README

Raw data for each subject and for each block of trials are stored as separate Matlab cell arrays [‘**all\_data’**] named as **subj#-block#.mat**

Each cell of ‘all\_data’ contains all the relevant information about a given trial organized as a Matlab data structure. A description of the most relevant fields of the data structure is reported below.

* **Trial**: trial number
* **Tapping**: analog (voltage) data acquired from the button [10-s acquisition, sampling rate 1000 Hz]
* **Sound**: analog (voltage) data acquired from the loudspeakers [10-s acquisition, sampling rate 1000 Hz]
* **LED\_STIM**:analog (voltage) data acquired from the yellow stimulus LED [10-s acquisition, sampling rate 1000 Hz]
* **LED\_FIX**: analog (voltage) data acquired from the red fixation LED [10-s acquisition, sampling rate 1000 Hz]
* **STIM\_LAT\_postmov**: stimulus latency relative to 3rd tap onset [ms]
* **STIM\_LAT\_premov**: stimulus latency relative to 4th tap onset [ms]
* **SOA**: probe time interval [ms]
* **RESP**: subject response [1-longer, 0-shorter]
* **REJECTED**: variable indicating whether to discard trial [1-discard, 0-accept]. Trial rejection may have occurred based on technical problems during trial recording, participants’ self-report of being distracted and any other issue undermining data reliability.

**\*Important note**: the first two trials of each cell array are related to the presentation of the standard stimulus at the beginning of each block and have to be discarded [main structure fields are empty].