

DEVELOPING NEW W3C WEB PLATFORM FEATURES



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HIGH-LEVEL TOPICS WE WILL COVER

- How standards are developed at the W3C
- How to get involved
- New Web Platform feature development
 - Where you can track feature development
 - Highlight some newly added features

HOW STANDARDS ARE DEVELOPED AT THE W3C

A BIT OF HISTORY

EARLY DAYS OF THE WEB

- 1989 - Tim Berners-Lee publishes his first proposal for the World Wide Web
- 1990 - First web server at CERN
 - Access via WorldWideWeb browser on NeXT computers
- 1991 - line-mode browser can access web on other types of computers
- 1992 - Additional browsers developed (MIDAS, Viola, Erwise)
- 1993 - World Wide Web officially put into public domain
- 1993 - NCSA Mosaic browser released
- 1994 - Prodigy allows dial-up access to the World Wide Web

A BIT OF HISTORY

EARLY BROWSERS & EARLY STANDARDS

- December 1994 – Netscape Navigator v1.0
- August 1995 - Internet Explorer v1.0
- April 1996 – Opera v2.0
- December 1996 – CSS 1 W3C Recommendation
- January 1997 - HTML 3.2 W3C Recommendation
- June 1997 - Ecma TC39 releases ECMA-262 v1.0
- December 1997 - HTML 4.0 W3C Recommendation
- December 1998 – CSS 2 W3C Recommendation
- December 1999 - HTML 4.0.1 W3C Recommendation

A BIT OF HISTORY

THE NEED FOR WEB STANDARDS

- 1997 - Internet Explorer v4.0 and Netscape Communicator v4.0 released
- 1998 - Web Standards Project (WaSP) founded
 - The group convinced Netscape to delay Netscape 5.0 until it was more compliant with W3C Recommendations
- 1998 - Non-profit Mozilla founded by Netscape
- 2000 - Internet Explorer for Mac, Netscape, and Opera have reasonable W3C Recommendation support
- 2002 - Mozilla v1.0 released
- 2003 - Mozilla becomes an independent non-profit organization
- 2004 - Firefox v1.0 released

A BIT OF HISTORY

WEB HYPERTEXT APPLICATION TECHNOLOGY WORKING GROUP (WHATWG)

- January 2000 - XHTML 1.0 W3C Recommendation
- 2004 - WHATWG forms to continue work on HTML via Web Applications 1.0
 - founded by individuals of Apple, the Mozilla Foundation, and Opera Software
- January 2008 - W3C Working Draft of HTML5, based on Web Applications 1.0
- 2017 - Apple, Google, Microsoft, and Mozilla helped develop an IPR policy and governance structure for the WHATWG and their “Living Standards”
- 2019 - W3C and WHATWG agree to dual-publish HTML and DOM
- 2021 - Additional standards are passed from W3C to WHATWG, as well as some existing W3C standards are moved into HTML and DOM specifications
 - Mapping of features to SDO (Standards Development Organization):
<https://html-now.github.io/>

WHAT IS THE W3C?

ABOUT THE W3C

- The World Wide Web Consortium (W3C) develops standards and guidelines to help everyone build a web based on the principles of accessibility, internationalization, privacy and security.
- Founded in October 1994 by Sir Tim Berners-Lee

MISSION STATEMENT

- Making the web work – for everyone. W3C brings together global stakeholders to develop open standards that enable a World Wide Web that connects and empowers humanity.



<https://www.w3.org/>

3 TYPES OF W3C DOCUMENTS

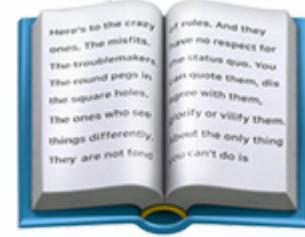


RECOMMENDATIONS

Standards Documents

Example: CSS Color
Module Level 3

[https://www.w3.org/TR/
css-color-3/](https://www.w3.org/TR/css-color-3/)



REGISTRIES

Data set of logically independent, consistently-structured registry entries

Example: WebCodecs
Codec Registry

[https://www.w3.org/TR/
webcodecs-codec-registry/](https://www.w3.org/TR/webcodecs-codec-registry/)



NOTES

Useful documents that are not intended to be a formal standard

Example: W3C TAG Ethical
Web Principles

[https://www.w3.org/2001/
tag/doc/ethical-web-
principles/](https://www.w3.org/2001/tag/doc/ethical-web-principles/)

4 TYPES OF W3C GROUPS

BUSINESS GROUP

Incubates ideas

Open to all

Fee for non-members

Example: Improving
Web Advertising
Business Group

[https://www.w3.org/
community/web-adv/](https://www.w3.org/community/web-adv/)

COMMUNITY GROUP

Incubates ideas

Open to all

Free to join

Example: Web Platform
Incubator Community
Group (WICG)

[https://www.w3.org/
community/wicg/](https://www.w3.org/
community/wicg/)

INTEREST GROUP

Creates requirements

W3C members &
invited experts

Example: Web
Accessibility Initiative
(WAI) Interest Group

[https://www.w3.org/
groups/ig/wai](https://www.w3.org/
groups/ig/wai)

WORKING GROUP

Writes standards

W3C members &
invited experts

Example: CSS
Working Group

[https://www.w3.org/
Style/CSS/](https://www.w3.org/
Style/CSS/)

2 ELECTED/APPOINTED W3C GROUPS

TECHNICAL ARCHITECTURE GROUP (TAG)

3 goals:

- to document and build consensus around principles of Web architecture and to interpret and clarify these principles when necessary;
- to resolve issues involving general Web architecture brought to the TAG;
- to help coordinate cross-technology architecture developments inside and outside W3C.

Some are elected by W3C members, others are appointed by the W3C Director (TBL)
<https://www.w3.org/groups/other/tag>

ADVISORY BOARD (AB)

- provides ongoing guidance to the Team on issues of strategy, management, legal matters, process, and conflict resolution
- Serves the Members by tracking issues raised between Advisory Committee meetings, soliciting Member comments on such issues, and proposing actions to resolve these issues
- Manages the evolution of the Process Document

Members are elected by W3C members
<https://www.w3.org/groups/other/ab>

W3C WORKING GROUPS

CURRENTLY ACTIVE WORKING GROUPS

- Accessibility Education and Outreach WG
- Accessibility Guidelines WG
- Accessible Platform Architectures WG
- Accessible Rich Internet Applications WG
- Audio WG
- Audiobooks WG
- Automotive WG
- Browser Testing and Tools WG
- Cascading Style Sheets (CSS) WG
- Dataset Exchange WG
- Decentralized Identifier WG
- Devices and Sensors WG
- Distributed Tracing WG
- EPUB 3 WG
- GPU for the Web WG
- HTML WG
- Immersive Web WG
- Internationalization WG
- JSON-LD WG
- Math WG
- Media WG
- MiniApps WG
- Pointer Events WG
- Portable Network Graphics WG
- Second Screen WG
- Service Workers WG
- Spatial Data on the Web WG
- SVG WG
- Timed Text WG
- Verifiable Credentials WG
- Web Application Security WG
- Web Applications WG
- Web Authentication WG
- Web Editing WG
- Web Fonts WG
- Web Machine Learning WG
- Web of Things WG
- Web Payments WG
- Web Performance WG
- Web Real-Time Communications WG
- WebAssembly WG
- WebTransport WG

W3C RECOMMENDATION TRACK

MULTI-STEP, MULTI-YEAR PROCESS

- 4-5 steps, depending on the document →

REQUIREMENTS/USE CASES MAY COME FROM OUTSIDE THE WORKING GROUP

- Web Platform Incubator Community Group (WICG)
- Community Groups
- Business Groups
- Interest Groups
- CGs can lead to WGs
 - Recent examples:
 - Mini Apps CG → Mini Apps WG
 - Color on the Web CG → PNG WG

First Public Working Draft

Revised Working Draft

Candidate
Recommendation

W3C Recommendation

W3C RECOMMENDATION TRACK

FIRST PUBLIC WORKING DRAFT

- First public document made available
- Documents outstanding issues
- Calls out parts of the document on which the Working Group does not have consensus
- May be unstable
- May never make it to Recommendation
 - (perhaps may not even intend to)
- Has IP implications

First Public Working Draft

Revised Working Draft

Candidate
Recommendation

W3C Recommendation

W3C RECOMMENDATION TRACK

(REVISED) WORKING DRAFT

- 0 or more revisions to the first public working draft
- Documents outstanding issues
- Calls out parts of the document on which the Working Group does not have consensus
- May be unstable
- May never make it to Recommendation
 - (perhaps may not even intend to)

First Public Working Draft

Revised Working Draft

Candidate
Recommendation

W3C Recommendation

W3C RECOMMENDATION TRACK

CANDIDATE RECOMMENDATION

- Satisfies the technical requirements of the Working Group that produced it and their dependencies
- Has already received wide review
 - Often includes Accessibility, Internationalization, Security, Privacy and TAG review
- Considered complete and fit for purpose, and that no further refinement to the text is expected without additional implementation experience and testing
 - Additional features in a later revision may however be expected
- Published to gather implementation experience
- Published in one of 2 forms:
 - Candidate Recommendation Snapshot
 - Candidate Recommendation Draft (update to CDS)

First Public Working Draft

Revised Working Draft

Candidate Recommendation

W3C Recommendation

W3C RECOMMENDATION TRACK

W3C RECOMMENDATION

- Official standard endorsed by W3C and its Members
- Normally retains its status indefinitely

First Public Working Draft

Revised Working Draft

Candidate
Recommendation

W3C Recommendation

ANATOMY OF A W3C SPEC

CSS Color Module Level 3



W3C Recommendation 05 August 2021

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<https://www.w3.org/TR/2021/REC-css-color-3-20210805/>

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ANATOMY OF A W3C SPEC

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Related test suite to run in your current browser →

<https://www.w3.org/Process/>

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High-level normative summary →

W3C Recommendation

Steven Pemberton (CWI) <steven.pemberton@cwi.nl>
Brad Pettit (Microsoft Corporation) <bradp@microsoft.com>

Test Suite:

<http://test.csswg.org/suites/css3-color/nightly-unstable/>

Please check the [errata](#) for any errors or issues reported since publication.

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Abstract

CSS (Cascading Style Sheets) is a language for describing the rendering of HTML and XML documents on screen, on paper, in speech, etc. It uses color-related properties and values to color the text, backgrounds, borders, and other parts of elements in a document. This specification describes color values and properties for foreground color and group opacity. These include properties and values from CSS level 2 and new values.

Status of This Document

This section describes the status of this document at the time of its publication. Other documents may supersede this document. A list of current W3C publications and the latest revision of this technical report can be found in the [W3C technical reports index](#) at <https://www.w3.org/TR/>.

This document was published by the [CSS Working Group](#) as a **Recommendation**. It includes [candidate corrections](#).

A W3C Recommendation is a specification that, after extensive consensus-building, has received the endorsement of the W3C and its Members. W3C recommends the wide deployment of this specification as a standard for the Web.

A complete [list of changes](#) to this document since the last publication is available.

This document was produced by a group operating under the [W3C Patent Policy](#). W3C maintains a [public list of any patent disclosures](#) made in connection with the deliverables of the group; that page also includes instructions for disclosing a patent. An individual who has actual knowledge of a patent which the individual believes contains [Essential Claim\(s\)](#) must disclose the information in accordance with [section 6 of the W3C Patent Policy](#).

This document is governed by the [15 September 2020 W3C Process Document](#).

Candidate corrections are marked in the document.

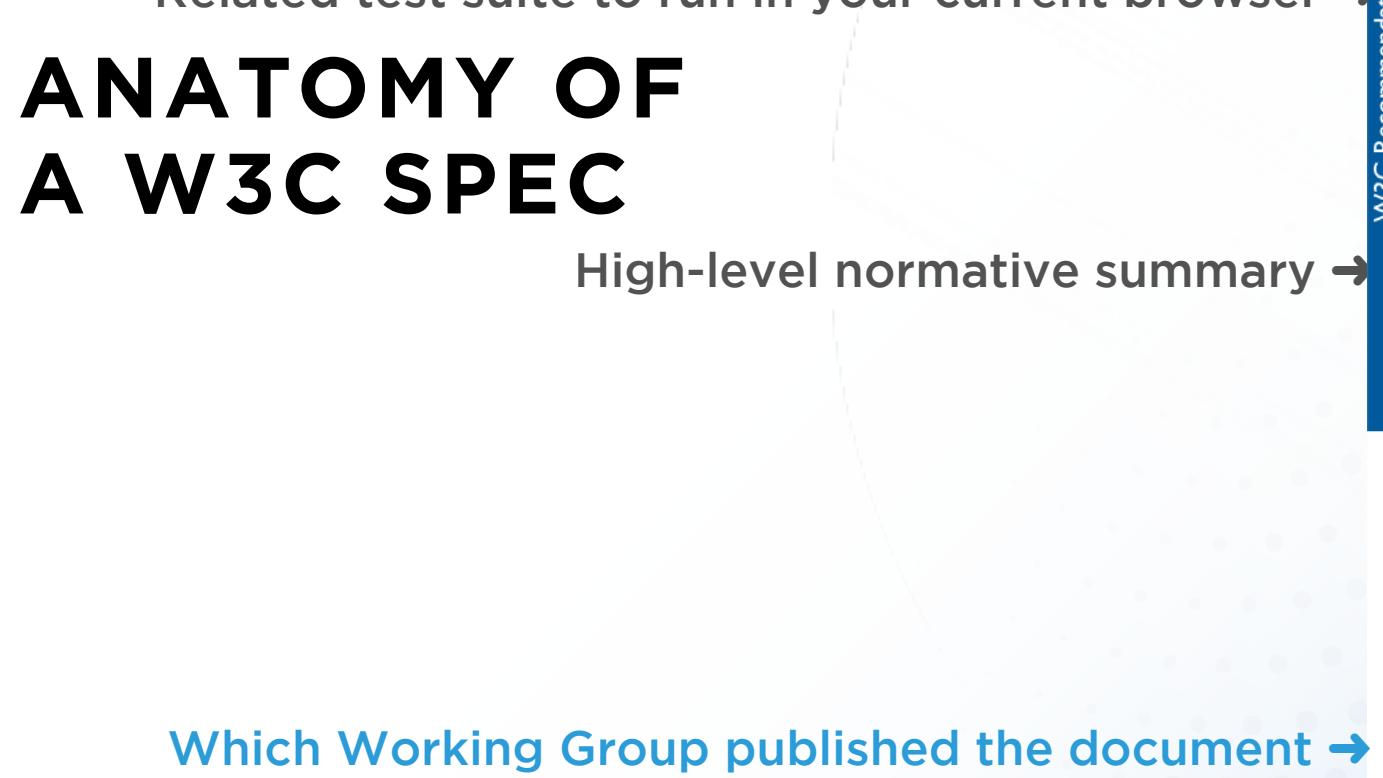
A separate [implementation report](#) shows that each test in the [test suite](#) was passed by at least one browser in the test suite. The report is located at [https://www.w3.org/Process/](#).

Related test suite to run in your current browser →

ANATOMY OF A W3C SPEC

High-level normative summary →

Which Working Group published the document →



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ANATOMY OF A W3C SPEC

High-level non-normative summary →

- 12.1. Normative
- 12.2. Informative

[Index](#)

[Property index](#)



1. Introduction

This section is non-normative.

CSS beyond level 2 is a set of modules, divided up to allow the specifications to develop incrementally, along with their implementations. This specification is one of those modules.

This module describes CSS properties which allow authors to specify the foreground color and opacity of an element. This module also describes in detail the CSS <color> value type.

It not only defines the color-related properties and values that already exist in [CSS1](#) and [CSS2](#), but also defines new properties and values.

The Working Group doesn't expect that all implementations of CSS3 will implement all properties or values. Instead, there will probably be a small number of variants of CSS3, so-called "profiles". For example, it may be that only the profile for 32-bit color user agents will include all of the proposed color-related properties and values.

The specification is the result of the merging of relevant parts of the following Recommendations and Working Drafts, and the addition of some new features.

- HTML 4.01 [\[HTML401\]](#)
- CSS 2.0 [\[CSS2\]](#)
- SVG 1.0 [\[SVG10\]](#)
- User Interface for CSS3 (16 February 2000) [\[CSS-UI-3\]](#)

2. Dependencies

Additional terminology is defined in the [Definitions](#) section of [\[CSS21\]](#). Examples of document source code and fragments are given in XML [\[XML10\]](#) or HTML [\[HTML401\]](#) syntax.

3. Color properties

ANATOMY OF A W3C SPEC

High-level non-normative summary →

W3C Recommendation

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[Index](#)

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3. Color properties

ANATOMY OF A W3C SPEC

W3C Recommendation

Test suite information →

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<https://www.w3.org/Process/>

Excludes	' opacity ' property RGBA color values HSL and HSLA color values Extended color keywords ' currentColor ' color value ' transparent ' color value not valid for ' color ' property.
Extra constraints	' orange ' color value (part of Extended color keywords) is accepted in CSS level 2 revision 1

CSS3 Color profile

Specification	SVG 1.0 and 1.1
	' color ' property ' opacity ' property Basic color keywords
Accepts	RGB color values CSS2 UI Colors Extended color keywords ' currentColor ' color value
Excludes	RGB color values CSS2 UI Colors Extended color keywords ' currentColor ' color value
Extra constraints	' currentColor ' color value not valid for ' color ' property.

8. Test suite

A CSS Color Module [Test Suite](#) has been developed, although further tests may be added. This test suite is intended to allow user agents to verify their basic conformance to the specification. This test suite does not pretend to be exhaustive and does not cover all possible numerical color values. These tests are available at https://test.csswg.org/harness/suite/css-color-3_dev/.

CANDIDATE CORRECTION 4: The previous Recommendation included a call for implementation of dropped features (mainly related to color management) in the hope that their development could be continued in a future level of the CSS Color specification.

This correction drops that call, which is now historical, and replaces it with a pointer to CSS Color 4, which defines those features (and many others besides).

[Show Change](#) [Show Current](#) [Show Future](#)

ANATOMY OF A W3C SPEC

W3C Recommendation

Test suite information →

Candidate corrections call out fixes →
after a doc was published

33

<https://www.w3.org/Process/>

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Show Change Show Current Show Future

ANATOMY OF A W3C SPEC

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<https://www.w3.org/Process/>

10. Acknowledgments

Thanks to Brad Pettit both for writing up color-profiles, and for implementing it. Thanks to Steven Pemberton for a write up on HSL colors. Thanks especially to the feedback from Marc Attinasi, Bert Bos, Joe Clark, fantasai, Patrick Garies, Tony Graham, Ian Hickson, Susan Lesch, Alex LeDonne, Cameron McCormack, Krzysztof Maczyński, Chris Moschini, Chris Murphy, Christoph Päper, David Perrell, Jacob Refstrup, Dave Singer, Jonathan Stanley, Andrew Thompson, Russ Weakley, Etan Wexler, David Woolley, Boris Zbarsky, Steve Zilles, the XSL FO subgroup of the XSL working group, and all the rest of the [www-style](#) community. And thanks to Chris Lilley for being the resident CSS Color expert.

List of changes →

11. Changes

Changes since the [19 June 2018 Recommendation](#)

- Candidate Correction 1: [Sample HSL values & conversion code](#).
- Candidate Correction 2: [Clarified case-insensitive](#).
- Candidate Correction 3: [Removed "Media" from property definition tables](#)
- Candidate Correction 4: [Replaced "Call for implementation of dropped features"](#)

Changes since the [5 December 2017 Candidate Recommendation](#)

- A non-substantive [typo](#) was corrected (stray semicolon)
- Removed trailing link to the no longer present `appearance` property
- Updated this changes section
- Date and boilerplate updates for Proposed Recommendation

Changes since the [2011 June 07 Recommendation](#)

This document differs from the [2011 June 07 Recommendation](#) in that it contains the following changes:

- Mark Introduction section as non-normative.
- Don't use SVG-specific terminology in the definition of opacity.
- Describe the effect of opacity on z-ordering more clearly and make it clear that "treated as" does not imply a change in the computed value.
- Make '[currentColor](#)' be a computed value and resolve at used value time, instead of being resolved in the computed value. ([test](#), [results](#)).
- Updated references to current versions.

ANATOMY OF A W3C SPEC

Links to other standards referenced in the spec →
(autogenerated)

For changes in earlier drafts, see [changes in previous Recommendation](#) and previous versions linked therefrom.

Prior dispositions of comments:

- [Disposition of comments on the 2008 Last Call.](#)
- [Disposition of comments on the 2003 Candidate Recommendation.](#)
- [Disposition of comments on the 2003 Last Call.](#)

12. References

12.1. Normative

[COLORIMETRY]

Colorimetry, Third Edition. CIE 15:2004. ISBN 978-3-901906-33-6

[CSS21]

Bert Bos; et al. [Cascading Style Sheets Level 2 Revision 1 \(CSS 2.1\) Specification](#). 7 June 2011. W3C Recommendation. URL: <http://www.w3.org/TR/2011/REC-CSS2-20110607>

[SRGB]

Multimedia systems and equipment - Colour measurement and management - Part 2-1: Colour management - Default RGB colour space - sRGB. IEC 61966-2-1 (1999-10) ISBN: 2-8318-4989-6 - ICS codes: 33.160.60, 37.080 - TC 100 - 51 pp. as amended by Amendment A1:2003. URL: <https://webstore.iec.ch/publication/6168>

[SVG11]

Erik Dahlström; et al. [Scalable Vector Graphics \(SVG\) 1.1 \(Second Edition\)](#). 16 August 2011. W3C Recommendation. URL: <http://www.w3.org/TR/2011/REC-SVG11-20110816/>

12.2. Informative

[ABC]

Leo Geurts; Lambert Meertens; Steven Pemberton. [The ABC Programmer's Handbook](#). Prentice-Hall. ISBN: 0-13-000027-2. URL: <http://www.cwi.nl/~steven/abc>

[CSS-UI-3]

Tantek Çelik; Florian Rivoal. [CSS Basic User Interface Module Level 3 \(CSS3 UI\)](#). 21 June 2018. W3C Recommendation. URL: <https://www.w3.org/TR/2018/REC-css-ui-3-20180621/>

[CSS2]

Bert Bos; et al. [Cascading Style Sheets, level 2 \(CSS2\) Specification](#). 07 June 2011. W3C Recommendation. URL: <http://www.w3.org/TR/2011/REC-CSS2-20110607>

[HTML401]

Dave Raggett; Arnaud Le Hors; Ian Jacobs. [HTML 4.01 Specification](#). 24 December 1999. W3C Recommendation. URL: <http://www.w3.org/TR/1999/REC-html401-19991224>

ANATOMY OF A W3C SPEC

Index (autogenerated) →

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Ben Caldwell; et al. [Web Content Accessibility Guidelines \(WCAG\) 2.0](#). 11 December 2008.
W3C Recommendation. URL: <http://www.w3.org/TR/2008/REC-WCAG20-20081211/>

[X11COLORS]

Wikipedia [X11 color names](#). URL: https://en.wikipedia.org/wiki/X11_color_names

[XML10]

C. M. Sperberg-McQueen; et al. [Extensible Markup Language \(XML\) 1.0 \(Fifth Edition\)](#). 26 November 2008. W3C Recommendation. URL: <http://www.w3.org/TR/2008/REC-xml-20081126/>

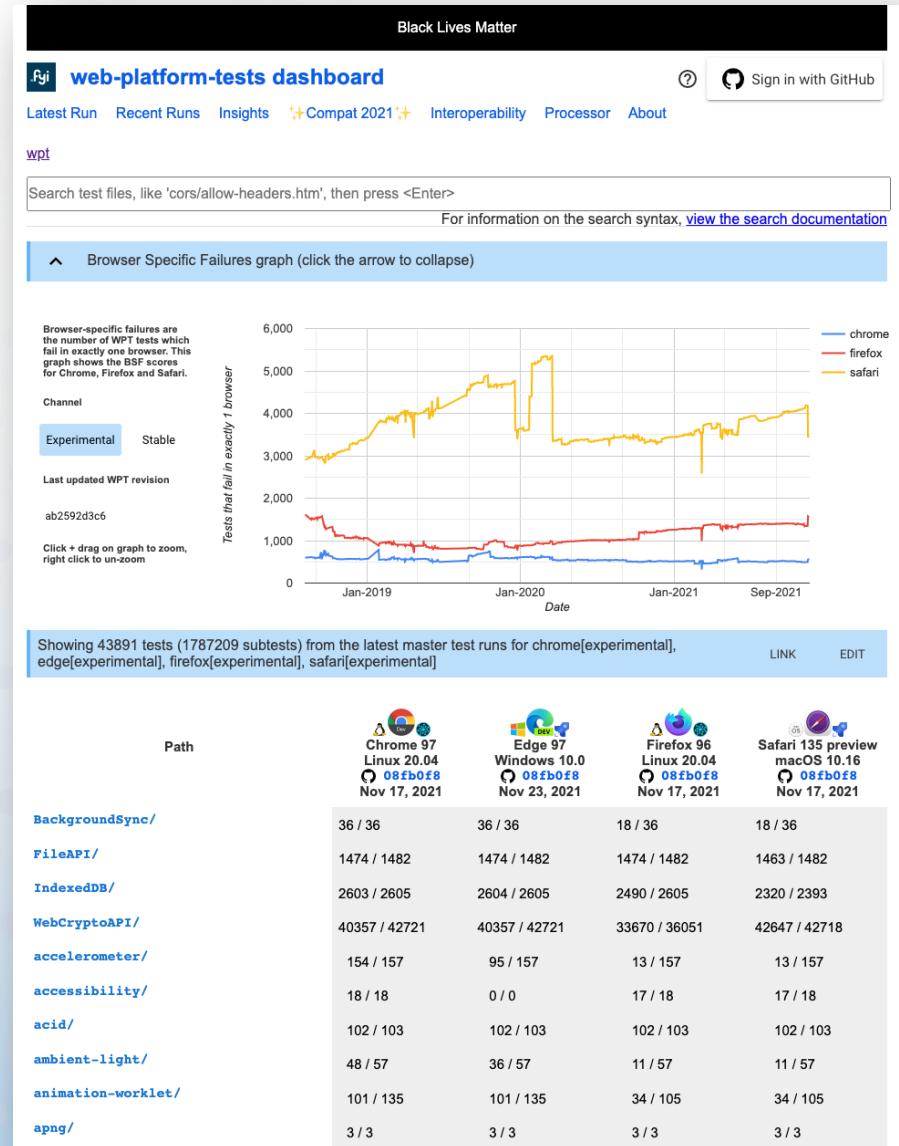
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- <alphavalue>, [3.2](#), [4.2.2](#), [4.2.5](#).
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- ButtonFace, [4.5.1](#).
- ButtonHighlight, [4.5.1](#).
- ButtonShadow, [4.5.1](#).
- ButtonText, [4.5.1](#).
- cadetblue, [4.3](#).
- CaptionText, [4.5.1](#).

WEB PLATFORM TESTS

TEST SUITE FOR THE WEB PLATFORM SPECS

- 3 types of tests:
 - Automated Tests
 - Ref Tests
 - Manual Tests
- Note: these test that the APIs/features *exist*, not that they necessarily perform well
- **Tests:** <https://wpt.live/>
- **GitHub:** <https://github.com/web-platform-tests/wpt>
- **Documentation:** <https://web-platform-tests.org/>
- **Daily Results:** <https://wpt.fyi/>



HOW TO GET INVOLVED



WICG

WEB PLATFORM INCUBATOR COMMUNITY GROUP

- Start here!
- View all current incubations: <https://wicg.io/>
- Join the group: <https://www.w3.org/community/wicg/>
- View & participate in discussions around proposals in the dedicated GitHub repo: <https://github.com/WICG/proposals>
- Submit a proposal: <https://github.com/WICG/admin#contributing-new-proposals>
- Most (but not all) ideas are incubated in the WICG first before finding their way to other groups in the W3C (or other SDOs)



OTHER USEFUL W3C COMMUNITY GROUPS

OPEN UI COMMUNITY GROUP

- <https://www.w3.org/community/open-ui/>
- **Goal:** maintain an open standard to allow web developers to style and extend built-in web UI controls, such as <select> dropdowns, checkboxes, radio buttons, and date/color pickers
- Research is based on existing design systems
- **End result:** standardized Open UI Web Component and/or an implemented feature in a browser
- **Out of scope:** standardize the default appearance for built-in web UI controls (browsers decide)



<https://open-ui.org/>

OTHER USEFUL W3C COMMUNITY GROUPS

ANY OF THE OTHER 350+ CGS

- Anyone with a W3C account can join (does not require W3C membership)
- If none meet your needs, start your own!
https://www.w3.org/community/groups/propose_cg/

MOST ACTIVE CGS

- | | |
|-----------------------------------|------------------------------|
| • WebAssembly | • WebDX |
| • Web Platform Incubator | • Permanent Identifier |
| • Social Web Incubator | • Credentials |
| • GPU for the Web | • Web Machine Learning |
| • ARIA and Assistive Technologies | • XQuery and XSLT Extensions |



<https://www.w3.org/community/groups/>

JOIN INTEREST GROUPS / WORKING GROUPS

2 WAYS TO JOIN

- Your company becomes a W3C member
- Invited Expert: <https://www.w3.org/participate/invited-experts/>

CURRENT W3C INTEREST GROUPS

- Chinese Web Interest Group
- Exploration Interest Group
- Internationalization Interest Group
- Media and Entertainment Interest Group
- Patents and Standards Interest Group
- Security Interest Group
- Sustainable Web Interest Group
- WAI Interest Group
- Web & Networks Interest Group
- Web of Things Interest Group
- Web Payment Security Interest Group
- Web-based Digital Twins for Smart Cities Interest Group

If you know exactly
what W3C spec you
want to see updated...

GO RIGHT TO IT!

- Issues are out in the open on Github
- Find an existing issue and comment on it, or open a new one
- Intro guide: <https://wpc.guide/who-to-talk-to/#specifications>
- Most WGs have mailing lists as well

Where YOU can communicate feedback →

W3C Recommendation

CSS Color Module Level 3



W3C Recommendation 05 August 2021

This version:

<https://www.w3.org/TR/2021/REC-css-color-3-20210805/>

Latest version:

<https://www.w3.org/TR/css-color-3/>

Previous version:

<https://www.w3.org/TR/2018/REC-css-color-3-20180619/>

Editor's Draft:

<https://drafts.csswg.org/css-color-3/>

Implementation Report:

https://test.csswg.org/harness/results/css-color-3_dev/grouped/

Feedback:

[GitHub Issues](#) are preferred for discussion of this specification. When filing an issue, please put the text "css-color-3" in the title, preferably like this: "[css-color-3] ...summary of comment...". All issues and comments are [archived](#), and there is also a [historical archive](#).

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REAL-ISH TIME COMMUNICATION

IRC

- The W3C really likes IRC
- <https://www.w3.org/wiki/IRC>

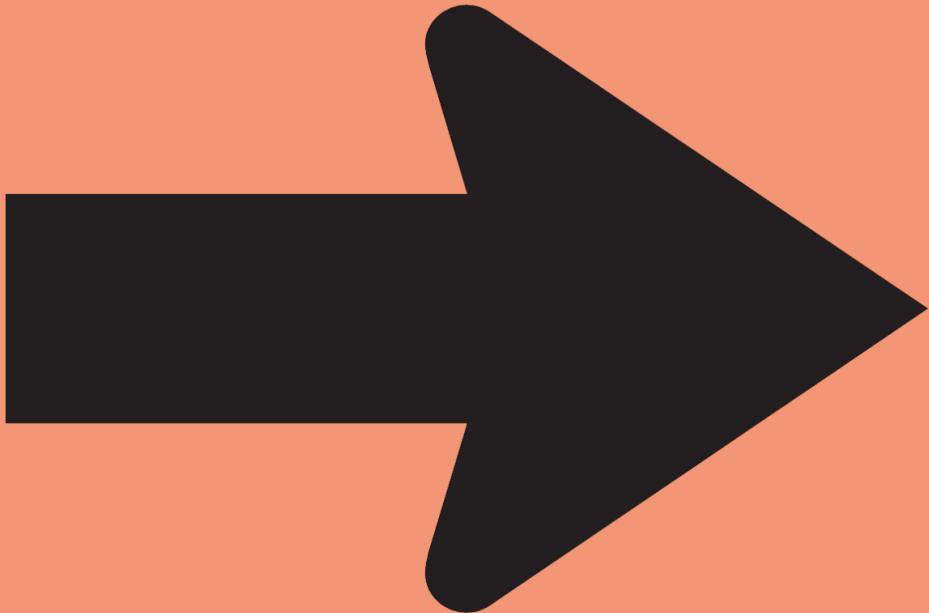
SLACK

- Join at: <https://www.w3.org/slack-w3ccommunity-invite>
- Some groups are more active there than others

TPAC

- Annual “Technical Plenary & Advisory Committee” meeting & unconference
 - “plenary” = a meeting attended by all participants
 - CG, IG and WG in-person meetings also take place
- Hybrid conference (in Japan next week!)
- Breakout sessions are most days
 - Attendees can propose them
 - Anyone with a W3C account can participate
 - Breakouts are listed in overall schedule for 2025: <https://www.w3.org/2025/11/TPAC/schedule.html>

DETOUR



THE WEB WE WANT

WEBWEWANT.FYI

- Collective effort by browser makers to understand where the dev community would like them to invest their energy
- Includes members from W3C, Mozilla, Microsoft, Google and more
- Started as a conference event, now anyone can submit “wants” via their form at <https://webwewant.fyi/>
- Wants are stored as Github Issues and appear on web app and Github
 - Discussions occur in the Github issue
 - Typically fall into one of 3 buckets...

The Web We Want

HOME WANTS EVENTS ABOUT

What We Want

Here is a run-down of the 163 “wants” submitted as part of this program. Check ‘em out and if there’s something you want, [send it in!](#)

I want DevTools to help me discover media that needs subtitling or captions

Submitted by Aaron G

I want browsers to fix automatically fixable accessibility problems automatically

Submitted by Anonymous

I want to enable extensions to run as PWAs

Submitted by Sebastien Guillemot

I want to allow PWAs to be able to request permission to bypass the same-origin policy after install

Submitted by David Barratt

THE WEB WE WANT

OVERALL WANT BUCKETS

- **Easy**
 - e.g. DevTools updates
(some of which have shipped already!)
- **Requires Standards Work**
 - e.g. “I want multi-line truncation via CSS”
<https://webwewant.fyi/wants/5e59460efa695ea9f7750152/>
- **Moonshot**
 - “Historically unlikely at the moment,”
but worth researching later
 - <https://github.com/WebWeWant/webwewant.fyi/issues/323>

The Web We Want

HOME WANTS EVENTS ABOUT

I want multi-line truncation via CSS

Submitted by Alexis Córdova

A solution for this is currently in development. See [the related links](#) for more detail.

Single-line text truncation is easy, straightforward, and broadly supported in browsers; however, multi-line text truncation requires JavaScript, half-baked and non-standardized CSS properties, or fragile hacks to accomplish.

The closest attempt I've seen is the `-webkit-line-clamp` approach:

```
.line-clamp {  
  display: -webkit-box;  
  -webkit-line-clamp: 3;  
  -webkit-box-orient: vertical;  
}
```

Related Links

[Line Clamp in CSS Overflow 3](#)

Tagged: [CSS](#)

What do you think about this?

[Join the discussion](#)

Do you want this too? Share it!



Votes: 0

[Twitter by sharing on Twitter](#)

What are votes for and how are they tallied?

THE WEB WE WANT

VOTING FOR WANTS

- Uses Webmentions
 - Online “Bookmarks” and “likes” increase votes
 - Easiest path is to tap the “Vote by sharing on Twitter” button on a Want’s page
 - Details at <https://webwewant.fyi/voting/>
- The Web We Want team is actively seeking your input for more wants and more votes!

The Web We Want

HOME WANTS EVENTS ABOUT

Voting for the web you want

We are using votes as a way of seeing how much community interest there is in various wants from this site. The browser vendors and standards bodies involved with this effort will take vote tallies into account when it comes considering which gaps or improvements we should consider and how we should prioritize them.

Our voting system is a little different than most sites because we respect your privacy. We don't want to require you to have an account on this site because (frankly) we have no interest in your personal information. We also want you to own your vote, so we opted to use [webmentions](#) as our voting system.

Votes are tallied from webmention [“bookmarks”](#) and [“likes”](#) of each want's page. These could be hand-crafted webmentions sent from your own site or shares and likes on social media services combed by [Brid.gy](#). We're hopeful that this approach captures community sentiment well, but reserve the right to change or alter the voting process in the future.

The Web We Want is run by a bunch of awesome people who ❤ the web!

This site's contents are available under the [Creative Commons Attribution-ShareAlike 4.0 International License](#). Its source code is freely shared under the [MIT license](#).

Edits welcome on [GitHub](#). Hosted on [Netlify](#).

You can also follow us on Twitter for event announcements and more.

REQUIRES
STANDARDS
WORK



CHROMIUM/BLINK FEATURE DEVELOPMENT

IDENTIFY PROBLEM/FEATURE

- Common sources:
 - Web We Want
 - WICG Discourse
 - Other W3C CGs and IGs
 - MDN & other surveys
 - Framework/library ecosystems

Identify Problem/Feature

Research

Prototype

Experiment

Ship it!

Deprecation/Removal

CHROMIUM/BLINK FEATURE DEVELOPMENT

RESEARCH

- Chrome Platform Status entry
 - <https://www.chromestatus.com/features>
- Explainer document with use cases
- WICG proposal (if it does not already exist)

Identify Problem/Feature

Research

Prototype

Experiment

Ship it!

Deprecation/Removal

CHROMIUM/BLINK FEATURE DEVELOPMENT

PROTOTYPE

- “Intent to Prototype”
 - Email sent to blink-dev
 - <https://groups.google.com/a/chromium.org/g/blink-dev>
 - This and other “Intent to” emails are important for web developers to watch and comment on
- Feature actively built behind a flag

Identify Problem/Feature

Research

Prototype

Experiment

Ship it!

Deprecation/Removal

CHROMIUM/BLINK FEATURE DEVELOPMENT

EXPERIMENT

- “Dev Trials”
- Feature available behind a flag
- Solicit feedback from W3C TAG, other browsers, and web developers
- Gather evidence of support from social networks, GitHub, WICG Discourse, blogs, StackOverflow, crbug tracker stars, W3C WG call minutes, libraries, and standards development
- Optional Origin Trial – “Intent to Experiment” 
 - Web Developers can register at <https://developer.chrome.com/origintrials/> and opt-in via an HTTP header or <meta> tag

Identify Problem/Feature

Research

Prototype

Experiment

Ship it!

Deprecation/Removal

CHROMIUM/BLINK FEATURE DEVELOPMENT

SHIP IT!

- “Intent to Ship”
- Prove the feature is ready
- API owners approve = Ship it! 🚢
 - If they do not, goes to “Not to ship”

Identify Problem/Feature

Research

Prototype

Experiment

Ship it!

Deprecation/Removal

CHROMIUM/BLINK FEATURE DEVELOPMENT

DEPRECATION/REMOVAL

- “Intent to Deprecate and Remove”
- Done with care and infrequently
- Sometimes required due to security, performance or interoperability issues
- Goes through a similar process as shipping a feature

Identify Problem/Feature

Research

Prototype

Experiment

Ship it!

Deprecation/Removal

TRACKING FEATURE DEVELOPMENT / BUGS



CHROMIUM

<https://bugs.chromium.org>



GECKO

<https://bugzilla.mozilla.org>



WEBKIT

<https://bugs.webkit.org>

- Want to file an issue that does not exist yet?
 - <https://wpc.guide/skills/#filing-bugs-on-a-browser>

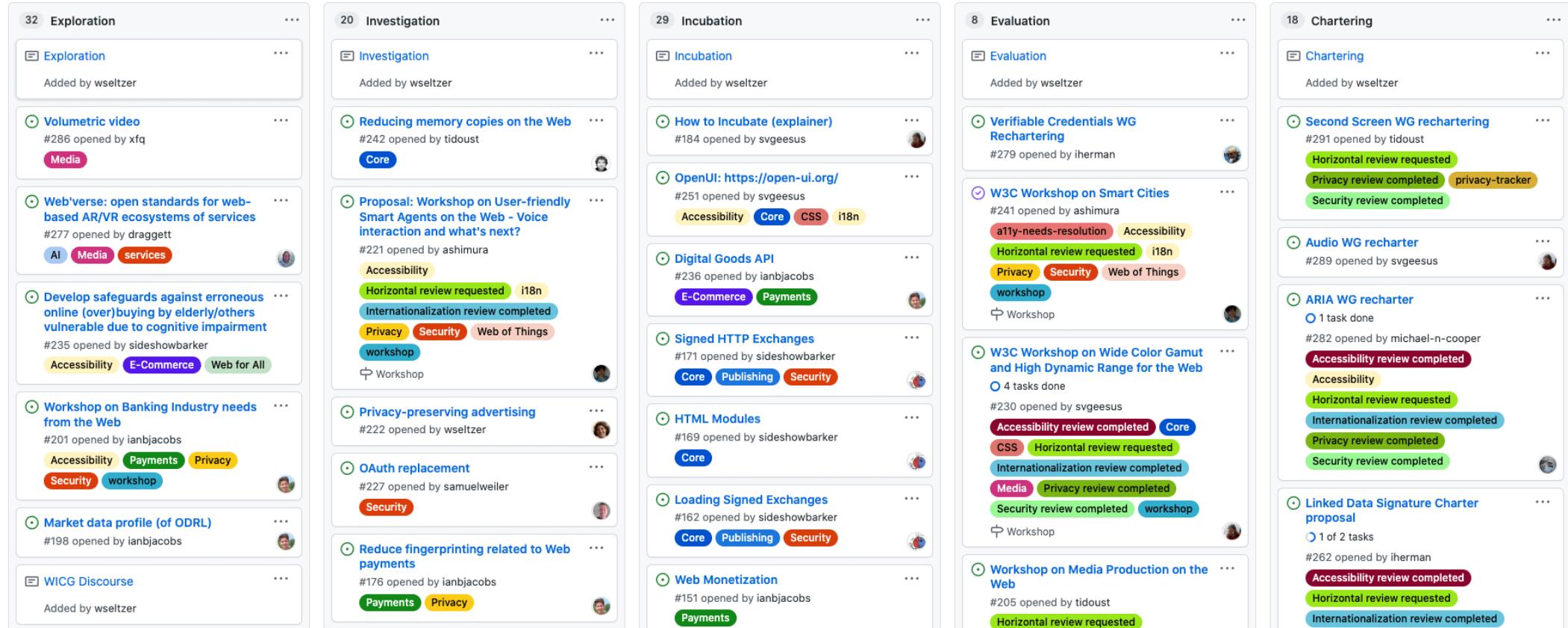
**END
DETOUR**

LATEST W3C WEB PLATFORM FEATURES

STAYING ON TOP OF
WHAT IS COMING

W3C STRATEGY FUNNEL

W3C STRATEGY TEAM'S INCUBATION PIPELINE



- Available at <https://github.com/w3c/strategy>

W3C STRATEGY FUNNEL

EXPLORATION

- Open-ended brainstorming of ideas
- YOU can add to this column by opening a new issue in the GitHub repository
- W3C team members volunteer to lead ideas
 - When “the idea merits more than a few hours of consideration, and is willing to lead that investigation, he/she should move it to the Investigation column”

Exploration

Investigation

Incubation

Evaluation

Chartering

W3C STRATEGY FUNNEL

INVESTIGATION

- Includes the following:
 - Abstract
 - What it would do if successful
 - Types of people & organizations who would be interested/supportive
 - Plan to investigate further
- Could exit this stage outside of the funnel:
 - Recommend to liaise elsewhere
 - Write up and put on hold
 - Actively recommend against work

Exploration

Investigation

Incubation

Evaluation

Chartering

W3C STRATEGY FUNNEL

INCUBATION

- Occurs in a W3C group or outside the W3C
- Involves creating an Explainer

Exploration

Investigation

Incubation

Evaluation

Chartering

W3C STRATEGY FUNNEL

EVALUATION

- May include a W3C Workshop
- Answers these questions:
 - Will this work help to lead the web to its full potential?
 - Is the work Rec-track ready?
 - Do we have the ecosystem of participants needed to make the work successful?
 - Will it add value?
 - Will we be able to make it succeed?
 - Any special considerations?

Exploration

Investigation

Incubation

Evaluation

Chartering

W3C STRATEGY FUNNEL

CHARTERING

- Charter is created
- Chair(s) nominated
- Advisory Committee review takes place

Exploration

Investigation

Incubation

Evaluation

Chartering

W3C GROUP COMMUNICATIONS

MAILING LISTS

[W3C home](#) > [Mailing lists](#) > [Public](#) > [public-web-perf@w3.org](#) > [November 2021](#)

public-web-perf@w3.org from November 2021 by thread

[10 messages](#): Starting Monday, 1 November 2021 14:46:46 UTC, Ending Tuesday, 23 November 2021 17:00:57 UTC

sort by: [[thread](#)] [[author](#)] [[date](#)] [[subject](#)]

Mail actions: [[mail a new topic](#)]

Help: [[How to use the archives](#)] [[Search in the archives](#)]

- [Call for Consensus: Largest Contentful Paint adoption](#) Yoav Weiss (Tuesday, 23 November)
- [Call for Consensus: Event Timing adoption](#) Yoav Weiss (Tuesday, 23 November)

- [Weekly GitHub digest \(Web Performance WG specs\)](#) W3C Webmaster via GitHub API (Tuesday, 16 November)
- [Weekly GitHub digest \(Web Performance WG specs\)](#) W3C Webmaster via GitHub API (Tuesday, 9 November)
- [Weekly GitHub digest \(Web Performance WG specs\)](#) W3C Webmaster via GitHub API (Tuesday, 2 November)
- [Priority Hints - merge with Lazyload?](#) Patrick Meenan (Monday, 1 November)

- [Last message date](#): Tuesday, 23 November 2021 17:00:57 UTC
- [Archived on](#): Tuesday, 23 November 2021 17:00:58 UTC

[10 messages](#) sort by: [[thread](#)] [[author](#)] [[date](#)] [[subject](#)]
Mail actions: [[mail a new topic](#)]

This archive was generated by [hypermail 2.4.0](#) : Tuesday, 23 November 2021 17:00:58 UTC

W3C GROUP COMMUNICATIONS

MAILING LISTS

[W3C home](#) > [Mailing lists](#) > [Public](#) > public-web-perf@w3.org > November 2021

public-web-perf@w3.org from November 2021 by thread

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- [Weekly github digest \(Web Performance WG specs\)](#) W3C Webmaster via GitHub API (Tuesday, 23 November)
- [WebPerfWG TPAC minutes and recordings](#) Yoav Weiss (Tuesday, 23 November)
- [Call for Consensus: Largest Contentful Paint adoption](#) Yoav Weiss (Tuesday, 23 November)
- [Call for Consensus: Event Timing adoption](#) Yoav Weiss (Tuesday, 23 November)
- [WebPerf WG @ TPAC 2021 - Schedule](#) Nic Jansma (Thursday, 18 November)
- [WebPerfWG call - November 18th 2021 @ 10am PT](#) Nic Jansma (Wednesday, 17 November)
- [Weekly github digest \(Web Performance WG specs\)](#) W3C Webmaster via GitHub API (Tuesday, 16 November)
- [Weekly github digest \(Web Performance WG specs\)](#) W3C Webmaster via GitHub API (Tuesday, 9 November)
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This archive was generated by [hypermail 2.4.0](#) : Tuesday, 23 November 2021 17:00:58 UTC

CSS WG BLOG



This is a page from the **Cascading Style Sheets Working Group Blog**. Some other places to find information are the "current work" page, the www-style mailing list, the Future of CSS syndicator, and the issue list on Github.

Do you want to know how the **CSS WG** works? Fantasai has written [about:csswg](#). An Inside View of the CSS Working Group at W3C.

MINUTES TELECON 2021-II-17

By Doe Jackson [November 18, 2021](#) | [Permalink](#)
Categories: [resolutions](#)

- The meetings for next week and the last 2 weeks of December are cancelled due to holidays. There is interest in doing an extended call on 8 December to make it though more of the agenda+ topics. A decision will be made on the mailing list.
- In continuing to solve for issue #4497 (Limit local fonts to those selected by users in browser settings (or other browser chrome)), the group reviewed a [proposed solution](#) from Felipe. The proposal doesn't specifically call out using a locally-installed font which does have use cases. This could also be a fingerprinting mechanism. There is concern on using a permission prompt to inform the user since fingerprinting is complex to explain and there is already user fatigue around permission prompts.
- **Resolved:** format() serializes with strings ([Issue #6328: @font-face src: url\(\) format\(\) keywords vs. strings ambiguous in spec](#))

• **Resolved: Republish css-cascade-5**

RESOLVED: Republish css-cascade-5
• **Resolved:** Accept edits, expand to allow aliased functions ([Issue #6193: define parse-time value aliasing](#))

PROJECT FUGU



PROJECT FUGU



WEB CAPABILITIES PROJECT FROM GOOGLE

- **Goal:** close the gap between iOS/Android/desktop apps and web apps
- **Overall Tracker:** <https://fugu-tracker.web.app/>
- **Chromium Issue Tracker proj-fugu Label:** <http://bit.ly/fugu-bugs>
- 5 stages:
 - Capabilities that are under consideration (star and comment the bug to vote!)
 - Capabilities that are started
 - Capabilities available behind a flag
 - Capabilities available as an origin trial
 - Capabilities available in stable
 - Links to all of them are available at <https://web.dev/fugu-status/>
- Codelab to try out Fugu APIs: <https://developers.google.com/codelabs/project-fugu>

PROJECT FUGU



⚠ CHROME SHIPPING FUGU FEATURE != OTHER BROWSERS WILL FOLLOW SUIT

- Webkit has stated they will not launch these features due to fingerprinting concerns:
 - Web Bluetooth
 - Web MIDI API
 - Magnetometer API
 - Web NFC API
 - Device Memory API
 - Network Information API
 - Battery Status API
 - Web Bluetooth Scanning
 - Ambient Light Sensor
 - HDCP Policy Check extension for EME
 - Proximity Sensor
 - WebHID
 - Serial API
 - Web USB
 - Geolocation Sensor (background geolocation)
 - User Idle Detection

RECENTLY LAUNCHED FEATURES

BASELINE

- Baseline gives you clear information about which web platform features are ready to use in your projects today.
- Originated by the Chrome team and is now defined by the WebDX Community Group.
- Baseline has **two stages**:
 - **Newly available**: The feature is supported by **all** of the core browsers, and is therefore interoperable.
 - **Widely available: 30 months have passed** since the newly interoperable date. The feature can be used by most sites without worrying about support.
- Prior to being Newly available, a feature has **Limited availability** when it's not yet supported across browsers.

BASELINE - WEBSTATUS.DEV

Web Platform Status

 Log in

Features

-  Baseline 2025
-  Baseline 2024
-  Baseline 2023
-  Baseline 2022
-  Baseline 2021
-  Baseline 2020
-  Top CSS Interop issues
-  Top HTML Interop issues

Platform statistics

 Report an issue

 About

Features overview

1094 features



Filter by ...

 Columns

 Export to CSV

Feature	↓ Baseline	Availability	WPT			
<code>view-transition-class</code> Mozilla: Positive Apple: Support			100%	100%	100%	
<code>View transitions</code> <small>TOP CSS INTEROP</small> Mozilla: Positive Apple: Support					73.0%	
<code>WebRTC encoded transform</code> <small>INTEROP</small> Mozilla: Positive			45.5%		45.5%	
<code>::details-content</code>			100%	100%	100%	
<code>content-visibility</code> Mozilla: Positive			96.9%	97.8%	93.0%	
<code><link rel="dns-prefetch"></code>						
<code>Unsanitized HTML parsing methods</code>						
<code>URLPattern</code> <small>INTEROP</small> Mozilla: Positive Apple: Support			100%	100%	38.5%	
<code>Uint8Array base64 and hex conversion</code>						

BASELINE TOOLING



Browserslist now supports Baseline

Browserslist has added support for Baseline queries. Find out what that could mean for your developer workflow.

[Learn more](#)



Create Baseline tools with the web-features package

Learn how to use the data in the web-features npm package to create your own Baseline tools!

[Learn more](#)



Baseline for CSS properties now in Chrome DevTools

Baseline information is now available for CSS properties in the Elements panel of Chrome DevTools!

[Learn more](#)

RECENTLY LAUNCHED FEATURES

WEB MEDIA API SNAPSHOT

<https://w3c.github.io/webmediaapi/>



Web Media API Snapshot 2025

Final Community Group Report 22 October 2025



This version:

<https://www.w3.org/community/reports/webmediaapi/CG-FINAL-webmediaapi-20251022/>

Latest editor's draft:

<https://w3c.github.io/webmediaapi/>

Previous version:

<https://www.w3.org/community/reports/webmediaapi/CG-FINAL-webmediaapi-20250411/>

Test suite:

<https://webapitests2025.ctawave.org/>

Editors:

Jon Piesing ([TP Vision Belgium N.V.](#))

John Riviello ([Comcast](#))

Former editors:

David Evans ([British Broadcasting Corporation](#))

RECENTLY LAUNCHED FEATURES

WEB MEDIA API SNAPSHOT

2025 Changes: <https://github.com/w3c/webmediaapi/compare/v2024..HEAD>

91 index.html

@@ -2,7 +2,7 @@

```
2 <html>
3   <head>
4     <meta charset="utf-8">
5 -   <title>Web Media API Snapshot 2024</title>
6     <meta name="color-scheme" content="light dark" />
7     <script
8       src="https://www.w3.org/Tools/respec/respec-w3c"
```

@@ -11,7 +11,7 @@

```
11   <script class="remove">
12     var respecConfig = {
13       specStatus: "CG-DRAFT",
14 -       latestVersion: "https://www.w3.org/community/reports/webmediaapi/CG-
15         FINAL-webmediaapi-20241016/",
16       editors: [
17         {name: "Jon Piesing",
18          company: "TP Vision Belgium N.V."}
```

@@ -38,9 +38,9 @@

```
38   w3cid: 46825
39   }],
40   github: "https://github.com/w3c/webmediaapi",
41 -   shortName: "WMAS2024",
42   group: "webmediaapi",
```

```
2 <html>
3   <head>
4     <meta charset="utf-8">
5 +   <title>Web Media API Snapshot 2025</title>
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```

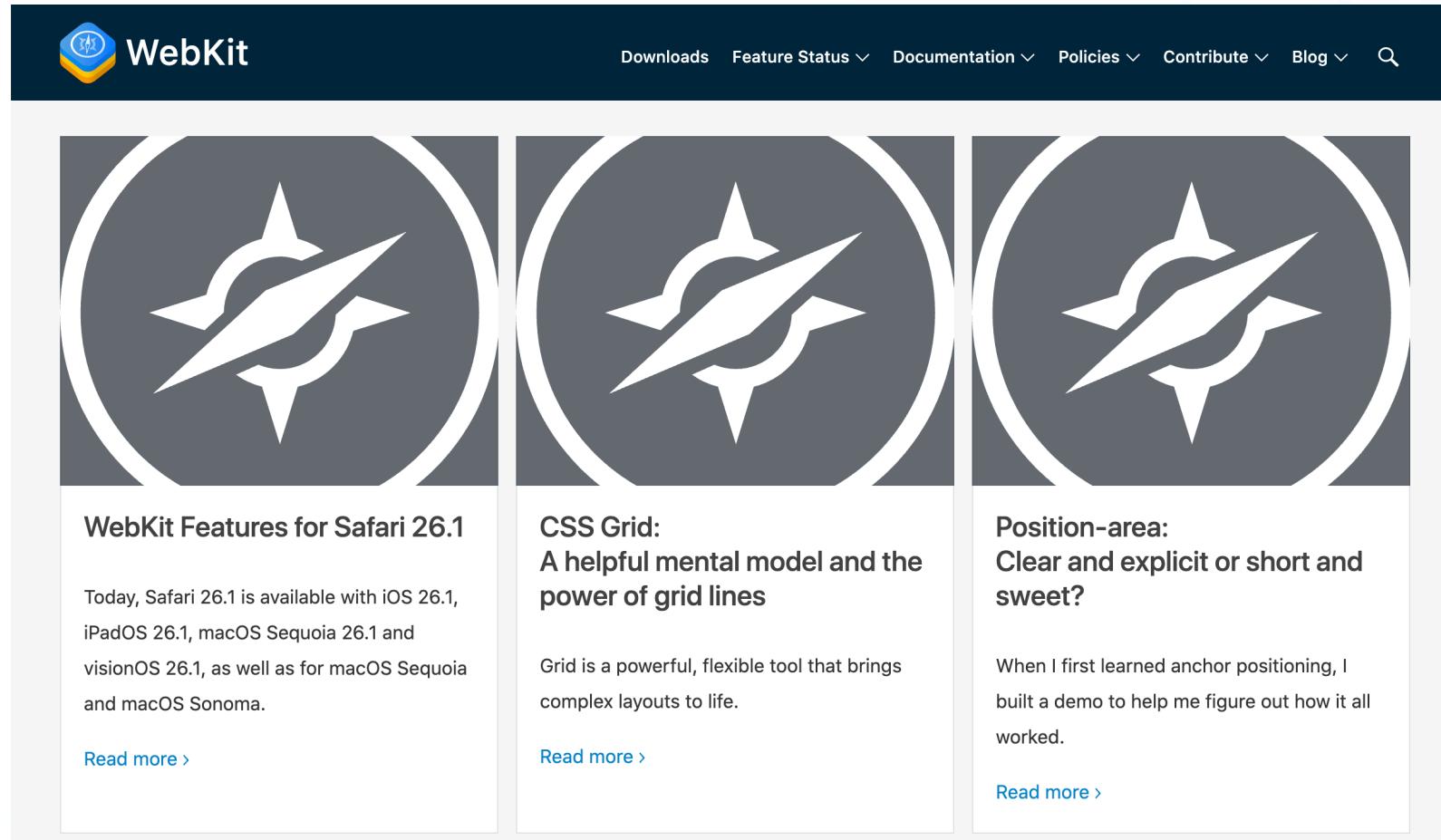
RECENTLY LAUNCHED FEATURES

WEB MEDIA API SNAPSHOT 2025 ADDITIONS

- WHATWG Updates (DOM, Fetch, Fullscreen, Notifications API)
- Most of ECMAScript 2025
 - Resizable ArrayBuffer from ES2024 now available in all major browsers
 - Atomics.waitAsync from ES2025 does not yet have full support
 - Regular Expression Inline Pattern Modifiers from ES2025 does not yet have full support
- CSS Grid Level 2 (*W3C Candidate Recommendation Draft*)
 - grid-template-columns: subgrid;
 - grid-template-rows: subgrid;
- *Web Assembly 2 (*W3C Recommendation*)
 - *Also Extended Constant Expressions from Web Assembly 3

RECENTLY LAUNCHED FEATURES

SAFARI WEBKIT FEATURES NEWS



The screenshot shows the 'WebKit' logo at the top left, followed by a navigation bar with links: Downloads, Feature Status, Documentation, Policies, Contribute, and Blog. A search icon is also present. Below the navigation, there are three circular icons, each containing a stylized white bird or compass-like symbol.

 <p>WebKit Features for Safari 26.1</p> <p>Today, Safari 26.1 is available with iOS 26.1, iPadOS 26.1, macOS Sequoia 26.1 and visionOS 26.1, as well as for macOS Sequoia and macOS Sonoma.</p> <p>Read more ></p>	 <p>CSS Grid: A helpful mental model and the power of grid lines</p> <p>Grid is a powerful, flexible tool that brings complex layouts to life.</p> <p>Read more ></p>	 <p>Position-area: Clear and explicit or short and sweet?</p> <p>When I first learned anchor positioning, I built a demo to help me figure out how it all worked.</p> <p>Read more ></p>
---	---	---

RECENTLY LAUNCHED FEATURES

WEB.DEV'S MONTHLY "NEW TO THE WEB PLATFORM" BLOG POSTS



New to the web platform in October

New to the web platform in October

Discover some of the interesting features that have landed in stable and beta web browsers during October 2025.

[New to the web platform](#) | [Blog](#)

Rachel Andrew
October 30, 2025



New to the web platform in September

New to the web platform in September

Discover some of the interesting features that have landed in stable and beta web browsers during September 2025.

[New to the web platform](#) | [Blog](#)

Rachel Andrew
October 1, 2025



New to the web platform in August

New to the web platform in August

Discover some of the interesting features that have landed in stable and beta web browsers during August 2025.

[New to the web platform](#) | [Blog](#) | [CSS](#)

Rachel Andrew
August 29, 2025

RECENTLY LAUNCHED FEATURES

URL PATTERN API - FULLY AVAILABLE AS OF SEPTEMBER

- New web platform primitive for matching URLs based on a convenient pattern syntax

```
// A pattern matching some fixed text

// without URLPattern:
const url = new URL("https://example.com/books");
console.log(url.pathname === "/books")); // true

// with URLPattern:
const pattern = new URLPattern({ pathname: "/books" });
console.log(pattern.test("https://example.com/books")); // true
```

RECENTLY LAUNCHED FEATURES

URL PATTERN API - FULLY AVAILABLE AS OF SEPTEMBER

- New web platform primitive for matching URLs based on a convenient pattern syntax

```
// A pattern matching with a named group
```

```
// without URLPattern:
```

```
const url = new URL("https://example.com/books/123");
const regex = /^\/books\/(?<id>.+)$/;
console.log(regex.exec(url.pathname).groups.id)); // '123'
```

```
// with URLPattern:
```

```
const pattern = new URLPattern({ pathname: "/books/:id" });
console.log(pattern.exec("https://example.com/books/123").pathname.groups); // '123'
```

RECENTLY LAUNCHED FEATURES

::DETAILS-CONTENT PSEUDO-ELEMENT - FULLY AVAILABLE AS OF SEPTEMBER

- The ::details-content CSS pseudo-element represents the expandable/collapsible contents of a <details> element.

```
<details>
  <summary>Click to expand</summary>
  This is the content that appears when
  you expand the details element.
</details>
```

RECENTLY LAUNCHED FEATURES

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RECENTLY LAUNCHED FEATURES

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</details>
```

```
details {
  background-color: cyan;
  border: 2px solid navy;
  padding: 1rem;
}
```

► Click to expand

RECENTLY LAUNCHED FEATURES

::DETAILS-CONTENT PSEUDO-ELEMENT - FULLY AVAILABLE AS OF SEPTEMBER

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```

```
details {
  background-color: cyan;
  border: 2px solid navy;
  padding: 1rem;
}
details[open]::details-content {
  color: red;
  border: 1px solid #f60;
  padding: 1rem;
  margin-top: 1rem;
  background-color: rgba(255, 255, 255, 0.7);
}
```

► Click to expand

RECENTLY LAUNCHED FEATURES

::DETAILS-CONTENT PSEUDO-ELEMENT - FULLY AVAILABLE AS OF SEPTEMBER

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  background-color: rgba(255, 255, 255, 0.7);
}
```

▼ Click to expand

This is the content that appears when you
expand the details element.

RECENTLY LAUNCHED FEATURES

VIEW TRANSITIONS API FOR SINGLE-PAGE APPS - FULLY AVAILABLE AS OF 24 DAYS AGO!

- Provides a mechanism for easily creating animated transitions between different views
- **How to use:** https://developer.mozilla.org/en-US/docs/Web/API/View_Transition_API/Using
- **Demos:** <https://view-transitions.chrome.dev/>

USEFUL LINKS

SLIDES: [HTTPS://GITHUB.COM/TECHBASH/TECHBASH2025](https://github.com/techbash/techbash2025)

- W3C - <https://www.w3.org>
- W3C Slack - <https://www.w3.org/slack-w3ccommunity-invite>
- WICG - <https://wicg.io>
- The Web We Want - <https://webwewant.fyi>
- W3C Strategy Incubation Pipeline - <https://github.com/w3c/strategy>
- Baseline - <https://web.dev/baseline>
- Project Fugu - <https://web.dev/fugu-status/>
- Safari WebKit News - <https://webkit.org/blog/category/news/>
- web.dev's "New To The Web Platform" - <https://web.dev/tags/new-to-the-web/>

THANK YOU!

Please send comments,
questions, or feedback
to me at [@JohnRiv](https://twitter.com/JohnRiv)





COMCAST