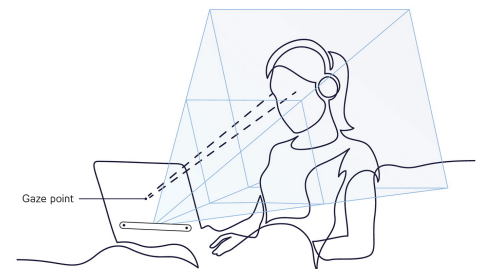


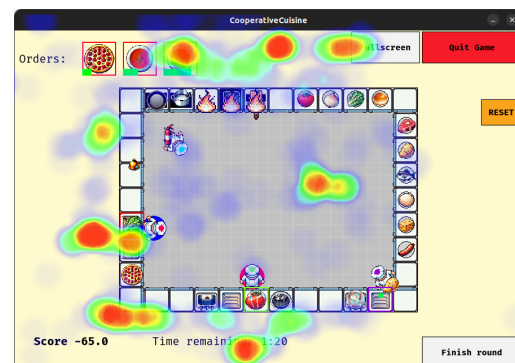
Investigating Cooperative Behavior through Eye-tracking in a Collaborative Cooking Game

Bachelor/Master - We are offering an exciting thesis opportunity to conduct a study using eye-tracking technology within a newly developed Overcooked-like “Cooperative Cuisine” environment. The student will explore how human players use visual attention when cooperating under varying conditions such as environmental complexity, time pressure, and the necessity for teamwork. This research will involve setting up the study, formulating hypotheses on cooperative behavior and attention, and analyzing eye-tracking data to derive meaningful insights. (Long, 2024)^a



Tasks

- Review existing eye-tracking studies to inform the study setup.
- Develop hypotheses related to cooperation, player attention, and eye-tracking behavior.
- Design and implement the eye-tracking study within the “Cooperative Cuisine” environment.
- Analyze the collected eye-tracking data to evaluate player interactions and behavior.
- Compile and present the results, offering conclusions and potential future research directions.



Your Profile / Learning Goals

- Gain hands-on experience with eyetracking technology and experimental design.
- Enhance skills in data analysis and interpretation of eyetracking data.
- Improve research skills through documentation and presentation of findings.

Interested?

If you are interested or have further questions, please send an email to fschroeder@techfak.uni-bielefeld.de.