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

Authors

Texas A&M University - Commerce

November 16, 2021

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

Figures

Table 1: Summary of experiment participants results

date	part	cond	trials	accuracy	std	rt	std
2021-11-10 10:22:00	1	1	384	0.9375	0.2424	0.6220	0.2572
2021-11-10 11:15:00	2	2	384	0.7422	0.4380	0.7217	0.2333
2021-11-10 12:20:00	3	3	384	0.8932	0.3092	0.6623	0.2062
2021-11-10 13:18:00	4	4	384	0.9036	0.2955	0.6129	0.2225
2021-11-10 14:23:00	5	5	384	0.8620	0.3454	0.5193	0.2228
2021-11-10 15:12:00	6	6	384	0.9479	0.2225	0.4136	0.1723
2021-11-11 15:07:00	7	7	384	0.9401	0.2376	0.6207	0.1867
2021-11-11 16:36:00	8	8	384	0.5026	0.5006	0.8151	0.2968
2021-11-12 10:11:00	9	9	384	0.9167	0.2767	0.6004	0.2110
2021-11-12 11:11:00	10	10	384	0.8281	0.3778	0.5416	0.2168
2021-11-12 12:36:00	11	11	384	0.9583	0.2001	0.3695	0.1196
2021-11-12 13:51:00	12	12	384	0.9036	0.2955	0.5580	0.2459
2021-11-15 10:01:00	13	13	384	0.9583	0.2001	0.5475	0.2020
2021-11-15 11:16:00	14	14	384	0.9505	0.2171	0.5754	0.2103
2021-11-15 14:40:00	15	15	384	0.7526	0.4321	0.6921	0.2405
2021-11-15 15:42:00	16	16	384	0.9375	0.2424	0.6687	0.1828
2021-11-16 09:58:00	17	1	384	0.9401	0.2376	0.4932	0.1977
2021-11-16 11:08:00	18	2	384	0.8359	0.3708	0.5689	0.2471

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

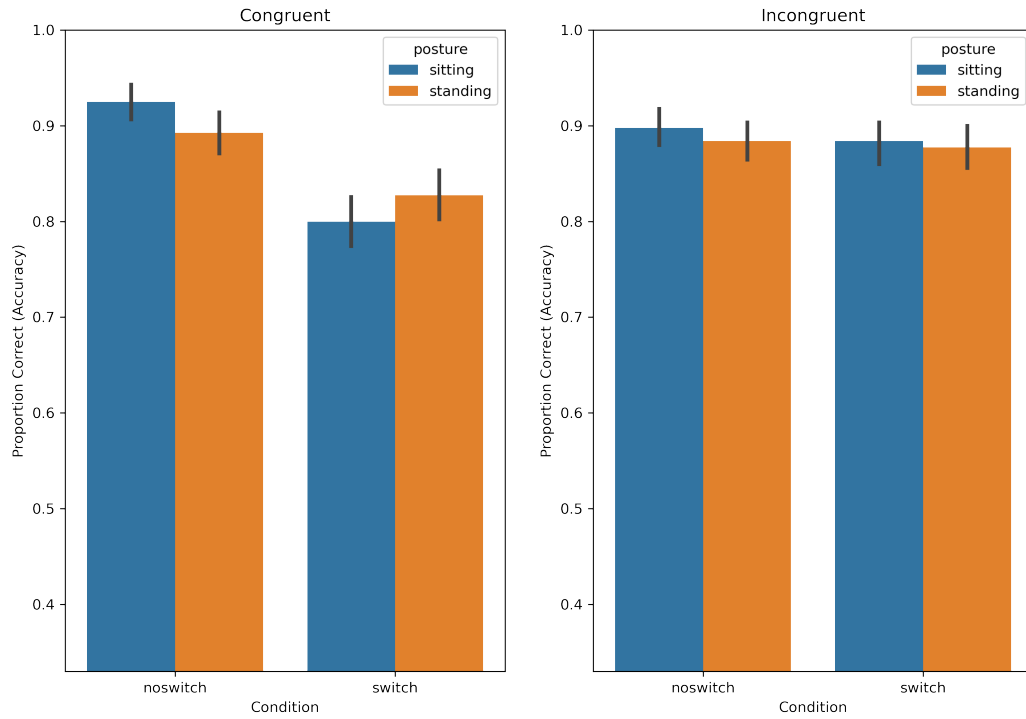| posture	congruantTrialType	switchTrialType	accuracy	std	rt	std
sitting	congruant	noswitch	0.9251	0.2634	0.5340	0.2094
		switch	0.8000	0.4002	0.6389	0.2563
	incongruant	noswitch	0.8978	0.3031	0.5640	0.2311
		switch	0.8841	0.3203	0.6145	0.2375
standing	congruant	noswitch	0.8927	0.3097	0.5552	0.2320
		switch	0.8273	0.3782	0.6260	0.2590
	incongruant	noswitch	0.8841	0.3203	0.5518	0.2246
		switch	0.8774	0.3282	0.6045	0.2413

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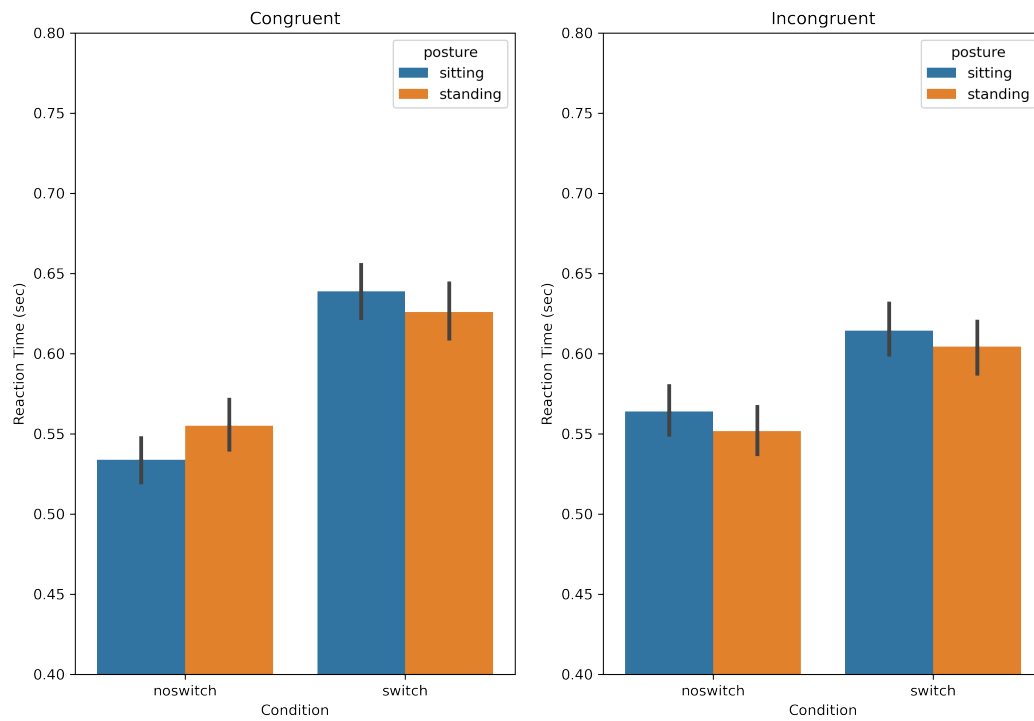
Figure 2: Reaction time from Experiment (replication of task switching). The results show average reaction times broken down by experiment conditions (congruent vs. incongruent, switch vs. no switch trials, in the standing or sitting posture). Error bars represent 95% confidence interval.