

Outreachy Mozilla Accessibility Internship 5/14 - 8/14

Project Description:

The accessibility internship and planned milestones will serve to further promote web accessibility for users with disabilities. More specifically, this particular project will allow screen reader users to have access to text within images with the use of tesseract.js.

The internship will require collaborating with different teams within Mozilla (Test Pilot, Add-ons, Accessibility) and mentorship from 2 Mozillians: Yura Zenevich and Matthew Brandt. Like all Outreachy internships I will maintain a blog of work progress and do a final presentation of accomplished work.

The Problem: Currently screen reader users are unable to access text within images, this is a web accessibility issue. All users should have complete access to available content on the web. This type of content is increasingly more prevalent, seen in memes, comics, document scans, photos, diagrams, etc.

Possible Solution: Project Naptha is able to access this content but it is not currently available to Firefox users. This internship will aim to use tesseract.js functionality with the addition of JavaScript to make text within images accessible to screen reader users within Firefox.

Scope of Work:

- Deep dive into web accessibility documentation, WCAG.
- Port Project Naptha to Firefox Quantum (possible milestone).
- Collaboration with Test Pilot, Accessibility teams among others.
- Create tool with use of PN that will grab text within images that are currently inaccessible to screen readers and make them accessible without visibly altering the page (milestone).
- Make tool into PN-like extension to use globally on web.
- Collaborate with Add Ons team to curate and add feature collection.

This internship will be an opportunity to work closely with members of Mozilla's Test Engineering, Accessibility, and Add Ons teams. It will expand your existing JavaScript skills and will give you the opportunity to learn more about web accessibility standards, porting and creating extensions. You also be given insight into how teams from different browsers collaborate to promote and respect web accessibility and make the web more inclusive for everyone.