

CSS

CSS GRID & FLEXBOX

GETTING STARTED

Context



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Learn front-end development at rocket speed.



+



CSS

+80

SPECIFICATIONS

ALL CSS SPECIFICATIONS

Descriptions
of all CSS specifications

Languages

CSS HOME LEARN & USE SOFTWARE PARTICIPATE / DRAFTS

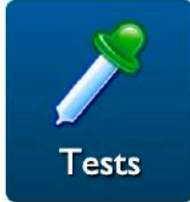


CSS SPECIFICATIONS

This page contains descriptions of all specifications that the [CSS WG](#) is working on. See the [‘current work’ page](#) for a compact view and [how to give feedback](#).

MEDIA QUERIES LEVEL 3

Media Queries is an enhancement of the `@media` rules of CSS and the “media” attribute in HTML. It adds parameters such as size of display, color depth and aspect ratio. This is because within a class of media (such as TV sets) there can still be important variations. It is related to the work on CC/PP, but is a much more light-weight and limited solution.

Tests

History

Editors: Florian Rivoal, ~~Håkon Wium Lie~~, ~~Tantek Çelik~~, ~~Daniel Glazman~~, ~~Anne van Kesteren~~

MEDIA QUERIES LEVEL 4

Media Queries defines a syntax for short expressions that describe required features of media (or devices), e.g.: minimum or maximum screen size, color capabilities, resolution, aspect ratio, type of pointing device, viewing environment, scripting capabilities, etc. Media Queries is related to the work on [CC/PP](#), but is a more light-weight and limited solution.

History

Such expressions can be attached as labels to style sheets or other resources, to indicate what media they are designed for. They are used, e.g., in HTML (in the `media` attribute). CSS uses them on `@import` and `@media` and they occur in similar ways in SVG and [generic XML](#).

Media Queries level 4 is an extended version of the first [Media Queries](#). It adds a handful of new media features, such as 'pointer' and 'hover' (for capabilities of the pointing device) and 'block-overflow' (for paged vs scrolling media), which provide more precise information about the media than the old 'handheld' vs 'screen' and 'projection' vs 'screen' distinctions.

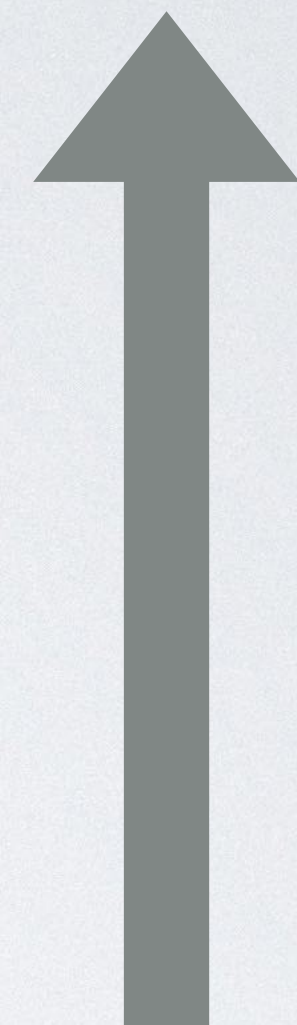
Editors: Florian Rivoal, Tab Atkins Jr.

MATURITY OF SPECIFICATIONS BY STATUS CODE

REC RECOMMENDATION

CR CANDIDATE RECOMMENDATION

WD WORKING DRAFT





CSS current work & how to participate



Languages

Ordered from most to least stable:

Completed	Current	Upcoming	Notes	
CSS Snapshot 2026	NOTE		Latest stable CSS	
CSS Snapshot 2025	NOTE			
CSS Snapshot 2024	NOTE			
CSS Snapshot 2023	NOTE			
CSS Snapshot 2022	NOTE			
CSS Snapshot 2021	NOTE			
CSS Snapshot 2020	NOTE			
CSS Snapshot 2018	NOTE			
CSS Snapshot 2017	NOTE			
CSS Snapshot 2015	NOTE			
CSS Snapshot 2010	NOTE			
CSS Snapshot 2007	NOTE			
CSS Color Level 3	REC	REC		
CSS Namespaces	REC	REC		
Selectors Level 3	REC	REC		
CSS Level 2 Revision 1	REC	REC	See Errata	
Media Queries Level 3	REC	REC		
CSS Style Attributes	REC	REC		
CSS Cascading and Inheritance Level 3	REC	REC		
CSS Fonts Level 3	REC	REC		
CSS Writing Modes Level 3	REC	REC		
CSS Basic User Interface Level 3	REC	REC		
CSS Box Model Level 3	REC	REC		

FLEXBOX



CSS GRID



Descriptions of all CSS specifications



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CSS SPECIFICATIONS

This page contains descriptions of all specifications that the [CSS WG](#) is working on. See the [‘current work’](#) page for a compact view and [how to give feedback](#).

CSS FLEXIBLE BOX LAYOUT LEVEL 1

The *Flexible Box Layout Module* defines the 'flex' and 'inline-flex' keywords for the 'display' property, which cause an element to be displayed as either a column or a row of child elements. Additional properties determine the order of the child boxes (left to right, bottom to top, etc.) and how space is distributed over the children and the spaces between them. The module is primarily intended for forcing rows of controls in a GUI to equal height or width.

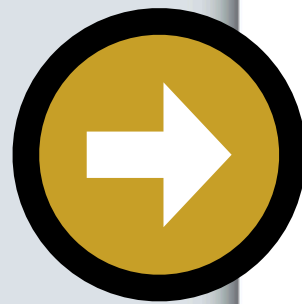


Editors: Tab Atkins Jr., Erika J. Etemad / fantasai, Rossen Atanassov, ~~Alex Mogilevsky~~, ~~L. David Baron~~, ~~Neil Deakin~~, ~~Ian Hickson~~, ~~David Hyatt~~

CSS IMAGES LEVEL 3

The *CSS Images Module* defines how properties can refer to images by URL. All properties that can take images as a value, such as 'background-image' and 'list-style-image', use this syntax. It also defines color gradients. as a built-in image type.





Stable	Current	Upcoming	Notes	
CSS Backgrounds and Borders Level 3	CRD	CR		
CSS Conditional Rules Level 3	CR	CR		
CSS Multi-column Layout Level 1	CR	PR		
CSS Values and Units Level 3	CR	PR		
CSS Flexible Box Layout Level 1	CR	PR		
CSS Counter Styles Level 3	CR	PR		

Testing	Current	Upcoming	Notes	
CSS Images Level 3	CR	CR		
CSS Speech Level 1	CRD	CR		
CSS Text Decoration Level 3	CRD	CR		
CSS Shapes Level 1	CRD	CR		
CSS Masking Level 1	CRD	CR		
CSS Text Level 3	CRD	CR		
CSS Fragmentation Level 3	CR	PR		
CSS Transforms Level 1	CR	PR		
CSS Custom Properties for Cascading Variables Level 1	CR	CR		
Compositing and Blending Level 1	CR	CR		
CSS Syntax Level 3	CRD	CR		
CSS Grid Layout Level 1	CRD	CR		
CSS Display Level 3	CR	CR		
CSS Will Change Level 1	CRD	CR		
Media Queries Level 4	CRD	CR		
Geometry Interfaces Level 1	CR	CR		
CSS Cascading and Inheritance Level 4	CR	CR		
CSS Scroll Snap Level 1	CR	PR		
CSS Painting API Level 1	CRD	CR		
CSS Color Level 4	CRD	CR		
CSS Easing Functions Level 1	CRD	CR		
CSS Writing Modes Level 4	CR	PR		
CSS Grid Layout Level 2	CRD	CR		
CSS Scrollbars Styling Level 1	CR	PR		
CSS Color Adjustment Level 1	CRD	CR		
CSS Conditional Rules Level 4	CR	PR		
CSS Cascading and Inheritance Level 5	CR	CR		
CSS X- and Y-axis Transitions Level 1	CR	CR		

CSS FONTS

CSS FLEXIBLE BOX LAYOUT MODULE

LEVEL 4



LEVEL 3



LEVEL 2



LEVEL 1



CSS FONTS

CSS FLEXIBLE BOX LAYOUT MODULE

LEVEL 4



LEVEL 3



LEVEL 2



LEVEL 1



Candidate recommendation

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CSS Flexible Box Layout Module Level

1

W3C Candidate Recommendation Draft, 14 October 2025



▼ More details about this document

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<https://www.w3.org/TR/2025/CRD-css-flexbox-1-20251014/>

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<https://drafts.csswg.org/css-flexbox/>

History:
<https://www.w3.org/standards/history/css-flexbox-1/>

Implementation Report:
<https://wpt.fyi/results/css/css-flexbox>

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Issues List:
<https://drafts.csswg.org/css-flexbox-1/issues>

Test Suite:
<https://wpt.fyi/results/css/css-flexbox/>

Chrome 151
5291/5321

Firefox 153
5214/5321

Safari 26
5134/5318

Edge 150
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CSS Flexible Box Layout Module Level 1

W3C Candidate Recommendation Draft, 14 October 2025



▼ More details about this document

1. Introduction

This section is not normative.

CSS 2.1 defined four layout modes — algorithms which determine the size and position of boxes based on their relationships with their sibling and ancestor boxes:

- block layout, designed for laying out documents
- inline layout, designed for laying out text
- table layout, designed for laying out 2D data in a tabular format
- positioned layout, designed for very explicit positioning without much regard for other elements in the document

This module introduces a new layout mode, **flex layout**, which is designed for laying out more complex applications and webpages.

Test Suite:

<https://wpt.fyi/results/css/css-flexbox/>



Chrome 151
5291/5321



Firefox 153
5214/5321



Safari 26
5134/5318



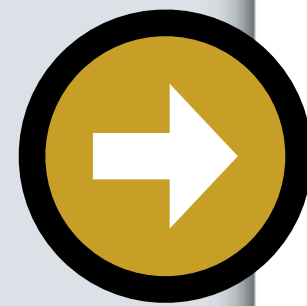
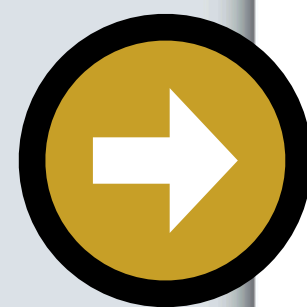
Edge 150
5291/5321

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FLEXBOX



CSS GRID



Testing	Current	Upcoming	Notes	
CSS Images Level 3	CR	CR		□
CSS Speech Level 1	CRD	CR		□
CSS Text Decoration Level 3	CRD	CR		□
CSS Shapes Level 1	CRD	CR		□
CSS Masking Level 1	CRD	CR		□
CSS Text Level 3	CRD	CR		□
CSS Fragmentation Level 3	CR	PR		□
CSS Transforms Level 1	CR	PR		□
CSS Custom Properties for Cascading Variables Level 1	CR	CR		□
Compositing and Blending Level 1	CR	CR		□
CSS Syntax Level 3	CRD	CR		□
CSS Grid Layout Level 1	CRD	CR		□
CSS Display Level 3	CR	CR		□
CSS Will Change Level 1	CRD	CR		□
Media Queries Level 4	CRD	CR		□
Geometry Interfaces Level 1	CR	CR		□
CSS Cascading and Inheritance Level 4	CR	CR		□
CSS Scroll Snap Level 1	CR	PR		□
CSS Painting API Level 1	CRD	CR		□
CSS Color Level 4	CRD	CR		□
CSS Easing Functions Level 1	CRD	CR		□
CSS Writing Modes Level 4	CR	PR		□
CSS Grid Layout Level 2	CRD	CR		□
CSS Scrollbars Styling Level 1	CR	PR		□
CSS Color Adjustment Level 1	CRD	CR		□
CSS Conditional Rules Level 4	CR	PR		□
CSS Cascading and Inheritance Level 5	CR	CR		□
CSS View Transitions Level 1	CR	CR		□
Refining	Current	Upcoming	Notes	
CSS Animations Level 1	WD	WD		□
Web Animations	WD	WD		□
CSS Transitions	WD	CR		□
CSS Box Alignment Level 3	WD	WD		□
Selectors Level 4	WD	WD		□
CSS Box Sizing Level 3	WD	CR		□

W3C Candidate Recommendation Draft

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CSS Grid Layout Module Level 1

W3C Candidate Recommendation Draft, 26 March 2025

▼ More details about this document

This version:

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Implementation Report:

<https://wpt.fyi/results/css/css-grid>

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<https://wpt.fyi/results/css/css-grid/>

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Abstract

This CSS module defines a two-dimensional grid-based layout system, optimized for user interface design. In the grid layout model, the children of a grid container can be positioned into arbitrary slots in a predefined flexible or fixed-size layout grid.

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CSS Grid Layout Module Level 1

W3C Candidate Recommendation Draft, 26 March 2025



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Editor's Draft:

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History:

1. Introduction

This section is not normative.

Grid Layout is a new layout model for CSS that has powerful abilities to control the sizing and positioning of boxes and their contents. Unlike Flexible Box Layout, which is single-axis-oriented, Grid Layout is optimized for 2-dimensional layouts: those in which alignment of content is desired in both dimensions.

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Abstract

This CSS module defines a two-dimensional grid-based layout system, optimized for user interface design. In the grid layout model, the children of a grid container can be positioned into arbitrary slots in a predefined flexible or fixed-size layout grid.

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CSS Grid Layout Module Level 2

W3C Candidate Recommendation Draft, 26 March 2025



▼ More details about this document

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<https://wpt.fyi/results/css/css-grid/subgrid>

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Abstract

This CSS module defines a two-dimensional grid-based layout system, optimized for user interface design. In the grid layout model, the children of a grid container can be positioned into arbitrary slots in a predefined flexible or fixed-size layout grid. Level 2 expands Grid by adding “subgrid” capabilities for nested grids to participate in the sizing of their parent grids.

CSS is a language for describing the rendering of structured documents (such as HTML and XML) on screen, on paper, etc.

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CSS Grid Layout Module Level 3

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Abstract

This module introduces a one-dimensional grid layout mode for [CSS Grid](#) containers.

[CSS](#) is a language for describing the rendering of structured documents (such as HTML and XML) on screen, on paper, etc.

Status of this document

This section describes the status of this document at the time of its publication. A list of current W3C publications and the latest revision of this technical report can be found in the [W3C standards and drafts index](#).

CSS FLEXIBLE BOX
LAYOUT MODULE

CSS GRID
LAYOUT MODULE

LEVEL 4



LEVEL 3



LEVEL 2



LEVEL 1



CSS FLEXIBLE BOX LAYOUT MODULE

CSS GRID LAYOUT MODULE

LEVEL 4

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+



FLEXBOX



CSS GRID

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Can I use
flexible box
? ⚙ Settings
1 result found

Flexible Box Layout Module 📄 - CR

Global84.07% + 13.6% = 97.68%
unprefixed:83.57% + 3.27% = 86.83%

Method of positioning elements in horizontal or vertical stacks. Support includes the support for the all properties prefixed with `flex` as well as `display: flex`, `display: inline-flex`, `align-content`, `align-items`, `align-self`, `justify-content` and `order`.

Current aligned
Usage relative
Date relative
Show all

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Chrome for Android
			49						
			56			9.3		4.4	
	14	52	57	10		10.2		4.4.4	
11	15	53	58	10.1	44	10.3	all	56	57
		54	59	TP	45				
		55	60		46				
		56	61						

Notes
Known issues (8)
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Feedback

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Can I use

CSS Flexible Box

?
Settings

1 result found

#

CSS Flexible Box Layout Module

- CR

Global

85.09% + 12.31% = 97.39%

unprefixed:

84.77% + 3.25% = 88.02%

Method of positioning elements in horizontal or vertical stacks. Support includes all properties prefixed with `flex`, as well as `display: flex`, `display: inline-flex`, `align-content`, `align-items`, `align-self`, `justify-content` and `order`.

Current aligned

Usage relative

Date relative

Show all

IE	Edge	Firefox	Chrome	Safari	iOS Safari	Opera Mini	Chrome for Android	UC Browser for Android	Samsung Internet
		52	49						
		55	60		10.2				4
	15	56	61	10.1	10.3				5
4 11	16	57	62	11	11.1	all	62	11.4	6.2
	17	58	63	TP					
		59	64						
		60	65						

Notes

Known issues (9)

Resources (13)

Feedback



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Chrome

58.94%

Safari

13.7%

UC Browser

7.46%

Firefox

5.17%

Opera

3.5%

IE

3.12%

Browser Market Share Worldwide - June 2018



UC Browser

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Can I use

CSS Flexible Box

?
 Settings

1 result found

#

CSS Flexible Box Layout Module
 - CR

Method of positioning elements in horizontal or vertical stacks. Support includes all properties prefixed with `flex`, as well as `display: flex`, `display: inline-flex`, `align-content`, `align-items`, `align-self`, `justify-content` and `order`.

Current aligned

Usage relative

Date relative

Show all

IE	Edge	Firefox	Chrome	Safari	iOS Safari	Opera Mini	Chrome for Android	UC Browser for Android	Samsung Internet
			49						
			66		10.3				4
		60	67		11.2				6.2
11	17	61	68	11.1	11.4	all	67	11.8	7.2
	18	62	69	12	12				
		63	70	TP					
			71						

[Notes](#)
[Known issues \(9\)](#)
[Resources \(13\)](#)
[Feedback](#)

FLEXBOX



CSS GRID

Can I use

css grid

? Settings

1 result found

CSS Grid Layout - WD

Method of using a grid concept to lay out content, providing a mechanism for authors to divide available space for lay out into columns and rows using a set of predictable sizing behaviors

Global 0% + 6.8% = 6.8%
unprefixed: 0%

Current aligned Usage relative Show all

IE	Edge	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Android Browser	Chrome for Android
			49						
		47	51					4.4	
8	13	48	52	9.1		9.3		4.4.4	
11	14	49	53	10	39	10	all	52	51
		50	54	TP	40				
		51	55		41				
		52	56						

Notes Known issues (0) Resources (10) Feedback

Supported in WebKit Nightly with `-webkit-` prefix.

Enabled by default in Firefox nightly and developer editions, but not yet on track to be enabled in beta or stable Firefox.

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Can I use
css grid
? ⚙ Settings
2 results found

CSS Grid Layout - CR

Global56.99% + 5.35% = 62.34%
unprefixed:56.99%

Method of using a grid concept to lay out content, providing a mechanism for authors to divide available space for layout into columns and rows using a set of predictable sizing behaviors

Current aligned
Usage relative
Date relative
Show all

IE	Edge	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Android Browser	Chrome for Android
			49						
			56			9.3		4.4	
	14	52	57	10		10.2		4.4.4	
11	15	53	58	10.1	44	10.3	all	56	57
		54	59	TP	45				
		55	60		46				
		56	61						

Notes
Known issues (0)
Resources (11)
Feedback

Supported in WebKit Nightly with `-webkit-` prefix.

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Can I use

CSS Grid

? ⚙ Settings

2 results found

#

CSS Grid Layout - CR

Usage

Global

83.56% + 3.09% = 86.66%

unprefixed:

83.56%

% of all users

⌵

Method of using a grid concept to lay out content, providing a mechanism for authors to divide available space for layout into columns and rows using a set of predictable sizing behaviors. Includes support for all **grid-*** properties and the **fr** unit.

Current aligned

Usage relative

Date relative

Show all

IE	Edge *	Firefox	Chrome	Safari	iOS Safari *	Opera Mini *	Chrome for Android	UC Browser for Android	Samsung Internet
			49						
			63						
			66		10.3				
			67		11.2				4
11	17	61	68	11.1	11.4	all	67	11.8	7.2
	18	62	69	12	12				
		63	70	TP					
			71						

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CSS GRID



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