(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

Figures

| Table 1: Summary of experiment participants results | | | | | | | | | | |
|---|------|------|--------|----------|----------------------|---------------------|----------------------|--|--|--|
| | part | cond | trials | accuracy | std | rt | std | | | |
| date | | | | | | | | | | |
| 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 | | | |
| 2021-11-16 15:54:00 | 19 | 3 | 384 | 0.8307 | 0.3755 | 0.7067 | 0.2999 | | | |
| 2021-11-17 10:00:00 | 20 | 4 | 384 | 0.9323 | 0.2516 | 0.7246 | 0.2161 | | | |
| 2021-11-17 11:23:00 | 21 | 5 | 384 | 0.8203 | 0.3844 | 0.7619 | 0.2169 | | | |
| 2021-11-17 13:17:00 | 22 | 6 | 384 | 0.9401 | 0.2376 | 0.4563 | 0.2175 | | | |
| 2021-11-18 11:17:00 | 23 | 7 | 384 | 0.9271 | 0.2603 | 0.6079 | 0.2106 | | | |
| 2021-11-18 13:20:00 | 24 | 8 | 384 | 0.9141 | 0.2806 | 0.6018 | 0.2103 | | | |
| 2021-11-18 13:58:00 | 25 | 9 | 384 | 0.9115 | 0.2845 | 0.5227 | 0.1956 | | | |
| 2021-11-19 09:59:00 | 26 | 10 | 384 | 0.9583 | 0.2001 | 0.5568 | 0.2058 | | | |
| 2021-11-19 11:08:00 | 27 | 11 | 384 | 0.8854 | 0.3189 | 0.6391 | 0.2478 | | | |
| 2021-11-19 13:24:00 | 28 | 12 | 384 | 0.9167 | 0.2767 | 0.6059 | 0.2302 | | | |
| 2021-11-19 14:34:00 | 29 | 13 | 384 | 0.8047 | 0.3970 | 0.8385 | 0.2199 | | | |
| 2021-11-19 15:42:00 | 30 | 14 | 384 | 0.8854 | 0.3189 | 0.5718 | 0.1776 | | | |
| 2021-11-22 10:03:00 | 31 | 15 | 384 | 0.8203 | 0.3844 | 0.7418 | 0.2777 | | | |
| 2021-11-22 14:35:00 | 32 | 16 | 384 | 0.8854 | 0.3189 | 0.7482 | 0.2146 | | | |
| 2021-11-22 15:49:00 | 33 | 1 | 384 | 0.8958 | 0.3059 | 0.5070 | 0.2393 | | | |
| 2021-11-23 10:06:00 | 34 | 2 | 384 | 0.9010 | 0.2990 | 0.6427 | 0.2494 | | | |
| 2021-11-23 11:35:00 | 35 | 3 | 384 | 0.9401 | 0.2376 | 0.6231 | 0.2191 | | | |
| 2021-11-23 13:20:00 | 36 | 4 | 384 | 0.9193 | 0.2728 | 0.5859 | 0.2462 | | | |
| 2021-11-23 14:24:00 | 37 | 5 | 384 | 0.8750 | 0.3312 | 0.5795 | 0.2441 | | | |

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 |
|----------|----------------------|-------------------|----------|----------------------|---------------------|----------------------|
| posture | congruant Trial Type | switch Trial Type | | | | |
| sitting | congruant | noswitch | 0.9338 | 0.2486 | 0.5573 | 0.2181 |
| | | switch | 0.8179 | 0.3860 | 0.6535 | 0.2590 |
| | incongruant | noswitch | 0.9103 | 0.2858 | 0.5874 | 0.2388 |
| | | switch | 0.8920 | 0.3104 | 0.6280 | 0.2449 |
| standing | congruant | noswitch | 0.9122 | 0.2831 | 0.5724 | 0.2307 |
| | | switch | 0.8287 | 0.3768 | 0.6570 | 0.2624 |
| | incongruant | noswitch | 0.8912 | 0.3115 | 0.5860 | 0.2366 |
| | | switch | 0.8829 | 0.3216 | 0.6343 | 0.2477 |

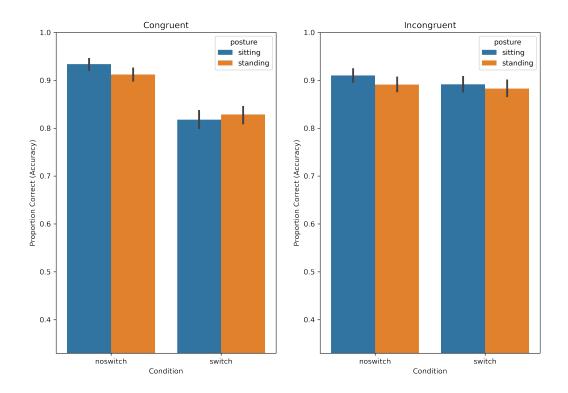


Figure 1: Accuracy from Experiment (replication of task switching). The results show proportion of correct responses (or accuracy) broken down by experiment conditions (congruent vs. incongruent trials, switch vs. no switch trials, in the standing or sitting posture). Error bars represent 95% confidence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

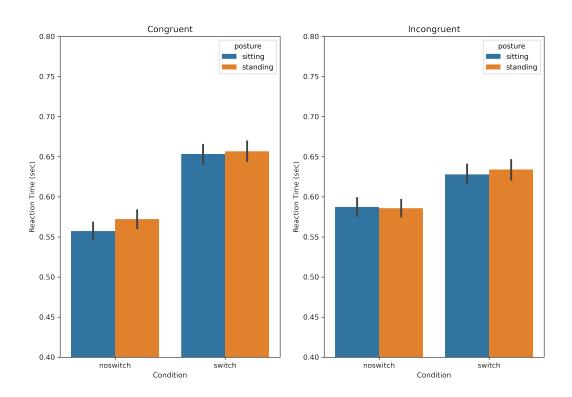


Figure 2: Reaction time from Experiment (replication of task switching). The results show average reaction times broken down by experiment conditions (congruent vs. incongruent, switch vs. no switch trials, in the standing or sitting posture). Error bars represent 95% confidence interval.