

Data guide

(1) Overview

- experiment_interface.zip: The experiment interface used by participants.
- all_data.zip: Contains one folder per participant. Each folder has:
 - An Excel file (trial-level raw data).
 - A fixture JSON file (eye-tracking data).
- data_preprocess.py: Loops through all folders, computes variables (eye-tracking metrics, reaction times, etc.), and keeps only variables relevant to the study.
- all_data_cleaned.xlsx: Final dataset used for further analysis.

(2) Variables

The following are explanations of the variables included in the dataset:

Variable name	type	explanation
sender	string	No use
timestamp	double	Timestamp of trial events
final_decision	string	Participant's initial decision, same/different
Initial_decision	string	Participant's final decision, same/different
True_value	Byte	Ground truth: TRUE=same and FALSE=different.
ai_conf	Byte	AI's confidence shown to participant (fixed values: 55, 60, 65, 70, 75, 80, 85, 90)
ai_advice	String	AI's advice shown to participant: same, different
gaze_data	String	Includes eye-tracking coordinates and duration of participants
AOI_faces	Double	Fixation duration in face area
AOI_AI	Double	Fixation duration in AI area
Total_duration	Double	Total fixation duration on the screen
participant_id	Integer	Participant ID
ai_score	Byte	AI literacy score, integer, from -8 to 8
trial_nr	Integer	Trial number

Initial_confidence	byte	Participant's confidence in initial decision, integer, from 50 to 100
Final_confidence	byte	Participant's confidence in final decision, integer, from 50 to 100
Init_rt	Double	Participant's reaction time in initial decision
Init_conf_rt	Double	Participant's reaction time in initial confidence
Final_decision_rt	Double	Participant's reaction time in final decision
Final_conf_rt	Double	Participant's reaction time in final confidence