web-platform-tests 2021 priorities

Previous year (set in 2019): [2020 priorities](#)
[TPAC 2020 agenda/notes](#).

This list should be taken as a set of high-level areas that WPT feels are important in 2021, with some concrete suggestions as to how improvements might be made. There is no guarantee that any particular area or idea will actually be worked on in 2021.

Community Development / Diversity, Equity and Inclusion

- Participate in a paid contribution program, e.g. Google Summer of Code.
  - [Preferably for historically underrepresented groups.]
- Better documentation and navigation for folks who are new to the project.
  - Common header linking across WPT-owned websites (wpt.fyi, wpt.live, etc).
- Effective Code of Conduct enforcement/moderation.
- Invest in test PR review.
  - Prioritize PRs from humans - [github.com/search](#)
  - Put together a funding matching program for PR review

Improve interop between browsers

- Surface high-priority test failures in wpt.fyi and elsewhere
  - "Browser-specific failures" is the core metric for this, but others may be interesting.
- Allow users to register for notifications about 'interesting' changes in tests.
  - New browser-specific failures would be a possible interesting event.
- Support WebKit in better integrating with WPT.
  - WPT changes are likely not on the critical path (e.g. mostly internal tooling changes needed for WebKit)
- Build a webcompat.com-like workflow in the Chromium project.

Migrate browser engines from internal tests to WPT

- Make it easier to use WebDriver to add automation features for WPT tests.
- Drive down 'feature gaps' between WPT and internal testing setups.
  - Browser testing API spec.
- Make writing WPT tests more ergonomic.
  - Make the list of passed asserts visible and easy to get to.
  - Have testharness.js set useful debugging log-points automatically.
- Invest in training and mentorship of browser engineers.
  - Better documentation for WPT, including more new-user focused guides.
- Make it easier to understand the 'why' when PRs to WPT go wrong.

○ Stability checks can't timeout.

Regular test results from WPT running on mobile browsers

- [Impacts accessibility, interop, testing mobile-specific features, etc]
- Potential partnership with a service like browser stack.
  - [Taskcluster is unlikely to be able to provide the necessary hardware in 2021.]

Support the CSSWG

- Export automated tests from wpt.fyi to CSSWG test harness
- Ability to group tests by spec on wpt.fyi

Reduce the number of manual tests in WPT

- Measure and report on manual test counts over time.
- Drive down issues that require manual tests.
  - See type:untestable for some likely problems to be fixed.
- Automate existing manual tests that can already be automated.
  - This naive search query finds many tests that are manual today.

Accessibility testing

- Extend WebDriver with accessibility methods.
- Use the accessibility object model (AOM) in tests.
- Create assistive technology (AT) automation.

Accessibility of WPT tools

- Perform usability testing of wpt.fyi with assistive technology users.
- Ensure structured results reporting from our tooling.

Privacy testing

- Consider reaching out to the privacy sandboxing project at Google, to inform how we might test privacy guarantees.