

# web-features & Baseline - We're feature complete! What's next?

W3C Breakouts Day 2025 - March 26, 2025

*Patrick Brosset*

# Agenda

- Intro and context setting
- We're feature complete!
- Using the data
- What's next and discussions

## Logistics & rules

- IRC channel: <https://irc.w3.org/?channels=%23web-baseline> (thanks François).
- [Agenda and notes](#), [Slides](#)
- Presentation will be recorded (not the discussion).
- Please note the [Code of Ethics and Professional Conduct](#) and [Antitrust and Competition Guidance](#).



# What is WebDX?

W3C Community Group, focused on:

1. Coordinating **research** efforts
2. Building a **shared description** of the web platform

Today, we're focusing on **#2** only.

# Building a shared description of the platform

Practically speaking, this involves:

- The **web-features** catalog.
- The **Baseline** definition.

```

code.yml
color-adjust.yml
color-contrast.yml
color-function.yml
color-gamut.yml
color-mix.yml
color-scheme.yml
color.yml
colord.yml
colr.yml
column-breaks.yml
column-fill.yml
column-pseudo.yml
column-span.yml
composed-ranges.yml
composition-events.yml
compression-streams.yml
compute-pressure.yml
conic-gradients.yml
console.yml
constraint-validation.yml
constructed-stylesheets.yml
contact-picker.yml
contain-in-line-size.yml
contain-intrinsic-size.yml
contain-layout.yml
contain-point.yml
contain-size.yml
contain-style.yml
contain.yml
container-queries.yml
container-scroll-state-queries.yml
container-style-queries.yml
content-index.yml
content-visibility.yml
content.yml
contenteditable-plaintextonly.yml
contenteditable.yml
context-fill-stroke.yml
contrast-color.yml
controls-list.yml
cookie-enabled.yml
cookie-store.yml
cookies.yml
cors.yml
counter-reset-reversed.yml
form-validation-pseudo.yml
form.yml
fullscreen.yml
functions-call-arguments.yml
functions.yml
gamepad-haptics.yml
gamepad-touch.yml
gamepad-vr.yml
gamepad.yml
generators.yml
geolocation.yml
get-computed-style.yml
getboxquads.yml
gethtml.yml
globalthis.yml
glyph-orientation-vertical.yml
gpc.yml
gradient-interpolation.yml
gradients.yml
grid-animation.yml
grid.yml
gyroscope.yml
hanging-punctuation.yml
hardware-concurrency.yml
has-slotted.yml
has.yml
hashbang-comments.yml
hashchange.yml
head.yml
header-footer.yml
headings.yml
hgroup.yml
hidden-until-found.yml
highlight.yml
history.yml
host-context.yml
host.yml
hr.yml
hsr.yml
hsts.yml
html-media-capture.yml
html-wrapper-methods.yml
html.yml
http-authentication.yml
http1.yml
http2.yml
nav.yml
navigation-timing.yml
navigation.yml
navigator.yml
nesting.yml
network-information.yml
network-information.yml
network-storage-access.yml
not.yml
notifications-apps.yml
notifications.yml
nth-child-of.yml
nth-child.yml
nth-of-type.yml
nullish-coalescing.yml
number.yml
numeric-factory-functions.yml
numeric-separators.yml
object-fit.yml
object-object.yml
object-position.yml
object-view-box.yml
object.yml
oes-element-index-uint.yml
oes-fbo-render-wpaop.yml
oes-standard-derivatives.yml
oes-texture-float-linear.yml
oes-texture-float.yml
oes-texture-half-float-linear.yml
oes-texture-half-float.yml
oes-vertex-array-object.yml
offline-audio-context.yml
offscreen-canvas.yml
oklab.yml
online.yml
opacity-svg.yml
opacity.yml
open-closed.yml
optional-catch-binding.yml
orientation-sensor.yml
origin-private-file-system.yml
outline.yml
outlines.yml
output.yml
overflow-anchor.yml
overflow-clip-margin.yml
overflow-clip.yml
shared-storage.yml
shared-workers.yml
show-picker-input.yml
show-picker-select.yml
single-color-gradients.yml
slot-assign.yml
slot.yml
small.yml
smooth.yml
source.yml
sourcemap-header.yml
span.yml
speak-as.yml
speak.yml
speculation-rules.yml
speech-separators.yml
speech-recognition-grammar.yml
speech-recognition.yml
speech-synthesis.yml
spellcheck.yml
spelling-grammar-error.yml
spread.yml
srcset.yml
stable-array-sort.yml
starting-style.yml
stats.yml
static-positioning.yml
steps-easing.yml
sticky-positioning.yml
storage-access.yml
storage-buckets.yml
storage-manager.yml
streams.yml
stretch.yml
string-al.yml
string-codepoint.yml
string-includes.yml
string-normalize.yml
string-pad.yml
string-raw.yml
string-repeat.yml
string-replaceall.yml
string-starts-ends-with.yml
string-trim-start-end.yml
string-wellformed.yml
webid.yml
weban.yml
weba.yml
webrtc-encoded-transform.yml
webrtc-sctp.yml
webrtc-stats.yml
webrtc.yml
websockets.yml
webtransport.yml
webusb.yml
webvr.yml
webvtt-cue-alignment.yml
webvtt-cue-settings.yml
webvtt-regions.yml
webvtt.yml
webxr-anchors.yml
webxr-ar.yml
webxr-camera.yml
webxr-depth-sensing.yml
webxr-device.yml
webxr-door-overlays.yml
webxr-gamepads.yml
webxr-hand-input.yml
webxr-hit-test.yml
webxr-layers.yml
webxr-lighting-estimation.yml
wheel-events.yml
where.yml
white-space-collapse.yml
white-space.yml
widows-orphans.yml
width-height.yml
will-change.yml
window-controls-overlay.yml
window-management.yml
window.yml
with.yml
word-break-auto-phrase.yml
word-break-break-word.yml
word-break.yml
word-spacing.yml
writing-mode-svg-values.yml
writing-mode.yml
writing-modes.yml
xhr.yml
xml-serializer.yml

```



# Baseline

# web-features

## [The web-features repo on GitHub](#)




- Meant for web-developers, at the right level of details.
- Living reference. New features get added. Obsolete features get marked as discouraged. Features can get merged.
- Each feature gets a **unique ID** used throughout the entire ecosystem.
- Each feature comes with compat data and Baseline status.

# Baseline

## Core browser set

- Chrome & Chrome for Android
- Firefox & Firefox for Android
- Safari & Safari for iOS
- Edge

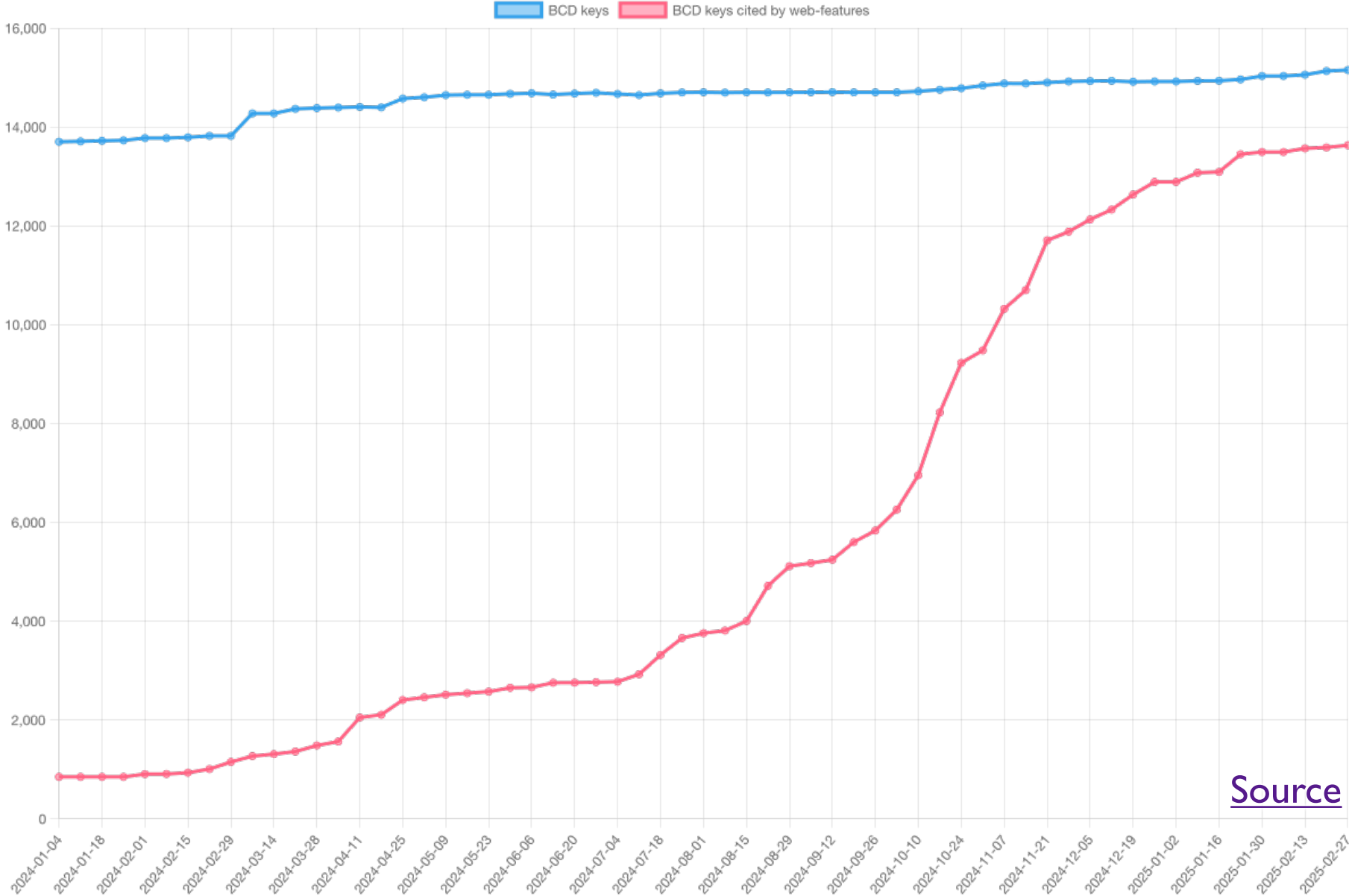
## Three states

- Limited Availability 
- Newly Available 
- Widely Available 

Based on initial research. Not set in stone. Meant to reflect what's most important to most developers.

Where are we now?

We're (nearly)  
feature complete!



[Source](#)



# You can help

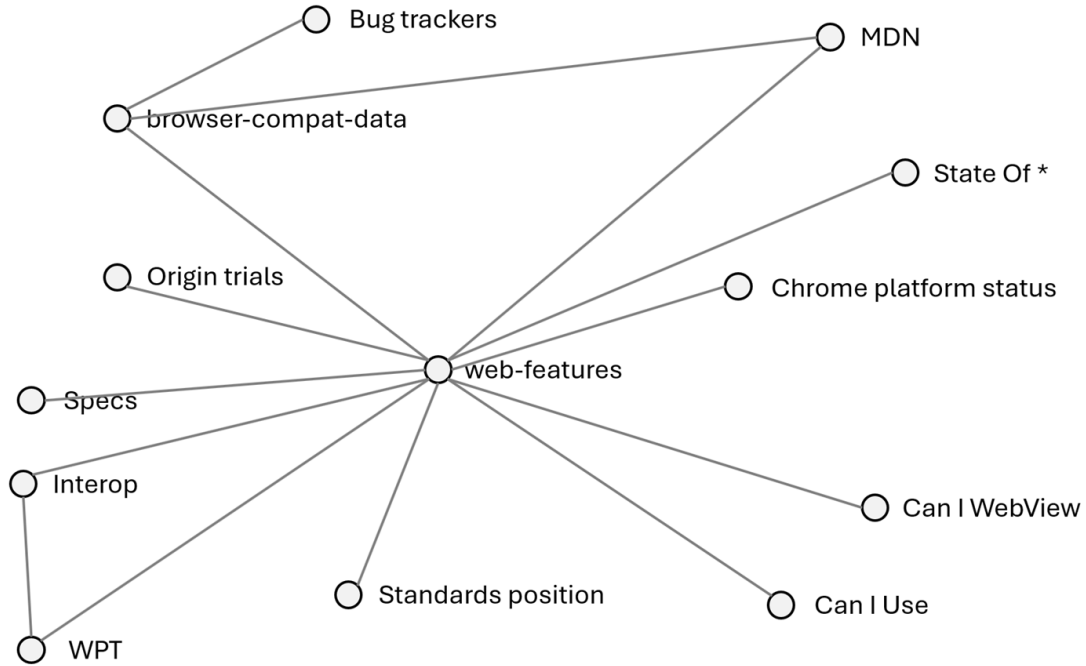
- Contributing missing features.
- Suggesting names, descriptions, and groups, to match developers' expectations.
- Review PRs on the repo.

# Using the data

Three ways in which the web-features data is being used:

1. Connections with other data sources.
2. Existing consumers.
3. Ways you can use the data.

# Interconnected data sources



# Interconnected data sources

- Unique web-features IDs making it all possible.
- Helping web developers navigate the platform, and understand how things are made.
- Helping web developers follow along.
- What other sources of data would be helpful?

# Existing consumers of the data

More and more sites, dashboards, and tools make use of the data:

- Docs sites with Baseline badges:
  - [MDN](#)
  - [Can I Use](#)
  - [Can I WebView](#)
- Tools:
  - [Require-baseline](#) (ESLint plugin)
  - [VSCode](#) (CSS hover cards)
  - [RUMVision](#)
  - [RUM Archive Insights](#)
- Dashboards:
  - [Web platform features explorer](#) (from the CG)
  - [Web Platform Status](#) (Google)
  - [Web Platform Features](#) (3<sup>rd</sup> party)
  - [Edge 2024 Top Developer Needs](#)

## Web platform features explorer

Release notes Explore all features About Search

### Anchor positioning

✗ Limited availability


TAGS: [API](#) [CSS](#) [HTML](#)


Anchor positioning places an element based on the position of another element. For example, you can place a tooltip next to the content it references.

#### Learning resources on MDN

[CSS anchor positioning](#)

#### Browser support [\(view on caniuse.com\)](#)

 **Chrome 125** Released on 2024-05-14

 **Chrome Android 125** Released on 2024-05-14

 **Edge 125** Released on 2024-05-17

 **Firefox** ✗ See [bugzilla/1838746](#) [Vendor position](#) : positive

 **Firefox for Android** ✗ See [bugzilla/1838746](#) [Vendor position](#) : positive

 **Safari** ✗ [Vendor position](#) : support

 **Safari on iOS** ✗ [Vendor position](#) : support

#### Surveys

State of HTML 2024: [usage/html\\_interoperability\\_features\\_question](#)

State of HTML 2023: [usage/html\\_interoperability\\_features\\_question](#)

State of CSS 2024: [usage/favorite\\_new\\_features\\_question](#)

State of CSS 2024: [usage/css\\_missing\\_features\\_question](#)

State of CSS 2024: [usage/css\\_interoperability\\_features\\_question](#)

State of CSS 2024: [reading\\_list/reading\\_list\\_question](#)

State of CSS 2024: [features/all\\_features\\_question](#)

#### Specifications

[CSS Anchor Positioning \(#anchoring\)](#), from [Cascading Style Sheets \(CSS\) Working Group](#) (W3C).

## Web platform features explorer

Release notes Explore all features About Search

### Shadow DOM

✓ Widely available since 2022-07-13

TAGS: [API](#) GROUPS: [DOM](#) [WEB COMPONENTS](#)


Shadow DOM allows you to attach encapsulated "shadow" DOM trees to elements. A shadow DOM tree is a separate component, isolated from the scripts and styles in other parts of the document. This is a part of Web Components.

#### Learning resources on MDN

[Using shadow DOM](#)


#### Browser support [\(view on caniuse.com\)](#)

 **Chrome 53** Released on 2016-08-31


 **Chrome Android 53** Released on 2016-09-07

 **Edge 79** Released on 2020-01-15

 **Firefox 63** Released on 2018-10-23

 **Firefox for Android 63** Released on 2018-10-23

 **Safari 10** Released on 2016-09-20

 **Safari on iOS 10** Released on 2016-09-13

#### Surveys

State of HTML 2024: [web\\_components/web\\_components\\_features\\_question](#)

State of HTML 2024: [web\\_components/web\\_component\\_features\\_question](#)

State of HTML 2024: [features/all\\_features\\_question](#)

State of HTML 2023: [web\\_components/web\\_components\\_main\\_features\\_question](#)

State of HTML 2023: [web\\_components/using\\_web\\_components\\_pain\\_points\\_question](#)

State of HTML 2023: [web\\_components/making\\_web\\_components\\_pain\\_points\\_question](#)

State of HTML 2023: [features/all\\_features\\_question](#)

#### Specifications

[DOM \(#shadow-trees\)](#), from [DOM Workstream](#) (WHATWG).

# How can you use the data?

Have an idea for a tool? Want to link to web-features? Show Baseline on your site?

- [web-features NPM package](#) and [web-features releases on GitHub](#).
- [compute-baseline NPM package](#).
- [baseline-status](#) web component.
- Site-engine-specific components: [WordPress](#), [Astro](#), [Hugo](#).

# What Baseline is, and what it's not!

- Things Baseline does **not** take into account:
  - other browsers
  - assistive tech issues
  - if a feature can be progressively enhanced or polyfilled
- Makes it faster for devs to decide using Widely Available features.
- Doesn't aim to discourage web devs from using other features.
- Treat Baseline as:
  - YES / MAYBE YES
  - **Not as:** YES / NO

# What's next?

## [WebDX CG 2025 roadmap](#)

- Add missing features
- Stay on top of new features
- Make adding new features more automatic
- Deal with changes more easily
- Help more tooling providers integrate with the data



# Open discussions

Any questions? Comments?

Conversation starters:

- Ensuring web-features and Baseline align with web devs needs.
- Extend Baseline to additional contexts, such as WebViews.
- Unify the deprecation concept (terminology, expectations).
- Connect other data sources.
- Latest issues on the repo:
  - Improving communication about Baseline ([#2783](#))
  - Consider taking progressive enhancements into account for the Baseline status ([#2758](#))