see similar files: http://130.149.60.45/~farbmetrik/TE08/TE08.HTM
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

TUB registration: 20130201-TE08/TE08L0NP.PDF /.PS
application for measurement of display output

TUB material: code=rha4ta

48 step circle with interpretation *rgb* −> *rgb$_d$ device hue steps of 1080 standard colours**

rgb	*rgb** $_d$	$h_{ab,a}$	*L**	*a** $_a$	*b** $_a$	*rgb*	*rgb** $_d$	$h_{ab,a}$	*L**	*a** $_a$	*b** $_a$	*rgb*	*rgb** $_d$	$h_{ab,a}$	*L**	*a** $_a$	*b** $_a$	*rgb*	*rgb** $_d$	$h_{ab,a}$	*L**	*a** $_a$	*b** $_a$	*rgb*	*rgb** $_d$	$h_{ab,a}$	*L**	*a** $_a$	*b** $_a$	*rgb*	*rgb** $_d$	$h_{ab,a}$	*L**	*a** $_a$	*b** $_a$
0	404	561	483	589	149.384	−118	70	8	485	595	548	548	212.875	−64	−41	16	544	544	579	479	303.533	74	−112	24	567	464	506	506	351.669	85	−123	25	510	510	469	569	85.7	88	10	144	40	404	561	483	589	149.384	−118	70
1	434	562	486	610	155.083	−123	57	9	490	490	565	459	217.772	−60	−46	17	549	549	582	480	307.229	89	−112	25	569	470	520	520	26.2	70	70	34	33	519	519	471	570	91.0	92	−2	142	41	434	562	486	610	155.083	−123	57
2	450	563	496	496	163.882	−118	34	10	495	495	566	462	223.969	−54	−52	18	554	554	584	481	326.253	112	−75	26	573	475	528	528	61.0	70	60	110	34	529	529	475	573	93.3	94	−8	140	42	450	563	496	496	163.882	−118	34
3	460	565	505	505	164.582	−120	33	11	500	500	567	464	231.565	−46	−58	19	560	560	589	483	331.361	107	−59	27	580	480	537	537	62.8	70	61	120	35	539	539	478	577	97.5	96	−17	131	43	460	565	505	505	164.582	−120	33
4	464	567	506	506	174.081	−109	11	12	510	510	569	469	251.558	−23	−72	20	561	404	589	483	334.165	102	−49	28	595	485	548	548	69.7	76	47	130	36	544	544	479	579	99.3	96	−20	125	44	464	567	506	506	174.081	−109	11
5	470	569	520	520	193.281	−81	−19	13	519	519	570	471	274.449	6	−86	21	562	434	610	486	336.567	99	−42	29	490	490	459	565	73.2	79	40	134	37	549	549	480	582	101.097	−23	119	45	470	569	520	520	193.281	−81	−19
6	475	573	528	528	205.780	−67	−32	14	529	529	573	475	284.345	23	−93	22	563	450	496	496	341.768	94	−31	30	495	495	462	566	76.5	81	33	138	38	554	554	481	584	128.891	−80	100	46	475	573	528	528	205.780	−67	−32
7	480	580	537	537	205.681	−66	−32	15	539	539	577	478	298.737	58	−100	23	565	460	505	505	342.369	92	−29	31	500	500	464	567	79.7	84	25	141	39	560	560	483	589	141.886	−107	84	47	480	580	537	537	141.886	−107	84

RYGB*$_{ton}$**, 25.4, 92.3, 162.2, 271.7 ***RYGB*$_{all}$:** 25.4 42.1 58.8 75.6 92.3 109.7 127.2 144.7 162.2 189.6 216.9 244.3 271.7 300.1 328.6 357.0 ***LAB*Nio: 0.0, 0.0, 0.0 ***LAB*Wio:*** 100.0, 0.0, 0.0

25.4		42.1		58.8		75.6		92.3		109.7		127.2		144.7		162.2		189.6		216.9		244.3		271.7		300.1		328.6		357.0					
24 0		25 0		25 0		29 0		33 0		37 0		37 0		39 0		1 0		4 0		8 0		11 0		12 0		15 0		18 0		24 0					
342.3	351.6	351.6	26.2	351.6	26.2	69.7	73.2	85.7	91.0	99.3	101.0	99.3	101.0	128.8	141.8	149.3	155.0	164.5	174.0	205.6	212.8	223.9	231.5	231.5	251.5	284.3	298.7	307.2	326.2	342.3	351.6				
26.2	61.0	61.0	62.8	61.0	62.8	76.5	79.7	93.3	97.5	128.8	141.8	128.8	141.8	149.3	155.0	163.8	164.5	193.2	205.7	217.7	223.9	251.5	274.4	274.4	284.3	303.5	307.2	331.3	334.1	26.2	61.0				
0.977		0.457		0.938		0.714		0.551		0.315		0.943		0.386		0.82		0.811		0.839		0.639		0.88		0.291		0.462		0.156					
69.2	69.8	69.8	70.3	69.8	70.3	76.3	79.2	88.9	92.5	96.9	97.5	96.9	97.5	91.1	86.9	84.6	83.3	82.0	81.5	81.2	75.8	69.3	65.8	65.8	58.0	45.2	37.0	29.9	53.2	69.2	69.8				
70.3	70.7	70.7	70.1	70.7	70.1	81.9	84.4	94.0	96.1	91.1	86.9	91.1	86.9	84.6	83.3	82.7	82.0	81.1	80.8	72.7	69.3	58.0	49.5	49.5	45.2	33.3	29.9	61.6	65.5	70.3	70.7				
92.8	85.8	85.8	70.5	85.8	70.5	47.9	40.5	10.7	−2.5	−20.6	−23.1	−20.6	−23.1	−80.5	−107.2	−118.7	−123.4	−120.7	−109.0	−66.9	−64.5	−54.6	−46.7	−46.7	−23.9	23.9	58.4	89.0	112.9	92.8	85.8				
70.5	60.8	60.8	61.6	60.8	61.6	33.0	25.5	−8.2	−17.3	−80.5	−107.2	−80.5	−107.2	−118.7	−123.4	−118.7	−120.7	−81.8	−67.5	−60.5	−54.6	−23.9	6.7	6.7	23.9	74.4	89.0	107.9	102.8	70.5	60.8				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				

16 step elementary hue circle with intended elementary hues: $h_{ab,a}$ = 25.4, 92.3, 162.2, 271.7

00 149.3	84.6	−118.7	70.3																																
01 155.0	83.3	−123.4	57.5	1	155.0	149.3	155.0	163.8	164.5	357.0																									
02 163.8	82.7	−118.7	34.5	2	163.8	155.0	163.8	164.5	174.0	357.0																									
03 164.5	82.0	−120.7	33.2	3	164.5	163.8	164.5	174.0	193.2	357.0																									
04 174.0	81.5	−109.0	11.4	4	174.0	164.5	174.0	193.2	205.7	357.0																									
05 193.2	81.1	−81.8	−19.2	5	193.2	174.0	193.2	205.7	205.6	357.0																									
06 205.7	80.8	−67.5	−32.5	6	205.7	193.2	205.7	205.6	212.8	357.0																									
07 205.6	81.2	−66.9	−32.2	7	205.6	205.7	205.6	212.8	217.7	357.0																									
08 212.8	75.8	−64.5	−41.6	8	212.8	205.6	212.8	217.7	223.9	357.0																									
09 217.7	72.7	−60.5	−46.9	9	217.7	212.8	217.7	223.9	231.5	357.0																									
10 223.9	69.3	−54.6	−52.6	10	223.9	217.7	223.9	231.5	251.5	357.0																									
11 231.5	65.8	−46.7	−58.7	11	231.5	223.9	231.5	251.5	274.4	357.0																									
12 251.5	58.0	−23.9	−72.0	12	251.5	231.5	251.5	274.4	284.3	357.0																									
13 274.4	49.5	6.7	−86.3	13	274.4	251.5	274.4	284.3	298.7	357.0																									
14 284.3	45.2	23.9	−93.3	14	284.3	274.4	284.3	298.7	303.5	357.0																									
15 298.7	37.0	58.4	−106.4	15	298.7	284.3	298.7	303.5	307.2	357.0																									
16 303.5	33.3	74.4	−112.0	16	303.5	298.7	303.5	307.2	326.2	357.0																									
17 307.2	29.9	89.0	−117.0	17	307.2	303.5	307.2	326.2	331.3	357.0																									
18 326.2	53.2	112.9	−75.4	18	326.2	307.2	326.2	331.3	334.1	357.0																									
19 331.3	61.6	107.9	−59.0	19	331.3	326.2	331.3	334.1	336.5	357.0																									
20 334.1	65.5	102.8	−49.8	20	334.1	331.3	334.1	336.5	341.7	357.0																									
21 336.5	67.4	99.2	−42.9	21	336.5	334.1	336.5	341.7	342.3	357.0																									
22 341.7	68.2	94.8	−31.2	22	341.7	336.5	341.7	342.3	351.6	357.0																									
23 342.3	69.2	92.8	−29.5	23	342.3	341.7	342.3	351.6	26.2	357.0																									
24 351.6	69.8	85.8	−12.6	24	351.6	342.3	351.6	26.2	61.0	357.0																									
25 26.2	70.3	70.5	34.8	25	26.2	351.6	26.2	61.0	62.8	357.0																									
26 61.0	70.7	60.8	110.0	26	61.0	26.2	61.0	62.8	69.7	357.0																									
27 62.8	70.1	61.6	120.1	27	62.8	61.0	62.8	69.7	73.2	357.0																									
28 69.7	76.3	47.9	130.1	28	69.7	62.8	69.7	73.2	76.5	357.0																									
29 73.2	79.2	40.5	134.5	29	73.2	69.7	73.2	76.5	79.7	357.0																									
30 76.5	81.9	33.0	138.3	30	76.5	73.2	76.5	79.7	85.7	357.0																									
31 79.7	84.4	25.5	141.4	31	79.7	76.5	79.7	85.7	91.0	357.0																									
32 85.7	88.9	10.7	144.3	32	85.7	79.7	85.7	91.0	93.3	357.0																									
33 91.0	92.5	−2.5	142.9	33	91.0	85.7	91.0	93.3	97.5	357.0																									
34 93.3	94.0	−8.2	140.1	34	93.3	91.0	93.3	97.5	99.3	357.0																									
35 97.5	96.1	−17.3	131.1	35	97.5	93.3	97.5	99.3	101.0	357.0																									
36 99.3	96.9	−20.6	125.4	36	99.3	97.5	99.3	101.0	128.8	357.0																									
37 101.0	97.5	−23.1	119.0	37	101.0	99.3	101.0	128.8	141.8	357.0																									
38 128.8	91.1	−80.5	100.0	38	128.8	101.0	128.8	141.8	149.3	357.0																									
39 141.8	86.9	−107.2	84.2	39	141.8	128.8	141.8	149.3	155.0	357.0																									
40 149.3	84.6	−118.7	70.3																																
41 155.0	83.3	−123.4	57.5																																
42 163.8	82.7	−118.7	34.5																																
43 164.5	82.0	−120.7	33.2																																
44 174.0	81.5	−109.0	11.4																																
45 193.2	81.1	−81.8	−19.2																																
46 205.7	80.8	−67.5	−32.5																																
47 141.8	86.9	−107.2	84.2																																

5 step equidistant grey scale with intended lightness: *L = 0.0, 25.0, 50.0, 75.0, 100.0**

X	*Y*	*Z*	*x*	*y*	h_{AB}	*L**	*a**	*b**	*L** $_a$	*a** $_a$	*b** $_a$	*C** $_a$	$h_{ab,a}$	*rgb* −> *rgb** $_e$
66.0	41.1	44.8	0.434	0.27	70.3	70.9	0.0	70.3	70.9	0.0	70.9	**0.0**	**1.00**	**0.00 0.00**
64.0	41.5	45.2	0.424	0.275	70.5	65.1	0.0	70.5	65.1	0.0	65.1	**0.0**	**1.00**	**0.25 0.00**
62.6	41.7	45.5	0.417	0.278	70.7	61.2	0.0	70.7	61.2	0.0	61.2	**0.0**	**1.00**	**0.50 0.00**
71.1	58.7	63.9	0.366	0.303	81.1	35.2	0.0	81.1	35.2	0.0	35.2	**0.0**	**1.00**	**0.75 0.00**
76.8	83.9	91.4	0.304	0.332	93.4	−5.9	0.0	93.4	−5.9	0.0	5.9	**179.9**	**1.00**	**1.00 0.00**
65.9	89.6	97.5	0.26	0.354	95.8	−39.4	0.0	95.8	−39.4	0.0	39.4	**179.9**	**0.75**	**1.00 0.00**
43.7	79.6	86.6	0.208	0.379	91.5	−77.3	0.0	91.5	−77.3	0.0	77.3	**179.9**	**0.50**	**1.00 0.00**
26.4	67.7	73.8	0.157	0.403	85.9	−113.0	0.0	85.9	−113.0	0.0	113.0	**179.9**	**0.25**	**1.00 0.00**
21.8	61.8	67.3	0.144	0.409	82.8	−119.5	0.0	82.8	−119.5	0.0	119.5	**179.9**	**0.00**	**1.00 0.00**
27.8	58.9	64.1	0.184	0.39	81.2	−86.9	0.0	81.2	−86.9	0.0	86.9	**179.9**	**0.00**	**1.00 0.50**
25.6	45.4	49.4	0.212	0.376	73.1	−61.3	0.0	73.1	−61.3	0.0	61.3	**179.9**	**0.00**	**1.00 1.00**
20.2	29.3	31.9	0.248	0.359	61.0	−33.4	0.0	61.0	−33.4	0.0	33.4	**179.9**	**0.00**	**0.50 1.00**
18.4	18.7	20.4	0.32	0.325	50.4	3.3	0.0	50.4	3.3	0.0	3.3	**0.0**	**0.00**	**0.00 1.00**
18.0	8.8	9.6	0.493	0.242	35.7	64.2	0.0	35.7	64.2	0.0	64.2	**0.0**	**0.50**	**0.00 1.00**
61.7	26.3	28.6	0.528	0.225	58.3	112.5	0.0	58.3	112.5	0.0	112.5	**0.0**	**1.00**	**0.00 1.00**
71.2	40.6	44.3	0.455	0.26	69.9	83.6	0.0	69.9	83.6	0.0	83.6	**0.0**	**1.00**	**0.00 0.50**
0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	**0.00**	**0.00 0.00**
4.1	4.4	4.8	0.312	0.329		25.0	0.0	0.0	25.0	0.0	0.0	**0.0**	**0.25**	**0.25 0.25**
17.5	18.4	20.0	0.312	0.329		50.0	0.0	0.0	50.0	0.0	0.0	**0.0**	**0.50**	**0.50 0.50**
45.8	48.2	52.5	0.312	0.329		75.0	0.0	0.0	75.0	0.0	0.0	**0.0**	**0.75**	**0.75 0.75**
95.0	100.0	108.8	0.312	0.329		100.0	0.0	0.0	100.0	0.0	0.0	**0.0**	**1.00**	**1.00 1.00**

TUB-test chart TE08; *Ostwald* colours, test calculation
YABCh, *LabCh** data of elementary hue circle and greys

input: *w/rgb/cmyk* −> *w/rgb/cmyk*−
output: no change

see similar files: http://130.149.60.45/~farbmetrik/TE08/TE08.HTM
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

TUB registration: 20130201-TE08/TE08L0NP.PDF /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta

48 step circle with interpretation *rgb* −> *rgb$_d$ device hue steps of 1080 standard colours**

rgb −> *rgb**$_d$	$h_{ab,a}$	*L**	*a**$_a$	*b**$_a$	*rgb* −> *rgb**$_d$	$h_{ab,a}$	*L**	*a**$_a$	*b**$_a$	*rgb* −> *rgb**$_d$	$h_{ab,a}$	*L**	*a**$_a$	*b**$_a$	*rgb* −> *rgb**$_d$	$h_{ab,a}$	*L**	*a**$_a$	*b**$_a$	*rgb* −> *rgb**$_d$	$h_{ab,a}$	*L**	*a**$_a$	*b**$_a$	*rgb* −> *rgb**$_d$	$h_{ab,a}$	*L**	*a**$_a$	*b**$_a$
0 404	561	483	589	149.384	−118 70	8 485	595	548	548	212.875	−64	−41 16	544	544	579	479	303.533	74	−112	24 567	464	506	506	351.669	85	−123	25 510	510	469	569	85.7	88	10	144	40 404	561	483	589	149.384	−118 70
1 434	562	486	610	155.083	−123 57	9 490	490	565	459	217.772	−60	−46 17	549	549	582	480	307.229	89	−112	25 569	470	520	520	26.2	70	70	34 33	519	471	570	91.0	92	−2	142	41 434	562	486	610	155.083	−123 57
2 450	563	496	496	163.882	−118 34	10 495	495	566	462	223.969	−54	−52 18	554	554	584	481	326.253	112	−75	26 573	475	528	528	61.0	70	60	110 34	529	529	475	573	93.3	94	−8	140	42 450	563	496	496	163.882	−118 34
3 460	565	505	505	164.582	−120 33	11 500	500	567	464	231.565	−46	−58 19	560	560	589	483	331.361	107	−59	27 580	480	537	537	62.8	70	61	120 35	539	539	478	577	97.5	96	−17	131	43 460	565	505	505	164.582	−120 33
4 464	567	506	506	174.081	−109 11	12 510	510	569	469	251.558	−23	−72 20	561	404	589	483	334.165	102	−49	28 595	485	548	548	69.7	76	47	130 36	544	544	479	579	99.3	96	−20	125	44 464	567	506	506	174.081	−109 11
5 470	569	520	520	193.281	−81 −19	13 519	519	570	471	274.449	6	−86	21 562	434	610	486	336.567	99	−42	29 490	490	459	565	73.2	79	40	134 37	549	549	480	582	101.097	−23	119	45 470	569	520	520	193.281	−81 −19
6 475	573	528	528	205.780	−67 −32	14 529	529	573	475	284.345	23	−93	22 563	450	496	496	341.768	94	−31	30 495	495	462	566	76.5	81	33	138 38	554	554	481	584	128.891	−80	100	46 475	573	528	528	205.780	−67 −32
7 480	580	537	537	205.681	−66 −32	15 539	539	577	478	298.737	58	−100	23 565	460	505	505	342.369	92	−29	31 500	500	464	567	79.7	84	25	141 39	560	560	483	589	141.886	−107	84	47 480	580	537	537	141.886	−107 84

RYGB*$_{ton}$**, 25.4, 92.3, 162.2, 271.7 ***RYGB*$_{all}$:** 25.4 42.1 58.8 75.6 92.3 109.7 127.2 144.7 162.2 189.6 216.9 244.3 271.7 300.1 328.6 357.0 ***LAB*Nio: 0.0, 0.0, 0.0 ***LAB*Wio:*** 100.0, 0.0, 0.0

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