Study Video Qualitative Coding Procedure

Each study session consisted of one team performing 12 trials in each of two modalities: desktop and augmented reality (AR). Study sessions were video and audio recorded. One video showed all 12 trials for a particular team working in a particular modality.

Each video was qualitatively coded through a three-step process. Videos were initially divided up among three coders, so that each video was independently reviewed by two coders.

First Pass

Coders independently reviewed the videos assigned to them, and encoded Utterances, Gestures, and Looks according to the "Encoding Instructions" document (included in the supplemental materials for the paper).

Comparison

The coding for each video was compared to look for any discrepancies. Discrepancies were marked for resolution.

Resolution

The third coder, the one who had not previously reviewed the video the discrepancy was on, reviewed the discrepancy (with each of the first coder's choices anonymized). The third coder reviewed the video and then selected one of the two choices. This selection was considered the final determination.

Output

The results of the video coding were output into a Video Encoding Event Table and added to the supplemental materials for the paper.