Supplementary file 2: ANOVA marginal tests for the effect of target direction on the change in peak hand velocity due to cerebellar block relative to control. (DF: degrees of freedom)

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| **Model: Peak velocity change ~ Target + (1 + Target | Subject)** |
| **Term** | **F-Statistic** | **DF1** | **DF2** | **p-value** |
| Intercept | 6.66 | 1 | 774 | 0.01 |
| Target | 4.89 | 7 | 774 | < 0.001 |

**Description:** Movements exhibited a significant reduction in peak hand velocity during the cerebellar block in a target-dependent manner. The change in peak hand velocity was modeled using a linear mixed-effects model, with target as a fixed effect and random intercepts and slopes for target within each subject (i.e. monkey). For each session, the target-wise change in the median peak hand velocity during the cerebellar block trials was computed relative to that of control trials. The input to the model was the target-wise values computed from all sessions pooled across all four monkeys. The significant effect of target direction on the change in peak velocity can be interpreted as analogous to the interaction between cerebellar block and target direction on the actual peak velocities.