**README file for Win/Loss Lottery Double Stim experiment:**

Processing Scripts

Instructions / Script Order:

1. **convert2csv.m**
   1. This script will convert the eye tracking (.asc file) and behavioral data (.m file) to a CSV file that Is much easier to read. This script must be run first. Input the subjects ID into the SID list and click the “run” button.
2. **correctFeedbackScreen.R**
   1. The task was mistakenly programed in such a way that the Eye-Tracker records 1 second longer than it should after the subject makes their choice. This script corrects for that by removing the superfluous Eye-Tracking data.
3. **cleanFix.R**
   1. This script will clean up the fixation data removing initial fixation, saccades, and other random noise.
4. **QualityCheck.m**
   1. This script will evaluate the quality of the data for a given subject based on various criteria such as Average reaction time, missing data, and % correct choices made.

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Script Descriptions:

* **convert2csv.m**
  + This script converts the raw data into CSV files.
  + The script is set up to be run in the “data\_processing\_code” folder and read in data from the “data” folder. Change the path in the script to wherever you store your data, and it should work fine.
  + Required files (must be in subjects data folder):
    - expdata\_SID.mat
    - SID\_win.asc
    - SID\_los.asc
  + Input:
    - Input the subjects ID that you wish to process into the SID. Multiple SID’s can be entered for batch processing
  + Output files:
    - choice\_SID\_win.csv
    - choice\_SID\_loss.csv
    - raw\_fixations\_SID\_win.csv
    - raw\_fixations\_SID\_loss.csv
* **correctFeedbackScreen.R**
  + This script corrects for and removes superfluous recorded eye-tracking data.
  + Required files (must be in subjects data folder):
    - choice\_SID\_win.csv
    - choice\_SID\_loss.csv
    - raw\_fixations\_SID\_win.csv
    - raw\_fixations\_SID\_loss.csv
  + Input:
    - Input the subjects ID that you wish to process into the SID. Multiple SID’s can be entered for batch processing
  + Output files:
    - Raw\_fixations\_SID\_win\_corr.csv
    - Raw\_fixations\_SID\_loss\_corr.csv
* **cleanFix.R**
  + This script will clean up the fixation data removing initial fixation, saccades, and other random noise.
  + Required files (must be in subjects data folder):
    - Raw\_fixations\_SID\_win\_corr.csv
    - Raw\_fixations\_SID\_loss\_corr.csv
  + Input:
    - Input the subjects ID that you wish to process into the SID. Multiple SID’s can be entered for batch processing
  + Output files:
    - cleanFix\_SID\_win\_corr.csv
    - cleanFix\_SID\_loss\_corr.csv
* **QualityCheck.m**
  + This script will evaluate the quality of the data for a given subject based on various criteria such as Average reaction time, missing data, and % correct choices made.
  + Required files (must be in subjects data folder):
    - expdata\_SID.mat
    - SID\_win.asc
    - SID\_los.asc
  + Required scripts (must be in the same folder as main script):
    - Readfixaitons.m
    - GetItem.m
  + Input:
    - Input the subjects ID that you wish to process into the SID. Multiple SID’s can be entered for batch processing
  + Output:
    - Will output quality of data to the console