

Colour stimuli of just noticeable colour thresholds ($p=50\%$) in 4 directions

number Colour series	Colour stimuli colour values			Colour stimuli differences at threshold				notes experimental series
	Y	x	y	Δx_{TM}	Δy_{TM}	Δx_{BY}	Δy_{BY}	
0 GDV	17.42	0.2192	0.6811	-0.0064	0.0066	-0.0054	0.014	_TM, _BY
1 GDV	16.9	0.2577	0.5648	-0.0005	0.0044	-0.0029	0.0076	grey surround
2 GDV	16.4	0.2875	0.4664	-0.0025	0.0019	-0.0018	0.0046	CIE data no. 05
3 GDV	16.91	0.3051	0.4122	-0.0023	0.0016	-0.0015	0.0037	with white border
4 GDV	16.7	0.3165	0.3791	-0.002	0.0013	-0.0013	0.0029	
5 GDV	16.51	0.3234	0.3568	-0.0017	0.0011	-0.0009	0.002	
6 GDV	15.06	0.3311	0.3322	-0.0021	0.0011	-0.001	0.0024	
7 GDV	14.17	0.3387	0.301	-0.002	0.001	-0.001	0.0022	
8 GDV	14.06	0.344	0.2792	-0.002	0.0009	-0.0011	0.0024	
9 GDV	13.57	0.3482	0.2641	-0.002	0.0008	-0.001	0.0023	
10 GDV	13.26	0.3515	0.2516	-0.0019	0.0008	-0.001	0.0021	
11 RDC	16.44	0.6152	0.3414	-0.0013	0.0017	0.0007	0.0031	_TM, _BY
12 RDC	15.81	0.5421	0.3436	-0.0018	0.0018	0.0001	0.0026	grey surround
13 RDC	16.2	0.4549	0.3285	-0.0015	0.0012	-0.0003	0.0025	CIE data no. 16
14 RDC	16.72	0.4097	0.3512	-0.0017	0.0012	-0.0006	0.0027	with white border
15 RDC	16.79	0.362	0.3542	-0.0017	0.0011	-0.0007	0.002	
16 RDC	16.64	0.3222	0.3567	-0.0015	0.0009	-0.0008	0.002	
17 RDC	16.05	0.2876	0.3649	-0.0021	0.0012	-0.0013	0.0027	
18 RDC	16.69	0.2386	0.3769	-0.0025	0.0014	-0.0022	0.0036	
19 RDC	17.71	0.213	0.3831	-0.0027	0.0014	-0.0024	0.0036	
20 RDC	18.02	0.1875	0.3897	-0.0029	0.0016	-0.0025	0.0037	
21 RDC	18.33	0.1664	0.3949	-0.0037	0.0019	-0.003	0.0042	
				_GV	_GV	_RC	_RC	
22 GDV	17.42	0.2174	0.6877	-0.0029	-0.0064	0.0084	0.0	_GV, _RC
23 GDV	16.91	0.2564	0.5691	-0.0025	-0.004	0.0057	-0.0001	grey surround
24 GDV	16.41	0.2874	0.4688	-0.0022	-0.0028	0.0049	-0.0001	CIE data no. 27
25 GDV	16.92	0.305	0.4141	-0.002	-0.0022	0.0033	-0.0001	with white border
26 GDV	16.71	0.3164	0.3807	-0.0018	-0.0018	0.0028	-0.0001	
27 GDV	16.52	0.3234	0.3581	-0.0017	-0.0015	0.0023	-0.0001	
28 GDV	15.06	0.3311	0.3336	-0.0021	-0.0017	0.0029	-0.0001	
29 GDV	14.18	0.3388	0.3023	-0.002	-0.0013	0.0032	-0.0001	
30 GDV	14.06	0.344	0.2804	-0.0021	-0.0013	0.003	-0.0001	
31 GDV	13.57	0.3483	0.2652	-0.0021	-0.0013	0.0031	0.0	
32 GDV	13.26	0.3515	0.2527	-0.002	-0.0012	0.003	0.0	
33 RDC	16.44	0.6162	0.3431	-0.0035	-0.0017	0.0059	-0.0001	_GV, _RC
34 RDC	15.81	0.543	0.3455	-0.0034	-0.0018	0.0047	0.0	grey surround
35 RDC	16.2	0.4556	0.3301	-0.0029	-0.0018	0.0042	-0.0001	CIE data no. 38
36 RDC	16.72	0.4102	0.3528	-0.0025	-0.0018	0.0033	-0.0001	with white border
37 RDC	16.8	0.3622	0.3556	-0.002	-0.0017	0.0027	-0.0001	
38 RDC	16.65	0.3223	0.3579	-0.0017	-0.0013	0.002	-0.0001	
39 RDC	16.05	0.2874	0.3664	-0.0016	-0.0016	0.0041	-0.0001	
40 RDC	16.7	0.2382	0.3787	-0.0017	-0.0019	0.0039	-0.0001	
41 RDC	17.72	0.2123	0.3848	-0.0013	-0.0018	0.0045	-0.0001	
42 RDC	18.03	0.1867	0.3914	-0.0012	-0.0019	0.005	0.0	
43 RDC	18.33	0.1652	0.3969	-0.0012	-0.002	0.0057	-0.0001	

Samples: Green (G, no 00 or 22), Violet V (no, 10 or 32), Red (R, no 11 or 33)
Cyan (C, no 21 or 43), Grey (no 05, 16, 27 or 38), White (Y=100)

Source: RAM Research Report no. 115 (1985) Tables 5.40(1 to 1.1)

Samples: Green (G, no. 00 and 22), Violet V (no. 10 or 32), Red (R, no. 11 or 33)
Cyan (C, no. 21 or 43), Grey (no. 05, 16, 27 or 38), White (Y=100)
Source: BAM Research report no. 115 (1985), Tables 5.40:1 to 11

Colour stimuli of just noticeable colour thresholds ($p=50\%$) in 2 directions

number Colour series	Colour stimuli x y			Colour stimuli differences at threshold Δx_{TM} Δy_{TM} Δx_{BY} Δy_{BY}				notes experimental series
0 GDV	17.42	0.2192	0.6811	-0.0064	0.0066	-0.0029	-0.0064	TM, BY
1 GDV	16.9	0.2577	0.5648	-0.005	0.0044	-0.0025	-0.004	grey surround
2 GDV	16.4	0.2875	0.4664	-0.0025	0.0019	-0.0022	-0.0028	CIE data no. 05
3 GDV	16.91	0.3051	0.4122	-0.0023	0.0016	-0.002	-0.0022	with white border
4 GDV	16.7	0.3165	0.3791	-0.002	0.0013	-0.0018	-0.0018	
5 GDV	16.51	0.3234	0.3568	-0.0017	0.0011	-0.0017	-0.0015	
6 GDV	15.06	0.3311	0.3322	-0.0021	0.0011	-0.0021	-0.0017	
7 GDV	14.17	0.3387	0.301	-0.002	0.001	-0.002	-0.0013	
8 GDV	14.06	0.344	0.2792	-0.002	0.0009	-0.0021	-0.0013	
9 GDV	13.57	0.3482	0.2641	-0.002	0.0008	-0.0021	-0.0013	
10 GDV	13.26	0.3515	0.2516	-0.0019	0.0008	-0.002	-0.0012	
11 RDC	16.44	0.6152	0.3414	-0.0013	0.0017	-0.0035	-0.0017	TM, BY
12 RDC	15.81	0.5421	0.3436	-0.0018	0.0018	-0.0034	-0.0018	grey surround
13 RDC	16.2	0.4549	0.3285	-0.0015	0.0012	-0.0029	-0.0018	CIE data no. 16
14 RDC	16.72	0.4097	0.3512	-0.0017	0.0012	-0.0025	-0.0018	with white border
15 RDC	16.79	0.362	0.3542	-0.0017	0.0011	-0.002	-0.0017	
16 RDC	16.64	0.3222	0.3567	-0.0015	0.0009	-0.0017	-0.0013	
17 RDC	16.05	0.2876	0.3649	-0.0021	0.0012	-0.0016	-0.0016	
18 RDC	16.69	0.2386	0.3769	-0.0025	0.0014	-0.0017	-0.0019	
19 RDC	17.71	0.213	0.3831	-0.0027	0.0014	-0.0013	-0.0018	
20 RDC	18.02	0.1875	0.3897	-0.0029	0.0016	-0.0012	-0.0019	
21 RDC	18.33	0.1664	0.3949	-0.0037	0.0019	-0.0012	-0.002	
				TM	TM	BY	BY	
22 TDM	14.99	0.1234	0.3945	-0.0061	0.003	-0.0012	-0.0022	TM, BY
23 TDM	15.03	0.1843	0.3826	-0.005	0.0026	-0.0015	-0.0019	grey surround
24 TDM	15.74	0.2443	0.3717	-0.0037	0.0021	-0.0013	-0.0016	CIE data no. 27
25 TDM	16.79	0.28	0.3647	-0.0026	0.0014	-0.0014	-0.0015	with white border
26 TDM	17.27	0.3052	0.3598	-0.002	0.0012	-0.0016	-0.0015	
27 TDM	16.55	0.3219	0.3572	-0.0017	0.001	-0.0016	-0.0013	border
28 TDM	15.78	0.3818	0.3081	-0.0021	0.0013	-0.0019	-0.0012	
29 TDM	15.97	0.4335	0.2633	-0.002	0.0011	-0.0023	-0.001	
30 TDM	16.99	0.4606	0.2384	-0.0022	0.0011	-0.0022	-0.001	
31 TDM	17.14	0.477	0.2226	-0.0019	0.0009	-0.0024	-0.001	
32 TDM	17.21	0.4858	0.2117	-0.002	0.0009	-0.0026	-0.001	
33 BDY	17.32	0.2507	0.2911	-0.0018	0.0008	-0.0011	-0.0009	TM, BY
34 BDY	16.9	0.2694	0.306	-0.0016	0.0007	-0.0015	-0.0012	grey surround
35 BDY	17.28	0.2886	0.3253	-0.0017	0.0009	-0.0013	-0.0011	CIE data no. 38
36 BDY	17.43	0.302	0.3385	-0.0017	0.0008	-0.0013	-0.0011	with white border
37 BDY	17.5	0.315	0.3493	-0.0017	0.0009	-0.0015	-0.0012	
38 BDY	16.48	0.3239	0.3589	-0.0016	0.001	-0.0014	-0.0013	
39 BDY	16.22	0.362	0.3875	-0.0018	0.0012	-0.0024	-0.0019	
40 BDY	19.93	0.4057	0.4273	-0.002	0.0017	-0.002	-0.0018	
41 BDY	17.74	0.4346	0.4517	-0.002	0.0019	-0.0026	-0.0024	
42 BDY	18.07	0.4634	0.4757	-0.0021	0.0025	-0.003	-0.0027	
43 BDY	18.48	0.4848	0.4952	-0.002	0.0025	-0.0037	-0.0032	
Samples: Green (G, no. 00), Violet (V, no. 10), Red (R, no. 11), Cyan (C, no. 21) Turquoise (T, no. 22), Magenta (M, no. 32), Blue (B, no. 33), Yellow (Y, no. 43) Source: RLM Research Report no. 115 (1985), Tables 5.40; 1 to 11.								

Samples: Green (G, no. 00), Violet V (no. 10), Red (R, no. 11), Cyan (C, no. 21)
Turquoise (T, no. 22), Magenta (M, no. 32), Blue (B, no. 33), Yellow (Y, no. 43)
Source: BAM Research report no. 115 (1985), Tables 5.40:1 to 11

TUB-test chart VE68; Colour thresholds data
RI experiments: Series GDV, RDC in directions TM, BY, GV, RC

input: w/r/g/b/cmyk -> w/r/g/b/cmyk