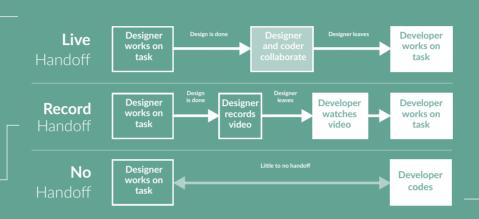
Structured Handoffs in Expert Crowdsourcing Improve Communication and Work Output

Expert crowdsourcing allows individuals to assemble specialized, remote teams with expertises to complete projects, often large, that involve multiple stages. Often, its execution is complicated due to communication difficulties between remote workers. How can we increase both work quality and the experience overall for both authors/project managers and workers in an expert crowdsourcing platform?



Live and recorded handoff methods 1) improve satisfaction for workers with creative tasks. 2) improve communication of non-obvious instructions, and 3) increase adherence to the original intent of the project.















Motivation

As the availability of technical work move further away, there is a salient need to engage a crowd effort towards collaborative complex projects. Expert crowdsourcing allows collaboration by several workers, each in an expert competency, in a structured manner.

This introduces complications in coordination and conflict, which is similar to coordination neglect in traditional organizations. Information needs to be conveyed and communicated from one worker to another in a structured format. So that the new worker can sufficiently digest the previous work.

Approach

We explore the value of various handoff methods, as applied to projects that require technical and creative expertise. We assess if certain methods can be used to improve overall output quality and reduce the weight of integration and error fixing costs that negate the crowdsourcing experience.

We prototyped various methods using a bread-first search that involved: summary recordings (written vs spoken), automated summaries generated by system, pairing sessions where workers faded in/out, test driven design/development, etc.

Study Design

This study involved web design and coding. We designed our task to: 1) Have precedence and relevance to the crowdsourcing community. 2.) Have open ended solutions allowing creative licensing 3) Complicated, requiring technical capability and presenting challenges. 4. Short enough for the allotted time. 6. Require communication of different areas of expertise among workers.

Participants worked together to build a newsfeed webpage to display and categorize new items. Existing sites like the New York Times are referenced to provide a baseline.

Next Steps

We envision one portal where workers navigate through handoff instructions, e.g. a project management system that automates communication among workers by synthesizing outputs, screen captures and videos. We plan to run series of longer experiments and on more methods of handoffs to yield clearer dependent variables.

We want to focus on not just work quality, but the implications of handoffs on team identity and error checking. We would like to explore outside of the software/design realm to other commonly outsourced tasks including writing, advertising, industry work.