Data format for SAT task  
Based off of EventTranslator\_SAT() from Rich Heitz  
Values currently used

**FixAcqTime\_ - Exponential distribution, mean ~-1500 ms  
FixAcqTime\_ - FixOn\_ usually equals 100-200 ms  
FixTime\_Jit\_ ?? – Exponential distribution, mean ~1500 ms**

**TrialStart\_ - Contains timestamp from beginning of session**

**Tone and juice reward**

* Tone and reward were presented only on *Correct* trials.
* For **Da**, tone (BellOn\_) and reward (JuiceOn\_) were presented simultaneously during the first four sessions, and tone preceded reward by 100 ms during the final four sessions.
* For **Eu**, tone and reward were presented simultaneously during the first four sessions, and tone preceded reward by 100 ms during the final two sessions.
* For **Q** and **S**, variables BellOn\_ and JuiceOn\_ are not available.
* Target hold time (i.e., time until reward delivery) was typically ~700-800 ms after RT (some minor jitter).

**Errors\_**

|  |  |
| --- | --- |
| Column | Description |
| 1 | Catch error |
| 2 | Fixation point hold error (no saccade generated) |
| 3 | Latency error (??) |
| 4 | Target hold error |
| 5 | Choice error |
| 6 | Correct choice but timing error Accurate |
| 7 | Correct choice but timing error Fast |

**SAT\_**

|  |  |
| --- | --- |
| Column | Description |
| 1 | SAT blocking condition (??) |
| 2 | SAT condition |
| 3 | Response deadline |
| 4 | Percentile (??) |
| 5 | Reward (ms) |
| 6 | Percent catch trials (0) |
| 7 | Punish time for direction error (2000) |
| 8 | Punish time for no response (0 or 6020) |
| 9 | Duration of search array (??) (2000) – **Always 2000 ms (Da, Eu, Q, and S)** |
| 10 | Length of mini-blocks (-1??) |
| 11 | **Clear display at deadline in FAST (1/0)** |
| 12 | NaN or 100 |

**Stimuli\_** - Actual stimuli presented (numeric codes) **\*\*\***

**Target\_**

|  |  |
| --- | --- |
| Column | Description |
| 1 | Sample (ms) corresponding to array stimulus onset |
| 2 | Target octant of display |
| 3 | Target color (numeric code = 1) |
| 4 | Min target CLUT (numeric code = 140) (higher = brighter) |
| 5 | Set size (8) |
| 6 | Set size condition (2 = 8 constant, 3 = random) |
| 7 | NaN |
| 8 | NaN |
| 9 | Task type (0 = fixation, 1 = detection, 2 = MG/SEARCH |
| 10 | Hold time (??) |
| 11 | Heterogeneous (0 = no, 1 = yes) |
| 12 | Stimulus eccentricity |
| 13 | NaN |
| 14 | NaN |