

BE PART OF CSS EVOLUTION

MANUEL REGO CASASNOVAS (@regocas)

W3C Developer Meetup / 22 October 2018 (Lyon)



ABOUT ME

Igalia Web Platform Team

Web engines hacker working on Chromium/Blink and
Safari/WebKit

Member of CSS Working Group since 2017



```
@font-face {  
  font-family: "LeagueGothicRegular";  
  src: url('LeagueGothic-Regular.otf');  
}
```

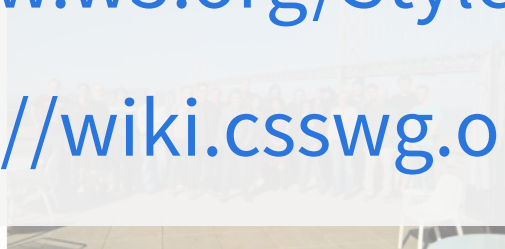
```
#meetup-logo {  
  border: 0;  
  max-width: 140px;  
  float: right;  
  margin-right: 5em;  
  margin-top: 15px;  
}
```

CSS

```
#entete {  
  font: 3em/1.1 "LeagueGothicRegular", sans-serif;  
  letter-spacing: 0.03em;  
  padding-top: 0.5em;  
  color: #164D80;  
  margin-left: 8rem;  
}
```

CSSWG

- Website: <https://www.w3.org/Style/CSS/>
- Wiki: <https://wiki.csswg.org/>



A part of the CSS WG in May 2016.

[More »](#)

THE DISCUSSION

org> mailing list is the place for discussing the further development of CSS. (p also uses that list for most discussions.) Everybody can [subscribe](#) (or [unsubscribe](#).)

SOFTWARE

Nearly all [browsers](#) nowadays support CSS and many [other applications](#) do, too. To write CSS, you don't need more than a text editor, but there are many [tools](#) available that make it even easier.

LEARNING CSS

For beginners, *Starting with HTML + CSS* teaches how to create a style sheet. For an introduction to CSS, try chapter 2 of *Lie & Bos* or Dave Raggett's intro to CSS. For styling XML and CSS tips & tricks.

S Working Group.

about CSS, see the [CSS Home Page](#).

cheduled, see the internal page (member-only)

NO

discusses all technical matters on a public
@w3.org. See "If you want to help

ifications are listed and explained on the
March 2008, the group started using
ions and group members. See also the
version 2016–2019).

a blo

ow what it is like to be a member; read

plete list of members & W3C members
ate in the CSS working group (See
'and the Participation FAQ for information
number.)

Affiliation

Skynav, Inc.
Google, Inc.
W3C Invited Experts
Microsoft Corporation
Google, Inc.
Beyond Perspective Solutions Ltd
Adobe
Mozilla Foundation

Daniel Bates Apple, Inc.
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Aryeh Gregor LG Electronics
Soonho Han Beyond Perspective Solutions Ltd
Shouchi Hanyama Google, Inc.
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Voyager Japan, Inc.
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Intel Corporation
W3C Staff
Philippe Le Hegaret HTML5 Converged Technology
Hyejin Lee Forum
WonSuk Lee Electronics and
telecommunications Research
Institute (ETRI)
MovieLabs
Monotype
China Mobile Communications
Corporation
Tencent
Google, Inc.
W3C Staff
W3C Invited Experts
360 Technology Co., Ltd
Kaplan Publishing
Kaplan Publishing
Google, Inc.
Apple, Inc.
Mozilla Foundation
Google, Inc.
British Broadcasting Corporation
Intel Corporation
W3C Staff
Antenna House, Inc.
Mozilla Foundation
Apple, Inc.
Apple, Inc.
Pearson plc
Google, Inc.
Apple, Inc.
NIC.br - Brazilian Network
Information Center
W3C Invited Experts
Anton Prowse W3C Invited Experts
Antoine Quint Apple, Inc.

Naina Raisinghani Google, Inc.
Matt Rakow Microsoft
Manuel Rego Casanovas Igalia
Francois Remy Microsoft
Melanie Richards Microsoft
Florian Rivoal Experts at
Philip Rogers Google, Inc.
Andrey Rybka Bloomberg
Hiroshi Sakakibara Microsoft
Simon Sapin Mozilla Foundation
Nathalia Sautchuk-Patricio NIC.br - I
Informatic
Dirk Schultze Adobe
Jen Simmons Mozilla Foundation
David Singer Apple, Inc.
Geoffrey Sneddon W3C Invited Experts
Hyojin Song LG Electron
Markus Stange Mozilla Foundation
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Shane Stephens Google, Inc.
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Alan Tumaskey IAB Techn
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Sean Vosen Mozilla Foundation
Ian Vollick Google, Inc.
Philip Walton Google, Inc.
Masaki Watanabe Beyond Perspective
Greg Whitworth Microsoft
Eric Willigers Google, Inc.
Chris Wilson Google, Inc.
yaohua wu China Mobile
Jeff Xu Rakuten, Inc.
Fuqao Xue W3C Staff
Kazutaka Yamamoto Nippon Te
Corp. (NT
Steve Zilles Adobe
文力何 360 Techn
佳安 360 Techn

MEMBERS

- W3C Member Organizations
- W3C Staff
- W3C Invited Experts

Today 129 people

CSS Grid Layout Module Level 1

Editor's Draft, 9 October 2018

► Specification Metadata

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SPECS

- Specs: <https://www.w3.org/Style/CSS/current-work>
- Editor Drafts: <https://drafts.csswg.org/>

W3C Stages: FPWD WD CR PR REC SPSP NOTE

Status of this document

This is a public copy of the editors' draft. It is provided for discussion only and may change at any time. Publication here does not imply endorsement of its contents by W3C. Don't cite this as a standard or in progress.

MEETINGS

- **1 hour confcall** per week (~20-30 people)
- **3-4 face-to-face meetings** per year (~30-50 people)

Minutes and log (scribe) published at www-style

COMMUNICATION

- Mailing list `www-style`:
<https://lists.w3.org/Archives/Public/www-style/>
- GitHub: <https://github.com/w3c/csswg-drafts/>
- IRC: [#css](https://irc.w3.org:6665) on `irc.w3.org:6665`
- Twitter: <https://twitter.com/csswg>

HOW IT WORKS

- [about:csswg - An Inside View of the CSS Working Group at W3C](#) by *fantasai* on 2011
- [The Friction of Web Standards](#) by *Eric Meyer* at CSS Day 2018



CSS



CONTRIBUTING TO CSS

FEEDBACK

- GitHub issues
- Blog posts/Articles
- Tweets
- *Deprecated*: Mails to `www-style` (end up as GitHub issues nowadays)

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](#).

HOW SHOULD WE RESOLVE PERCENTAGE MARGINS AND PADDING ON GRID AND FLEX ITEMS?

By [Rachel Andrew](#) [December 20, 2017](#) ([Permalink](#))
Categories: [Feedback](#)

The CSS Working Group would like your opinion. There is a longstanding issue in both the CSS Grid Layout and Flexbox specifications.

From the [CSS Grid specification](#):

Percentage margins and paddings on grid items can be resolved against either:

- their own axis (left/right percentages resolve against width, top/bottom resolve against height), or,
- the inline axis (left/right/top/bottom percentages all resolve against width)

A User Agent must choose one of these two behaviors.

Note: This variance sucks, but it accurately captures the current state of the world (no consensus among implementations, and no consensus within the CSSWG). It is the CSSWG's intention that browsers will

converge on one of the behaviors, at which time the spec will be amended to require that.

Authors should avoid using percentages in paddings or margins on grid items entirely, as they will get different behavior in different browsers.

The flexbox specification [has the same wording](#).

What is the problem here?

A percentage has to be resolved against something. If you give a grid item a margin-right of 10%, you would probably expect that 10% to be calculated as 10% of the width of the grid area. What happens however if you give the item a margin-bottom of 50%? Do you expect it to resolve to 50% of the total height of the grid area *or* do you expect it to calculate 50% from the width? The spec allows for both, and browser implementations are split.

You can see the problem in this [very simple CodePen](#). We have three column tracks which are each 120 pixels in width. The margin-right applied to each track resolves to 12 pixels, 10% of 120.

In Chrome and Safari the margin-bottom resolves to 60 pixels. 50% of the width of 120 pixels is 60 pixels.

In Firefox and Edge the margin-bottom uses the **height** of the grid area and so in this case resolves to 150 pixels as I have put a height on the grid and items are stretching.

If you remove the height on the grid container you will see how Firefox now completely collapses the container as there is now no height to resolve against. Chrome will keep the container at 60 pixels – that being the margin.

We see the same variance in [Flexbox](#), however in Flexbox we resolve against the flex container as the containing block. However you can see in the below example how Chrome uses 10% of 500 pixels for the margin-

right, and 50% of 500 pixels for margin-bottom. Firefox uses 10% of 500 pixels for margin-right and 50% of 300 pixels for margin-bottom.

The fact that percentages resolve from the width is essentially a throwback to the old days of layout on the web where we didn't have great control over the height of things. The width was the measurement we could control and so became the dominant measurement.

The ‘aspect ratio hack’

One reason to follow the Chrome behaviour here is that it allows the percentage-based padding “aspect ratio hack” to work on flex and grid items. There is an excellent write-up of the interoperability issue on [Bram.us](#) – [Vertical margins/paddings and Flexbox](#), a [quirky combination](#), the issue is also detailed on [Flexbugs](#) and [Gridbugs](#).

However, perhaps a better solution is to properly solve the aspect ratio issue, while also deciding on one solution for margins and padding in general.

We want your feedback!

The CSS Working Group would love to know your thoughts on this issue. As you can see above this is not an issue when using horizontal percentage margins and padding, this continues to work as it always has done. The issue is with vertical margins and padding. Would you prefer the Chrome behaviour, of the Firefox one? Other than the aspect ratio padding hack, are you using vertical margins and padding for any other reason?

You can comment directly [on the GitHub issue](#) with thoughts and use cases. It would be great to get this particular interoperability problem solved.

[Cross-posted to \[rachelandrew.co.uk\]\(https://rachelandrew.co.uk\)](#).

[« Previous article](#)

[Next article »](#)



Martijn Cuppens

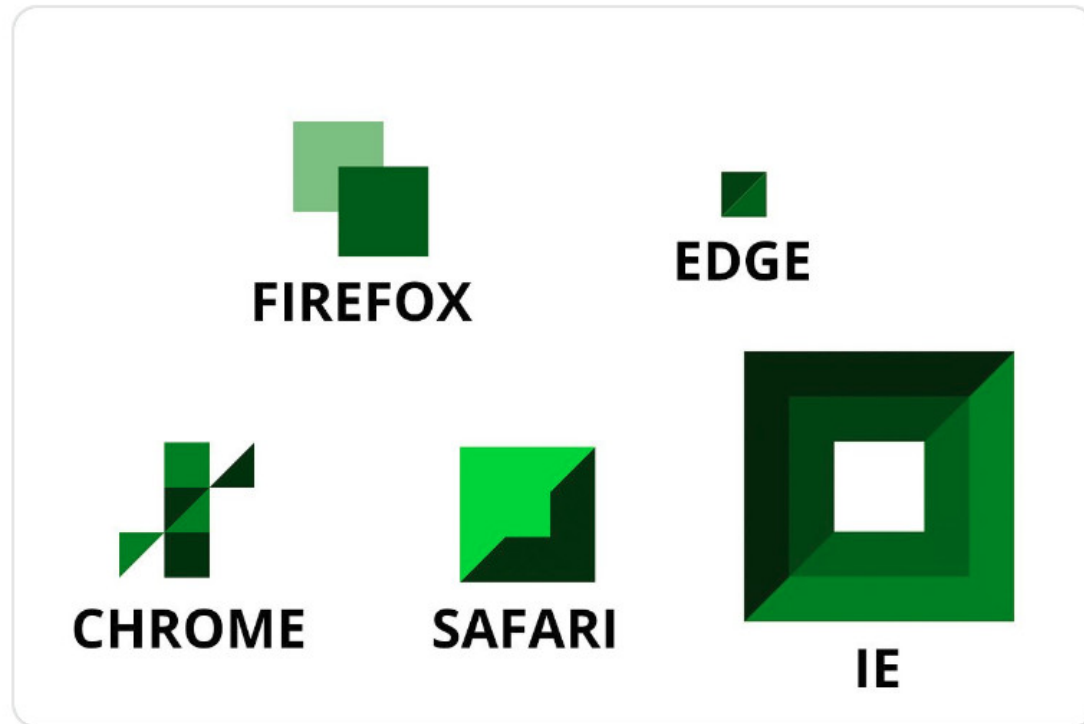
@Martijn_Cuppens

Seguir



The div that looks different in every browser [codepen.io/MartijnCuppens...](https://codepen.io/MartijnCuppens)

Traducir Tweet



11:45 - 6 jul. 2018

4.684 Retweets 8.873 Me gusta



180



4,7K



8,9K



[css-ui][css-background] should clarify outline drawing behavior for boxes with negative sizes #2892

[Edit](#)[New issue](#)

[Open](#) dbaron opened this issue on 7 Jul · 4 comments



dbaron commented on 7 Jul

Member

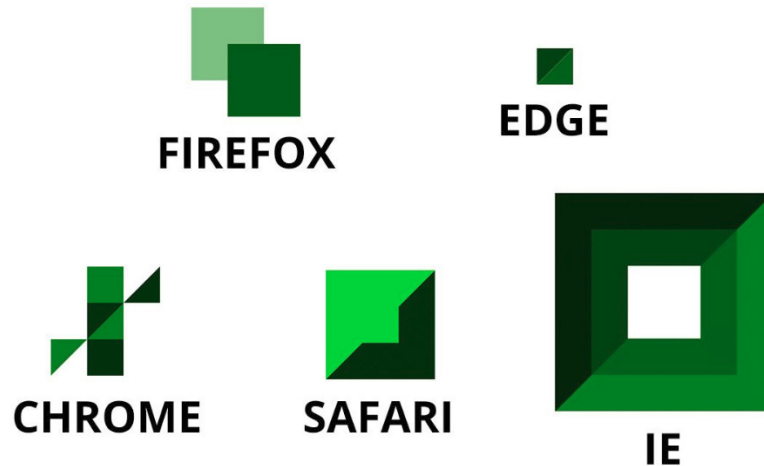


https://twitter.com/Martijn_Cuppens/status/1015169981368225793 points out lack of interoperability with the following style:

```
div {  
  margin: auto;  
  width: 100px;  
  height: 100px;  
  outline: inset 100px green;  
  outline-offset: -125px;  
}
```

This is creating a 100px×100px box, and then offsetting its outline by -125px, which creates an outline whose inner edge is a box that's a -150px×-150px rectangle and whose outer edge is a 50px×50px rectangle.

Quoting the tweet's image:



The behavior of this case (outlines drawn over a rectangle that has negative sizes) should probably be better defined so that browsers can become more interoperable here.



4



9

Assignees



No one—assign yourself

Labels



css-backgrounds-3

css-ui-4

Projects



None yet

Milestone



No milestone

Notifications

Unsubscribe

You're receiving notifications because you're watching this repository.

3 participants



Lock conversation



CSS Working Group 

@csswg

Siguiendo



We need a name for a shorthand for the top/left/bottom/right properties. Ideas?

 Traducir Tweet

8:25 - 21 abr. 2017

36 Retweets 50 Me gusta



 83

 36

 50





Lea Verou

@LeaVerou

Siguiendo



Help influence CSS!

We (@CSSWG) are adding a new pseudo-class to set the specificity of selector parts to 0.

See drafts.csswg.org/selectors-4/#z...

We need your help deciding between these 2 names!

Think of both isolated selectors like :foo(#id), and ones like tag > .class:foo(#id2, #id3)

Traducir Tweet

39% :if()

61% :where()

1,121 votos • Resultados finales

9:05 - 5 jul. 2018 desde Sydney, New South Wales

83 Retweets 89 Me gusta



32



83



89





Jen Simmons

@jensimmons

Siguiendo



The CSS that let's you enlarge the first letter or handful of letters in a paragraph (to make a drop cap or raised cap)... it's been called `initial-letter`, now changed to `initial-letters` — what else could we call it? Don't want to use drop-cap. Needs to work for all languages.

 Traducir Tweet

18:23 - 25 jul. 2018

10 Retweets 43 Me gusta



30



10



43



/ **csswg-drafts**

👁 Unwatch ▾

270

★ Star

1,169

🍴 Fork

🔔 Issues 1,146

🔗 Pull requests 22

📁 Projects 4

📊 Insights

Working Group Editor Drafts <https://drafts.csswg.org/>

21,843 commits

🌿 2 branches

📦 4 releases

👤 140 contributors

📄 View license

- Repository: <https://github.com/w3c/csswg-drafts/>
- Issues: <https://github.com/w3c/csswg-drafts/issues>
- PRs: <https://github.com/w3c/csswg-drafts/pulls>

GOOD GITHUB ISSUE

- Look for **similar issues** (opened and closed)
- **Tag** (`[css-grid]`, `[css-text]`, etc.) and **link** the spec accordingly
- **Describe issue** clearly including **use case** for motivation
- Provide **reduced test case**



REFERENCES

- [Becoming Responsible for CSS](#) by *Alan Stearns* at dotCSS 2015



WPT

WEB PLATFORM TESTS (WPT)

- Website: <https://web-platform-tests.org/>
- Repository: <https://github.com/web-platform-tests/wpt>
- Browse: <http://w3c-test.org/>

wpt.fyi is a work in progress. The reported results do not necessarily reflect the true capabilities of each web browser, so they should not be used evaluate or compare feature support.

Test Results





Interoperability

[wpt](#) / [css](#)

Search test files, like 'css' or 'align-self'

WPT DASHBOARD

- Stable: <https://wpt.fyi/>
- Experimental: <https://wpt.fyi/results/?label=experimental>

| |  Chrome 69 Linux 18.04 @99e577f57c |  Edge 17 Windows 10 @99e577f57c |  Firefox 62 Linux 18.04 @99e577f57c |  Safari 12.0 macOS 10.13 @99e577f57c |
|---------------------|---|--|--|---|
| | Time 69 | Time 17 | Time 62 | Time 12.0 |
| | Linux 18.04 | Windows 10 | Linux 18.04 | macOS 10.13 |
| | @99e577f57c | @99e577f57c | @99e577f57c | @99e577f57c |
| | Oct 16 2018 | Oct 16 2018 | Oct 16 2018 | Oct 16 2018 |
| CSS2/ | 3173 / 6583 | 3802 / 6583 | 6304 / 6589 | 5515 / 6589 |
| WOFF2/ | 291 / 298 | 270 / 298 | 292 / 298 | 288 / 298 |
| color/ | 78 / 108 | 1 / 49 | 84 / 108 | 93 / 108 |
| css-align/ | 2276 / 2276 | 2 / 73 | 2060 / 2276 | 2276 / 2276 |
| css-animations/ | 231 / 446 | 1 / 47 | 254 / 446 | 242 / 446 |
| css-backgrounds/ | 616 / 783 | 182 / 428 | 729 / 783 | 590 / 783 |
| css-box/ | 202 / 208 | 0 / 24 | 184 / 208 | 202 / 208 |
| css-break/ | 40 / 54 | 2 / 6 | 40 / 54 | 40 / 54 |
| css-cascade/ | 304 / 306 | 3 / 11 | 305 / 306 | 365 / 370 |
| css-color/ | 4795 / 4834 | 71 / 132 | 4797 / 4834 | 2746 / 4834 |
| css-conditional/ | 105 / 108 | 41 / 44 | 107 / 108 | 85 / 108 |
| css-contain/ | 98 / 140 | 54 / 138 | 75 / 140 | 42 / 140 |
| css-content/ | 6 / 6 | 4 / 6 | 4 / 6 | 6 / 6 |
| css-counter-styles/ | 4 / 37 | 1 / 2 | 23 / 37 | 4 / 37 |
| css-device-adapt/ | 3 / 17 | 0 / 1 | 3 / 17 | 3 / 17 |

TESTS

- `testharness.js`
- Reference tests (**Ahem font**)
- `testdriver.js`

REPORT BROWSER BUG

- Chromium: <https://bugs.chromium.org/>
- Firefox: <https://bugzilla.mozilla.org/>
- Safari: <https://bugs.webkit.org/>
- Edge: <https://developer.microsoft.com/microsoft-edge/platform/issues/>

Web Compatibililty: <https://webcompat.com/>

[Let's chat](#)

THANKS

- Twitter: [@regocas](#)
- Mail: rego@igalia.com
- Blog:
<https://blogs.igalia.com/mrego/>