(Working Title) Appendix: Task Switching Replication Cognitive Control under varying Posture

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Abstract

Appendix of all figures, tables and materials generated by the project. Not all figures and tables may be used in final document, so can refer to this document for details of data analysis, visualizations, summary tables and other products of this project.

Appendix

Tables

Table 1: Summary of experiment participants results

	part	cond	trials	accuracy	std	rt	std	
date								
2021-11-10 10:22:00	1	1	392	0.9362	0.2447	0.6261	0.2593	
2021-11-10 11:15:00	2	2	392	0.7372	0.4407	0.7229	0.2321	
2021-11-10 12:20:00	3	3	392	0.8929	0.3097	0.6639	0.2069	
2021-11-10 13:18:00	4	4	392	0.8980	0.3031	0.6203	0.2293	
2021-11-10 14:23:00	5	5	392	0.8648	0.3424	0.5228	0.2238	
2021-11-10 15:12:00	6	6	392	0.9490	0.2203	0.4158	0.1742	
2021-11-11 15:07:00	7	7	392	0.9413	0.2353	0.6213	0.1860	
2021-11-11 16:36:00	8	8	392	0.5051	0.5006	0.8147	0.2958	
2021-11-12 10:11:00	9	9	392	0.9133	0.2818	0.6064	0.2139	
2021-11-12 11:11:00	10	10	392	0.8316	0.3747	0.5448	0.2168	
2021-11-12 12:36:00	11	11	392	0.9566	0.2039	0.3704	0.1200	
2021-11-12 13:51:00	12	12	392	0.9056	0.2927	0.5624	0.2464	
2021-11-15 10:01:00	13	13	392	0.9592	0.1981	0.5520	0.2059	
2021-11-15 11:16:00	14	14	392	0.9490	0.2203	0.5738	0.2094	
2021-11-15 14:40:00	15	15	392	0.7474	0.4350	0.6924	0.2392	
2021-11-15 15:42:00	16	16	392	0.9362	0.2447	0.6721	0.1855	
2021-11-16 09:58:00	17	1	392	0.9413	0.2353	0.4943	0.1988	
					Continued on next page			

Table 1: Summary of experiment participants results

	part	cond	trials	accuracy	std	rt	std
date							
2021-11-16 11:08:00	18	2	392	0.8342	0.3724	0.5749	0.2511
2021-11-16 15:54:00	19	3	392	0.8214	0.3835	0.7109	0.3027
2021-11-17 10:00:00	20	4	392	0.9337	0.2492	0.7255	0.2156
2021-11-17 11:23:00	21	5	392	0.8189	0.3856	0.7644	0.2195
2021-11-17 13:17:00	22	6	392	0.9337	0.2492	0.4628	0.2244
2021-11-18 11:17:00	23	7	392	0.9286	0.2579	0.6091	0.2096
2021-11-18 13:20:00	24	8	392	0.9133	0.2818	0.6075	0.2137
2021-11-18 13:58:00	25	9	392	0.9082	0.2892	0.5286	0.2018
2021-11-19 09:59:00	26	10	392	0.9592	0.1981	0.5599	0.2064
2021-11-19 11:08:00	27	11	392	0.8801	0.3253	0.6441	0.2510
2021-11-19 13:24:00	28	12	392	0.9133	0.2818	0.6074	0.2290
2021-11-19 14:34:00	29	13	392	0.7959	0.4035	0.8403	0.2194
2021-11-19 15:42:00	30	14	392	0.8827	0.3222	0.5731	0.1775
2021-11-22 10:03:00	31	15	392	0.8087	0.3938	0.7446	0.2778
2021-11-22 14:35:00	32	16	392	0.8801	0.3253	0.7515	0.2157
2021-11-22 15:49:00	33	1	392	0.8903	0.3129	0.5135	0.2474
2021-11-23 10:06:00	34	2	392	0.8980	0.3031	0.6465	0.2511
2021-11-23 11:35:00	35	3	392	0.9311	0.2536	0.6248	0.2190
2021-11-23 13:20:00	36	4	392	0.9184	0.2742	0.5850	0.2458
2021-11-23 14:24:00	37	5	392	0.8724	0.3340	0.5825	0.2438
2021-11-29 09:54:00	38	6	392	0.8648	0.3424	0.5265	0.2220
2021-11-29 11:18:00	39	7	392	0.8418	0.3654	0.6804	0.2400
2021-11-29 14:39:00	40	8	392	0.9923	0.0873	0.4015	0.0940
2021-11-29 15:46:00	41	9	392	0.9209	0.2702	0.4644	0.1749
2021-11-30 10:23:00	42	10	392	0.8291	0.3769	0.6301	0.2612
2021-11-30 11:03:00	43	11	392	0.9388	0.2400	0.7206	0.2126
2021-11-30 13:21:00	44	12	392	0.6888	0.4636	0.4559	0.1891
2021-11-30 14:42:00	45	13	392	0.9388	0.2400	0.6182	0.2510
2021-11-30 15:58:00	46	14	392	0.8444	0.3630	0.7765	0.2450
2021-12-01 10:02:00	47	15	392	0.9362	0.2447	0.4400	0.1808
2021-12-01 11:18:00	48	16	392	0.8750	0.3311	0.7266	0.2787
2021-12-01 13:16:00	49	1	392	0.6250	0.4847	0.7623	0.2344
2021-12-01 14:36:00	50	2	392	0.9082	0.2892	0.6924	0.2501
2021-12-01 15:25:00	51	3	392	0.7653	0.4243	0.7162	0.1974
2021-12-02 10:02:00	52	4	392	0.9592	0.1981	0.5970	0.1716
2021-12-02 11:49:00	53	5	392	0.9056	0.2927	0.5215	0.1968
2021-12-02 14:23:00	54	6	392	0.9439	0.2305	0.4687	0.1979

Figures

Table 2: Means and standard deviations of accuracy and reaction times (in sec) as a function of posture and experiment trial types.

		accuracy	std	rt	std
congruant Trial Type	switch Trial Type				
congruant	buffer	0.8727	0.3348	0.7207	0.2458
	noswitch	0.9492	0.2197	0.5582	0.2158
	switch	0.9243	0.2646	0.6156	0.2448
incongruant	buffer	0.5755	0.4966	0.7674	0.2968
	noswitch	0.8830	0.3214	0.5882	0.2416
	switch	0.7796	0.4146	0.6602	0.2643
congruant	buffer	0.8515	0.3574	0.7498	0.2623
	noswitch	0.9413	0.2351	0.5550	0.2224
	switch	0.9219	0.2684	0.6167	0.2471
incongruant	buffer	0.7217	0.4501	0.7793	0.2736
	noswitch	0.8610	0.3460	0.5895	0.2398
	switch	0.7780	0.4157	0.6618	0.2610
	incongruant congruant	congruant buffer noswitch switch incongruant buffer noswitch switch congruant buffer noswitch switch incongruant buffer noswitch switch incongruant buffer noswitch switch	congruantTrialType switchTrialType congruant buffer 0.8727 noswitch 0.9492 switch 0.9243 incongruant buffer 0.5755 noswitch 0.8830 switch 0.7796 congruant buffer 0.8515 noswitch 0.9413 switch 0.9219 incongruant buffer 0.7217 noswitch 0.8610	congruantTrialType switchTrialType 0.8727 0.3348 congruant buffer 0.9492 0.2197 switch 0.9243 0.2646 incongruant buffer 0.5755 0.4966 noswitch 0.8830 0.3214 switch 0.7796 0.4146 congruant buffer 0.8515 0.3574 noswitch 0.9413 0.2351 switch 0.9219 0.2684 incongruant buffer 0.7217 0.4501 noswitch 0.8610 0.3460	congruantTrialType switchTrialType congruant buffer 0.8727 0.3348 0.7207 noswitch 0.9492 0.2197 0.5582 switch 0.9243 0.2646 0.6156 incongruant buffer 0.5755 0.4966 0.7674 noswitch 0.8830 0.3214 0.5882 congruant buffer 0.8515 0.3574 0.7498 noswitch 0.9413 0.2351 0.5550 switch 0.9219 0.2684 0.6167 incongruant buffer 0.7217 0.4501 0.7793 incongruant noswitch 0.8610 0.3460 0.5895

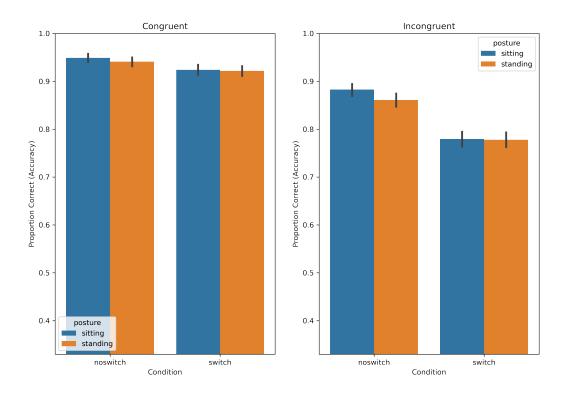


Figure 1: Accuracy from Experiment (replication of task switching). The results show proportion of correct responses (or accuracy) broken down by experiment conditions (congruent vs. incongruent trials, switch vs. no switch trials, in the standing or sitting posture). Error bars represent 95% confidence interval.

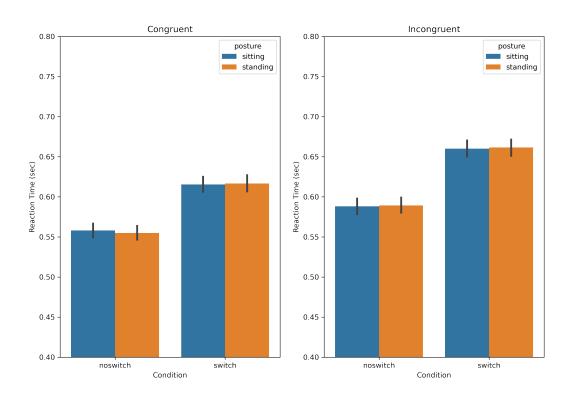


Figure 2: Reaction time from Experiment (replication of task switching). The results show average reaction times broken down by experiment conditions (congruent vs. incongruent, switch vs. no switch trials, in the standing or sitting posture). Error bars represent 95% confidence interval.