Web Accessibility Evaluation with the Crowd: Using Glance to Rapidly Code User Testing Video

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User tests are an important part of web accessibility evaluation, but they take a lot of time and energy to conduct and evaluate.

Glance is a crowd-powered video coding tool that provides answers to analysts within seconds.
- Workers get a short segment from a video.
- Multiple coders increase reliability.
- Crowd workers are screened for quality.

Glance makes evaluating the results of a user study faster and easier.

**Envisioned Interaction**
1. Record videos of users interacting with website.
2. Use Glance to code videos based off of WCAG2 guidelines, such as “user encounters unreadable or difficult to understand text.”
3. Use Glance’s results to fix trouble spots.

**Feasibility Experiment**
- Evaluation - 20 MTurk workers, 3.5 minute video consisting of visually-impaired users using a website on a desktop computer.
- Coded for WCAG2 guideline “make content appear and operate in predictable ways.”
- Precision of 80% and recall of 100%. Comparable to other anticipated uses of Glance.

**Future Work**
Glance has many possible applications within accessibility, including:
- Use Glance to file a text-based bug report to developers.
- Disabled users uploading video of their interaction with a website or app that is not accessible, use Glance to get help.

**REFERENCES**