

See [summary of discussions and resolutions](#).

WebPerf WG Agenda - TPAC 2016

[Time, Place, Rough agenda...](#)

[Triage L2 blocker spec issues](#)

[Administrative work](#)

[New APIs and WIP proposals](#)

[Long Tasks API proposal \(~1hr; panicker\)](#)

[\[Updated\] First Paint / First Contentful Paint proposals \(~2hr; panicker\)](#)

[Declarative marks / \[Updated\] Hero Timing" \(~1hr; igrigorik\)](#)

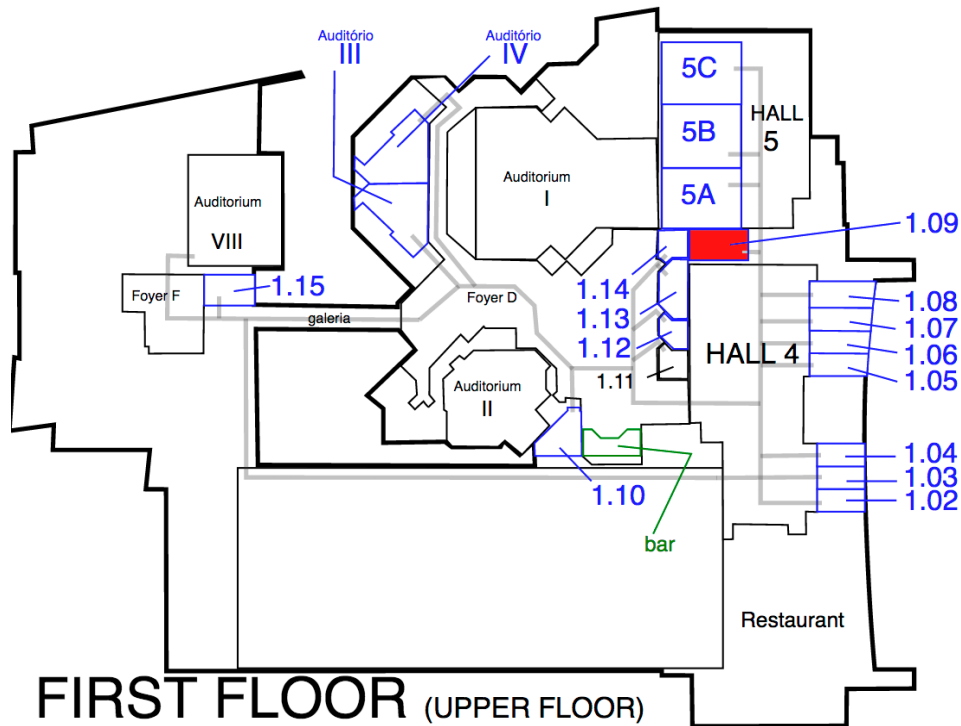
[Time to Interactive \(TTI\) \(~30m; paulirish\)](#)

[Memory API \(~30m; toddreif\)](#)

[Chrome Reflector \(~1hr; igrigorik\)](#)

[Other topics](#)

Time, Place, Rough agenda...



Webex / Remote participation:

https://www.w3.org/wiki/Web_Performance/Call_Information#TPAC_2016

Sept 22 (Thursday): Room 1.09, First Floor - Observers allowed

- 9AM-12PM:
 - [Triage blocker spec issues](#)
 - [Administrative work](#)
- 12PM-2PM: lunch
- 2PM-5PM:
 - SPA apps and Perf APIs (shubhie@)
 - AI: invite Soasta folks to webperf call to talk about use cases and what they'd like to see from browsers.
 - **Idea 1:** define "<prefix>-{name-format}" thingy that allows apps to identify meaningful transitions, a la [Traceviewer's convention](#)
 - **Idea 2:** emit new event for push state / hashchange?
 - **Idea 3:** expose "new PerformanceEntry" constructor~

```

pm = new PerformanceMark({
  name: 'start-nw',
  type: 'start',
});
pm.myOptions = ~
performance.addMark(pm);

```

- Device properties?
 - We have [NetInfo](#)
 - AI: Pull in Rob Trace to talk about this
 - [Battery status](#) API
 - [Hardware concurrency](#)
- **Memory notification API**
 - Constraint: can't update it with high precision (privacy/security)
 - <https://github.com/mounirlamouri/memory-pressure-api/blob/master/explaner.md>
 - low → high → critical
 - Expose navigator.memorypressure?
 - E.g. emit hint on requests initiated by SW
 - **AI:** start discussion on WICG for next steps on Mounir's proposal
 - **AI:** someone should start "Device memory class" discussion on WICG (e.g. [FB](#)'s device class)
 - **AI: could we report crashes?**
 - E.g. Facebook uses localStorage to record if unload fired; if on next visit the bool is not there, then "app crashed".
- If there is interest, updates on...

- Feature Policy
- L-next features:
 - <https://github.com/w3c/resource-timing/milestone/3>
 - <https://github.com/w3c/performance-timeline/issues/56>

Sept 23 (Friday): Room 1.09, First Floor - Observers allowed

- **[*NEW*]** [Summary of proposals](#) & discussions
- 9am-5pm:
 - Long Tasks API
 - CPU usage?
 - Scroll/input observer discussion
 - First Paint & First Contentful Paint
 - Time to Interactive
 - Declarative marks / Hero Timing
 - Chrome reflector
 - Dependency trees (via RT)
- AI
 - Get Rick to come talk about input

[Floor plans + other group schedules.](#)

Triage L2 blocker spec issues

1. User Timing: ~~[SYNTAX_ERR exception](#)~~
2. Resource Timing: ~~[inconsistent implementation of Timing-Allow-Origin](#)~~
3. Performance Timeline: ~~[case sensitivity](#)~~
4. HR Time: ~~[translating timestamps between globals](#)~~
5. Beacon: ~~[integration with Fetch API](#)~~

Administrative work

<https://www.w3.org/2016/07/webperf#deliverables>

1. L1 specs
 - a. Move [Beacon](#) to CR?
 - i. Land tests
 - ii. Fetch + keepAlive
 - iii. Should we drop sendBeacon on Workers?
 - b. Move [requestIdleCallback](#)
 - i. Address outstanding editorial feedback.

- ii. 2nd implementation? Firefox.
 - iii. Dig into adoption stats?
 - iv. Check if the tests are merged?
- c. Move Preload to CR?
 - i. Firefox is implementing; Webkit is underway.
 - ii. Test (AI: talk to Yoav)
- d. Move Resource Hints to CR?
 - i. AI: Search: what's the benefit, browser comparisons?
 - ii. We need some tests; tests may be manual.
 - iii. AI: Talk to Philippe about next steps.

2. L2 specs

- a. Move [Page Visibility](#)
 - i. AI: land Chrome change for onunload case for 2nd implementation
 - 1. Then ship CR
 - ii. Tests are in good shape; no open issues.
- b. Move [User Timing](#) to CR?
 - i. Land new tests + 2 implementations
 - ii. Tests should consider Worker
- c. Move HR-Time L2 to CR?
 - i. Land translate stuff into L3
 - ii. Tests for L2: worker, sharedworker, serviceworker
 - 1. CR...
- d. Move [Performance Timeline L2](#)
 - i. Remove EntryFilterOptions; land case sensitive update
 - ii. Refactor queue entry to append to perf observer in timeline
 - 1. Update tests
- e. Move [Navigation Timing L2](#) to CR?
 - i. Blocked on tests (and a 2nd implementation?)
- f. Move [Resource Timing L2](#) to CR?

New APIs and WIP proposals

[Long Tasks API proposal](#) (~1hr; panicker)

- V1 use cases, developer feedback, experimental data
- Security and privacy.
- V2 roadmap: attribution
- **Discuss:** migrate to webperf WG?

Measuring and improving scroll latency (~30m; rbyers)

- Measuring scroll latency: <http://rbyers.net/scroll-latency.html>
 - This technique has been very useful for Facebook
- Intervention guidelines: <https://github.com/WICG/interventions>
- Passive event listeners API:
<https://github.com/WICG/EventListenerOptions/blob/gh-pages/explainer.md>
- Forced passive touch listener intervention:
<https://github.com/WICG/interventions/issues/18>
- AI: Rick to get someone to propose [a ScriptBlockingScrollTiming API](#)

First Paint / First Contentful Paint proposals (~2hr; panicker)

- [PW Metrics Overview](#)
- Why we need a set of paint metrics
- Discuss definitions of FP and FCP

Declarative marks / Hero Timing" (~1hr; igrigorik)

- Use cases: scanned, parsed, vs. render

Time to Interactive (TTI) (~30m; paulirish)

- Use cases, experimental data, etc.

Memory API (~30m; toddreif)

- Follow up on the [F2F discussion in June](#).
- Anyone able to write it up?

Chrome Reflector (~1hr; igrigorik)

- Use cases, motivation, open questions, feedback.

Other topics

- Measuring Real Input Latency & SPA navigation timing
- Battery usage API?
- CPU usage API?

... please add your ideas / topics here ...