Progress Report: Stages of Distraction

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Motivation

The main purpose of this project is to create better Augmentative and Alternative Communication (AAC) or speech assistant devices for people with disability. This research represents the first step to better understanding distraction.

Methods

The Experiments

- Figure 2a: Typer B uses a keyboard to type
- Figure 2b: Typer B uses a remote control to type
- Figure 3: Colors indicate where Speaker A is looking

Coding Schemes For Gaze Location and Speaking:

- Figure 4: Vertical heights indicate the types of speaking

Future Works

By understanding distraction in conversations employing AAC devices, we will be able to detect it and create a solution to prevent it from happening. We hope this will allow AAC users to have more engaged conversations with other people.

Acknowledgements

This project was supported by: URISC and OSURA.

Special thanks to: Morgan Stosic, Hannah Huntington, Amanda Sebring, Lily Chen, Danielle Gerding, Jazlyn Mitchell, Shanshan Lu, Whitney Iparaguirre, Kyung Pak, Matthew Rueben, and Ameer Almuaybid.

Plots of Gaze Location (color coded) over Time of Person Speaking to AAC User as a Function of Who is Talking