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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 grey surround CIE data no. 05 with white border
1 GDV	16.9	0.2577	0.5648	-0.005	0.0044	-0.0029	0.0076	
2 GDV	16.4	0.2875	0.4664	-0.0025	0.0019	-0.0018	0.0046	
3 GDV	16.91	0.3051	0.4122	-0.0023	0.0016	-0.0015	0.0037	
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 grey surround CIE data no. 16 with white border
12 RDC	15.81	0.5421	0.3436	-0.0018	0.0018	0.0001	0.0026	
13 RDC	16.2	0.4549	0.3285	-0.0015	0.0012	-0.0003	0.0025	
14 RDC	16.72	0.4097	0.3512	-0.0017	0.0012	-0.0006	0.0027	
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 grey surround CIE data no. 27 with white border
23 GDV	16.91	0.2564	0.5691	-0.0025	-0.004	0.0057	-0.0001	
24 GDV	16.41	0.2874	0.4688	-0.0022	-0.0028	0.0049	-0.0001	
25 GDV	16.92	0.305	0.4141	-0.002	-0.0022	0.0033	-0.0001	
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 grey surround CIE data no. 38 with white border
34 RDC	15.81	0.543	0.3455	-0.0034	-0.0018	0.0047	0.0	
35 RDC	16.2	0.4556	0.3301	-0.0029	-0.0018	0.0042	-0.0001	
36 RDC	16.72	0.4102	0.3528	-0.0025	-0.0018	0.0033	-0.0001	
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: 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 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	-0.0029	-0.0064	_TM, _BY grey surround CIE data no. 05 with white border
1 GDV	16.9	0.2577	0.5648	-0.005	0.0044	-0.0025	-0.004	
2 GDV	16.4	0.2875	0.4664	-0.0025	0.0019	-0.0022	-0.0028	
3 GDV	16.91	0.3051	0.4122	-0.0023	0.0016	-0.002	-0.0022	
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 grey surround CIE data no. 16 with white border
12 RDC	15.81	0.5421	0.3436	-0.0018	0.0018	-0.0034	-0.0018	
13 RDC	16.2	0.4549	0.3285	-0.0015	0.0012	-0.0029	-0.0018	
14 RDC	16.72	0.4097	0.3512	-0.0017	0.0012	-0.0025	-0.0018	
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 grey surround CIE data no. 27 with white border
23 TDM	15.03	0.1843	0.3826	-0.005	0.0026	-0.0015	-0.0019	
24 TDM	15.74	0.2443	0.3717	-0.0037	0.0021	-0.0013	-0.0016	
25 TDM	16.79	0.28	0.3647	-0.0026	0.0014	-0.0014	-0.0015	
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	
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 grey surround CIE data no. 38 with white border
34 BDY	16.9	0.2694	0.306	-0.0016	0.0007	-0.0015	-0.0012	
35 BDY	17.28	0.2886	0.3253	-0.0017	0.0009	-0.0013	-0.0011	
36 BDY	17.43	0.302	0.3385	-0.0017	0.0008	-0.0013	-0.0011	
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: 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/rgb/cmyk -> w/rgb/cmyk-