web-platform-tests GitHub transition plan

Self-link: https://bit.ly/wpt-transition

DID YOU GET AN INVITE TO THE ORG? See plan for collaborators & teams for why.

Background: A new GitHub organization for web-platform-tests thread on public-test-infra, continues in April. Conclusion was to move **w3c/web-platform-tests to web-platform-tests/wpt**. The https://github.com/web-platform-tests org already exists.

When: Move+rename happened on 2018-05-28

High level plan

1. Find all the dependencies and prepare them for the move
2. Sort out collaborators and teams (permissions)
3. Move w3c/web-platform-tests to web-platform-tests/wpt
4. Move other related repos

Dependencies

- ☑ Confirm GitHub's redirection works with a move+rename:
  - ○ Experiments can be done on web-platform-tests/results-collection (moved and renamed from w3c/wptdashboard)
  - ○ ☑ github.com URLs
  - ○ ☑ api.github.com endpoints
    - ■ https://api.github.com/repos/w3c/wptdashboard 301 redirects to https://api.github.com/repositories/87578197 and the response is the same as https://api.github.com/repos/web-platform-tests/results-collection, so presumably we are all good (any sane HTTP library in Python/Go should support 301 automatically)
    - ■ also tested https://api.github.com/repos/w3c/wptdashboard/pulls: redirection works & all history data are preserved
  - ○ ☑ git command line read/write operations
- ☑ Chromium's sync (https://github.com/chromium-wpt-export-bot, write access)
  - ○ ☑ Request new mirror at go/fix-chrome-git (old mirror will remain) (done)
  - ○ ☑ Update Chromium to use new mirror (done)
- ☑ Edge-internal tooling (John Jansen says "just modifying the path string in our tools")
- ☑ Gecko's sync (https://github.com/moz-wptsync-bot)

- ☑ Servo's sync (https://github.com/servo-wpt-sync)
- ☑ WebKit's import/export tooling
  - Update webkitpy/w3c/test_exporter.py
    - ☑ WPT_PR_URL
    - ☑ _ensure_wpt_repository
    - ☑ CLI documentation
    - ☑ Update fork url
  - Update webkitpy/w3c/test_importer.py
    - ☑ Update github url in logs
  - Update webkitpy/w3c/common.py
    - ☑ WPT_GH_ORG
    - ☑ WPT_GH_REPO_NAME
  - ☑ Update LayoutTests/imported/w3c/resources/TestRepositories
- ☑ Travis: w3c org has 10 concurrent jobs ($250/month), all orgs get 5 for free. Recommendation from Travis support is to move repo before setting up subscription. So we'll wait until after the move to see if we need more capacity or not.
- ☑ https://github.com/wpt-pr-bot (admin access)
  - ☑ Move ganesh repo to web-platform-tests org
  - ☑ Rename repo to wpt-pr-bot
  - ☑ Update Heroku deploy pipeline accordingly
  - ☑ Merge https://github.com/web-platform-tests/wpt-pr-bot/pull/20 following main repo migration. Should self-deploy within minutes.
  - ☑ Ownership of @wpt-pr-bot, its heroku app, etc.
- ☑ Reviewable (https://github.com/wpt-reviewable-bot)
- ☑ w3c-tests.org (w3c-bots) (confirmed to work with #11176)
- ☑ Standards (at least WHATWG has links all over)
  - ☑ Update Bikeshed templates (PR)
  - ☑ ~~Add ReSpec stale URL warning and update specs.~~
  - ☑ Search source repos of all specs for other occurrences. (done)

In these and other repos, searching for "w3c/web-platform-tests" or "w3c" + "web-platform-tests" in the same file *should* reveal where dependencies may be, with many false positives. Example:
`git grep -l web-platform-tests | xargs grep -lw w3c`

Services & webhooks

We have a number of services and webhooks (repo admin views) attached. Services:
- ☑ PR Preview (via w3c org, not needed, remove after move if still present)
- ☑ Email
- ☑ IRC (should require no action)
- ☑ Travis CI (see dependencies)
Webhooks:
- ☑ wpt-pr-bot (see dependencies)

- ☑ https://w3c-test.org/sync.py (in https://github.com/w3c/github_sync)
- ☑ Reviewable (see dependencies)
- ☑ An AWS URL ending in /prod/webhook (for gecko sync bot)
- ☑ https://pulls.web-platform-tests.org/api/pull (deleted by foolip after move)
- ☑ pyup.io (see bots below)

Collaborators & teams

GitHub has lots of ways to manage permissions. In w3c/web-platform-tests, we have a few teams attached:
- Bots (write, only viewable by w3c admins) has 2 bots:
  - w3c-bots is related to w3c-test.org, see above
  - w3c-bender's has only been updating testtwf-website, so doesn't need admin.
- csswg (read) these people wouldn't be possible to assign to issues or autocomplete if they're not transitioned to some other thing.
- Web Platform Testing (write) these people would lose ability to review and merge if they don't have access by any other way.
- Web Platform Testing and Tools Admins (admin)
- Web Platform Testing and Tools Owners (admin) is a strict subset of the above

Bots with admin access on the repo itself, see dependencies for details:
- https://github.com/wpt-pr-bot
- https://github.com/wpt-reviewable-bot

Bots with repo write access:
- https://github.com/chromium-wpt-export-bot
- https://github.com/moz-wptsync-bot
- https://github.com/pyup-bot
- https://github.com/servo-wpt-sync

Plan

Minimize outside collaborators (admin page), i.e. everyone in any repo or team is invited to the org. Benefits:
- Only the org invite will generate an invite, so this makes it easier to change the setup (splitting/merging teams, adding as direct repo collaborator, etc.) after the fact.
- Because the org member repository permissions (admin page) are set to "read", everyone in the org can be assigned and "@..." autocompletion in comments will work in all repos.

Steps:

- ☑ Invite everyone ([script](#)) with any access level in the w3c/web-platform-tests repo to the new web-platform-tests org. After a few weeks, maybe ping people who have been active in the past year but who haven't joined the org.
- ☑ Shortly before the move, create a reviewers team and add everyone who has write access and accepted the invite to that team.
- ☑ After the move, give the reviewers team write access to the repo. Remove all repo-level read collaborators. For the remaining repo-level write or admin collaborators, ping them again to join the org.
- ☑ [Remove OWNERS who have not joined the web-platform-tests org](#).

Discussion

Per jgraham on IRC we have these options:

    a) Use collaborators for everything at the repo level and org permissions for everything cross-repo
    b) Use some ad-hoc mix of teams and collaborators
    c) Use teams for everything

    b) is the current situation
    a) is nice because it doesn't require org access, but has the disadvantage that it's relative hard to tell who has what permissions
    c) makes auditing easier but adding people harder

To be a member of a team one has to first be a member of the org. The UI for inviting someone to a team is streamlined so that the one gets an invite to the org (as member) automatically. For an org admin, adding and removing people to teams once they are org members doesn't require any further invite or confirmation.

The WHATWG also [uses teams extensively](#). Can we learn something?

Also by jgraham on IRC: "Can we get a list of people who have actually reviewed a PR in the last year and just re-add them? Seems like a good chance to prune out people who are no longer active."

Moving and renaming the repo

1. Transfer w3c/web-platform-tests to web-platform-tests/web-platform-tests
2. Rename web-platform-tests/web-platform-tests to web-platform-tests/wpt
3. Set up Travis for the web-platform-tests/wpt repo and ensure that all bots operating on the repo still work.
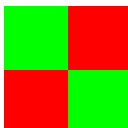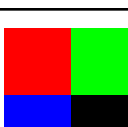4. Update [CONTRIBUTING.md](#).
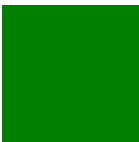
Other repos
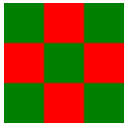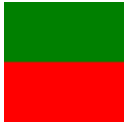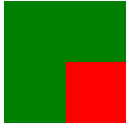
Repos that will *not* be moved:

- https://github.com/w3c/github_sync
- https://github.com/w3c/testharness.js
- https://github.com/w3c/test-results
- https://github.com/w3c/wptreport (still in use, see #25)
- https://github.com/w3c/wptrunner
- https://github.com/w3c/wptserve
- https://github.com/w3c/wpt-tools

Logo

An avatar for the org might be fun. Candidates from the repo and elsewhere:

path	image	votes
NO LOGO PLEASE		
Dinosaur off of http://testthewebforward.org (could also add fill colour, etc.)		gsnedders
Avatar of https://github.com/w3c-bots		
css/reference/ref-filled-green-100px-square.xht (the most common ref says gsnedders)		Ms2ger

css/CSS2/backgrounds/support/100x100-lime.png (and many like it)		
css/CSS2/support/red_box.png		
css/CSS2/backgrounds/support/pattern-grg-rgr-grg.png		
css/CSS2/backgrounds/support/60x60-gg-rr.png		
css/CSS2/support/pattern-gg-gr-100x100.png		
css/CSS2/tables/support/repeatable-diagonal-gradient-with-ticks.png		nox
images/grgr-256x256.png		
acid/acid2/reference.png		Ms2ger, * -1 gsnedders*
images/pattern.png		
Opera_8.54_Acid2.png (not in repo)		

testharness.js "Pass" screenshot (not in repo)	PASS	foolip
"wpt" encoded as morse code		jgraham plh *Tab* gsnedders *kereliuk*
"wpt" encoded as binary ascii		
Morse code, more balanced		foolip *Florian* *kereliuk* plh Ms2ger
Proposal by Bocoup Please look at the following link for more details about the visual identity and a mascot: https://www.dropbox.com/s/71ag1fd9xp9xwmp/WPT%20Visual%20identity.png?dl=0 (Note that the mascot has "wpt" in it.)		Simon *kereliuk* plh *Tab* foolip jgraham Gsnedders *marie* -1 annevk
Note: this is not meant as a standalone logo, but a mascot. It is part of the logo proposed above.		annevk ~~Simon~~ *kereliuk* plh *Tab* Mike gsnedders -1 jgraham
"There should be no red" cake		

* I think Acid 2 was a very different kind of test philosophy to wpt, and it's a bad idea to identify ourselves using that as a logo

** green is interpreted as a failure in Japan. (Florian: Really? Not that I am aware of. The main connotations I can think of from a Japanese point of view are traffic lights, nature, ecology (i.e. mostly the same). (Source: I live in Japan, my wife is Japanese)). (plh: hu… I always thought otherwise. But I still prefer the morse ones :)

Mascot (take 2)