

# **RUM Community Group**

2025-06-20 Edition

# Agenda

- Logistics
- Next Meeting
- Agenda
  - Barry's Bytes (fetchLater, web-vitals v5?) (Barry Pollard) + Soft Navs (Michal Mocny)
  - Firefox interactionId (Nazim Can Altinova)
  - Unresponsive crash reports, Self Profiling (Issac Gerges)

# Logistics

- Meeting cadence
  - 2nd Friday of the Month
  - 60 minutes
  - 10am ET
- Agenda Document
  - ([bit.ly/rumcg-agenda](https://bit.ly/rumcg-agenda))
- Google Meet for Meetings
  - sub to [rumcg-participants](#) for invites
- Chat on Web Performance Slack  
#w3c-rum-community-group
  - ([invites](#))
- [public-rumcg@w3.org](mailto:public-rumcg@w3.org)
  - (for discussions)

- RUM CG Github Repo
  - [github.com/w3c-cg/rum](https://github.com/w3c-cg/rum)
  - Group details
  - Links
  - Meeting minutes?
- RUM CG Tracking Project
  - [github.com/orgs/w3c-cg/projects/1](https://github.com/orgs/w3c-cg/projects/1)
- Meeting Minutes via [fireflies.ai](#)  
(NEW)
  - AI summary + transcript will be posted after
  - Full video recording also available

# Next Meeting

- Fri August ??th @ 10am EST
  - 2nd Friday of each month
- Topics?
  - Implementation best practices
  - *(propose your topic here!)*
- Submit & Vote topics @ [bit.ly/rumcg-agenda](https://bit.ly/rumcg-agenda)

## Topics Backlog

- Better tracking/visibility into vendor positions (March 14)
- Top tracking issues (e.g. this [lighthouse issue](#)) (March 14)
- Baseline Project
- Funding browser work for features
- Header adoption (TAO, Server-timing)
- Browser vendor presentations
- Outreach to other groups (i.e. 3rd Parties, CDNs)
- Ad Blockers & tracking protection
- Implementation best practices
  - When to fire the beacon/how to deliver
  - SPA support
- Making sure we don't step on each other's toes (i.e. clearing RT buffers, multiple vendors on a page, etc.)
- Open source
- Securing the beacon
- RUM Archive



2



2



1



2



1



1



1

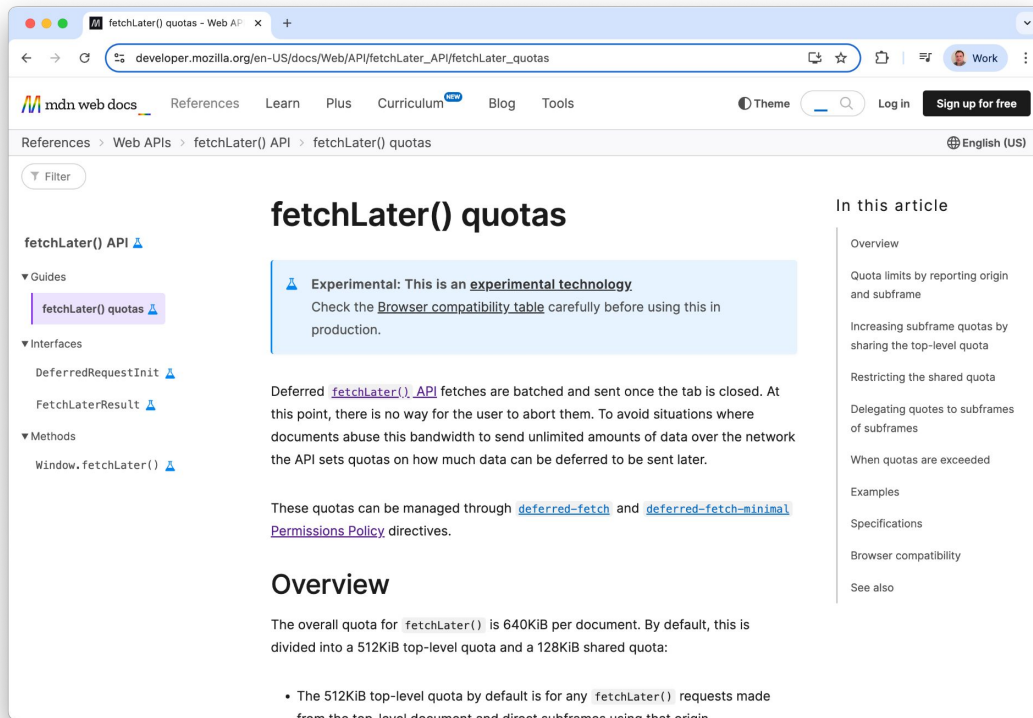


# What's new in WebPerf from Google

- Soft Navs - Michael covering
- FetchLater and quotas
- web-vitals v5 and some thoughts on how to use LoAF
- Speculation Rules improvements
- Compression Dictionary Transport

# FetchLater and quotas

- FetchLater has strict quotas
- Sometimes this hits in unexpected ways ([crbug.com/410528357](https://crbug.com/410528357))
- Check it and **prepare to fallback**
- Read the docs

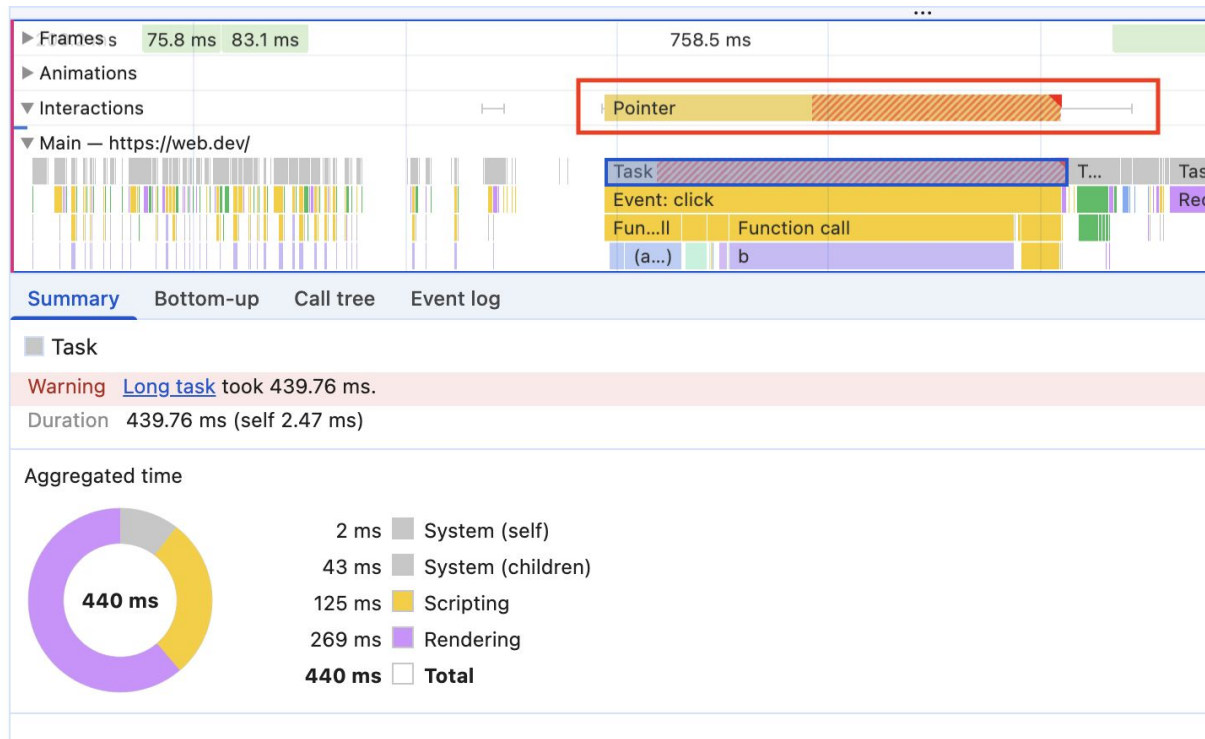


# web-vitals v5

- Only maintained branch going forward
- onFID() has been removed
- We use Baseline Widely available for code and builds
- Improved LoAF attribution (covering in next slides)
- Saves element targets when performance observers fire, even if not reported until later (less unknown targets)
- Custom element selector if needed
- Memory and event handlers improvements



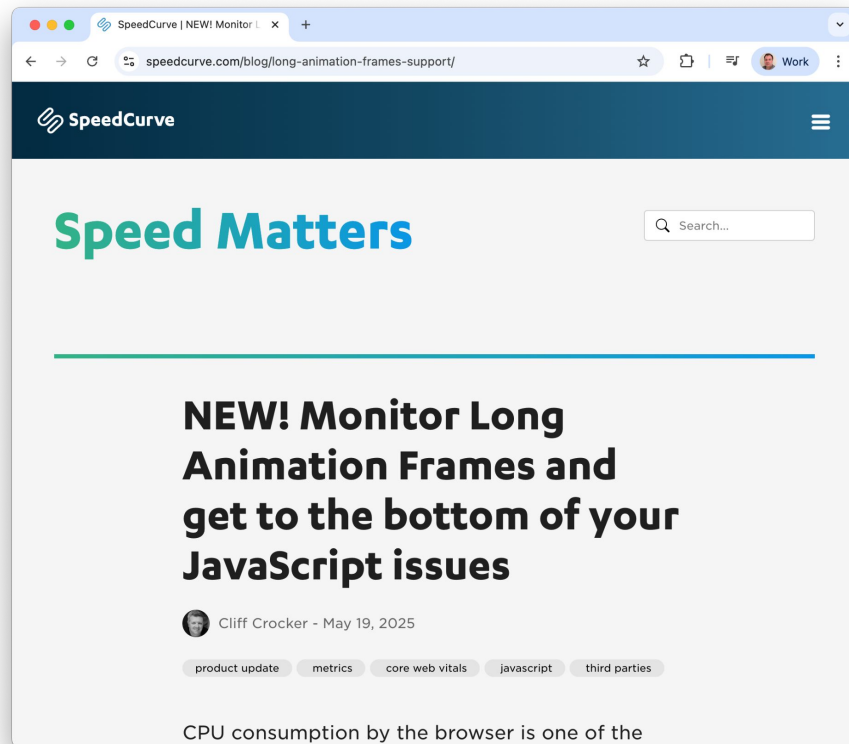
# web-vitals v5 - improved LoAF attribution



# web-vitals v5 - improved LoAF attribution

- LoAF contains a LOT of data
- Can beacon it all
  - Speed Curve does this
  - But that's **a lot** to beacon
- Can beacon a sampling of users
  - But miss stuff
- Can beacon only some stuff
  - E.g. longest script

We wanted to look more at the last option for web-vitals v5



Time



INP value



Event handlers



Time



The diagram illustrates the components of INP (Input-Process-Presentation) value over time. A horizontal timeline arrow at the top is labeled 'Time'. Below it, a bracket labeled 'INP value' spans the entire duration. This duration is divided into three segments: 'Input delay', 'Processing duration', and 'Presentation delay'. A yellow box labeled 'Event handlers' is positioned within the 'Processing duration' segment, indicating the time taken for the system to process the input.

INP value

Input  
delay

Processing  
duration

Presentation  
delay

Event handlers

Time

The diagram illustrates the timing of an INP value and animation frames over time. A horizontal arrow at the top is labeled 'Time'. Below it, a bracket labeled 'INP value' spans three phases: 'Input delay', 'Processing duration', and 'Presentation delay'. A yellow box labeled 'Event handlers' is positioned below these phases, starting at the end of the 'Input delay' and ending at the end of the 'Presentation delay'. Two red boxes labeled 'Long animation frame' are shown below the event handlers. The first red box starts at the beginning of the timeline and ends at the start of the 'Event handlers' box. The second red box starts at the end of the 'Event handlers' box and continues to the right.

INP value

Input  
delay

Processing  
duration

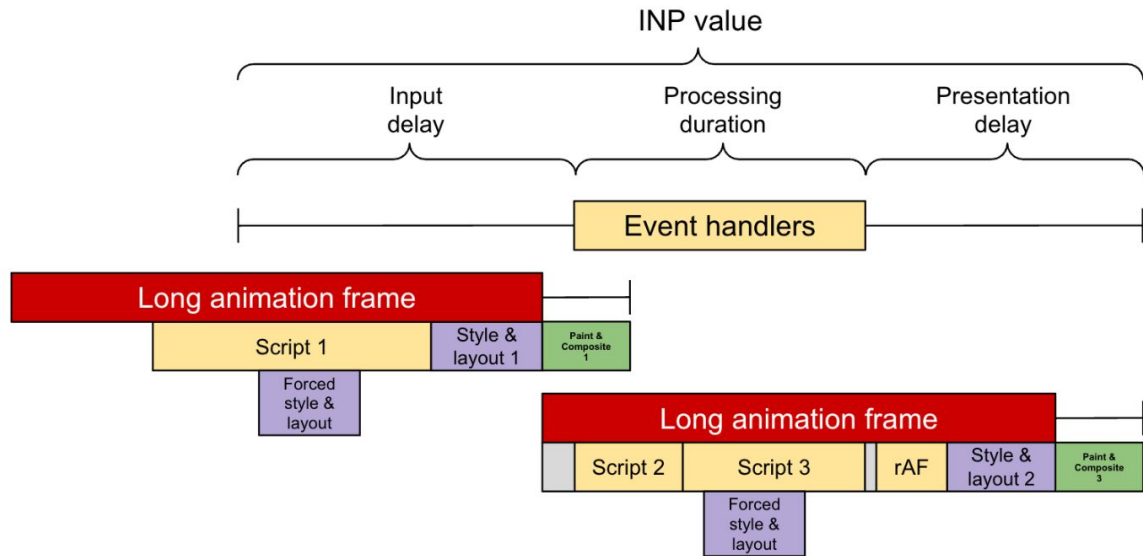
Presentation  
delay

Event handlers

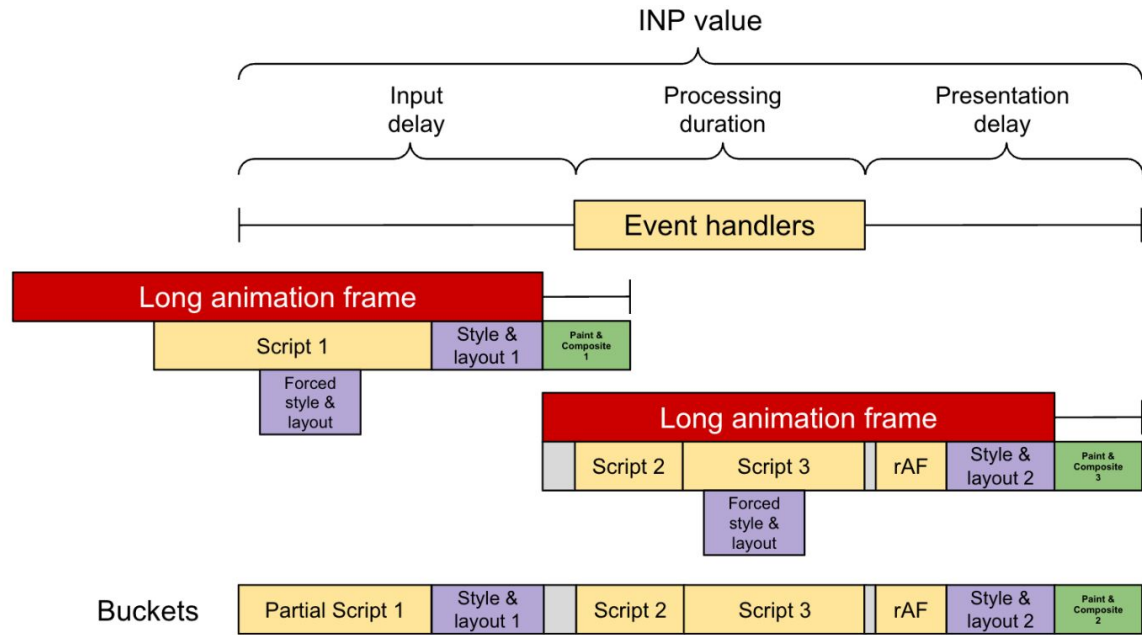
Long animation frame

Long animation frame

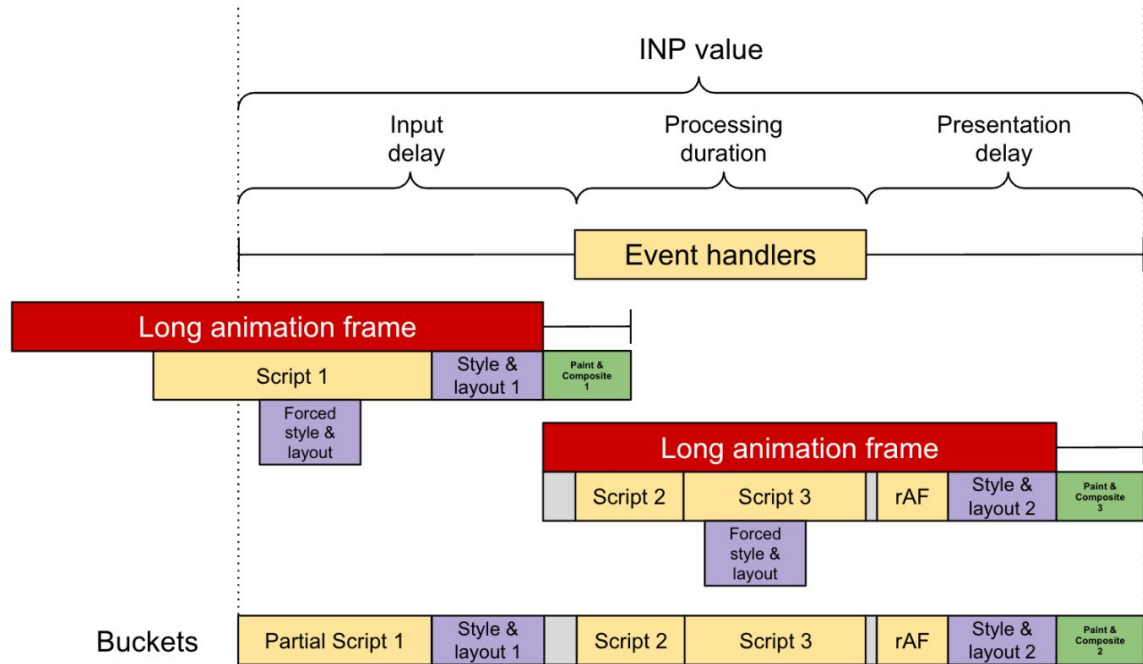
Time



Time



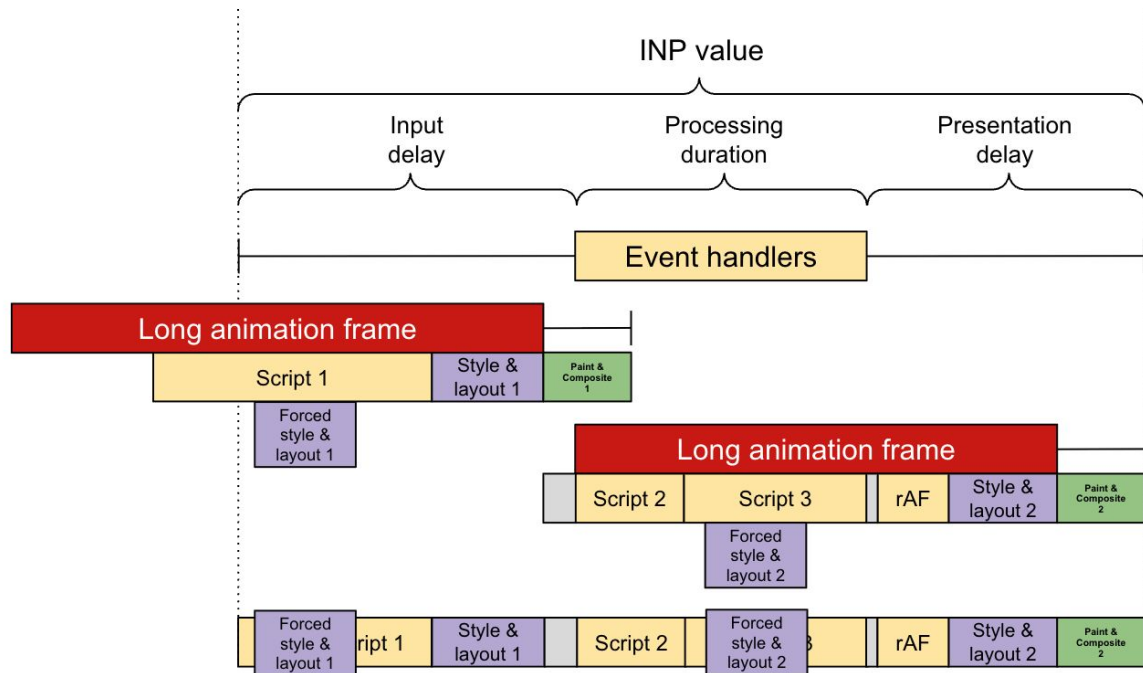
Time



Note: LoAF1 P&C dropped  
(As is forced Style & Layout)

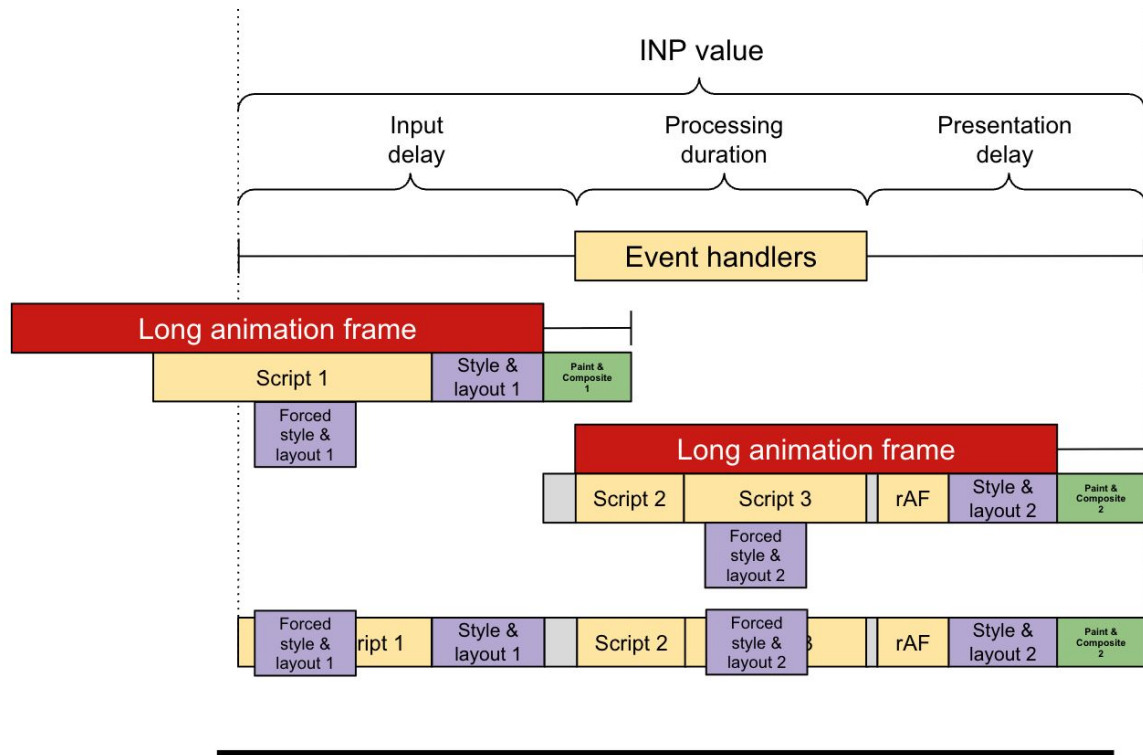


Time



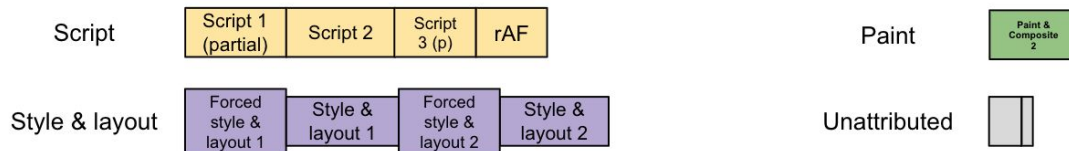
*Note: LoAF1 P&C dropped  
and Forced Style & Layout  
subtracted from scripts  
(same as DevTools)*

Time

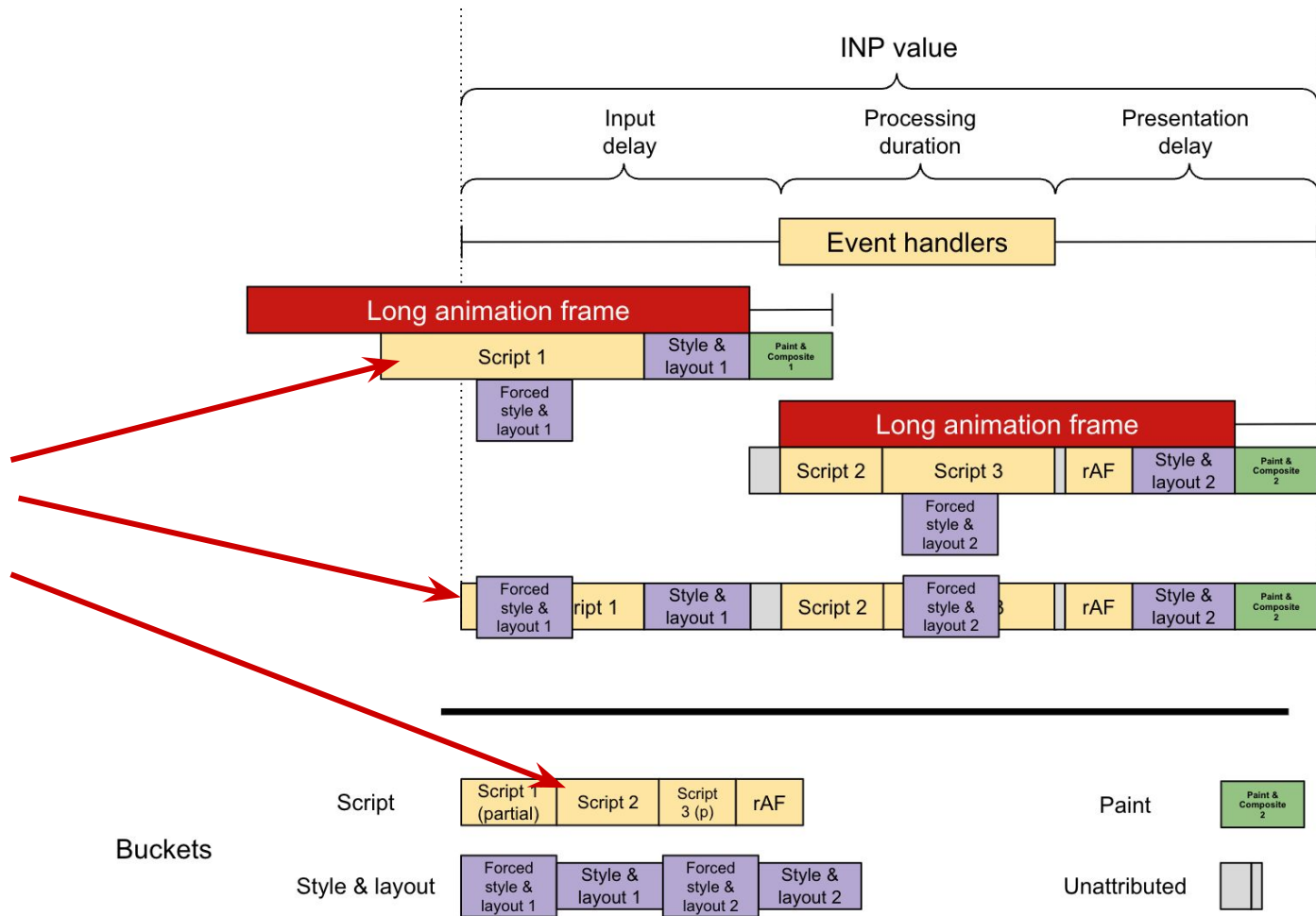


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Buckets



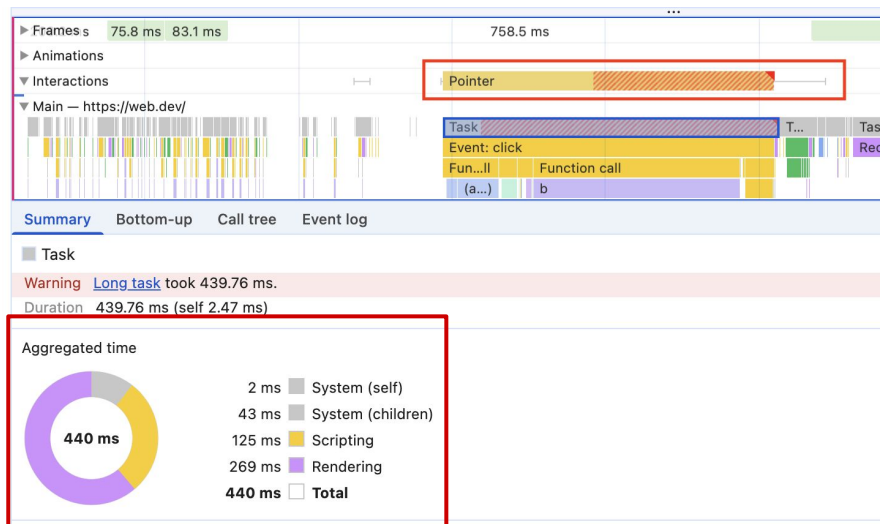
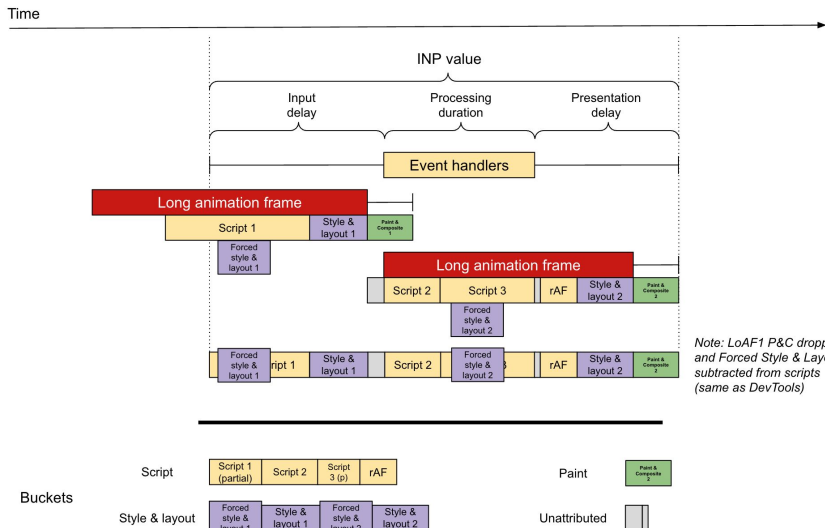
Time



*Longest script may not  
be the longest  
overlapping script!*

# web-vitals v5 - improved LoAF attribution

- Longest intersecting script and buckets



# web-vitals v5 - improved LoAF attribution

- Longest intersecting script and buckets

```
▼ {name: 'INP', value: 528, rating: 'poor', delta: 80, entries: Array(2), ...} ⓘ
  ▼ attribution:
    inputDelay: 3.5
    interactionTarget: "div.devsite-top-logo-row-wrapper>div.devsite-top-logo-row>devsite-appearance-selector"
    interactionTime: 3638140.1999999993
    interactionType: "pointer"
    loadState: "complete"
    ▶ longAnimationFrameEntries: [PerformanceLongAnimationFrameTiming]
    ▶ longestScript: {entry: PerformanceScriptTiming, subpart: 'processing-duration', intersectingDuration: 290}
    nextPaintTime: 3638668.1999999993
    presentationDelay: 31.099999997764826
    ▶ processedEventEntries: (33) [PerformanceEventTiming, PerformanceEventTiming, PerformanceEventTiming, PerformanceEventTiming, ...]
    processingDuration: 493.4000000022352
    totalPaintDuration: 31.099999997764826
    totalScriptDuration: 185
    totalStyleAndLayoutDuration: 289
    totalUnattributedDuration: 22.900000002235174
    ▶ [[Prototype]]: Object
    delta: 80
    ▶ entries: (2) [PerformanceEventTiming, PerformanceEventTiming]
    id: "v5-1750420956470-6711812329103"
    name: "INP"
    navigationId: "1"
    navigationType: "navigate"
    navigationURL: "https://web.dev/"
    rating: "poor"
    value: 528
    ▶ [[Prototype]]: Object
```

# Speculation Rules improvements

- Large platform roll outs
  - WordPress 6.8 - **On by default** - conservative prefetch - 30/45% of websites
  - Shopify - **On by default** - conservative prefetch - 5% of the web
  - Cloudflare - working on re-enabling **by default** - 10% of home pages

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- New features
  - 136 - tag field
  - 138 - target\_hint field
  - 138 - Clear-Site-Data header: prefetchCache and prerenderCache
  - 138 - ServiceWorker support for prefetch (currently at 50%)
  - 138 - Viewport heuristics for mobile for moderate
  - 140? - Viewport heuristics for mobile for eager

# Speculation Rules improvements

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- More browser support coming?
  - Mozilla working on it for prefetch for Firefox - [https://bugzilla.mozilla.org/show\\_bug.cgi?id=1969396](https://bugzilla.mozilla.org/show_bug.cgi?id=1969396)
  - Safari positive on subset - <https://github.com/WebKit/standards-positions/issues/54/>



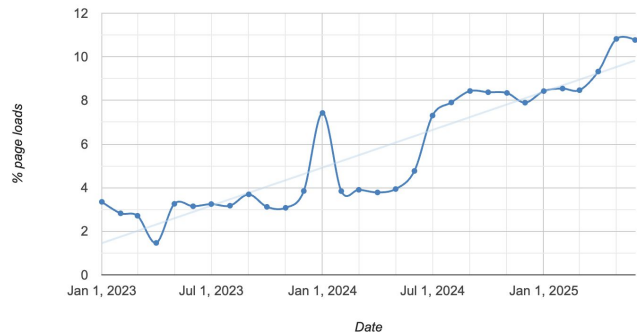
# Speculation Rules adoption

SpeculationRules

Show all historical data: ☐

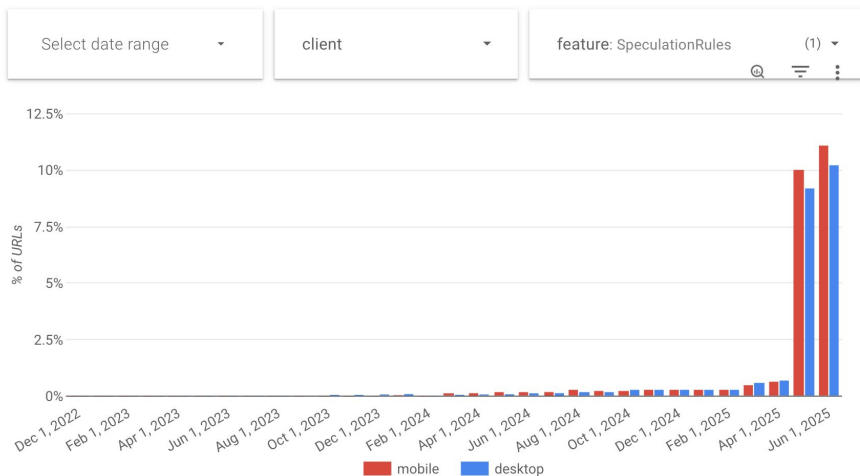
## Percentage of page loads over time

The chart below shows the percentage of page loads (in Chrome) that use this feature at least once. Data is across all channels and platforms. Newly added use counters that are not on Chrome stable yet only have data from the Chrome channels they're on.



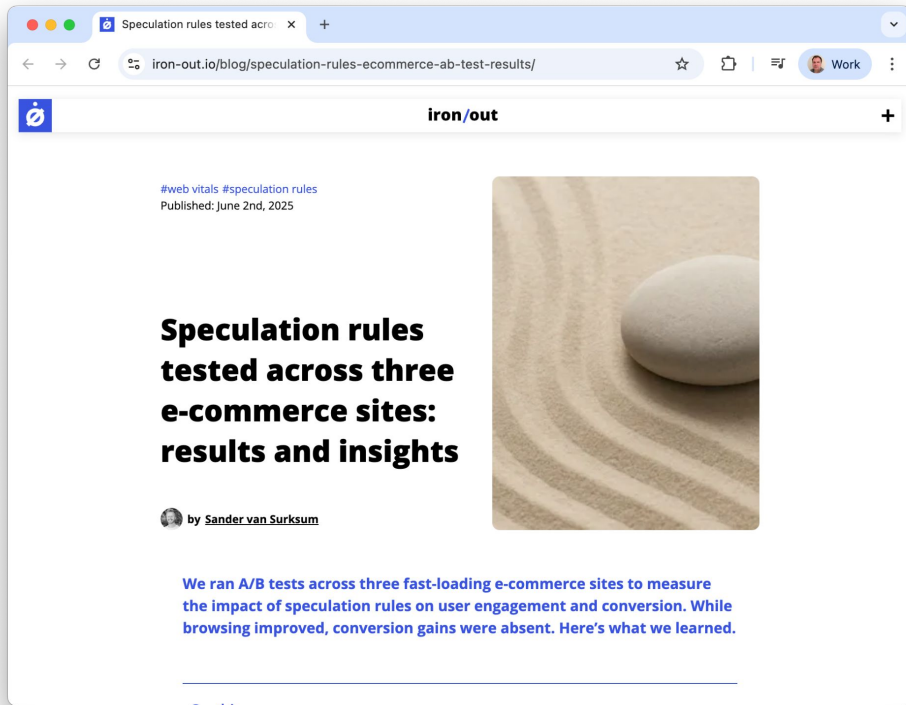
## Adoption of the feature on top sites

The chart below shows the adoption of the feature by the top URLs on the internet. Data from [HTTP Archive](#).



<https://chromestatus.com/metrics/feature/timeline/popularity/3932>

# Speculation Rules - measure it in RUM!!



# Detect Speculations: client-side

- Prefetch - deliveryType:

```
> performance.getEntriesByType('navigation')[0].deliveryType;  
◁ 'navigational-prefetch'
```

- Prerender - non-zero activationStart:

```
> performance.getEntriesByType('navigation')[0].activationStart  
◁ 2760.60000000149
```

# Detect Speculations: server-side

Detect and disable prerender server-side

Prerendered pages will be sent with the `Sec-Purpose` HTTP header:

```
Sec-Purpose: prefetch;prerender
```

Prefetched pages using the Speculation Rules API will have this header set to just `prefetch` :

```
Sec-Purpose: prefetch
```

<https://developer.chrome.com/docs/web-platform/prerender-pages#detect-server-side>

# Compression Transport Dictionary

- Being heavily used by Google
  - Ads/DoubleClick
  - Google Search
- Case study:
  - <https://developer.chrome.com/blog/search-compression-dictionaries>
- Know of several companies looking into this technology
- Usage is likely to increase!
- Detecting dcb/dcz client-side:

```
> performance.getEntriesByType('navigation')[0].contentEncoding  
< 'dcb'
```

**Thank you!**

**Reach out:**

**@tunetheweb on most socials**

**barrypollard@google.com**