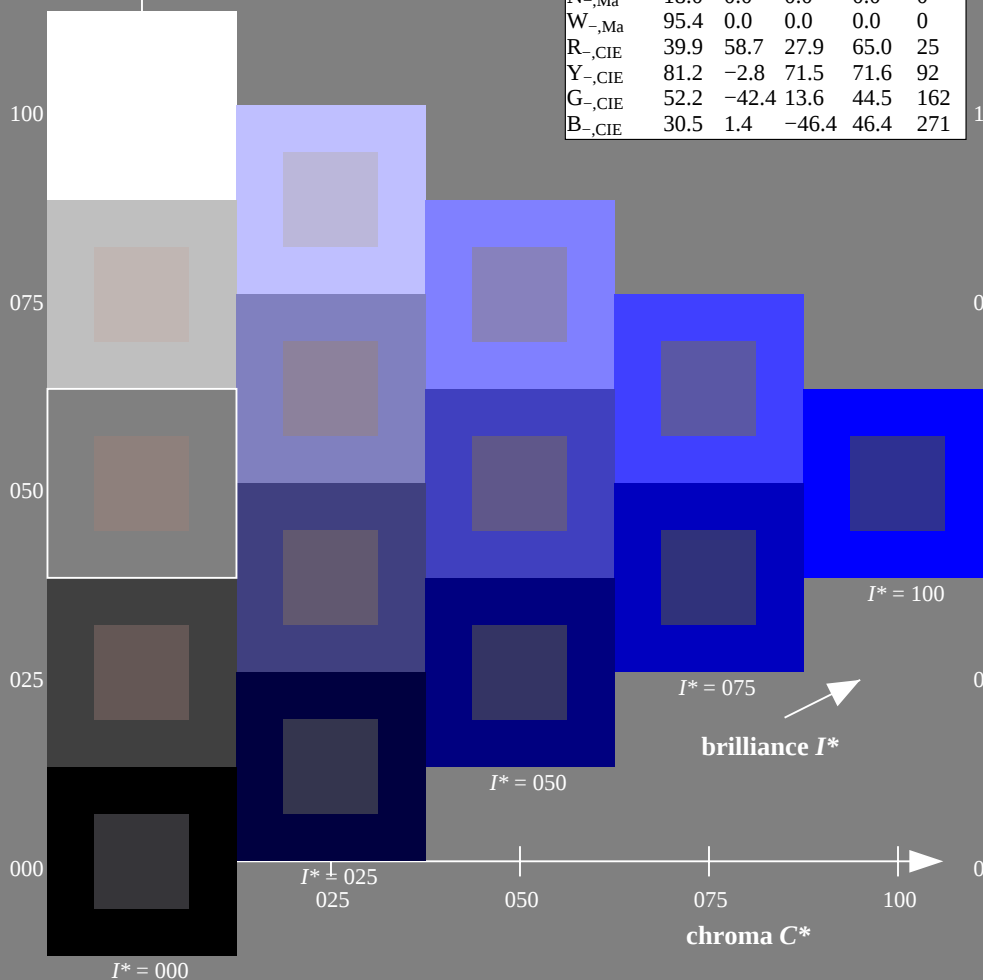
$u^*_{rel} = 92$

% Regularity

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

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

ORS20a; adapted (a) CIELAB data					
$H^*_$	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100-	48.4	66.1	40.2	77.3	31
R25Y_100_100-	56.8	48.0	50.5	69.6	46
R50Y_100_100-	68.6	25.0	63.9	68.6	68
R75Y_100_100-	80.6	4.8	77.2	77.3	86
Y00G_100_100-	90.2	-9.6	88.2	88.7	96
Y25G_100_100-	83.2	-18.4	79.9	81.9	102
Y50G_100_100-	73.3	-31.7	62.7	70.2	116
Y75G_100_100-	62.0	-49.7	43.2	65.8	139
G00B_100_100-	55.8	-65.2	33.8	73.4	152
G25B_100_100-	59.3	-50.3	-9.0	51.0	190
G50B_100_100-	63.0	-30.5	-42.0	51.9	234
G75B_100_100-	45.7	-5.7	-44.6	44.9	262
B00R_100_100-	27.5	25.9	-47.3	53.9	298
B25R_100_100-	38.3	52.6	-28.5	59.8	331
B50R_100_100-	49.5	73.5	-9.0	74.0	353
B75R_100_100-	48.9	69.3	12.9	70.4	10



TUB-test chart RE12; hue code: $H^*_ = B00R_-$
Test chart according to DIN 33872, 3D=1, de=1, sRGB*

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

Input and Output: Television Luminous System TLS00a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 271/360 = 0.75$

$H^*_e = B00R_e$

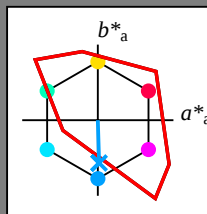
Data for any device (d) or elementary (e) colour:

HIC^*_e

hue text for the colours of this page:

$H^*_e = B00R_e$

triangle lightness T^*



TLS00a; adapted (a) CIELAB data

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_e, Ma	50.9	78.3	37.3	86.7	25
Y_e, Ma	83.7	-3.4	84.5	84.5	92
G_e, Ma	85.1	-64.6	20.7	67.9	162
C_e, Ma	79.0	-34.2	-25.7	42.8	216
B_e, Ma	59.2	1.7	-56.6	56.6	271
M_e, Ma	57.1	94.1	-57.4	110.3	328
N_e, Ma	0.0	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):

$LabCh^*_e, Ma: 59 \ 1 \ -56 \ 56 \ 271$

$HIC^*_e, Ma: B00R_100_100_e$

$rgbic^*_e, Ma:$

0.0 0.6 1.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 158$

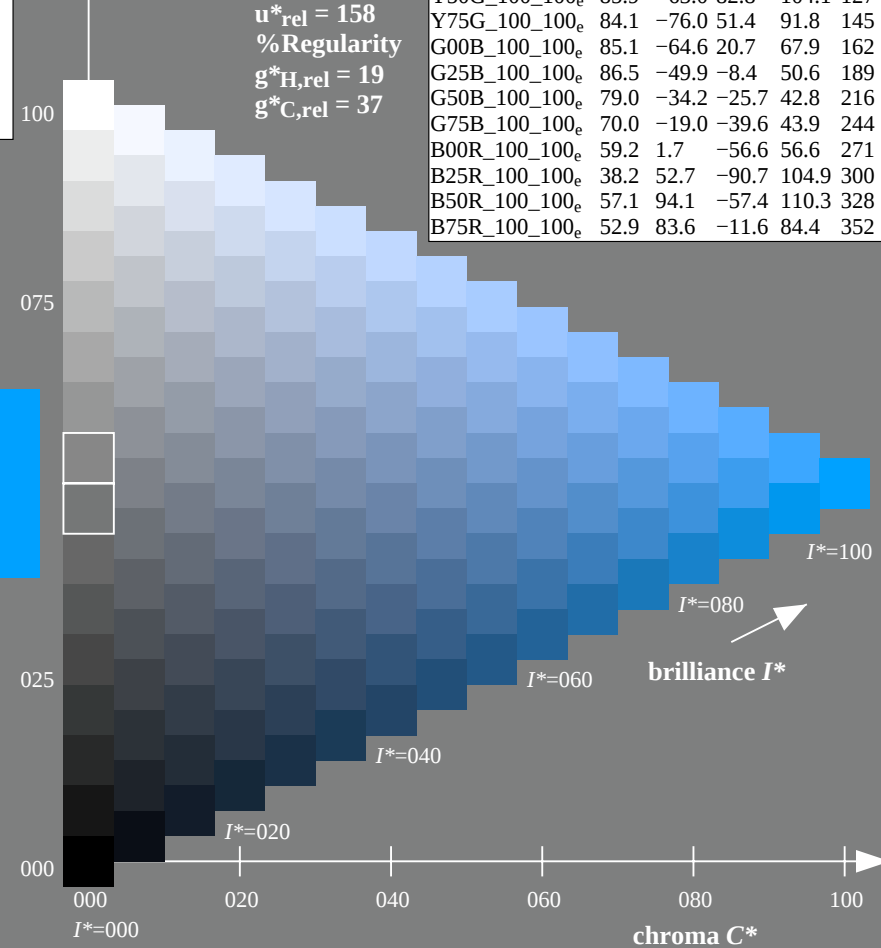
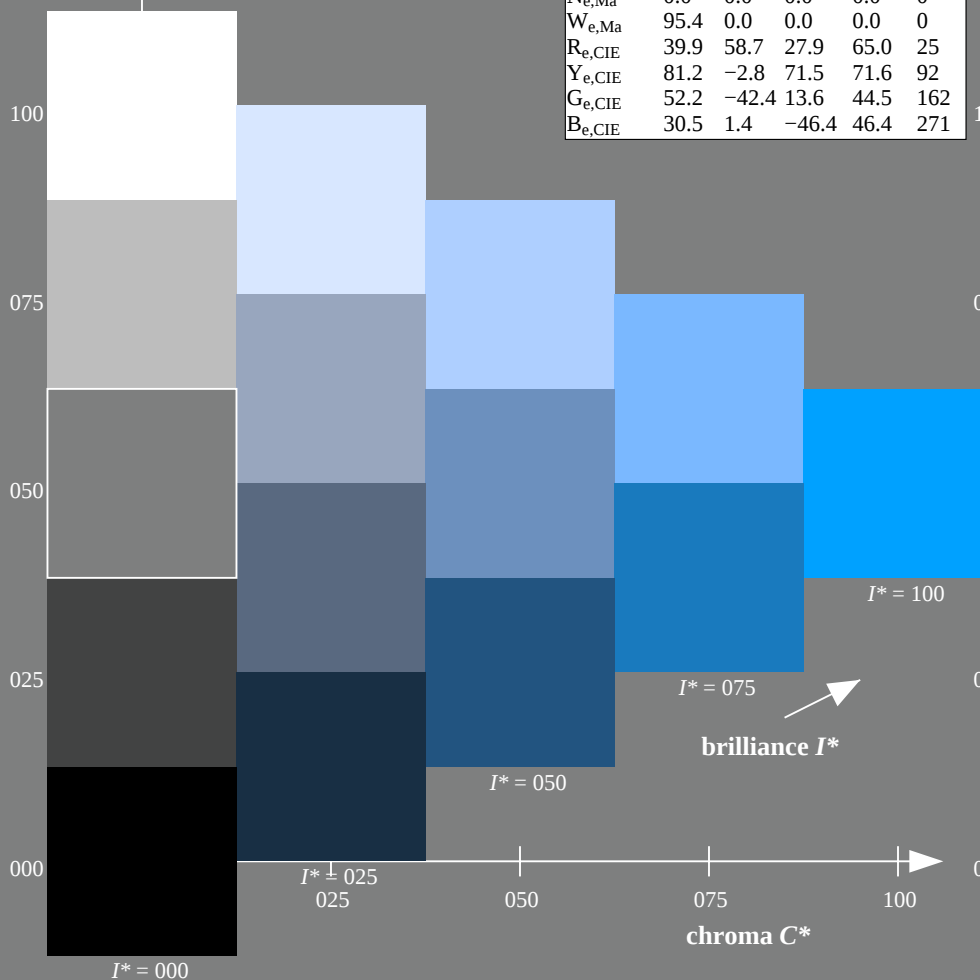
% Regularity

$g^*_{H,rel} = 19$

$g^*_{C,rel} = 37$

TLS00a; adapted (a) CIELAB data

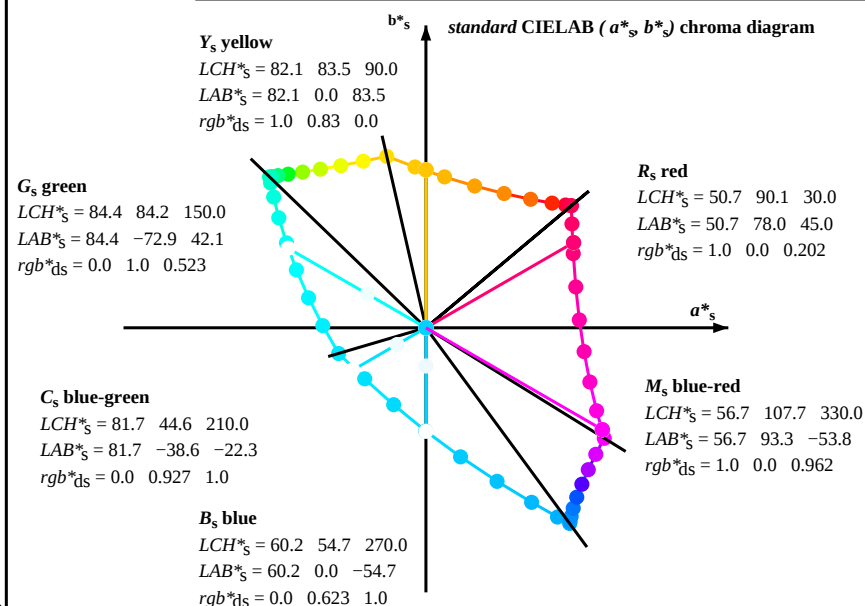
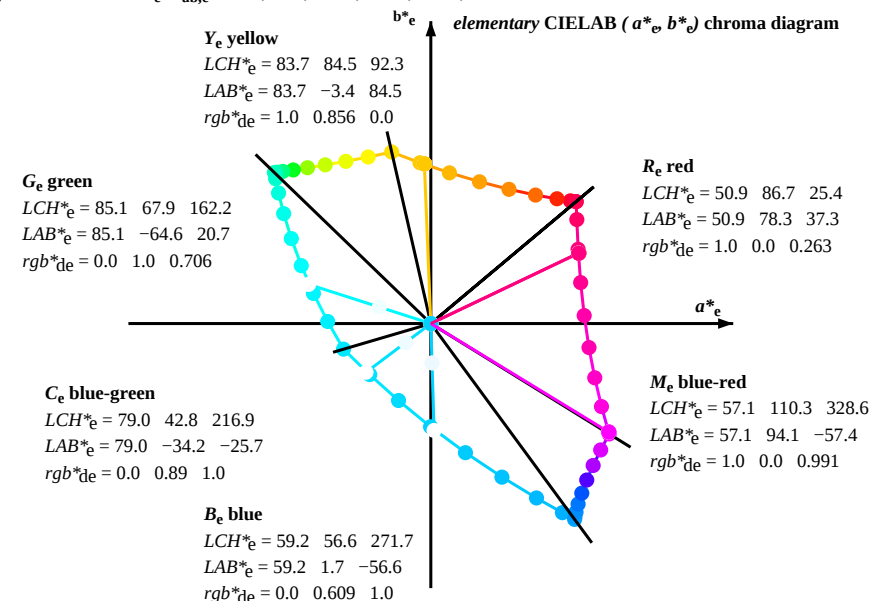
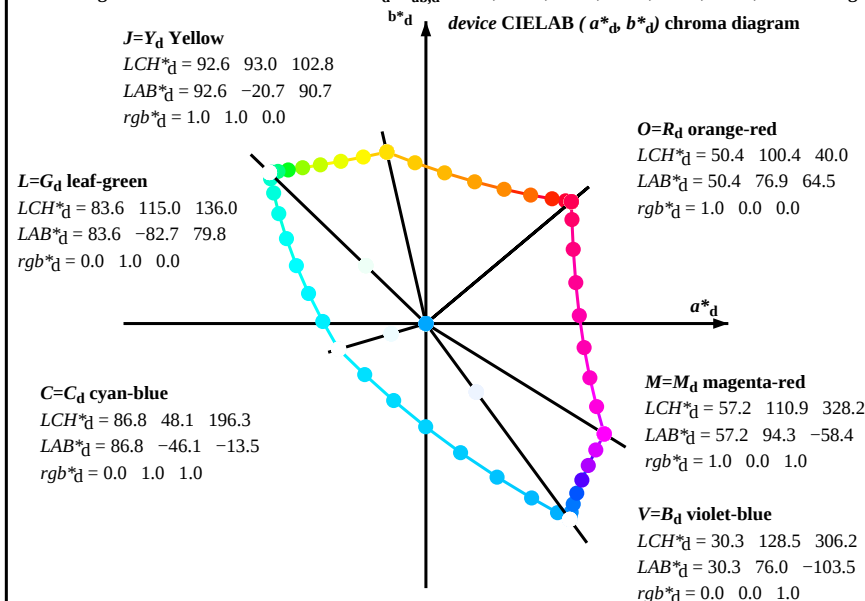
H^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
$R00Y_100_100_e$	50.9	78.3	37.3	86.7	25
$R25Y_100_100_e$	51.3	74.4	64.8	98.7	41
$R50Y_100_100_e$	63.1	42.7	70.8	82.7	58
$R75Y_100_100_e$	73.5	18.3	77.7	79.8	76
$Y00G_100_100_e$	83.7	-3.4	84.5	84.5	92
$Y25G_100_100_e$	91.0	-29.9	88.9	93.8	108
$Y50G_100_100_e$	85.9	-63.0	82.8	104.1	127
$Y75G_100_100_e$	84.1	-76.0	51.4	91.8	145
$G00B_100_100_e$	85.1	-64.6	20.7	67.9	162
$G25B_100_100_e$	86.5	-49.9	-8.4	50.6	189
$G50B_100_100_e$	79.0	-34.2	-25.7	42.8	216
$G75B_100_100_e$	70.0	-19.0	-39.6	43.9	244
$B00R_100_100_e$	59.2	1.7	-56.6	56.6	271
$B25R_100_100_e$	38.2	52.7	-90.7	104.9	300
$B50R_100_100_e$	57.1	94.1	-57.4	110.3	328
$B75R_100_100_e$	52.9	83.6	-11.6	84.4	352



TUB-test chart RE12; hue code: $H^*_e = B00R_e$
Test chart according to DIN 33872, 3D=1, de=1, sRGB*

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

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours $RYGBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$



Notes to the CIELAB chroma diagrams (a^*_d, b^*_d), (a^*_s, b^*_s), (a^*_e, b^*_e)

- For the rgb^*_e -input values the CIELAB data LCH^*_e and LAB^*_e have been calculated.
- For the calculation of the standard hue angle $h_{ab,s}$ use for any device values rgb^*_e the equation:

$$h_{ab,s} = \text{atan} [r^*_d \cos(30) + g^*_d \cos(150)] / [r^*_d \sin(30) + g^*_d \sin(150) + b^*_d \sin(270)] \quad (1)$$
- For the 48 or 360 equally spaced standard hue angles $h_{ab,s}$ of the colours of maximum chroma use the seven hue angles of the 60 degree colours s : $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0$ ($i=0,6$) and the equations for a 48 and 360 step hue circle:

$$h_{48ab,sij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 8 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 7) \quad (2)$$

$$h_{360ab,sij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (3)$$
- For the 48 or 360 elementary hue angles $h_{ab,e}$ of the colours of maximum chroma use the seven hue angles of the elementary colours e : $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6, 385.5$ ($i=0,6$) and the equations for a 48 and 360 step elementary hue circle:

$$h_{48ab,eij} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 8 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 7) \quad (4)$$

$$h_{360ab,eij} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (5)$$
- For any elementary hue angle $h_{ab,e}$ there is a well defined device hue angle $h_{ab,d}$ see the following tables, columns 1 to 5 or 1 to 4.
- The values rgb^*_e produce the output of the device-independent elementary hues

1-113230-L0 RE120-73 LAB*la0, YN=0%, XYZnw=0.0, 0.0, 0.0, 84.2, 88.6, 96.5, LAB*nw=0.0, 0.0, 0.0, 95.4, 0.0, 0.0

Output: sRGB standard device; no separation, D65, page 3/29

TUB-test chart RE12; hue code: $H^*_e=B00R_e$
Test chart according to DIN 33872, 3D=1, de=1, sRGB*

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

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd64M}	LAB^*_{ddx64M} (x=LabCh)	$rgb^*_{ddx361M}$	$LAB^*_{ddx361M}$ (x=LabCh)	$rgb^*_{dsx361M}$	$LAB^*_{dsx361M}$ (x=LabCh)	$rgb^*_{dex361M}$	$LAB^*_{dex361M}$ (x=LabCh)
40.0	30.0	25.4	1.0	0.0	0.0	50.4	76.9	64.5	100.4	40.0
41.3	37.5	33.8	1.0	0.125	0.0	51.5	74.1	64.9	98.5	41
44.6	45.0	42.1	1.0	0.25	0.0	54.0	66.7	65.9	93.8	44.6
50.7	52.5	50.5	1.0	0.375	0.0	58.2	55.4	67.9	87.7	50.7
59.7	60.0	58.8	1.0	0.5	0.0	63.6	41.3	71.0	82.2	59.7
71.0	67.5	67.2	1.0	0.625	0.0	70.1	25.7	75.0	79.3	71.0
82.9	75.0	75.6	1.0	0.75	0.0	77.2	9.8	79.7	80.4	82.9
93.8	82.5	83.9	1.0	0.875	0.0	84.8	-5.7	85.0	85.2	93.8
102.8	90.0	92.3	1.0	1.0	0.0	92.6	-20.7	90.7	93.0	102.8
110.5	97.5	101.0	0.875	1.0	0.0	90.4	-33.1	88.1	94.1	110.5
117.6	105.0	109.7	0.75	1.0	0.0	88.5	-44.9	85.8	96.8	117.6
123.6	112.5	118.5	0.625	1.0	0.0	86.9	-55.8	83.9	100.7	123.6
128.3	120.0	127.2	0.5	1.0	0.0	85.7	-65.2	82.4	105.1	128.3
131.8	127.5	136.0	0.375	1.0	0.0	84.7	-72.8	81.2	109.1	131.8
134.1	135.0	144.7	0.25	1.0	0.0	84.1	-78.2	80.5	112.2	134.1
135.5	142.5	153.4	0.125	1.0	0.0	83.7	-81.4	80.0	114.2	135.5
136.0	150.0	162.2	0.0	1.0	0.0	83.6	-82.7	79.8	115.0	136.0
137.0	157.5	169.0	0.0	1.0	0.125	83.6	-82.1	76.6	112.3	137.0
139.3	165.0	175.9	0.0	1.0	0.25	83.8	-80.5	69.1	106.1	139.3
143.2	172.5	182.7	0.0	1.0	0.375	84.0	-77.8	58.1	97.1	143.2
148.6	180.0	189.6	0.0	1.0	0.5	84.3	-73.7	44.9	86.4	148.6
155.8	187.5	196.4	0.0	1.0	0.625	84.7	-68.5	30.6	75.0	155.8
165.6	195.0	203.2	0.0	1.0	0.75	85.3	-62.0	15.9	64.0	165.6
178.8	202.5	210.1	0.0	1.0	0.875	86.0	-54.5	1.0	54.5	178.8
196.3	210.0	216.9	0.0	1.0	1.0	86.8	-46.1	-13.5	48.1	196.3
219.8	217.5	223.8	0.0	0.875	1.0	77.9	-32.3	-27.0	42.1	219.8
247.2	225.0	230.6	0.0	0.75	1.0	69.1	-17.0	-40.7	44.1	247.2
269.8	232.5	237.5	0.0	0.625	1.0	60.3	-0.1	-54.6	54.6	269.8
285.0	240.0	244.3	0.0	0.5	1.0	51.7	18.3	-68.3	70.7	285.0
294.8	247.5	251.2	0.0	0.375	1.0	43.8	37.6	-81.2	89.5	294.8
301.1	255.0	258.0	0.0	0.25	1.0	37.1	55.9	-92.3	107.9	301.1
304.8	262.5	264.8	0.0	0.125	1.0	32.4	69.5	-100.0	121.8	304.8
306.2	270.0	271.7	0.0	0.0	1.0	30.3	76.0	-103.5	128.5	306.2
306.6	277.5	278.8	0.125	0.0	1.0	31.0	76.2	-102.4	127.7	306.6
307.5	285.0	285.9	0.25	0.0	1.0	32.6	76.8	-99.8	125.9	307.5
309.2	292.5	293.0	0.375	0.0	1.0	35.1	77.9	-95.5	123.3	309.2
311.6	300.0	300.1	0.5	0.0	1.0	38.5	79.8	-89.7	120.0	311.6
314.8	307.5	307.2	0.625	0.0	1.0	42.7	82.5	-82.7	116.8	314.8
318.8	315.0	314.3	0.75	0.0	1.0	47.2	85.8	-75.1	114.0	318.8
323.3	322.5	321.4	0.875	0.0	1.0	52.1	89.8	-66.9	112.0	323.3
328.2	330.0	328.6	1.0	0.0	1.0	57.2	94.3	-58.4	110.9	328.2
334.0	337.5	335.7	1.0	0.0	0.875	55.6	90.3	-43.9	100.4	334.0
341.6	345.0	342.8	1.0	0.0	0.75	54.2	86.7	-28.6	91.3	341.6
351.4	352.5	349.9	1.0	0.0	0.625	53.0	83.6	-12.6	84.6	351.4
362.9	360.0	357.0	1.0	0.0	0.5	52.0	81.1	4.1	81.2	362.9
375.2	367.5	364.1	1.0	0.0	0.375	51.3	79.2	21.6	82.1	375.2
386.7	375.0	371.2	1.0	0.0	0.25	50.8	77.9	39.2	87.3	386.7
395.4	382.5	378.3	1.0	0.0	0.125	50.6	77.2	54.9	94.8	395.4
400.0	390.0	385.4	1.0	0.0	0.0	50.4	76.9	64.5	100.4	400.0

1-113330-L0 RE120-73 LAB*la0, YN=0%, XYZnw=0.0, 0.0, 0.0, 84.2, 88.6, 96.5, LAB*nw=0.0, 0.0, 0.0, 95.4, 0.0, 0.0

TUB-test chart RE12; hue code: $H^*_e=B00R_e$
Test chart according to DIN 33872, 3D=1, de=1, sRGB*

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

Output: sRGB standard device; no separation, D65, page 4/29

TUB registration: 20130201-RE12/RE12L0FA.TXT /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours $RYGBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd64M}			$LAB^*_{ddx64M}(x=LabCh)$						$rgb^*_{dex361M}$			$LAB^*_{dex361M}$					rgb^*_{dd}			rgb^*_{ds}	rgb^*_{de}	
40.0	30.0	25.4	1.0	0.0	0.0	50.4	76.9	64.5	100.4	40.0	40.0	1.0	0.0	0.263	50.9	78.3	37.3	86.7	25						
41.3	37.5	33.8	1.0	0.125	0.0	51.5	73.9	64.9	98.3	41.3	41.3	1.0	0.0	0.156	50.7	77.7	51.0	92.9	33						
44.6	45.0	42.1	1.0	0.25	0.0	54.0	66.7	65.9	93.8	44.6	44.6	1.0	0.0	0.157	0.0	52.2	72.0	65.3	97.2	42					
50.7	52.5	50.5	1.0	0.375	0.0	58.2	55.4	67.9	87.7	50.7	50.7	1.0	0.0	0.358	0.0	57.7	56.9	67.8	88.6	49					
59.7	60.0	58.8	1.0	0.5	0.0	63.6	41.3	71.0	82.2	59.7	59.7	1.0	0.0	0.488	0.0	63.1	42.8	70.9	82.8	58					
71.0	67.5	67.2	1.0	0.625	0.0	70.1	25.7	75.0	79.3	71.0	71.0	1.0	0.0	0.577	0.0	67.6	31.8	73.9	80.5	66					
82.9	75.0	75.6	1.0	0.75	0.0	77.2	9.8	79.7	80.4	82.9	82.9	1.0	0.0	0.673	0.0	72.8	19.8	77.3	79.8	75					
93.8	82.5	83.9	1.0	0.875	0.0	84.8	-5.7	85.0	85.2	93.8	93.8	1.0	0.0	0.755	0.0	77.5	9.3	80.1	80.6	83					
102.8	90.0	92.3	1.0	1.0	0.0	92.6	-20.7	90.7	93.0	102.8	102.8	1.0	0.0	0.857	0.0	83.7	-3.3	84.5	84.6	92					
110.5	97.5	101.0	0.875	1.0	0.0	90.4	-33.1	88.1	94.1	110.5	110.5	1.0	0.0	0.967	0.0	90.6	-16.4	89.5	91.0	100					
117.6	105.0	109.7	0.75	1.0	0.0	88.5	-44.9	85.8	96.8	117.6	117.6	0.888	1.0	0.0	90.7	-31.7	88.5	94.0	109						
123.6	112.5	118.5	0.625	1.0	0.0	86.9	-55.8	83.9	100.7	123.6	123.6	0.743	1.0	0.0	88.5	-45.4	85.8	97.1	117						
128.3	120.0	127.2	0.5	1.0	0.0	85.7	-65.2	82.4	105.1	128.3	128.3	0.529	1.0	0.0	86.0	-62.9	82.9	104.1	127						
131.8	127.5	136.0	0.375	1.0	0.0	84.7	-72.8	81.2	109.1	131.8	131.8	0.132	1.0	0.0	83.8	-81.2	80.1	114.1	135						
134.1	135.0	144.7	0.25	1.0	0.0	84.1	-78.2	80.5	112.2	134.1	134.1	0.0	1.0	0.41	84.1	-76.8	54.3	94.1	144						
135.5	142.5	153.4	0.125	1.0	0.0	83.7	-81.4	80.0	114.2	135.5	135.5	0.0	1.0	0.573	84.6	-70.9	36.3	79.8	152						
136.0	150.0	162.2	0.0	1.0	0.0	83.6	-82.7	79.8	115.0	136.0	136.0	0.0	1.0	0.706	85.2	-64.6	20.7	67.9	162						
137.0	157.5	169.0	0.0	1.0	0.125	83.6	-82.1	76.6	112.3	137.0	137.0	0.0	1.0	0.778	85.5	-60.6	12.2	61.9	168						
139.3	165.0	175.9	0.0	1.0	0.25	83.8	-80.5	69.1	106.1	139.3	139.3	0.0	1.0	0.847	85.9	-56.4	4.0	56.7	175						
143.2	172.5	182.7	0.0	1.0	0.375	84.0	-77.8	58.1	97.1	143.2	143.2	0.0	1.0	0.9	86.2	-53.2	-2.0	53.3	182						
148.6	180.0	189.6	0.0	1.0	0.5	84.3	-73.7	44.9	86.4	148.6	148.6	0.0	1.0	0.952	86.6	-49.8	-8.3	50.6	189						
155.8	187.5	196.4	0.0	1.0	0.625	84.7	-68.5	30.6	75.0	155.8	155.8	0.0	1.0	0.997	86.9	-46.3	-13.2	48.3	195						
165.6	195.0	203.2	0.0	1.0	0.75	85.3	-62.0	15.9	64.0	165.6	165.6	0.0	0.963	1.0	84.3	-42.5	-18.2	46.4	203						
178.8	202.5	210.1	0.0	1.0	0.875	86.0	-54.5	1.0	54.5	178.8	178.8	0.0	0.929	1.0	81.8	-38.8	-22.1	44.7	209						
196.3	210.0	216.9	0.0	1.0	1.0	86.8	-46.1	-13.5	48.1	196.3	196.3	0.0	0.89	1.0	79.1	-34.2	-25.7	42.9	216						
219.8	217.5	223.8	0.0	0.875	1.0	77.9	-32.3	-27.0	42.1	219.8	219.8	0.0	0.859	1.0	76.9	-30.7	-29.0	42.4	223						
247.2	225.0	230.6	0.0	0.75	1.0	69.1	-17.0	-40.7	44.1	247.2	247.2	0.0	0.826	1.0	74.5	-27.1	-33.1	43.0	230						
269.8	232.5	237.5	0.0	0.625	1.0	60.3	-0.1	-54.6	54.6	269.8	269.8	0.0	0.797	1.0	72.4	-23.5	-36.3	43.4	237						
285.0	240.0	244.3	0.0	0.5	1.0	51.7	18.3	-68.3	70.7	285.0	285.0	0.0	0.763	1.0	70.1	-18.9	-39.5	44.0	244						
294.8	247.5	251.2	0.0	0.375	1.0	43.8	37.6	-81.2	89.5	294.8	294.8	0.0	0.731	1.0	67.8	-15.0	-43.1	45.8	250						
301.1	255.0	258.0	0.0	0.25	1.0	37.1	55.9	-92.3	107.9	301.1	301.1	0.0	0.69	1.0	64.9	-10.1	-48.0	49.2	258						
304.8	262.5	264.8	0.0	0.125	1.0	32.4	69.5	-100.0	121.8	304.8	304.8	0.0	0.655	1.0	62.4	-5.0	-51.8	52.1	264						
306.2	270.0	271.7	0.0	0.0	1.0	30.3	76.0	-103.5	128.5	306.2	306.2	0.0	0.609	1.0	59.3	1.7	-56.5	56.6	271						
306.6	277.5	278.8	0.125	0.0	1.0	31.0	76.2	-102.4	127.7	306.6	306.6	0.0	0.555	1.0	55.5	9.3	-62.9	63.7	278						
307.5	285.0	285.9	0.25	0.0	1.0	32.6	76.8	-99.8	125.9	307.5	307.5	0.0	0.488	1.0	51.0	19.9	-69.6	72.5	285						
309.2	292.5	293.0	0.375	0.0	1.0	35.1	77.9	-95.5	123.3	309.2	309.2	0.0	0.404	1.0	45.7	32.7	-78.5	85.2	292						
311.6	300.0	300.1	0.5	0.0	1.0	38.5	79.8	-89.7	120.0	311.6	311.6	0.0	0.27	1.0	38.2	52.8	-90.6	105.0	300						
314.8	307.5	307.2	0.625	0.0	1.0	42.7	82.5	-82.7	116.8	314.8	314.8	0.0	0.146	0.0	31.3	76.4	-102.0	127.5	306						
318.8	315.0	314.3	0.75	0.0	1.0	47.2	85.8	-75.1	114.0	318.8	318.8	0.0	0.605	0.0	42.1	82.1	-83.8	117.4	314						
323.3	322.5	321.4	0.875	0.0	1.0	52.1	89.8	-66.9	112.0	323.3	323.3	0.0	0.811	0.0	49.7	87.9	-71.0	113.1	321						
328.2	330.0	328.6	1.0	0.0	1.0	57.2	94.3	-58.4	110.9	328.2	328.2	1.0	0.0	0.992	57.2	94.2	-57.4	110.3	328						
334.0	337.5	335.7	1.0	0.0	0.875	55.6	90.3	-43.9	100.4	334.0	334.0	1.0	0.0	0.856	55.4	89.9	-41.4	99.0	335						
341.6	345.0	342.8	1.0	0.0	0.75	54.2	86.7	-28.6	91.3	341.6	341.6	1.0	0.0	0.735	54.1	86.5	-26.6	90.6	342						
351.4	352.5	349.9	1.0	0.0	0.625	53.0	83.6	-12.6	84.6	351.4	351.4	1.0	0.0	0.65	53.3	84.5	-15.6	86.0	349						
362.9	360.0	357.0	1.0	0.0	0.5	52.0	81.1	4.1	81.2	362.9	362.9	1.0	0.0	0.618	53.0	83.6	-11.6	84.4	352						
375.2	367.5	364.1	1.0	0.0	0.375	51.3	79.2	21.6	82.1	375.2	375.2	1.0	0.0	0.533	52.3	82.2	-0.1	82.2	359						
386.7	375.0	371.2	1.0	0.0	0.25	50.8	77.9	39.2	87.2	386.7	386.7	1.0	0.0	0.441	51.7	80.7	12.5	81.7	368						
395.4	382.5	378.3	1.0	0.0	0.125	50.6	77.2	54.9	94.8	395.4	395.4	1.0	0.0	0.361	51.3	79.3	23.6	82.8	376						
400.0	390.0	385.4	1.0	0.0	0.0	50.4	76.9	64.5	100.4	400.0	400.0	1.0	0.0	0.263	50.9	78.3	37.3	86.7	385						

1-113430-L0 RE120-73 LAB*la0, YN=0%, XYZnw=0.0, 0.0, 0.0, 84.2, 88.6, 96.5, LAB*nw=0.0, 0.0, 0.0, 95.4, 0.0, 0.0

TUB-test chart RE12; hue code: $H^*_e=B00R_e$
Test chart according to DIN 33872, 3D=1, $de=1$, sRGB*

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

Output: sRGB standard device; no separation, D65, page 5/29

TUB registration: 20130201-RE12/RE12L0FA.TXT /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{ddx361Mi}$ (x=LabCh)	R_d	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}$ (x=LabCh)	R_s	$rgb^*_{dd361Mi}$	$LAB^*_{dex361Mi}$ (x=LabCh)	R_e	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
40	30	25	1.0	0.0 0.0	50.4	76.9	64.5	100.4	40	1.0	0.0 0.0	50.4	76.9	64.5	100.4
40	31	26	1.0	0.016 0.0	50.6	76.5	64.6	100.1	40	1.0	0.0 0.0	50.6	76.5	64.6	100.1
40	32	27	1.0	0.033 0.0	50.7	76.1	64.6	99.8	40	1.0	0.0 0.0	50.7	76.1	64.6	99.8
40	33	28	1.0	0.05 0.0	50.9	75.7	64.7	99.6	40	1.0	0.0 0.0	50.9	75.7	64.7	99.6
40	34	29	1.0	0.066 0.0	51.0	75.3	64.7	99.3	40	1.0	0.0 0.0	51.0	75.3	64.7	99.3
40	35	31	1.0	0.083 0.0	51.1	74.9	64.8	99.0	40	1.0	0.0 0.0	51.1	74.9	64.8	99.0
41	36	32	1.0	0.1 0.0	51.3	74.5	64.8	98.7	41	1.0	0.0 0.0	51.3	74.5	64.8	98.7
41	37	33	1.0	0.116 0.0	51.4	74.1	64.9	98.5	41	1.0	0.0 0.0	51.4	74.1	64.9	98.5
41	38	34	1.0	0.133 0.0	51.7	73.4	65.0	98.0	41	1.0	0.0 0.0	51.7	73.4	65.0	98.0
41	39	35	1.0	0.15 0.0	52.0	72.4	65.2	97.4	41	1.0	0.0 0.0	52.0	72.4	65.2	97.4
42	40	36	1.0	0.166 0.0	52.3	71.4	65.3	96.8	42	1.0	0.0 0.0	52.3	71.4	65.3	96.8
42	41	37	1.0	0.183 0.0	52.7	70.5	65.5	96.2	42	1.0	0.0 0.0	52.7	70.5	65.5	96.2
43	42	38	1.0	0.2 0.0	53.0	69.5	65.6	95.6	43	1.0	0.0 0.0	53.0	69.5	65.6	95.6
43	43	39	1.0	0.216 0.0	53.4	68.6	65.7	95.0	43	1.0	0.0 0.0	53.4	68.6	65.7	95.0
44	44	41	1.0	0.233 0.0	53.7	67.6	65.8	94.4	44	1.0	0.0 0.0	53.7	67.6	65.8	94.4
44	45	42	1.0	0.25 0.0	54.0	66.7	65.9	93.8	44	1.0	0.0 0.0	54.0	66.7	65.9	93.8
45	46	43	1.0	0.266 0.0	54.6	65.1	66.3	93.0	45	1.0	0.0 0.0	54.6	65.1	66.3	93.0
46	47	44	1.0	0.283 0.0	55.1	63.6	66.6	92.2	46	1.0	0.0 0.0	55.1	63.6	66.6	92.2
47	48	45	1.0	0.3 0.0	55.7	62.1	66.9	91.3	47	1.0	0.0 0.0	55.7	62.1	66.9	91.3
47	49	46	1.0	0.316 0.0	56.2	60.6	67.2	90.5	47	1.0	0.0 0.0	56.2	60.6	67.2	90.5
48	50	47	1.0	0.333 0.0	56.8	59.1	67.5	89.7	48	1.0	0.0 0.0	56.8	59.1	67.5	89.7
49	51	48	1.0	0.35 0.0	57.3	57.6	67.7	88.9	49	1.0	0.0 0.0	57.3	57.6	67.7	88.9
50	52	49	1.0	0.366 0.0	57.9	56.2	67.9	88.1	50	1.0	0.0 0.0	57.9	56.2	67.9	88.1
51	53	51	1.0	0.383 0.0	58.5	54.5	68.2	87.3	51	1.0	0.0 0.0	58.5	54.5	68.2	87.3
52	54	52	1.0	0.4 0.0	59.3	52.6	68.8	86.6	52	1.0	0.0 0.0	59.3	52.6	68.8	86.6
53	55	53	1.0	0.416 0.0	60.0	50.7	69.3	85.9	53	1.0	0.0 0.0	60.0	50.7	69.3	85.9
54	56	54	1.0	0.433 0.0	60.7	48.8	69.7	85.1	54	1.0	0.0 0.0	60.7	48.8	69.7	85.1
56	57	55	1.0	0.45 0.0	61.4	46.9	70.1	84.4	56	1.0	0.0 0.0	61.4	46.9	70.1	84.4
57	58	56	1.0	0.466 0.0	62.2	45.1	70.4	83.6	57	1.0	0.0 0.0	62.2	45.1	70.4	83.6
58	59	57	1.0	0.483 0.0	62.9	43.2	70.7	82.9	58	1.0	0.0 0.0	62.9	43.2	70.7	82.9
59	60	58	1.0	0.5 0.0	63.6	41.3	71.0	82.2	59	1.0	0.0 0.0	63.6	41.3	71.0	82.2
61	61	60	1.0	0.516 0.0	64.5	39.3	71.7	81.8	61	1.0	0.0 0.0	64.5	39.3	71.7	81.8
62	62	61	1.0	0.533 0.0	65.3	37.2	72.4	81.4	62	1.0	0.0 0.0	65.3	37.2	72.4	81.4
64	63	62	1.0	0.55 0.0	66.2	35.1	73.0	81.0	64	1.0	0.0 0.0	66.2	35.1	73.0	81.0
65	64	63	1.0	0.566 0.0	67.1	33.0	73.5	80.6	65	1.0	0.0 0.0	67.1	33.0	73.5	80.6
67	65	64	1.0	0.583 0.0	67.9	31.0	74.0	80.3	67	1.0	0.0 0.0	67.9	31.0	74.0	80.3
68	66	65	1.0	0.6 0.0	68.8	28.9	74.5	79.9	68	1.0	0.0 0.0	68.8	28.9	74.5	79.9
70	67	66	1.0	0.616 0.0	69.6	26.8	74.8	79.5	70	1.0	0.0 0.0	69.6	26.8	74.8	79.5
71	68	67	1.0	0.633 0.0	70.5	24.7	75.4	79.4	71	1.0	0.0 0.0	70.5	24.7	75.4	79.4
73	69	68	1.0	0.65 0.0	71.5	22.7	76.2	79.5	73	1.0	0.0 0.0	71.5	22.7	76.2	79.5
75	70	70	1.0	0.666 0.0	72.4	20.6	76.9	79.7	75	1.0	0.0 0.0	72.4	20.6	76.9	79.7
76	71	71	1.0	0.683 0.0	73.4	18.5	77.6	79.8	76	1.0	0.0 0.0	73.4	18.5	77.6	79.8
78	72	72	1.0	0.7 0.0	74.3	16.3	78.2	79.9	78	1.0	0.0 0.0	74.3	16.3	78.2	79.9
79	73	73	1.0	0.716 0.0	75.3	14.2	78.8	80.1	79	1.0	0.0 0.0	75.3	14.2	78.8	80.1
81	74	74	1.0	0.733 0.0	76.2	12.0	79.3	80.2	81	1.0	0.0 0.0	76.2	12.0	79.3	80.2
82	75	75	1.0	0.75 0.0	77.2	9.8	79.7	80.4	82	1.0	0.0 0.0	77.2	9.8	79.7	80.4

1-113530-L0 RE120-73 LAB*la0, YN=0%, XYZnw=0.0, 0.0, 0.0, 84.2, 88.6, 96.5, LAB*nw=0.0, 0.0, 0.0, 95.4, 0.0, 0.0

Output: sRGB standard device; no separation, D65, page 6/29

TUB-test chart RE12; hue code: $H^*_e=B00R_e$
Test chart according to DIN 33872, 3D=1, de=1, sRGB*

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

see similar files: <http://130.149.60.45/~farbmeterik/RE12/RE12.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmeterik/>

TUV registration: 20130201-RE12/RE12LOFA.TXT /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$; Six hue angles of the device colours $RYGBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours $RYGBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Table 1. The angles of the three colours (red, green, blue) of the primary colour combinations.										Table 2. The angles of the elementary colours (red, green, blue).									
$\lambda_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^* dd361Mi	LAB^* dsx361Mi (x=LabCh)	rgb^* ds361Mi	LAB^* dsx361Mi (x=LabCh)	rgb^* dd361Mi	LAB^* dex361Mi (x=LabCh)	rgb^* dd361Mi	LAB^* dex361Mi (x=LabCh)	rgb^* dd361Mi	rgb^*_d	rgb^*_s	rgb^*_e					
82	75	75	1.0 0.75 0.0	77.2 9.8 79.7 80.4 82	1.0 0.667 0.0	72.5 20.6 77.0 79.7 75	1.0 0.75 0.0	1.0 0.673 0.0	72.8 19.8 77.3 79.8 75	1.0 0.75 0.0	1.0 0.75 0.0								
84	76	76	1.0 0.766 0.0	78.2 7.8 80.6 81.0 84	1.0 0.677 0.0	73.1 19.3 77.4 79.8 76	1.0 0.767 0.0	1.0 0.685 0.0	73.5 18.3 77.7 79.9 76	1.0 0.767 0.0									
85	77	77	1.0 0.783 0.0	79.2 5.8 81.4 81.7 85	1.0 0.688 0.0	73.7 18.0 77.8 79.9 77	1.0 0.783 0.0	1.0 0.696 0.0	74.2 16.9 78.2 80.0 77	1.0 0.783 0.0									
87	78	78	1.0 0.8 0.0	80.2 3.8 82.2 82.3 87	1.0 0.698 0.0	74.3 16.6 78.2 80.0 78	1.0 0.8 0.0	1.0 0.708 0.0	74.8 15.3 78.6 80.1 78	1.0 0.8 0.0									
88	79	80	1.0 0.816 0.0	81.2 1.7 82.9 83.0 88	1.0 0.708 0.0	74.9 15.3 78.6 80.1 79	1.0 0.817 0.0	1.0 0.72 0.0	75.5 13.8 78.9 80.1 80	1.0 0.817 0.0									
90	80	81	1.0 0.833 0.0	82.2 -0.3 83.6 83.6 90	1.0 0.719 0.0	75.5 13.9 78.9 80.1 80	1.0 0.833 0.0	1.0 0.731 0.0	76.2 12.3 79.3 80.2 81	1.0 0.833 0.0									
91	81	82	1.0 0.85 0.0	83.3 -2.5 84.2 84.3 91	1.0 0.729 0.0	76.1 12.6 79.2 80.2 81	1.0 0.85 0.0	1.0 0.743 0.0	76.8 10.8 79.6 80.3 82	1.0 0.85 0.0									
93	82	83	1.0 0.866 0.0	84.3 -4.6 84.8 84.9 93	1.0 0.74 0.0	76.7 11.2 79.5 80.3 82	1.0 0.867 0.0	1.0 0.755 0.0	77.5 9.3 80.1 80.6 83	1.0 0.867 0.0									
94	83	84	1.0 0.883 0.0	85.3 -6.7 85.5 85.8 94	1.0 0.75 0.0	77.3 9.8 79.8 80.4 83	1.0 0.883 0.0	1.0 0.768 0.0	78.3 7.8 80.7 81.1 84	1.0 0.883 0.0									
95	84	85	1.0 0.9 0.0	86.3 -8.5 86.4 86.8 95	1.0 0.762 0.0	78.0 8.5 80.4 80.9 84	1.0 0.9 0.0	1.0 0.78 0.0	79.1 6.2 81.4 81.6 85	1.0 0.9 0.0									
96	85	86	1.0 0.916 0.0	87.4 -10.5 87.2 87.8 96	1.0 0.773 0.0	78.7 7.1 81.0 81.3 85	1.0 0.917 0.0	1.0 0.793 0.0	79.9 4.7 82.0 82.1 86	1.0 0.917 0.0									
98	86	87	1.0 0.933 0.0	88.4 -12.4 88.0 88.9 98	1.0 0.785 0.0	79.3 5.7 81.6 81.8 86	1.0 0.933 0.0	1.0 0.806 0.0	80.6 3.1 82.5 82.6 87	1.0 0.933 0.0									
99	87	88	1.0 0.95 0.0	89.5 -14.4 88.7 89.9 99	1.0 0.796 0.0	80.0 4.3 82.1 82.2 87	1.0 0.95 0.0	1.0 0.819 0.0	81.4 1.5 83.1 83.1 88	1.0 0.95 0.0									
100	88	90	1.0 0.966 0.0	90.5 -16.5 89.4 91.0 100	1.0 0.808 0.0	80.7 2.9 82.6 82.7 88	1.0 0.967 0.0	1.0 0.831 0.0	82.2 0.0 83.6 83.6 90	1.0 0.967 0.0									
101	89	91	1.0 0.983 0.0	91.6 -18.5 90.1 92.0 101	1.0 0.819 0.0	81.4 1.5 83.1 83.1 89	1.0 0.983 0.0	1.0 0.844 0.0	83.0 -1.7 84.1 84.1 91	1.0 0.983 0.0									
102	90	92	1.0 1.0 0.0	92.6 -20.7 90.7 93.0 102	Y_d 1.0 0.831 0.0	82.1 0.0 83.5 83.5 90	Y_s 1.0 1.0 0.0	1.0 0.857 0.0	83.7 -3.3 84.5 84.6 92	Y_e 1.0 1.0 0.0									
103	91	93	0.983 1.0 0.0	92.3 -22.3 90.5 93.2 103	1.0 0.842 0.0	82.8 -1.4 84.0 84.0 91	0.983 1.0 0.0	1.0 0.87 0.0	84.5 -5.1 84.9 85.1 93	0.983 1.0 0.0									
104	92	94	0.966 1.0 0.0	92.0 -24.0 90.2 93.3 104	1.0 0.853 0.0	83.5 -2.8 84.4 84.4 92	0.967 1.0 0.0	1.0 0.886 0.0	85.5 -6.9 85.7 85.9 94	0.967 1.0 0.0									
105	93	95	0.95 1.0 0.0	91.7 -25.6 89.9 93.5 105	1.0 0.865 0.0	84.2 -4.3 84.8 84.9 93	0.95 1.0 0.0	1.0 0.902 0.0	86.5 -8.7 86.5 87.0 95	0.95 1.0 0.0									
106	94	96	0.933 1.0 0.0	91.4 -27.3 89.5 93.6 106	1.0 0.877 0.0	84.9 -5.9 85.2 85.4 94	0.933 1.0 0.0	1.0 0.918 0.0	87.5 -10.6 87.3 88.0 96	0.933 1.0 0.0									
108	95	98	0.916 1.0 0.0	91.1 -28.9 89.1 93.7 108	1.0 0.891 0.0	85.8 -7.4 85.9 86.3 95	0.917 1.0 0.0	1.0 0.934 0.0	88.5 -12.5 88.1 89.0 98	0.917 1.0 0.0									
109	96	99	0.9 1.0 0.0	90.8 -30.6 88.7 93.9 109	1.0 0.904 0.0	86.7 -9.0 86.6 87.1 96	0.9 1.0 0.0	1.0 0.951 0.0	89.6 -14.4 88.8 90.0 99	0.9 1.0 0.0									
110	97	100	0.883 1.0 0.0	90.5 -32.2 88.3 94.0 110	1.0 0.918 0.0	87.5 -10.6 87.3 88.0 97	0.883 1.0 0.0	1.0 0.967 0.0	90.6 -16.4 89.5 91.0 100	0.883 1.0 0.0									
111	98	101	0.866 1.0 0.0	90.3 -33.8 88.0 94.3 111	1.0 0.932 0.0	88.4 -12.3 88.0 88.9 98	0.867 1.0 0.0	1.0 0.983 0.0	91.6 -18.5 90.1 92.0 101	0.867 1.0 0.0									
111	99	102	0.85 1.0 0.0	90.0 -35.4 87.7 94.6 111	1.0 0.946 0.0	89.3 -13.9 88.6 89.7 99	0.85 1.0 0.0	1.0 0.999 0.0	92.6 -20.5 90.7 93.0 102	0.85 1.0 0.0									
112	100	103	0.833 1.0 0.0	89.8 -37.0 87.5 95.0 112	1.0 0.96 0.0	90.2 -15.6 89.2 90.6 100	0.833 1.0 0.0	0.982 1.0 0.0	92.3 -22.4 90.5 93.2 103	0.833 1.0 0.0									
113	101	105	0.816 1.0 0.0	89.5 -38.6 87.2 95.4 113	1.0 0.974 0.0	91.0 -17.4 89.8 91.5 101	0.817 1.0 0.0	0.963 1.0 0.0	92.0 -24.3 90.2 93.4 105	0.817 1.0 0.0									
114	102	106	0.8 1.0 0.0	89.3 -40.1 86.9 95.7 114	1.0 0.988 0.0	91.9 -19.1 90.3 92.3 102	0.8 1.0 0.0	0.944 1.0 0.0	91.7 -26.1 89.8 93.6 106	0.8 1.0 0.0									
115	103	107	0.783 1.0 0.0	89.0 -41.7 86.6 96.1 115	0.998 1.0 0.0	92.6 -20.8 90.7 93.1 103	0.783 1.0 0.0	0.926 1.0 0.0	91.3 -28.0 89.4 93.7 107	0.783 1.0 0.0									
116	104	108	0.766 1.0 0.0	88.7 -43.3 86.2 96.5 116	0.981 1.0 0.0	92.3 -22.5 90.5 93.2 104	0.767 1.0 0.0	0.907 1.0 0.0	91.0 -29.9 89.0 93.9 108	0.767 1.0 0.0									
117	105	109	0.75 1.0 0.0	88.5 -44.9 85.8 96.8 117	0.965 1.0 0.0	92.0 -24.1 90.2 93.4 105	0.75 1.0 0.0	0.888 1.0 0.0	90.7 -31.7 88.5 94.0 109	0.75 1.0 0.0									
118	106	110	0.733 1.0 0.0	88.3 -46.3 85.6 97.4 118	0.949 1.0 0.0	91.8 -25.7 89.9 93.5 106	0.733 1.0 0.0	0.868 1.0 0.0	90.3 -33.6 88.0 94.3 110	0.733 1.0 0.0									
119	107	112	0.716 1.0 0.0	88.1 -47.8 85.4 97.9 119	0.933 1.0 0.0	91.5 -27.3 89.6 93.6 107	0.717 1.0 0.0	0.848 1.0 0.0	90.0 -35.6 87.8 94.7 112	0.717 1.0 0.0									
120	108	113	0.7 1.0 0.0	87.9 -49.2 85.2 98.4 120	0.917 1.0 0.0	91.2 -28.9 89.2 93.8 108	0.7 1.0 0.0	0.827 1.0 0.0	89.7 -37.5 87.4 95.2 113	0.7 1.0 0.0									
120	109	114	0.683 1.0 0.0	87.6 -50.7 84.9 98.9 120	0.901 1.0 0.0	90.9 -30.5 88.8 93.9 109	0.683 1.0 0.0	0.806 1.0 0.0	89.4 -39.5 87.1 95.7 114	0.683 1.0 0.0									
121	110	115	0.666 1.0 0.0	87.4 -52.1 84.7 99.4 121	0.884 1.0 0.0	90.6 -32.1 88.4 94.1 110	0.667 1.0 0.0	0.786 1.0 0.0	89.1 -41.5 86.7 96.1 115	0.667 1.0 0.0									
122	111	116	0.65 1.0 0.0	87.2 -53.6 84.4 100.0 122	0.868 1.0 0.0	90.3 -33.7 88.0 94.3 111	0.65 1.0 0.0	0.765 1.0 0.0	88.8 -43.4 86.2 96.6 116	0.65 1.0 0.0									
123	112	117	0.633 1.0 0.0	87.0 -55.0 84.1 100.5 123	0.85 1.0 0.0	90.1 -35.4 87.8 94.7 112	0.633 1.0 0.0	0.743 1.0 0.0	88.5 -45.4 85.8 97.1 117	0.633 1.0 0.0									
123	113	119	0.616 1.0 0.0	86.8 -56.4 83.8 101.0 123	0.832 1.0 0.0	89.8 -37.1 87.5 95.1 113	0.617 1.0 0.0	0.719 1.0 0.0	88.2 -47.5 85.5 97.9 119	0.617 1.0 0.0									
124	114	120	0.6 1.0 0.0	86.7 -57.6 83.7 101.6 124	0.814 1.0 0.0	89.5 -38.7 87.2 95.5 114	0.6 1.0 0.0	0.695 1.0 0.0	87.8 -49.6 85.2 98.6 120	0.6 1.0 0.0									
125	115	121	0.583 1.0 0.0	86.5 -58.9 83.5 102.2 125	0.797 1.0 0.0	89.3 -40.4 86.9 95.9 115	0.583 1.0 0.0	0.67 1.0 0.0	87.5 -51.7 84.8 99.4 121	0.583 1.0 0.0									
125	116	122	0.566 1.0 0.0	86.3 -60.1 83.3 102.8 125	0.779 1.0 0.0	89.0 -42.1 86.5 96.3 116	0.567 1.0 0.0	0.646 1.0 0.0	87.2 -53.9 84.4 100.1 122	0.567 1.0 0.0									
126	117	123	0.55 1.0 0.0	86.2 -61.4 83.1 103.3 126	0.761 1.0 0.0	88.7 -43.8 86.1 96.6 117	0.55 1.0 0.0	0.621 1.0 0.0	86.9 -56.0 83.9 100.9 123	0.55 1.0 0.0									
127	118	124	0.533 1.0 0.0	86.0 -62.7 82.9 103.9 127	0.742 1.0 0.0	88.4 -45.5 85.8 97.1 118	0.533 1.0 0.0	0.59 1.0 0.0	86.6 -58.3 83.6 102.0 124	0.533 1.0 0.0									
127	119	126	0.516 1.0 0.0	85.8 -63.9 82.6 104.5 127	0.721 1.0 0.0	88.2 -47.3 85.5 97.8 119	0.517 1.0 0.0	0.56 1.0 0.0	86.3 -60.6 83.3 103.1 126	0.517 1.0 0.0									
128	120	127	0.5 1.0 0.0	85.7 -65.2 82.4 105.1 128	0.7 1.0 0.0	87.9 -49.1 85.3 98.4 120	0.5 1.0 0.0	0.529 1.0 0.0	86.0 -62.9 82.9 104.1 127	0.5 1.0 0.0									

1-113630-L0	RE120-73	LAB*la0, YN=0%, XYZnw=0.0, 0.0, 0.0, 84.2, 88.6, 96.5, LAB*nw=0.0, 0.0, 0.0, 95.4, 0.0, 0.0
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TUB-test chart RE12; hue code: $H^*_e=B00R_e$
48 step hue circles; *rgb-LabCh** tables

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

Output: sRGB standard device; no separation, D65, page 7/29

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM _s : h _{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0; Six hue angles of the device colours RYGBCM _d : h _{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2; Six hue angles of the elementary colours RYGBM _e : h _{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6																										
h _{ab,d}	h _{ab,s}	h _{ab,e}	rgb* dd361M	LAB* ddx361Mi (x=LabCh)	rgb* ds361Mi	LAB* dsx361Mi (x=LabCh)	rgb* dd361Mi	LAB* dex361Mi (x=LabCh)	rgb* dd361Mi	LAB* dex361Mi (x=LabCh)	rgb* dd361Mi															
128	120	127	0.5	1.0	0.0	85.7	-65.2 82.4	105.1 128	0.7	1.0	0.0	87.9	-49.1 85.3	98.4 120	0.5	1.0	0.0	0.529	1.0	0.0	86.0	-62.9 82.9	104.1 127	0.5	1.0	0.0
128	121	128	0.483	1.0	0.0	85.5	-66.2 82.3	105.6 128	0.68	1.0	0.0	87.7	-50.9 84.9	99.1 121	0.483	1.0	0.0	0.498	1.0	0.0	85.7	-65.3 82.4	105.2 128	0.483	1.0	0.0
129	122	129	0.466	1.0	0.0	85.4	-67.2 82.1	106.1 129	0.659	1.0	0.0	87.4	-52.8 84.6	99.7 122	0.467	1.0	0.0	0.456	1.0	0.0	85.4	-67.8 82.1	106.5 129	0.467	1.0	0.0
129	123	130	0.45	1.0	0.0	85.3	-68.2 82.0	106.7 129	0.638	1.0	0.0	87.1	-54.6 84.2	100.4 123	0.45	1.0	0.0	0.414	1.0	0.0	85.1	-70.3 81.7	107.9 130	0.45	1.0	0.0
130	124	131	0.433	1.0	0.0	85.2	-69.2 81.8	107.2 130	0.615	1.0	0.0	86.9	-56.5 83.9	101.1 124	0.433	1.0	0.0	0.372	1.0	0.0	84.7	-72.9 81.3	109.2 131	0.433	1.0	0.0
130	125	133	0.416	1.0	0.0	85.0	-70.2 81.7	107.8 130	0.589	1.0	0.0	86.6	-58.4 83.6	102.1 125	0.417	1.0	0.0	0.309	1.0	0.0	84.4	-75.6 80.9	110.8 133	0.417	1.0	0.0
131	126	134	0.4	1.0	0.0	84.9	-71.3 81.5	108.3 131	0.562	1.0	0.0	86.3	-60.4 83.3	103.0 126	0.4	1.0	0.0	0.244	1.0	0.0	84.1	-78.3 80.5	112.4 134	0.4	1.0	0.0
131	127	135	0.383	1.0	0.0	84.8	-72.3 81.3	108.8 131	0.536	1.0	0.0	86.1	-62.4 83.0	103.9 127	0.383	1.0	0.0	0.132	1.0	0.0	83.8	-81.2 80.1	114.1 135	0.383	1.0	0.0
132	128	136	0.366	1.0	0.0	84.7	-73.2 81.2	109.3 132	0.51	1.0	0.0	85.8	-64.4 82.6	104.8 128	0.367	1.0	0.0	0.0	1.0	0.073	83.7	-82.3 78.0	113.5 136	0.367	1.0	0.0
132	129	137	0.35	1.0	0.0	84.6	-73.9 81.1	109.7 132	0.477	1.0	0.0	85.5	-66.5 82.3	105.8 129	0.35	1.0	0.0	0.0	1.0	0.165	83.7	-81.6 74.2	110.4 137	0.35	1.0	0.0
132	130	138	0.333	1.0	0.0	84.5	-74.6 81.0	110.1 132	0.442	1.0	0.0	85.3	-68.7 82.0	107.0 130	0.333	1.0	0.0	0.0	1.0	0.227	83.8	-80.8 70.5	107.3 138	0.333	1.0	0.0
132	131	140	0.316	1.0	0.0	84.4	-75.3 80.9	110.6 132	0.406	1.0	0.0	85.0	-70.9 81.6	108.1 131	0.317	1.0	0.0	0.0	1.0	0.273	83.8	-80.0 67.0	104.5 140	0.317	1.0	0.0
133	132	141	0.3	1.0	0.0	84.3	-76.0 80.8	111.0 133	0.368	1.0	0.0	84.7	-73.1 81.2	109.3 132	0.3	1.0	0.0	0.0	1.0	0.311	83.9	-79.3 63.7	101.8 141	0.3	1.0	0.0
133	133	142	0.283	1.0	0.0	84.2	-76.8 80.7	111.4 133	0.314	1.0	0.0	84.5	-75.4 80.9	110.7 133	0.283	1.0	0.0	0.0	1.0	0.349	84.0	-78.4 60.4	99.0 142	0.283	1.0	0.0
133	134	143	0.266	1.0	0.0	84.2	-77.5 80.6	111.8 133	0.261	1.0	0.0	84.2	-77.7 80.6	112.0 134	0.267	1.0	0.0	0.0	1.0	0.383	84.0	-77.5 57.3	96.4 143	0.267	1.0	0.0
134	135	144	0.25	1.0	0.0	84.1	-78.2 80.5	112.2 134	0.173	1.0	0.0	83.9	-80.2 80.3	113.5 135	0.25	1.0	0.0	0.0	1.0	0.41	84.1	-76.8 54.3	94.1 144	0.25	1.0	0.0
134	136	145	0.233	1.0	0.0	84.0	-78.7 80.4	112.5 134	0.004	1.0	0.0	83.6	-82.6 79.9	115.0 136	0.233	1.0	0.0	0.0	1.0	0.437	84.2	-75.9 51.5	91.8 145	0.233	1.0	0.0
134	137	147	0.216	1.0	0.0	84.0	-79.1 80.4	112.8 134	0.0	1.0	0.125	83.7	-82.1 76.6	112.3 137	0.217	1.0	0.0	0.0	1.0	0.464	84.2	-75.0 48.7	89.5 147	0.217	1.0	0.0
134	138	148	0.2	1.0	0.0	83.9	-79.5 80.3	113.0 134	0.0	1.0	0.178	83.7	-81.4 73.4	109.7 138	0.2	1.0	0.0	0.0	1.0	0.491	84.3	-74.1 45.9	87.2 148	0.2	1.0	0.0
134	139	149	0.183	1.0	0.0	83.9	-79.9 80.2	113.3 134	0.0	1.0	0.231	83.8	-80.7 70.3	107.1 139	0.183	1.0	0.0	0.0	1.0	0.513	84.4	-73.3 43.4	85.2 149	0.183	1.0	0.0
135	140	150	0.166	1.0	0.0	83.8	-80.4 80.2	113.5 135	0.0	1.0	0.271	83.8	-80.1 67.3	104.7 140	0.167	1.0	0.0	0.0	1.0	0.533	84.5	-72.5 41.0	83.4 150	0.167	1.0	0.0
135	141	151	0.15	1.0	0.0	83.8	-80.8 80.1	113.8 135	0.0	1.0	0.303	83.9	-79.4 64.4	102.3 141	0.15	1.0	0.0	0.0	1.0	0.553	84.5	-71.7 38.6	81.6 151	0.15	1.0	0.0
135	142	152	0.133	1.0	0.0	83.7	-81.2 80.1	114.1 135	0.0	1.0	0.335	83.9	-78.7 61.6	100.0 142	0.133	1.0	0.0	0.0	1.0	0.573	84.6	-70.9 36.3	79.8 152	0.133	1.0	0.0
135	143	154	0.116	1.0	0.0	83.7	-81.5 80.0	114.2 135	0.0	1.0	0.368	84.0	-77.9 58.8	97.7 143	0.117	1.0	0.0	0.0	1.0	0.593	84.7	-70.0 34.1	77.9 154	0.117	1.0	0.0
135	144	155	0.1	1.0	0.0	83.7	-81.7 80.0	114.4 135	0.0	1.0	0.393	84.1	-77.3 56.2	95.6 144	0.1	1.0	0.0	0.0	1.0	0.614	84.7	-69.0 31.9	76.1 155	0.1	1.0	0.0
135	145	156	0.083	1.0	0.0	83.7	-81.9 80.0	114.5 135	0.0	1.0	0.416	84.1	-76.6 53.7	93.6 145	0.083	1.0	0.0	0.0	1.0	0.631	84.8	-68.2 29.8	74.5 156	0.083	1.0	0.0
135	146	157	0.066	1.0	0.0	83.7	-82.0 79.9	114.6 135	0.0	1.0	0.439	84.2	-75.9 51.3	91.7 146	0.067	1.0	0.0	0.0	1.0	0.646	84.9	-67.5 27.9	73.2 157	0.067	1.0	0.0
135	147	158	0.049	1.0	0.0	83.6	-82.2 79.9	114.7 135	0.0	1.0	0.462	84.2	-75.1 48.8	89.7 147	0.05	1.0	0.0	0.0	1.0	0.661	85.0	-66.9 26.1	71.9 158	0.05	1.0	0.0
135	148	159	0.033	1.0	0.0	83.6	-82.4 79.9	114.8 135	0.0	1.0	0.485	84.3	-74.3 46.5	87.7 148	0.033	1.0	0.0	0.0	1.0	0.676	85.0	-66.2 24.3	70.6 159	0.033	1.0	0.0
135	149	161	0.016	1.0	0.0	83.6	-82.6 79.9	114.9 135	0.0	1.0	0.506	84.4	-73.5 44.2	85.9 149	0.017	1.0	0.0	0.0	1.0	0.691	85.1	-65.4 22.5	69.2 161	0.017	1.0	0.0
136	150	162	0.0	1.0	0.0	83.6	-82.7 79.8	115.0 136	G _d 0.0	1.0	0.523	84.4	-72.9 42.1	84.3 150	G _s 0.0	1.0	0.0	0.0	1.0	0.706	85.2	-64.6 20.7	67.9 162	G _e 0.0	1.0	0.0
136	151	163	0.0	1.0	0.016	83.6	-82.7 79.4	114.6 136	0.0	1.0	0.541	84.5	-72.3 40.1	82.7 151	0.0	1.0	0.017	0.0	1.0	0.718	85.2	-63.9 19.4	66.9 163	0.0	1.0	0.017
136	152	164	0.0	1.0	0.033	83.6	-82.6 79.0	114.3 136	0.0	1.0	0.558	84.5	-71.6 38.1	81.2 152	0.0	1.0	0.033	0.0	1.0	0.73	85.3	-63.2 18.1	65.9 164	0.0	1.0	0.033
136	153	164	0.0	1.0	0.05	83.6	-82.5 78.5	113.9 136	0.0	1.0	0.575	84.6	-70.8 36.1	79.6 153	0.0	1.0	0.05	0.0	1.0	0.741	85.3	-62.5 16.8	64.8 164	0.0	1.0	0.05
136	154	165	0.0	1.0	0.066	83.6	-82.4 78.1	113.5 136	0.0	1.0	0.592	84.7	-70.0 34.2	78.0 154	0.0	1.0	0.067	0.0	1.0	0.752	85.4	-61.9 15.6	63.9 165	0.0	1.0	0.067
136	155	166	0.0	1.0	0.083	83.6	-82.3 77.6	113.2 136	0.0	1.0	0.61	84.7	-69.2 32.3	76.5 155	0.0	1.0	0.083	0.0	1.0	0.761	85.4	-61.5 14.5	63.2 166	0.0	1.0	0.083
136	156	167	0.0	1.0	0.1	83.6	-82.2 77.2	112.8 136	0.0	1.0	0.626	84.8	-68.4 30.5	74.9 156	0.0	1.0	0.1	0.0	1.0	0.77	85.5	-61.1 13.3	62.6 167	0.0	1.0	0.1
136	157	168	0.0	1.0	0.116	83.6	-82.1 76.8	112.5 136	0.0	1.0	0.639	84.9	-67.8 28.8	73.8 157	0.0	1.0	0.117	0.0	1.0	0.778	85.5	-60.6 12.2	61.9 168	0.0	1.0	0.117
137	158	169	0.0	1.0	0.133	83.6	-82.0 76.0	111.9 137	0.0	1.0	0.652	84.9	-67.3 27.2	72.7 158	0.0	1.0	0.133	0.0	1.0	0.787	85.6	-60.2 11.1	61.3 169	0.0	1.0	0.133
137	159	170	0.0	1.0	0.15	83.7	-81.8 75.0	111.0 137	0.0	1.0	0.665	85.0	-66.7 25.6	71.6 159	0.0	1.0	0.15	0.0	1.0	0.795	85.6	-59.7 10.1	60.6 170	0.0	1.0	0.15
137	160	171	0.0	1.0	0.166	83.7	-81.6 74.0	110.2 137	0.0	1.0	0.678	85.0	-66.1 24.1	70.4 160	0.0	1.0	0.167	0.0	1.0	0.804	85.7	-59.2 9.0	60.0 171	0.0	1.0	0.167
138	161	172	0.0	1.0	0.183	83.7	-81.4 73.0	109.4 138	0.0	1.0	0.691	85.1	-65.4 22.6	69.3 161	0.0	1.0	0.183	0.0	1.0	0.813	85.7	-58.7 8.0	59.3 172	0.0	1.0	0.183
138	162	173	0.0	1.0	0.2	83.7	-81.2 72.0	108.6 138	0.0	1.0	0.703	85.1	-64.7 21.1	68.2 162	0.0	1.0	0.2	0.0	1.0	0.821	85.8	-58.1 7.0	58.7 173	0.0	1.0	0.2
138	163	174	0.0	1.0	0.216	83.7	-81.0 71.1	107.8 138	0.0	1.0	0.716	85.2	-64.0 19.6	67.0 163	0.0	1.0	0.217	0.0	1.0	0.83	85.8	-57.6 6.0	58.0 174	0.0	1.0	

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours <i>RYGBM_s</i> : <i>h_{ab,ds}</i> = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0; Six hue angles of the device colours <i>RYGBM_d</i> : <i>h_{ab,d}</i> = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2; Six hue angles of the elementary colours <i>RYGBM_e</i> : <i>h_{ab,e}</i> = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6																	
<i>h_{ab,d}</i>	<i>h_{ab,s}</i>	<i>h_{ab,e}</i>	<i>rgb*_{dd361M}</i>	<i>LAB*_{ddx361Mi}</i> (x=LabCh)	<i>rgb*_{ds361Mi}</i>	<i>LAB*_{dsx361Mi}</i> (x=LabCh)	<i>rgb*_{dd361Mi}</i>	<i>rgb*_{de361Mi}</i>	<i>LAB*_{dex361Mi}</i> (x=LabCh)	<i>rgb*_{dd361Mi}</i>	<i>rgb*_{de361Mi}</i>	<i>LAB*_{dex361Mi}</i> (x=LabCh)	<i>rgb*_{dd361Mi}</i>	<i>rgb*_{de361Mi}</i>	<i>LAB*_{dex361Mi}</i> (x=LabCh)	<i>rgb*_{dd361Mi}</i>	<i>rgb*_{de361Mi}</i>
139	165	175	0.0	1.0	0.25	83.8	-80.5	69.1	106.1	139	0.0	1.0	0.25	83.8	-80.5	69.1	106.1
139	166	176	0.0	1.0	0.266	83.8	-80.2	67.6	104.9	139	0.0	1.0	0.267	83.8	-80.2	67.6	104.9
140	167	177	0.0	1.0	0.283	83.8	-79.9	66.1	103.7	140	0.0	1.0	0.283	83.8	-79.9	66.1	103.7
140	168	178	0.0	1.0	0.3	83.8	-79.6	64.6	102.5	140	0.0	1.0	0.3	83.8	-79.6	64.6	102.5
141	169	179	0.0	1.0	0.316	83.9	-79.2	63.1	101.3	141	0.0	1.0	0.317	83.9	-79.2	63.1	101.3
141	170	180	0.0	1.0	0.333	83.9	-78.8	61.7	100.1	141	0.0	1.0	0.333	83.9	-78.8	61.7	100.1
142	171	181	0.0	1.0	0.35	83.9	-78.4	60.2	98.9	142	0.0	1.0	0.35	83.9	-78.4	60.2	98.9
142	172	182	0.0	1.0	0.366	84.0	-78.0	58.8	97.7	142	0.0	1.0	0.367	84.0	-78.0	58.8	97.7
143	173	183	0.0	1.0	0.383	84.0	-77.6	57.2	96.4	143	0.0	1.0	0.383	84.0	-77.6	57.2	96.4
144	174	184	0.0	1.0	0.4	84.0	-77.1	55.4	94.9	144	0.0	1.0	0.4	84.0	-77.1	55.4	94.9
145	175	185	0.0	1.0	0.416	84.1	-76.6	53.6	93.5	145	0.0	1.0	0.417	84.1	-76.6	53.6	93.5
145	176	185	0.0	1.0	0.433	84.1	-76.1	51.8	92.1	145	0.0	1.0	0.433	84.1	-76.1	51.8	92.1
146	177	186	0.0	1.0	0.45	84.2	-75.6	50.0	90.6	146	0.0	1.0	0.45	84.2	-75.6	50.0	90.6
147	178	187	0.0	1.0	0.466	84.2	-75.0	48.3	89.2	147	0.0	1.0	0.467	84.2	-75.0	48.3	89.2
147	179	188	0.0	1.0	0.483	84.3	-74.4	46.6	87.8	147	0.0	1.0	0.483	84.3	-74.4	46.6	87.8
148	180	189	0.0	1.0	0.5	84.3	-73.7	44.9	86.4	148	0.0	1.0	0.5	84.3	-73.7	44.9	86.4
149	181	190	0.0	1.0	0.516	84.4	-73.2	42.9	84.8	149	0.0	1.0	0.517	84.4	-73.2	42.9	84.8
150	182	191	0.0	1.0	0.533	84.4	-72.6	40.9	83.3	150	0.0	1.0	0.533	84.4	-72.6	40.9	83.3
151	183	192	0.0	1.0	0.55	84.5	-71.9	39.0	81.8	151	0.0	1.0	0.55	84.5	-71.9	39.0	81.8
152	184	193	0.0	1.0	0.566	84.5	-71.2	37.0	80.3	152	0.0	1.0	0.567	84.5	-71.2	37.0	80.3
153	185	194	0.0	1.0	0.583	84.6	-70.5	35.2	78.8	153	0.0	1.0	0.583	84.6	-70.5	35.2	78.8
154	186	195	0.0	1.0	0.6	84.6	-69.7	33.3	77.3	154	0.0	1.0	0.6	84.6	-69.7	33.3	77.3
155	187	195	0.0	1.0	0.616	84.7	-68.9	31.5	75.8	155	0.0	1.0	0.617	84.7	-68.9	31.5	75.8
156	188	196	0.0	1.0	0.633	84.8	-68.1	29.5	74.3	156	0.0	1.0	0.633	84.8	-68.1	29.5	74.3
157	189	197	0.0	1.0	0.65	84.8	-67.4	27.4	72.8	157	0.0	1.0	0.65	84.8	-67.4	27.4	72.8
159	190	198	0.0	1.0	0.666	84.9	-66.7	25.4	71.3	159	0.0	1.0	0.667	84.9	-66.7	25.4	71.3
160	191	199	0.0	1.0	0.683	85.0	-65.8	23.4	69.9	160	0.0	1.0	0.683	85.0	-65.8	23.4	69.9
161	192	200	0.0	1.0	0.7	85.1	-65.0	21.4	68.4	161	0.0	1.0	0.7	85.1	-65.0	21.4	68.4
163	193	201	0.0	1.0	0.716	85.2	-64.0	19.5	67.0	163	0.0	1.0	0.717	85.2	-64.0	19.5	67.0
164	194	202	0.0	1.0	0.733	85.2	-63.1	17.6	65.5	164	0.0	1.0	0.733	85.2	-63.1	17.6	65.5
165	195	203	0.0	1.0	0.75	85.3	-62.0	15.9	64.0	165	0.0	1.0	0.75	85.3	-62.0	15.9	64.0
167	196	204	0.0	1.0	0.766	85.4	-61.2	13.7	62.8	167	0.0	1.0	0.767	85.4	-61.2	13.7	62.8
169	197	205	0.0	1.0	0.783	85.5	-60.4	11.5	61.5	169	0.0	1.0	0.783	85.5	-60.4	11.5	61.5
170	198	206	0.0	1.0	0.8	85.6	-59.5	9.5	60.2	170	0.0	1.0	0.8	85.6	-59.5	9.5	60.2
172	199	206	0.0	1.0	0.816	85.7	-58.5	7.5	59.0	172	0.0	1.0	0.817	85.7	-58.5	7.5	59.0
174	200	207	0.0	1.0	0.833	85.8	-57.4	5.5	57.7	174	0.0	1.0	0.833	85.8	-57.4	5.5	57.7
176	201	208	0.0	1.0	0.85	85.9	-56.3	3.7	56.4	176	0.0	1.0	0.85	85.9	-56.3	3.7	56.4
177	202	209	0.0	1.0	0.866	86.0	-55.1	1.9	55.2	177	0.0	1.0	0.867	86.0	-55.1	1.9	55.2
180	203	210	0.0	1.0	0.883	86.1	-54.1	0.0	54.1	180	0.0	1.0	0.883	86.1	-54.1	0.0	54.1
182	204	211	0.0	1.0	0.9	86.2	-53.2	-2.1	53.2	182	0.0	1.0	0.9	86.2	-53.2	-2.1	53.2
184	205	212	0.0	1.0	0.916	86.3	-52.2	-4.2	52.4	184	0.0	1.0	0.917	86.3	-52.2	-4.2	52.4
187	206	213	0.0	1.0	0.933	86.4	-51.1	-6.3	51.5	187	0.0	1.0	0.933	86.4	-51.1	-6.3	51.5
189	207	214	0.0	1.0	0.95	86.5	-50.0	-8.2	50.7	189	0.0	1.0	0.95	86.5	-50.0	-8.2	50.7
191	208	215	0.0	1.0	0.966	86.6	-48.8	-10.1	49.8	191	0.0	1.0	0.967	86.6	-48.8	-10.1	49.8
194	209	216	0.0	1.0	0.983	86.7	-47.5	-11.8	48.9	194	0.0	1.0	0.983	86.7	-47.5	-11.8	48.9
196	210	216	0.0	1.0	1.0	86.8	-46.1	-13.5	48.1	196	0.0	1.0	1.0	86.8	-46.1	-13.5	48.1

1-113830-L0 RE120-73 LAB*la0, YN=0%, XYZnw=0.0, 0.0, 0.0, 84.2, 88.6, 96.5, LAB*nw=0.0, 0.0, 0.0, 95.4, 0.0, 0.0

TUB-test chart RE12; hue code: $H^*_e=B00R_e$
48 step hue circles; *rgb-LabCh**tables

input: *rgb/cmyk* -> *rgb_{de}*
output: 3D-linearization to *rgb*_{de}*

Output: sRGB standard device; no separation, D65, page 9/29

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours $RYGBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{ddx361Mi}(x=LabCh)$	C_d	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}(x=LabCh)$	$210C_s$	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi}(x=LabCh)$	$216C_e$	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}	
196	210	216	0.0	1.0	1.0	86.8	-46.1 -13.5 48.1	196	0.0	0.927	1.0	81.7	-38.6 -22.2 44.7	210	0.0	1.0	1.0
199	211	217	0.0	0.983	1.0	85.6	-44.6 -15.8 47.3	199	0.0	0.922	1.0	81.3	-38.0 -22.8 44.4	211	0.0	0.983	1.0
202	212	218	0.0	0.966	1.0	84.5	-42.9 -17.9 46.5	202	0.0	0.917	1.0	81.0	-37.3 -23.3 44.2	212	0.0	0.967	1.0
205	213	219	0.0	0.95	1.0	83.3	-41.1 -19.8 45.7	205	0.0	0.911	1.0	80.6	-36.7 -23.8 43.9	213	0.0	0.95	1.0
208	214	220	0.0	0.933	1.0	82.1	-39.3 -21.7 44.9	208	0.0	0.906	1.0	80.2	-36.1 -24.3 43.6	214	0.0	0.933	1.0
212	215	221	0.0	0.916	1.0	80.9	-37.4 -23.4 44.1	212	0.0	0.901	1.0	79.8	-35.4 -24.8 43.4	215	0.0	0.917	1.0
215	216	222	0.0	0.9	1.0	79.7	-35.4 -24.9 43.3	215	0.0	0.895	1.0	79.5	-34.8 -25.3 43.1	216	0.0	0.9	1.0
218	217	223	0.0	0.883	1.0	78.5	-33.4 -26.3 42.5	218	0.0	0.89	1.0	79.1	-34.1 -25.7 42.9	217	0.0	0.883	1.0
221	218	224	0.0	0.866	1.0	77.4	-31.5 -28.1 42.2	221	0.0	0.885	1.0	78.7	-33.5 -26.1 42.6	218	0.0	0.867	1.0
225	219	225	0.0	0.85	1.0	76.2	-29.9 -30.2 42.5	225	0.0	0.879	1.0	78.3	-32.8 -26.6 42.4	219	0.0	0.85	1.0
228	220	226	0.0	0.833	1.0	75.0	-28.1 -32.3 42.8	228	0.0	0.874	1.0	77.9	-32.2 -27.0 42.2	220	0.0	0.833	1.0
232	221	227	0.0	0.816	1.0	73.8	-26.1 -34.2 43.1	232	0.0	0.87	1.0	77.6	-31.8 -27.6 42.2	221	0.0	0.817	1.0
236	222	227	0.0	0.8	1.0	72.6	-24.0 -36.0 43.3	236	0.0	0.865	1.0	77.3	-31.3 -28.2 42.3	222	0.0	0.8	1.0
239	223	228	0.0	0.783	1.0	71.4	-21.8 -37.7 43.6	239	0.0	0.861	1.0	77.0	-30.9 -28.8 42.4	223	0.0	0.783	1.0
243	224	229	0.0	0.766	1.0	70.2	-19.5 -39.3 43.9	243	0.0	0.856	1.0	76.7	-30.4 -29.4 42.5	224	0.0	0.767	1.0
247	225	230	0.0	0.75	1.0	69.1	-17.0 -40.7 44.1	247	0.0	0.851	1.0	76.3	-30.0 -30.0 42.5	225	0.0	0.75	1.0
250	226	231	0.0	0.733	1.0	67.9	-15.3 -42.9 45.5	250	0.0	0.847	1.0	76.0	-29.5 -30.6 42.6	226	0.0	0.733	1.0
253	227	232	0.0	0.716	1.0	66.7	-13.5 -44.9 46.9	253	0.0	0.842	1.0	75.7	-29.0 -31.1 42.7	227	0.0	0.717	1.0
256	228	233	0.0	0.7	1.0	65.5	-11.4 -46.9 48.3	256	0.0	0.838	1.0	75.4	-28.5 -31.7 42.8	228	0.0	0.7	1.0
259	229	234	0.0	0.683	1.0	64.4	-9.2 -48.8 49.7	259	0.0	0.833	1.0	75.0	-28.0 -32.2 42.8	229	0.0	0.683	1.0
262	230	235	0.0	0.666	1.0	63.2	-6.8 -50.6 51.1	262	0.0	0.829	1.0	74.7	-27.5 -32.8 42.9	230	0.0	0.667	1.0
265	231	236	0.0	0.65	1.0	62.0	-4.2 -52.3 52.5	265	0.0	0.824	1.0	74.4	-26.9 -33.3 43.0	231	0.0	0.65	1.0
268	232	237	0.0	0.633	1.0	60.9	-1.5 -53.9 53.9	268	0.0	0.82	1.0	74.1	-26.4 -33.8 43.1	232	0.0	0.633	1.0
270	233	237	0.0	0.616	1.0	59.7	0.8 -55.6 55.7	270	0.0	0.815	1.0	73.7	-25.9 -34.3 43.1	233	0.0	0.617	1.0
272	234	238	0.0	0.6	1.0	58.6	2.9 -57.7 57.8	272	0.0	0.81	1.0	73.4	-25.3 -34.9 43.2	234	0.0	0.6	1.0
274	235	239	0.0	0.583	1.0	57.4	5.1 -59.7 59.9	274	0.0	0.806	1.0	73.1	-24.7 -35.4 43.3	235	0.0	0.583	1.0
276	236	240	0.0	0.566	1.0	56.3	7.4 -61.6 62.1	276	0.0	0.801	1.0	72.8	-24.1 -35.8 43.4	236	0.0	0.567	1.0
278	237	241	0.0	0.55	1.0	55.2	10.0 -63.6 64.2	278	0.0	0.797	1.0	72.4	-23.6 -36.3 43.4	237	0.0	0.55	1.0
280	238	242	0.0	0.533	1.0	54.0	12.6 -65.2 66.4	280	0.0	0.792	1.0	72.1	-23.0 -36.8 43.5	238	0.0	0.533	1.0
283	239	243	0.0	0.516	1.0	52.9	15.4 -66.8 68.5	283	0.0	0.788	1.0	71.8	-22.3 -37.2 43.6	239	0.0	0.517	1.0
285	240	244	0.0	0.5	1.0	51.7	18.3 -68.3 70.7	285	0.0	0.783	1.0	71.5	-21.7 -37.7 43.6	240	0.0	0.5	1.0
286	241	245	0.0	0.483	1.0	50.7	20.6 -70.2 73.2	286	0.0	0.779	1.0	71.1	-21.1 -38.1 43.7	241	0.0	0.483	1.0
287	242	246	0.0	0.466	1.0	49.6	22.9 -72.1 75.7	287	0.0	0.774	1.0	70.8	-20.5 -38.6 43.8	242	0.0	0.467	1.0
288	243	247	0.0	0.45	1.0	48.6	25.4 -74.0 78.2	288	0.0	0.769	1.0	70.5	-19.8 -39.0 43.9	243	0.0	0.45	1.0
290	244	248	0.0	0.433	1.0	47.5	28.0 -75.7 80.7	290	0.0	0.765	1.0	70.2	-19.2 -39.4 43.9	244	0.0	0.433	1.0
291	245	248	0.0	0.416	1.0	46.5	30.6 -77.4 83.2	291	0.0	0.76	1.0	69.8	-18.5 -39.8 44.0	245	0.0	0.417	1.0
292	246	249	0.0	0.4	1.0	45.4	33.3 -79.0 85.7	292	0.0	0.756	1.0	69.5	-17.8 -40.2 44.1	246	0.0	0.4	1.0
294	247	250	0.0	0.383	1.0	44.3	36.2 -80.5 88.2	294	0.0	0.751	1.0	69.2	-17.2 -40.6 44.2	247	0.0	0.383	1.0
295	248	251	0.0	0.366	1.0	43.4	38.7 -82.0 90.7	295	0.0	0.746	1.0	68.8	-16.6 -41.2 44.5	248	0.0	0.367	1.0
296	249	252	0.0	0.35	1.0	42.5	41.0 -83.6 93.2	296	0.0	0.74	1.0	68.4	-16.0 -41.9 45.0	249	0.0	0.35	1.0
296	250	253	0.0	0.333	1.0	41.6	43.4 -85.2 95.6	296	0.0	0.735	1.0	68.0	-15.4 -42.6 45.5	250	0.0	0.333	1.0
297	251	254	0.0	0.316	1.0	40.7	45.8 -86.7 98.1	297	0.0	0.729	1.0	67.7	-14.8 -43.3 45.9	251	0.0	0.317	1.0
298	252	255	0.0	0.3	1.0	39.8	48.2 -88.2 100.5	298	0.0	0.724	1.0	67.3	-14.2 -44.0 46.4	252	0.0	0.3	1.0
299	253	256	0.0	0.283	1.0	38.9	50.7 -89.6 103.0	299	0.0	0.718	1.0	66.9	-13.6 -44.7 46.8	253	0.0	0.283	1.0
300	254	257	0.0	0.266	1.0	38.0	53.3 -91.0 105.4	300	0.0	0.713	1.0	66.5	-12.9 -45.4 47.3	254	0.0	0.267	1.0
301	255	258	0.0	0.25	1.0	37.1	55.9 -92.3 107.9	301	0.0	0.707	1.0	66.1	-12.3 -46.0 47.8	255	0.0	0.25	1.0

1-113930-L0 RE120-73 LAB*la0, YN=0%, XYZnw=0.0, 0.0, 0.0, 84.2, 88.6, 96.5, LAB*nw=0.0, 0.0, 0.0, 95.4, 0.0, 0.0

Output: sRGB standard device; no separation, D65, page 10/29

TUB-test chart RE12; hue code: $H^*_e=B00R_e$
48 step hue circles; $rgb-LabCh$ *tables

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

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM$; $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;

Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^* dd361M	LAB^* ddx361Mi (x=LabCh)	rgb^* ds361Mi	LAB^* dsx361Mi (x=LabCh)	rgb^* dd361Mi	rgb^* de361Mi	LAB^* dex361Mi (x=LabCh)	rgb^* dd361Mi
301	255	258	0.0 0.25 1.0	37.1 55.9 -92.3 107.9 301	0.0 0.707 1.0	66.1 -12.3 -46.0 47.8 255	0.0 0.25 1.0	0.0 0.69 1.0	64.9 -10.1 -48.0 49.2 258	0.0 0.25 1.0
301	256	258	0.0 0.233 1.0	36.5 57.6 -93.4 109.7 301	0.0 0.702 1.0	65.7 -11.6 -46.7 48.2 256	0.0 0.233 1.0	0.0 0.685 1.0	64.6 -9.4 -48.6 49.6 258	0.0 0.233 1.0
302	257	259	0.0 0.216 1.0	35.9 59.4 -94.5 111.6 302	0.0 0.696 1.0	65.3 -10.9 -47.3 48.7 257	0.0 0.217 1.0	0.0 0.68 1.0	64.2 -8.7 -49.1 50.0 259	0.0 0.217 1.0
302	258	260	0.0 0.2 1.0	35.2 61.2 -95.5 113.5 302	0.0 0.691 1.0	64.9 -10.1 -48.0 49.1 258	0.0 0.2 1.0	0.0 0.675 1.0	63.8 -8.0 -49.7 50.4 260	0.0 0.2 1.0
303	259	261	0.0 0.183 1.0	34.6 63.0 -96.6 115.3 303	0.0 0.685 1.0	64.5 -9.4 -48.6 49.6 259	0.0 0.183 1.0	0.0 0.67 1.0	63.5 -7.2 -50.2 50.9 261	0.0 0.183 1.0
303	260	262	0.0 0.166 1.0	34.0 64.8 -97.6 117.2 303	0.0 0.679 1.0	64.2 -8.6 -49.2 50.1 260	0.0 0.167 1.0	0.0 0.665 1.0	63.1 -6.5 -50.8 51.3 262	0.0 0.167 1.0
304	261	263	0.0 0.15 1.0	33.4 66.7 -98.6 119.1 304	0.0 0.674 1.0	63.8 -7.8 -49.8 50.5 261	0.0 0.15 1.0	0.0 0.66 1.0	62.8 -5.7 -51.3 51.7 263	0.0 0.15 1.0
304	262	264	0.0 0.133 1.0	32.8 68.6 -99.6 120.9 304	0.0 0.668 1.0	63.4 -7.0 -50.4 51.0 262	0.0 0.133 1.0	0.0 0.655 1.0	62.4 -5.0 -51.8 52.1 264	0.0 0.133 1.0
304	263	265	0.0 0.116 1.0	32.3 70.0 -100.3 122.3 304	0.0 0.663 1.0	63.0 -6.2 -51.0 51.5 263	0.0 0.117 1.0	0.0 0.65 1.0	62.1 -4.2 -52.3 52.5 265	0.0 0.117 1.0
305	264	266	0.0 0.1 1.0	32.0 70.8 -100.8 123.2 305	0.0 0.657 1.0	62.6 -5.3 -51.5 51.9 264	0.0 0.1 1.0	0.0 0.645 1.0	61.7 -3.4 -52.8 53.0 266	0.0 0.1 1.0
305	265	267	0.0 0.083 1.0	31.7 71.7 -101.2 124.1 305	0.0 0.652 1.0	62.2 -4.5 -52.1 52.4 265	0.0 0.083 1.0	0.0 0.64 1.0	61.4 -2.5 -53.2 53.4 267	0.0 0.083 1.0
305	266	268	0.0 0.066 1.0	31.5 72.5 -101.7 124.9 305	0.0 0.646 1.0	61.8 -3.6 -52.6 52.8 266	0.0 0.067 1.0	0.0 0.635 1.0	61.0 -1.7 -53.7 53.8 268	0.0 0.067 1.0
305	267	269	0.0 0.049 1.0	31.2 73.4 -102.2 125.8 305	0.0 0.641 1.0	61.4 -2.7 -53.1 53.3 267	0.0 0.05 1.0	0.0 0.63 1.0	60.6 -0.8 -54.1 54.2 269	0.0 0.05 1.0
305	268	269	0.0 0.033 1.0	30.9 74.3 -102.6 126.7 305	0.0 0.635 1.0	61.0 -1.8 -53.6 53.8 268	0.0 0.033 1.0	0.0 0.624 1.0	60.3 0.0 -54.6 54.7 269	0.0 0.033 1.0
306	269	270	0.0 0.016 1.0	30.6 75.1 -103.1 127.6 306	0.0 0.63 1.0	60.6 -0.8 -54.1 54.2 269	0.0 0.017 1.0	0.0 0.617 1.0	59.8 0.8 -55.6 55.7 270	0.0 0.017 1.0
306	270	271	0.0 0.0 1.0	30.3 76.0 -103.5 128.5 306	B_d 0.0 0.624 1.0	60.2 0.0 -54.7 54.8 270	B_s 0.0 0.0 1.0	0.0 0.609 1.0	59.3 1.7 -56.5 56.6 271	B_e 0.0 0.0 1.0
306	271	272	0.016 0.0 1.0	30.4 76.0 -103.4 128.4 306	0.0 0.615 1.0	59.7 1.0 -55.7 55.9 271	0.017 0.0 1.0	0.0 0.602 1.0	58.7 2.7 -57.5 57.6 272	0.017 0.0 1.0
306	272	273	0.033 0.0 1.0	30.5 76.1 -103.3 128.3 306	0.0 0.607 1.0	59.1 2.0 -56.8 56.9 272	0.033 0.0 1.0	0.0 0.594 1.0	58.2 3.7 -58.4 58.6 273	0.033 0.0 1.0
306	273	274	0.05 0.0 1.0	30.6 76.1 -103.1 128.2 306	0.0 0.599 1.0	58.5 3.0 -57.8 58.0 273	0.05 0.0 1.0	0.0 0.586 1.0	57.7 4.8 -59.4 59.7 274	0.05 0.0 1.0
306	274	275	0.066 0.0 1.0	30.7 76.1 -103.0 128.1 306	0.0 0.591 1.0	58.0 4.1 -58.8 59.0 274	0.067 0.0 1.0	0.0 0.578 1.0	57.1 5.8 -60.3 60.7 275	0.067 0.0 1.0
306	275	276	0.083 0.0 1.0	30.8 76.2 -102.8 128.0 306	0.0 0.583 1.0	57.4 5.2 -59.8 60.1 275	0.083 0.0 1.0	0.0 0.57 1.0	56.6 7.0 -61.2 61.7 276	0.083 0.0 1.0
306	276	277	0.1 0.0 1.0	30.9 76.2 -102.7 127.9 306	0.0 0.574 1.0	56.9 6.4 -60.7 61.2 276	0.1 0.0 1.0	0.0 0.563 1.0	56.1 8.1 -62.0 62.7 277	0.1 0.0 1.0
306	277	278	0.116 0.0 1.0	30.9 76.2 -102.5 127.8 306	0.0 0.566 1.0	56.3 7.6 -61.7 62.2 277	0.117 0.0 1.0	0.0 0.555 1.0	55.5 9.3 -62.9 63.7 278	0.117 0.0 1.0
306	278	279	0.133 0.0 1.0	31.1 76.3 -102.3 127.6 306	0.0 0.558 1.0	55.7 8.8 -62.6 63.3 278	0.133 0.0 1.0	0.0 0.547 1.0	55.0 10.5 -63.7 64.7 279	0.133 0.0 1.0
306	279	280	0.15 0.0 1.0	31.3 76.3 -101.9 127.4 306	0.0 0.55 1.0	55.2 10.1 -63.5 64.3 279	0.15 0.0 1.0	0.0 0.539 1.0	54.5 11.7 -64.5 65.7 280	0.15 0.0 1.0
306	280	281	0.166 0.0 1.0	31.5 76.4 -101.6 127.1 306	0.0 0.541 1.0	54.6 11.4 -64.3 65.4 280	0.167 0.0 1.0	0.0 0.531 1.0	53.9 13.0 -65.3 66.7 281	0.167 0.0 1.0
307	281	282	0.183 0.0 1.0	31.7 76.5 -101.2 126.9 307	0.0 0.533 1.0	54.1 12.7 -65.1 66.5 281	0.183 0.0 1.0	0.0 0.524 1.0	53.4 14.3 -66.1 67.7 282	0.183 0.0 1.0
307	282	283	0.2 0.0 1.0	31.9 76.6 -100.9 126.7 307	0.0 0.525 1.0	53.5 14.0 -66.0 67.5 282	0.2 0.0 1.0	0.0 0.516 1.0	52.9 15.6 -66.8 68.7 283	0.2 0.0 1.0
307	283	284	0.216 0.0 1.0	32.1 76.6 -100.5 126.4 307	0.0 0.517 1.0	52.9 15.4 -66.7 68.6 283	0.217 0.0 1.0	0.0 0.508 1.0	52.3 16.9 -67.5 69.7 284	0.217 0.0 1.0
307	284	285	0.233 0.0 1.0	32.3 76.7 -100.1 126.2 307	0.0 0.508 1.0	52.4 16.9 -67.5 69.7 284	0.233 0.0 1.0	0.0 0.5 1.0	51.8 18.3 -68.2 70.7 285	0.233 0.0 1.0
307	285	285	0.25 0.0 1.0	32.6 76.8 -99.8 125.9 307	0.0 0.5 1.0	51.8 18.3 -68.2 70.7 285	0.25 0.0 1.0	0.0 0.488 1.0	51.0 19.9 -69.6 72.5 285	0.25 0.0 1.0
307	286	286	0.266 0.0 1.0	32.9 77.0 -99.2 125.6 307	0.0 0.488 1.0	51.0 20.0 -69.7 72.6 286	0.267 0.0 1.0	0.0 0.476 1.0	50.3 21.6 -71.0 74.3 286	0.267 0.0 1.0
308	287	287	0.283 0.0 1.0	33.2 77.1 -98.6 125.2 308	0.0 0.475 1.0	50.2 21.8 -71.2 74.5 287	0.283 0.0 1.0	0.0 0.464 1.0	49.5 23.3 -72.4 76.1 287	0.283 0.0 1.0
308	288	288	0.3 0.0 1.0	33.6 77.3 -98.1 124.9 308	0.0 0.462 1.0	49.4 23.6 -72.6 76.4 288	0.3 0.0 1.0	0.0 0.452 1.0	48.8 25.1 -73.7 77.9 288	0.3 0.0 1.0
308	289	289	0.316 0.0 1.0	33.9 77.4 -97.5 124.5 308	0.0 0.45 1.0	48.6 25.5 -74.0 78.3 289	0.317 0.0 1.0	0.0 0.44 1.0	48.0 26.9 -75.0 79.8 289	0.317 0.0 1.0
308	290	290	0.333 0.0 1.0	34.3 77.6 -96.9 124.1 308	0.0 0.437 1.0	47.8 27.4 -75.3 80.2 290	0.333 0.0 1.0	0.0 0.428 1.0	47.2 28.8 -76.2 81.6 290	0.333 0.0 1.0
308	291	291	0.35 0.0 1.0	34.6 77.7 -96.3 123.8 308	0.0 0.424 1.0	47.0 29.4 -76.6 82.1 291	0.35 0.0 1.0	0.0 0.416 1.0	46.5 30.7 -77.4 83.4 291	0.35 0.0 1.0
309	292	292	0.366 0.0 1.0	34.9 77.9 -95.7 123.4 309	0.0 0.412 1.0	46.2 31.5 -77.8 84.1 292	0.367 0.0 1.0	0.0 0.404 1.0	45.7 32.7 -78.5 85.2 292	0.367 0.0 1.0
309	293	293	0.383 0.0 1.0	35.3 78.1 -95.1 123.0 309	0.0 0.399 1.0	45.4 33.6 -79.0 86.0 293	0.383 0.0 1.0	0.0 0.392 1.0	44.9 34.7 -79.7 87.0 293	0.383 0.0 1.0
309	294	294	0.4 0.0 1.0	35.8 78.3 -94.3 122.6 309	0.0 0.386 1.0	44.6 35.7 -80.2 87.9 294	0.4 0.0 1.0	0.0 0.38 1.0	44.2 36.8 -80.7 88.8 294	0.4 0.0 1.0
310	295	295	0.416 0.0 1.0	36.3 78.6 -93.5 122.2 310	0.0 0.373 1.0	43.7 38.0 -81.4 89.9 295	0.417 0.0 1.0	0.0 0.364 1.0	43.3 39.2 -82.2 91.2 295	0.417 0.0 1.0
310	296	296	0.433 0.0 1.0	36.7 78.9 -92.7 121.8 310	0.0 0.353 1.0	42.7 40.7 -83.3 92.8 296	0.433 0.0 1.0	0.0 0.345 1.0	42.3 41.7 -84.0 93.9 296	0.433 0.0 1.0
310	297	297	0.45 0.0 1.0	37.2 79.1 -92.0 121.3 310	0.0 0.333 1.0	41.6 43.5 -85.2 95.7 297	0.45 0.0 1.0	0.0 0.327 1.0	41.3 44.4 -85.8 96.7 297	0.45 0.0 1.0
311	298	298	0.466 0.0 1.0	37.6 79.3 -91.2 120.9 311	0.0 0.313 1.0	40.5 46.3 -87.0 98.6 298	0.467 0.0 1.0	0.0 0.308 1.0	40.3 47.1 -87.5 99.4 298	0.467 0.0 1.0
311	299	299	0.483 0.0 1.0	38.1 79.6 -90.4 120.5 311	0.0 0.293 1.0	39.5 49.2 -88.7 101.5 299	0.483 0.0 1.0	0.0 0.289 1.0	39.2 49.9 -89.1 102.2 299	0.483 0.0 1.0
311	300	300	0.5 0.0 1.0	38.5 79.8 -89.7 120.0 311	0.0 0.274 1.0	38.4 52.2 -90.4 104.5 300	0.5 0.0 1.0	0.0 0.27 1.0	38.2 52.8 -90.6 105.0 300	0.5 0.0 1.0

1-1131030-L0	RE120-73	LAB*la0, YN=0%, XYZnw=0.0, 0.0, 0.0, 84.2, 88.6, 96.5, LAB*nw=0.0, 0.0, 0.0, 95.4, 0.0, 0.0
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Output: sRGB standard device; no separation, D65, page 11/29

TUB-test chart RE12; hue code: $H^*_e=B00R_e$
48 step hue circles; *rgb-LabCh** tables

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

TUB registration: 20130201-RE12/RE12LOFA.TXT /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta

see similar files: <http://130.149.60.45/~farbmatrik/RE12/RE12.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGBM_s$; $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$; Six hue angles of the device colours $RYGCBM_d$; $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours $RYGBM_e$; $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$																																			
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{ddx361Mi} (x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	$rgb^*_{dd361Mi}$																								
311	300	300	0.5	0.0	1.0	38.5	79.8	-89.7	120.0	311	0.0	0.274	1.0	38.4	52.2	-90.4	104.5	300	0.5	0.0	1.0	0.0	0.27	1.0	38.2	52.8	-90.6	105.0	300	0.5	0.0	1.0			
312	301	301	0.516	0.0	1.0	39.1	80.2	-88.7	119.6	312	0.0	0.254	1.0	37.4	55.3	-91.9	107.4	301	0.517	0.0	1.0	0.0	0.251	1.0	37.2	55.7	-92.1	107.7	301	0.517	0.0	1.0			
312	302	302	0.533	0.0	1.0	39.6	80.6	-87.8	119.2	312	0.0	0.222	1.0	36.1	58.8	-94.1	111.0	302	0.533	0.0	1.0	0.0	0.22	1.0	36.0	59.1	-94.2	111.3	302	0.533	0.0	1.0			
312	303	303	0.55	0.0	1.0	40.2	80.9	-86.9	118.8	312	0.0	0.188	1.0	34.8	62.6	-96.3	114.9	303	0.55	0.0	1.0	0.0	0.187	1.0	34.8	62.6	-96.3	115.0	303	0.55	0.0	1.0			
313	304	303	0.566	0.0	1.0	40.7	81.3	-86.0	118.3	313	0.0	0.153	1.0	33.5	66.4	-98.4	118.8	304	0.567	0.0	1.0	0.0	0.154	1.0	33.6	66.3	-98.3	118.6	303	0.567	0.0	1.0			
313	305	304	0.583	0.0	1.0	41.3	81.6	-85.1	117.9	313	0.0	0.109	1.0	32.2	70.4	-100.4	122.7	305	0.583	0.0	1.0	0.0	0.117	1.0	32.4	70.0	-100.2	122.3	304	0.583	0.0	1.0			
314	306	305	0.6	0.0	1.0	41.8	82.0	-84.1	117.5	314	0.0	0.024	1.0	30.8	74.8	-102.8	127.2	306	0.6	0.0	1.0	0.0	0.036	1.0	31.0	74.2	-102.5	126.6	305	0.6	0.0	1.0			
314	307	306	0.616	0.0	1.0	42.4	82.3	-83.2	117.0	314	0.172	0.0	1.0	31.6	76.5	-101.4	127.1	307	0.617	0.0	1.0	0.146	0.0	1.0	31.3	76.4	-102.0	127.5	306	0.617	0.0	1.0			
315	308	307	0.633	0.0	1.0	43.0	82.7	-82.2	116.6	315	0.282	0.0	1.0	33.2	77.2	-98.6	125.3	308	0.633	0.0	1.0	0.263	0.0	1.0	32.9	77.0	-99.3	125.7	307	0.633	0.0	1.0			
315	309	308	0.65	0.0	1.0	43.6	83.2	-81.2	116.3	315	0.357	0.0	1.0	34.8	77.8	-96.0	123.7	309	0.65	0.0	1.0	0.335	0.0	1.0	34.3	77.6	-96.8	124.2	308	0.65	0.0	1.0			
316	310	309	0.666	0.0	1.0	44.2	83.7	-80.2	115.9	316	0.414	0.0	1.0	36.2	78.6	-93.6	122.3	310	0.667	0.0	1.0	0.396	0.0	1.0	35.8	78.3	-94.4	122.8	309	0.667	0.0	1.0			
316	311	310	0.683	0.0	1.0	44.8	84.1	-79.2	115.5	316	0.465	0.0	1.0	37.6	79.4	-91.2	121.0	311	0.683	0.0	1.0	0.445	0.0	1.0	37.1	79.1	-92.2	121.5	310	0.683	0.0	1.0			
317	312	311	0.7	0.0	1.0	45.4	84.6	-78.1	115.2	317	0.513	0.0	1.0	39.0	80.1	-88.9	119.8	312	0.7	0.0	1.0	0.493	0.0	1.0	38.4	79.8	-89.9	120.3	311	0.7	0.0	1.0			
317	313	312	0.716	0.0	1.0	46.0	85.0	-77.1	114.8	317	0.551	0.0	1.0	40.3	81.0	-86.8	118.8	313	0.717	0.0	1.0	0.532	0.0	1.0	39.6	80.6	-87.9	119.3	312	0.717	0.0	1.0			
318	314	313	0.733	0.0	1.0	46.6	85.4	-76.1	114.4	318	0.59	0.0	1.0	41.6	81.8	-84.6	117.8	314	0.733	0.0	1.0	0.569	0.0	1.0	40.8	81.4	-85.8	118.3	313	0.733	0.0	1.0			
318	315	314	0.75	0.0	1.0	47.2	85.8	-75.1	114.0	318	0.628	0.0	1.0	42.8	82.6	-82.5	116.8	315	0.75	0.0	1.0	0.605	0.0	1.0	42.1	82.1	-83.8	117.4	314	0.75	0.0	1.0			
319	316	315	0.766	0.0	1.0	47.9	86.4	-74.0	113.8	319	0.66	0.0	1.0	44.0	83.5	-80.6	116.1	316	0.767	0.0	1.0	0.639	0.0	1.0	43.2	82.9	-81.8	116.6	315	0.767	0.0	1.0			
320	317	316	0.783	0.0	1.0	48.5	87.0	-72.9	113.5	320	0.692	0.0	1.0	45.2	84.4	-78.6	115.4	317	0.783	0.0	1.0	0.669	0.0	1.0	44.3	83.8	-80.0	115.9	316	0.783	0.0	1.0			
320	318	317	0.8	0.0	1.0	49.2	87.5	-71.8	113.2	320	0.724	0.0	1.0	46.3	85.2	-76.6	114.7	318	0.8	0.0	1.0	0.699	0.0	1.0	45.4	84.6	-78.1	115.2	317	0.8	0.0	1.0			
321	319	318	0.816	0.0	1.0	49.8	88.1	-70.7	113.0	321	0.755	0.0	1.0	47.5	86.0	-74.7	114.0	319	0.817	0.0	1.0	0.729	0.0	1.0	46.5	85.4	-76.3	114.5	318	0.817	0.0	1.0			
321	320	319	0.833	0.0	1.0	50.5	88.6	-69.6	112.7	321	0.783	0.0	1.0	48.6	87.0	-72.9	113.6	320	0.833	0.0	1.0	0.758	0.0	1.0	47.6	86.2	-74.5	114.0	319	0.833	0.0	1.0			
322	321	320	0.85	0.0	1.0	51.2	89.1	-68.5	112.4	322	0.81	0.0	1.0	49.7	87.9	-71.1	113.1	321	0.85	0.0	1.0	0.785	0.0	1.0	48.6	87.1	-72.8	113.5	320	0.85	0.0	1.0			
323	322	321	0.866	0.0	1.0	51.8	89.6	-67.4	112.1	323	0.838	0.0	1.0	50.7	88.8	-69.3	112.7	322	0.867	0.0	1.0	0.811	0.0	1.0	49.7	87.9	-71.0	113.1	321	0.867	0.0	1.0			
323	323	321	0.883	0.0	1.0	52.5	90.1	-66.3	111.9	323	0.866	0.0	1.0	51.8	89.6	-67.4	112.2	323	0.883	0.0	1.0	0.837	0.0	1.0	50.7	88.8	-69.3	112.7	321	0.883	0.0	1.0			
324	324	322	0.9	0.0	1.0	53.2	90.8	-65.2	111.8	324	0.892	0.0	1.0	52.9	90.5	-65.7	111.9	324	0.9	0.0	1.0	0.864	0.0	1.0	51.7	89.5	-67.6	112.2	322	0.9	0.0	1.0			
324	325	323	0.916	0.0	1.0	53.8	91.4	-64.1	111.6	324	0.918	0.0	1.0	53.9	91.5	-64.0	111.7	325	0.917	0.0	1.0	0.889	0.0	1.0	52.8	90.4	-65.9	111.9	323	0.917	0.0	1.0			
325	326	324	0.933	0.0	1.0	54.5	92.0	-62.9	111.5	325	0.943	0.0	1.0	55.0	92.4	-62.2	111.5	326	0.933	0.0	1.0	0.913	0.0	1.0	53.7	91.3	-64.3	111.7	324	0.933	0.0	1.0			
326	327	325	0.95	0.0	1.0	55.2	92.6	-61.8	111.4	326	0.969	0.0	1.0	56.0	93.3	-60.5	111.3	327	0.95	0.0	1.0	0.937	0.0	1.0	54.7	92.2	-62.6	111.5	325	0.95	0.0	1.0			
326	328	326	0.966	0.0	1.0	55.9	93.2	-60.7	111.2	326	0.994	0.0	1.0	57.1	94.2	-58.7	111.0	328	0.967	0.0	1.0	0.961	0.0	1.0	55.7	93.1	-61.0	111.3	326	0.967	0.0	1.0			
327	329	327	0.983	0.0	1.0	56.6	93.8	-59.5	111.1	327	1.0	0.0	0.984	57.1	93.9	-56.4	109.6	329	0.983	0.0	1.0	0.985	0.0	1.0	56.7	93.9	-59.3	111.1	327	0.983	0.0	1.0			
328	330	328	1.0	0.0	1.0	57.2	94.3	-58.4	110.9	328	M_d	1.0	0.0	0.962	56.8	93.4	-53.8	107.8	330	M_s	1.0	0.0	1.0	1.0	0.0	0.992	57.2	94.2	-57.4	110.3	328	M_e	1.0	0.0	1.0
329	331	329	1.0	0.0	0.983	57.0	93.9	-56.4	109.5	329	1.0	0.0	0.941	56.5	92.7	-51.3	106.0	331	1.0	0.0	0.983	1.0	0.0	0.972	56.9	93.6	-54.9	108.6	329	1.0	0.0	0.983			
329	332	330	1.0	0.0	0.966	56.8	93.4	-54.4	108.1	329	1.0	0.0	0.919	56.2	92.0	-48.8	104.2	332	1.0	0.0	0.967	1.0	0.0	0.951	56.7	93.0	-52.5	106.9	330	1.0	0.0	0.967			
330	333	331	1.0	0.0	0.95	56.6	92.9	-52.4	106.7	330	1.0	0.0	0.898	55.9	91.2	-46.4	102.4	333	1.0	0.0	0.95	1.0	0.0	0.931	56.4	92.4	-50.2	105.2	331	1.0	0.0	0.95			
331	334	332	1.0	0.0	0.933	56.4	92.4	-50.5	105.3	331	1.0	0.0	0.876	55.7	90.4	-44.0	100.5	334	1.0	0.0	0.933	1.0	0.0	0.911	56.1	91.7	-47.8	103.4	332	1.0	0.0	0.933			
332	335	333	1.0	0.0	0.916	56.1	91.8	-48.6	103.9	332	1.0	0.0	0.86	55.5	90.0	-41.9	99.3	335	1.0	0.0	0.917	1.0	0.0	0.89	55.8	90.9	-45.5	101.7	333	1.0	0.0	0.917			
332	336	334	1.0	0.0	0.9	55.9	91.2	-46.7	102.5	332	1.0	0.0	0.843	55.3	89.6	-39.8	98.1	336	1.0	0.0	0.9	1.0	0.0	0.871	55.6	90.2	-43.3	100.2	334	1.0	0.0	0.9			
333	337	335	1.0	0.0	0.883	55.7	90.6	-44.8	101.1	333	1.0	0.0	0.827	55.1	89.2	-37.8	96.9	337	1.0	0.0	0.883	1.0	0.0	0.856	55.4	89.9	-41.4	99.0	335	1.0	0.0	0.883			
334	338	336	1.0	0.0	0.866	55.5	90.1	-42.8	99.8	334	1.0	0.0	0.811	54.9	88.8	-35.8	95.8	338	1.0	0.0	0.867	1.0	0.0	0.84	55.2	89.6	-39.4	97.9	336	1.0	0.0	0.867			
335	339	337	1.0	0.0	0.85	55.3	89.8	-40.7	98.6	335	1.0	0.0	0.794	54.7	88.3	-33.8	94.6	339	1.0	0.0	0.85	1.0	0.0	0.825	55.1	89.2	-37.5	96.8	337	1.0	0.0	0.85			

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours *RYGBCM*_s: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;

Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

LAB ^a ddx361Mi (x=LabCh)										LAB ^b ddx361Mi (x=LabCh)										LAB ^c ddx361Mi (x=LabCh)										LAB ^d ddx361Mi (x=LabCh)									
rgb ^a ddx361Mi										rgb ^b ddx361Mi										rgb ^c ddx361Mi										rgb ^d ddx361Mi									
341	345	342	1.0	0.0	0.75	54.2	86.7	-28.6	91.3	341	1.0	0.0	0.707	53.8	86.0	-23.0	89.1	345	1.0	0.0	0.75	1.0	0.0	0.735	54.1	86.5	-26.6	90.6	342	1.0	0.0	0.75							
342	346	343	1.0	0.0	0.733	54.0	86.5	-26.4	90.4	342	1.0	0.0	0.695	53.7	85.7	-21.3	88.4	346	1.0	0.0	0.733	1.0	0.0	0.723	54.0	86.3	-25.0	89.9	343	1.0	0.0	0.733							
344	347	344	1.0	0.0	0.716	53.8	86.2	-24.2	89.5	344	1.0	0.0	0.682	53.6	85.4	-19.6	87.7	347	1.0	0.0	0.717	1.0	0.0	0.711	53.8	86.1	-23.4	89.3	344	1.0	0.0	0.717							
345	348	345	1.0	0.0	0.7	53.7	85.8	-22.0	88.6	345	1.0	0.0	0.669	53.4	85.1	-18.0	87.0	348	1.0	0.0	0.7	1.0	0.0	0.699	53.7	85.8	-21.8	88.6	345	1.0	0.0	0.7							
346	349	346	1.0	0.0	0.683	53.5	85.4	-19.9	87.7	346	1.0	0.0	0.656	53.3	84.7	-16.4	86.3	349	1.0	0.0	0.683	1.0	0.0	0.687	53.6	85.6	-20.3	87.9	346	1.0	0.0	0.683							
348	350	347	1.0	0.0	0.666	53.4	85.0	-17.8	86.8	348	1.0	0.0	0.643	53.2	84.3	-14.8	85.6	350	1.0	0.0	0.667	1.0	0.0	0.674	53.5	85.2	-18.7	87.3	347	1.0	0.0	0.667							
349	351	348	1.0	0.0	0.65	53.2	84.5	-15.7	85.9	349	1.0	0.0	0.63	53.1	83.9	-13.2	84.9	351	1.0	0.0	0.65	1.0	0.0	0.662	53.4	84.9	-17.2	86.6	348	1.0	0.0	0.65							
350	352	349	1.0	0.0	0.633	53.0	83.9	-13.6	85.0	350	1.0	0.0	0.619	53.0	83.6	-11.7	84.4	352	1.0	0.0	0.633	1.0	0.0	0.65	53.3	84.5	-15.6	86.0	349	1.0	0.0	0.633							
352	353	350	1.0	0.0	0.616	52.9	83.6	-11.4	84.3	352	1.0	0.0	0.608	52.9	83.5	-10.2	84.2	353	1.0	0.0	0.617	1.0	0.0	0.638	53.1	84.1	-14.1	85.3	350	1.0	0.0	0.617							
353	354	351	1.0	0.0	0.6	52.8	83.4	-9.1	83.9	353	1.0	0.0	0.597	52.8	83.4	-8.7	83.9	354	1.0	0.0	0.6	1.0	0.0	0.626	53.0	83.7	-12.6	84.7	351	1.0	0.0	0.6							
355	355	352	1.0	0.0	0.583	52.7	83.2	-6.9	83.5	355	1.0	0.0	0.586	52.7	83.3	-7.2	83.6	355	1.0	0.0	0.583	1.0	0.0	0.615	52.9	83.6	-11.2	84.4	352	1.0	0.0	0.583							
356	356	353	1.0	0.0	0.566	52.5	82.9	-4.6	83.0	356	1.0	0.0	0.575	52.6	83.1	-5.7	83.3	356	1.0	0.0	0.567	1.0	0.0	0.605	52.9	83.5	-9.8	84.1	353	1.0	0.0	0.567							
358	357	354	1.0	0.0	0.55	52.4	82.5	-2.4	82.6	358	1.0	0.0	0.564	52.6	82.9	-4.2																							

1-1131230-L0	RE120-73	LAB*la0, YN=0%, XYZnw=0.0, 0.0, 0.0, 84.2, 88.6, 96.5, LAB*nw=0.0, 0.0, 0.0, 95.4, 0.0, 0.0
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Output: sRGB standard device; no separation, D65, page 13/29

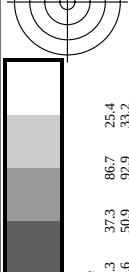
TUB-test chart RE12; hue code: $H^*_e=B00R_e$
48 step hue circles; *rgb-LabCh** tables

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

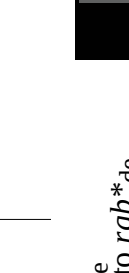
TUB registration: 20130201-RE12/RE12I0FA.TXT /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta

see similar files: <http://130.149.60.45/~farbmatrik/RE12/RE12.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

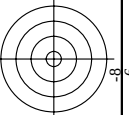


TUB material: code=rha4ta



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

ID	Region A										Region B										Region C										Region D										Region E									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009	0.010	0.011	0.012	0.013	0.014	0.015	0.016	0.017	0.018	0.019	0.020	0.021	0.022	0.023	0.024	0.025	0.026	0.027	0.028	0.029	0.030	0.031	0.032	0.033	0.034	0.035	0.036	0.037	0.038	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.049	0.050
2	0.051	0.052	0.053	0.054	0.055	0.056	0.057	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.069	0.070	0.071	0.072	0.073	0.074	0.075	0.076	0.077	0.078	0.079	0.080	0.081	0.082	0.083	0.084	0.085	0.086	0.087	0.088	0.089	0.090	0.091	0.092	0.093	0.094	0.095	0.096	0.097	0.098	0.099	0.100
3	0.101	0.102	0.103	0.104	0.105	0.106	0.107	0.108	0.109	0.110	0.111	0.112	0.113	0.114	0.115	0.116	0.117	0.118	0.119	0.120	0.121	0.122	0.123	0.124	0.125	0.126	0.127	0.128	0.129	0.130	0.131	0.132	0.133	0.134	0.135	0.136	0.137	0.138	0.139	0.140	0.141	0.142	0.143	0.144	0.145	0.146	0.147	0.148	0.149	0.150
4	0.151	0.152	0.153	0.154	0.155	0.156	0.157	0.158	0.159	0.160	0.161	0.162	0.163	0.164	0.165	0.166	0.167	0.168	0.169	0.170	0.171	0.172	0.173	0.174	0.175	0.176	0.177	0.178	0.179	0.180	0.181	0.182	0.183	0.184	0.185	0.186	0.187	0.188	0.189	0.190	0.191	0.192	0.193	0.194	0.195	0.196	0.197	0.198	0.199	0.200
5	0.201	0.202	0.203	0.204	0.205	0.206	0.207	0.208	0.209	0.210	0.211	0.212	0.213	0.214	0.215	0.216	0.217	0.218	0.219	0.220	0.221	0.222	0.223	0.224	0.225	0.226	0.227	0.228	0.229	0.230	0.231	0.232	0.233	0.234	0.235	0.236	0.237	0.238	0.239	0.240	0.241	0.242	0.243	0.244	0.245	0.246	0.247	0.248	0.249	0.250
6	0.251	0.252	0.253	0.254	0.255	0.256	0.257	0.258	0.259	0.260	0.261	0.262	0.263	0.264	0.265	0.266	0.267	0.268	0.269	0.270	0.271	0.272	0.273	0.274	0.275	0.276	0.277	0.278	0.279	0.280	0.281	0.282	0.283	0.284	0.285	0.286	0.287	0.288	0.289	0.290	0.291	0.292	0.293	0.294	0.295	0.296	0.297	0.298	0.299	0.300
7	0.301	0.302	0.303	0.304	0.305	0.306	0.307	0.308	0.309	0.310	0.311	0.312	0.313	0.314	0.315	0.316	0.317	0.318	0.319	0.320	0.321	0.322	0.323	0.324	0.325	0.326	0.327	0.328	0.329	0.330	0.331	0.332	0.333	0.334	0.335	0.336	0.337	0.338	0.339	0.340	0.341	0.342	0.343	0.344	0.345	0.346	0.347	0.348	0.349	0.350
8	0.351	0.352	0.353	0.354	0.355	0.356	0.357	0.358	0.359	0.360	0.361	0.362	0.363	0.364	0.365	0.366	0.367	0.368	0.369	0.370	0.371	0.372	0.373	0.374	0.375	0.376	0.377	0.378	0.379	0.380	0.381	0.382	0.383	0.384	0.385	0.386	0.387	0.388	0.389	0.390	0.391	0.392	0.393	0.394	0.395	0.396	0.397	0.398	0.399	0.400
9	0.401	0.402	0.403	0.404	0.405	0.406	0.407	0.408	0.409	0.410	0.411	0.412	0.413	0.414	0.415	0.416	0.417	0.418	0.419	0.420	0.421	0.422	0.423	0.424	0.425	0.426	0.427	0.428	0.429	0.430	0.431	0.432	0.433	0.434	0.435	0.436	0.437	0.438	0.439	0.440	0.441	0.442	0.443	0.444	0.445	0.446	0.447	0.448	0.449	0.450
10	0.451	0.452	0.453	0.454	0.455	0.456	0.457	0.458	0.459	0.460	0.461	0.462	0.463	0.464	0.465	0.466	0.467	0.468	0.469	0.470	0.471	0.472	0.473	0.474	0.475	0.476	0.477	0.478	0.479	0.480	0.481	0.482	0.483	0.484	0.485	0.486	0.487	0.488	0.489	0.490	0.491	0.492	0.493	0.494	0.495	0.496	0.497	0.498	0.499	0.500
11	0.501	0.502	0.503	0.504	0.505	0.506	0.507	0.508	0.509	0.510	0.511	0.512	0.513	0.514	0.515	0.516	0.517	0.518	0.519	0.520	0.521	0.522	0.523	0.524	0.525	0.526	0.527	0.528	0.529	0.530	0.531	0.532	0.533	0.534	0.535	0.536	0.537	0.538	0.539	0.540	0.541	0.542	0.543	0.544	0.545	0.546	0.547	0.548	0.549	0.550
12	0.551	0.552	0.553	0.554	0.555	0.556	0.557	0.558	0.559	0.560	0.561	0.562	0.563	0.564	0.565	0.566	0.567	0.568	0.569	0.570	0.571	0.572	0.573	0.574	0.575	0.576	0.577	0.578	0.579	0.580	0.581	0.582	0.583	0.584	0.585	0.586	0.587	0.588	0.589	0.590	0.591	0.592	0.593	0.594	0.595	0.596	0.597	0.598	0.599	0.600
13	0.601	0.602	0.603	0.604	0.605	0.606	0.607	0.608	0.609	0.610	0.611	0.612	0.613	0.614	0.615	0.616	0.617	0.618	0.619	0.620	0.621	0.622	0.623	0.624	0.625	0.626	0.627	0.628	0.629	0.630	0.631	0.632	0.633	0.634	0.635	0.636	0.637	0.638	0.639	0.640	0.641	0.642	0.643	0.644	0.645	0.646	0.647	0.648	0.649	0.650
14	0.651	0.652	0.653	0.654	0.655	0.656	0.657	0.658	0.659	0.660	0.661	0.662	0.663	0.664	0.665	0.666	0.667	0.668	0.669	0.670	0.671	0.672	0.673	0.674	0.675	0.676	0.677	0.678	0.679	0.680	0.681	0.682	0.683	0.684	0.685	0.686	0.687	0.688	0.689	0.690	0.691	0.692	0.693	0.694	0.695	0.696	0.697	0.698	0.699	0.700
15	0.701	0.702	0.703	0.704	0.705	0.706	0.707	0.708	0.709	0.710	0.711	0.712	0.713	0.714	0.715	0.716	0.717	0.718	0.719	0.720	0.721	0.722	0.723	0.724	0.725	0.726	0.727	0.728	0.729	0.730	0.731	0.732	0.733	0.734	0.735	0.736	0.737	0.738	0.739	0.740	0.741	0.742	0.743	0.744	0.745	0.746	0.747	0.748	0.749	0.750
16	0.751	0.752	0.753	0.754	0.755	0.756	0.757	0.758	0.759	0.760	0.761	0.762	0.763	0.764	0.765	0.766	0.767	0.768	0.769	0.770	0.771	0.772	0.773	0.774	0.775	0.776	0.777	0.778	0.779	0.780	0.781	0.782	0.783	0.784	0.785	0.786	0.787	0.788	0.789	0.790	0.791	0.792	0.793	0.794	0.795	0.796	0.797	0.798	0.799	0.800
17	0.801	0.802	0.803	0.804	0.805	0.806	0.807	0.808	0.809	0.810	0.811	0.812	0.813	0.814	0.815	0.816	0.817	0.818	0.819	0.820	0.821	0.822	0.823	0.824	0.825	0.826	0.827	0.828	0.829	0.830	0.831	0.832	0.833	0.834	0.835	0.836	0.837	0.838	0.839	0.840	0.841	0.842	0.843	0.844	0.845	0.846	0.847	0.848	0.849	0.850
18	0.851	0.852	0.853	0.854	0.855	0.856	0.857	0.858	0.859	0.860	0.861	0.862	0.863	0.864	0.865	0.866	0.867	0.868	0.869	0.870	0.871	0.872	0.873	0.874	0.875	0.876	0.877	0.878	0.879	0.880	0.881	0.882	0.883	0.884	0.885	0.886	0.887	0.888	0.889	0.890	0.891	0.892	0.893	0.894	0.895	0.896	0.897	0.898	0.899	0.900
19	0.901	0.902	0.903	0.904	0.905	0.906	0.907	0.908	0.909	0.910	0.911	0.912	0.913	0.914	0.915	0.916	0.917	0.918	0.919	0.920	0.921	0.922	0.923	0.924	0.925	0.926	0.927	0.928	0.929	0.930	0.931	0.932	0.933	0.934	0.935	0.936	0.937	0.938	0.939	0.940	0.941	0.942	0.943	0.944	0.945	0.946	0.947	0.948	0.949	0.950
20	0.951	0.952	0.953	0.954	0.955	0.956	0.957	0.958	0.959	0.960	0.961	0.962	0.963	0.964	0.965	0.966	0.967	0.968	0.969	0.970	0.971	0.972	0.973	0.974	0.975	0.976	0.977	0.978	0.979	0.980	0.981	0.982	0.983	0.984	0.985	0.986	0.987	0.988	0.989	0.990	0.991	0.992	0.993	0.994	0.995	0.996	0.997	0.998	0.999	1.000
21	0.951	0.952	0.953	0.954	0.955	0.956	0.957	0.958	0.959	0.960	0.961	0.962	0.963	0.964	0.965	0.966	0.967	0.968	0.969	0.970	0.971	0.972	0.973	0.974	0.975	0.976	0.977	0.978	0.979	0.980	0.981	0.982	0.983	0.984	0.985	0.986	0.987	0.988	0.989	0.990	0.991	0.992	0.993	0.994	0.995	0.996	0.997	0.998	0.999	1.000
22	0.951	0.952	0.953	0.954	0.955	0.956	0.957	0.958	0.959	0.960	0.961	0.962	0.963	0.964	0.965	0.966	0.967	0.968	0.969	0.970	0.971	0.972	0.973	0.974	0.975	0.976	0.977	0.978	0.979	0.980	0.981	0.982	0.983	0.984	0.985	0.986	0.987	0.988	0.989	0.990	0.991	0.992	0.993	0.994	0.995	0.996	0.997	0.998	0.999	1.000
23	0.951	0.952	0.953	0.954	0.955	0.956	0.957	0.958	0.959	0.960	0.961	0.962	0.963	0.964	0.965	0.966	0.967	0.968	0.969	0.970	0.971	0.972	0.973	0.974	0.975	0.976	0.977	0.978	0.979	0.980	0.981	0.982	0.983	0.984	0.985	0.986	0.987	0.988	0.989	0.990	0.991	0.992	0.993	0.994	0.995	0.996	0.997	0.998	0.999	1.000
24	0.951	0.952	0.953	0.954	0.955	0.956	0.957	0.958	0.959	0.960	0.961	0.962	0.963	0.964	0.965	0.966	0.967	0.968	0.969	0.970	0.971	0.97																												

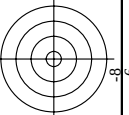


TUB material: code=rha4ta

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

output: 3D-linearization to rgb^*_{de}

 $\Delta E^* = 0.6$ $\Delta E^* = 0.6$



TUB material: code=rha4ta

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

[illegible]
$$\text{delta } E^* = 0.5$$

RE120-7N, Page 18/29-F

1-1131730-E0

7

1

NOT ACCEPTED

$$\lambda - \lambda_{\text{qbd}} > r_{\text{qbd}}$$
input: rc

```
2; hue code:
```


Prization to

Output:

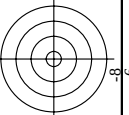
 Γ^*, Γ^*

Output: 1

1000000

M

see similar files: <http://130.149.60.45/~farbmatrik/RE12/RE12.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

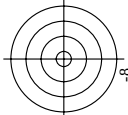


TUB material: code=rha4ta

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

T C

HIC* <i>T</i> _{de}	<i>rob</i> _{Ent}	<i>icL</i> _{Ent}	<i>hsa</i> _{Ent}	<i>rob</i> _{T_{de}}	<i>LabCh</i> * <i>T</i> _{de}	<i>rob</i> _{T_{de}}	<i>LabCh</i> * <i>T</i> _{de}	<i>rob</i> _{T_{de}}	<i>DE</i> * <i>T</i> _{de}	<i>Rob</i> * <i>T</i> _{de}	<i>LabCh</i> * <i>T</i> _{de}													
ROOY.037.037 _{de}	0.375	0.0	0.375	0.0	0.098	19.0	29.3	13.9	32.5	25.4	0.363	0.092	0.113	18.7	30.2	14.0	33.4	24.7	1.0	0.0	0.263	50.9	78.3	51.1
ROOY.037.037 _{de}	0.375	0.0	0.375	0.0	0.182	19.4	30.4	2.2	30.5	4.3	0.358	0.096	0.188	19.1	31.2	1.6	31.2	2.9	1.0	0.0	0.486	50.9	78.3	51.1
ROOY.037.037 _{de}	0.375	0.0	0.375	0.0	0.257	20.1	32.0	-7.6	32.9	346.6	0.358	0.098	0.252	19.8	33.0	-4.2	34.0	346.0	1.1	0.0	0.686	50.9	78.3	51.1
ROOY.037.037 _{de}	0.375	0.0	0.375	0.0	0.375	21.4	33.5	-21.3	41.3	346.6	0.358	0.098	0.375	21.1	35.0	-22.2	42.2	346.6	0.9	0.0	0.991	50.9	78.3	51.1
ROOY.037.037 _{de}	0.375	0.0	0.375	0.0	0.511	21.4	33.5	-41.3	41.3	346.6	0.358	0.098	0.511	21.1	35.0	-42.2	42.2	346.6	1.0	0.0	1.304	50.9	78.3	51.1
ROOY.037.037 _{de}	0.375	0.0	0.375	0.0	0.635	19.5	47.7	-63.7	79.7	306.1	0.166	0.055	0.635	19.9	48.7	-64.6	79.2	306.1	1.0	0.0	1.616	50.9	78.3	51.1
ROOY.037.037 _{de}	0.375	0.0	0.375	0.0	0.765	28.6	39.5	-68.0	79.7	306.1	0.112	0.026	0.765	28.3	39.7	-68.4	79.2	306.1	1.0	0.0	2.145	50.9	78.3	51.1
ROOY.037.037 _{de}	0.375	0.0	0.375	0.0	0.875	34.2	47.7	-72.0	79.7	295.4	0.061	0.018	0.875	34.6	47.7	-72.3	79.9	295.2	0.3	0.0	2.654	50.9	78.3	51.1
ROOY.037.037 _{de}	0.375	0.0	0.375	0.0	0.987	45.7	32.7	-78.6	85.1	295.4	0.047	0.010	0.987	45.8	32.0	-78.0	84.5	295.2	0.6	0.0	3.142	50.9	78.3	51.1
ROOY.037.037 _{de}	0.375	0.0	0.375	0.0	1.0	45.7	32.7	-78.6	85.1	295.4	0.047	0.010	1.0	45.8	32.0	-78.0	84.5	295.2	0.6	0.0	3.630	50.9	78.3	51.1
ROOY.037.037 _{de}	0.375	0.0	0.375	0.0	1.0	45.7	32.7	-78.6	85.1	295.4	0.047	0.010	1.0	45.8	32.0	-78.0	84.5	295.2	0.6	0.0	4.118	50.9	78.3	51.1
ROOY.037.037 _{de}	0.375	0.0	0.375	0.0	1.0	45.7	32.7	-78.6	85.1	295.4	0.047	0.010	1.0	45.8	32.0	-78.0	84.5	295.2	0.6	0.0	4.606	50.9	78.3	51.1
ROOY.037.037 _{de}	0.375	0.0	0.375	0.0	1.0	45.7	32.7	-78.6	85.1	295.4	0.047	0.010	1.0	45.8	32.0	-78.0	84.5	295.2	0.6	0.0	5.094	50.9	78.3	51.1
ROOY.037.037 _{de}	0.375	0.0	0.375	0.0	1.0	45.7	32.7	-78.6	85.1	295.4	0.047	0.010	1.0	45.8	32.0	-78.0	84.5	295.2	0.6	0.0	5.582	50.9	78.3	51.1
ROOY.037.037 _{de}	0.375	0.0	0.375	0.0	1.0	45.7	32.7	-78.6	85.1	295.4	0.047	0.010	1.0	45.8	32.0	-78.0	84.5	295.2	0.6	0.0	6.070	50.9	78.3	51.1
ROOY.037.037 _{de}	0.375	0.0	0.375	0.0	1.0	45.7	32.7	-78.6	85.1	295.4	0.047	0.010												



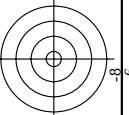
TUB material: code=rha4ta

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

Mean color difference of this range:

 $\Delta E^* = 0.4$

color difference of this range:

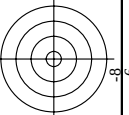


TUB material: code=rha4ta

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

Mean color difference of this page:

HIC ^{Fe}	rgb ^{Fe}	ic ^{Fe}	hs ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	23.3	54.2	25.4	rgb ^{Fe}	LabCh ^{Fe}	23.1	54.4	25.1	0.4	375	1.0	0.0	0.263	50.9	78.3	37.3	86.7	25.1	13.0	
R01Y.062.062a	0.625	0.0	0.625	0.625	0.312	390	0.164	31.8	48.9	31.5	49.2	54.4	25.1	0.4	375	1.0	0.0	0.263	50.9	78.3	37.3	86.7	25.1	13.0	
R01Y.062.062a	0.625	0.0	0.625	0.625	0.312	379	0.625	0.0	0.247	32.1	48.9	54.2	25.4	0.4	375	1.0	0.0	0.263	50.9	78.3	37.3	86.7	25.1	13.0	
R11Y.062.062a	0.625	0.0	0.625	0.625	0.312	367	0.625	0.0	0.333	32.7	51.3	51.2	51.2	12.6	0.6	366	1.0	0.0	0.395	51.4	79.8	18.7	82.0	13.0	
B69Y.062.062a	0.625	0.0	0.625	0.625	0.312	353	0.625	0.0	0.398	33.2	51.3	51.2	51.2	35.9	0.6	357	1.0	0.0	0.537	52.3	82.1	-0.2	85.3	35.0	
B59Y.062.062a	0.625	0.0	0.625	0.625	0.312	341	0.625	0.0	0.419	34.1	55.1	51.1	59.0	33.9	0.6	341	1.0	0.0	0.793	54.7	88.2	-34.8	85.3	33.0	
B59Y.062.062a	0.625	0.0	0.625	0.625	0.312	330	0.625	0.0	0.495	35.7	58.8	51.1	59.0	33.9	0.6	341	1.0	0.0	0.793	54.7	88.2	-34.8	85.3	33.0	
B42Y.075.075a	0.625	0.0	0.625	0.625	0.312	321	0.625	0.0	0.569	36.8	62.9	51.1	59.0	33.9	0.6	341	1.0	0.0	0.793	54.7	88.2	-34.8	85.3	33.0	
B36Y.087.087a	0.625	0.0	0.625	0.625	0.312	314	0.625	0.0	0.645	37.5	66.4	51.1	59.0	33.9	0.6	341	1.0	0.0	0.793	54.7	88.2	-34.8	85.3	33.0	
B31Y.100.100a	0.625	0.0	0.625	0.625	0.312	308	0.625	0.0	0.721	38.5	75.1	51.1	59.0	33.9	0.6	341	1.0	0.0	0.793	54.7	88.2	-34.8	85.3	33.0	
R01Y.062.062a	0.625	0.125	0.625	0.625	0.312	41	0.625	0.0	0.038	31.5	48.9	54.2	25.4	0.4	375	1.0	0.0	0.263	50.9	78.3	37.3	86.7	25.1	13.0	
R26Y.062.050a	0.625	0.125	0.625	0.625	0.312	390	0.625	0.125	0.339	37.7	39.1	18.6	43.3	25.4	0.4	375	1.0	0.0	0.263	50.9	78.3	37.3	86.7	25.1	13.0
R01Y.062.050a	0.625	0.125	0.625	0.625	0.312	379	0.625	0.125	0.339	37.7	39.1	18.6	43.3	25.4	0.4	375	1.0	0.0	0.263	50.9	78.3	37.3	86.7	25.1	13.0
B69Y.062.050a	0.625	0.125	0.625	0.625	0.312	384	0.625	0.125	0.339	37.7	39.1	18.6	43.3	25.4	0.4	375	1.0	0.0	0.263	50.9	78.3	37.3	86.7	25.1	13.0
B69Y.062.050a	0.625	0.125	0.625	0.625	0.312	374	0.625	0.125	0.339	37.7	39.1	18.6	43.3	25.4	0.4	375	1.0	0.0	0.263	50.9	78.3	37.3	86.7	25.1	13.0
B40Y.075.062a	0.625	0.125	0.625	0.625	0.312	405	0.625	0.125	0.339	37.7	39.1	18.6	43.3	25.4	0.4	375	1.0	0.0	0.263	50.9	78.3	37.3	86.7	25.1	13.0
B36Y.087.075a	0.625	0.125	0.625	0.625	0.312	397	0.625	0.125	0.339	37.7	39.1	18.6	43.3	25.4	0.4	375	1.0	0.0	0.263						

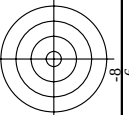


TUB material: code=rha4ta

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

Mean color difference of this page: $\Delta E^*_{ab} = 0.4$

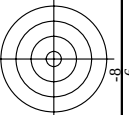
Mean color difference of this page: $\Delta E^* = 0.4$



TUB material: code=rha4ta

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

[illegible]



TUB material: code=rha4ta

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

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RE120-7N, Page 27/29-F

TUB-test chart RE12; hue code: $H^* = B00R_e$

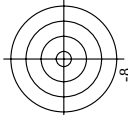
colors and differences, ΔE^*

input: $rgb/cmyk \rightarrow rgb_{de}$

output: 3D-linearization to rgb^*_{de}

TUB-test chart RE12; hue code: $H_e^* = B00R_e$
colors and differences, ΔE^*





TUB material: code=rha4ta

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

TUB-test chart RE12; hue code: $H_e^* = B00R_e$
colors and differences, ΔE^*

[illegible]

TUB registration: 20130201-RE12/RE12L0FA.TXT /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta

see similar files: <http://130.149.60.45/~farbmetrik/RE12/RE12.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

<http://130.149.60.45/~farbmetrik/RE12/RE12L0FA.TXT> /.PS; 3D-linearization
F: 3D-linearization RE12/RE12LE30FA.DAT in file (F), page 29/29

RE120-7N, Page 29/29-F

TUB-test chart RE12; hue code: H*_e=B00R_e
colors and differences, ΔE^*

input: *rgb/cmyk* -> *rgb*_{de}
output: 3D-linearization to *rgb**_{de}

n	H* _e *Fide	rgb* _{Fide}	L*	a*	b*	H _{ab} *Fide	rgb* _{Fide}	LabCH* _{Fide}	DF* _{Fide} hAn.de	rgb* _{de}	LabCH* _{de}	DF* _{de} hAn.de
1053	NW_086de	0.866	0.866	0.0	0.0	0.866	0.866	82.6	0.0	0.0	0.0	0.0
1054	NW_093de	0.933	0.933	0.0	0.0	0.933	0.933	89.0	0.0	0.0	0.0	0.0
1055	NW_100de	1.0	1.0	0.0	0.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1056	NW_000de	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1057	NW_006de	0.066	0.066	0.0	0.0	0.066	0.066	6.2	0.0	0.0	0.0	0.0
1058	NW_013de	0.133	0.133	0.0	0.0	0.133	0.133	12.6	0.0	0.0	0.0	0.0
1059	NW_020de	0.2	0.2	0.0	0.0	0.2	0.2	19.0	0.0	0.0	0.0	0.0
1060	NW_026de	0.266	0.266	0.0	0.0	0.266	0.266	25.3	0.0	0.0	0.0	0.0
1061	NW_033de	0.333	0.333	0.0	0.0	0.333	0.333	31.7	0.0	0.0	0.0	0.0
1062	NW_040de	0.4	0.4	0.0	0.0	0.4	0.4	38.1	0.0	0.0	0.0	0.0
1063	NW_046de	0.466	0.466	0.0	0.0	0.466	0.466	44.4	0.0	0.0	0.0	0.0
1064	NW_053de	0.533	0.533	0.0	0.0	0.533	0.533	50.8	0.0	0.0	0.0	0.0
1065	NW_060de	0.6	0.6	0.0	0.0	0.6	0.6	57.2	0.0	0.0	0.0	0.0
1066	NW_066de	0.666	0.666	0.0	0.0	0.666	0.666	63.5	0.0	0.0	0.0	0.0
1067	NW_073de	0.734	0.734	0.0	0.0	0.734	0.734	70.0	0.0	0.0	0.0	0.0
1068	NW_080de	0.8	0.8	0.0	0.0	0.8	0.8	76.3	0.0	0.0	0.0	0.0
1069	NW_086de	0.866	0.866	0.0	0.0	0.866	0.866	82.6	0.0	0.0	0.0	0.0
1070	NW_093de	0.933	0.933	0.0	0.0	0.933	0.933	89.0	0.0	0.0	0.0	0.0
1071	NW_100de	1.0	1.0	0.0	0.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1072	NW_000de	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1073	ROUY_100_100de	1.0	1.0	1.0	0.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1074	G50B_100_100de	1.0	0.0	1.0	1.0	0.5	390	50.9	78.3	37.3	86.7	25.4
1075	Y06G_100_100de	0.0	1.0	1.0	1.0	0.5	210	79.0	-34.2	34.2	216.9	42.8
1076	B00R_100_100de	1.0	1.0	0.0	1.0	0.5	20	63.7	-3.4	84.5	92.3	21.7
1077	B00R_100_100de	0.0	1.0	1.0	0.0	0.5	270	56.6	17.7	85.1	92.3	21.7
1078	B00R_100_100de	0.0	1.0	0.0	1.0	0.5	150	56.6	17.7	85.1	92.3	21.7
1079	B50R_100_100de	1.0	0.0	1.0	1.0	0.5	330	57.1	94.1	0.0	0.0	0.0

Mean color difference of this page: $\Delta E^* = 0.3$