

Cn a n o

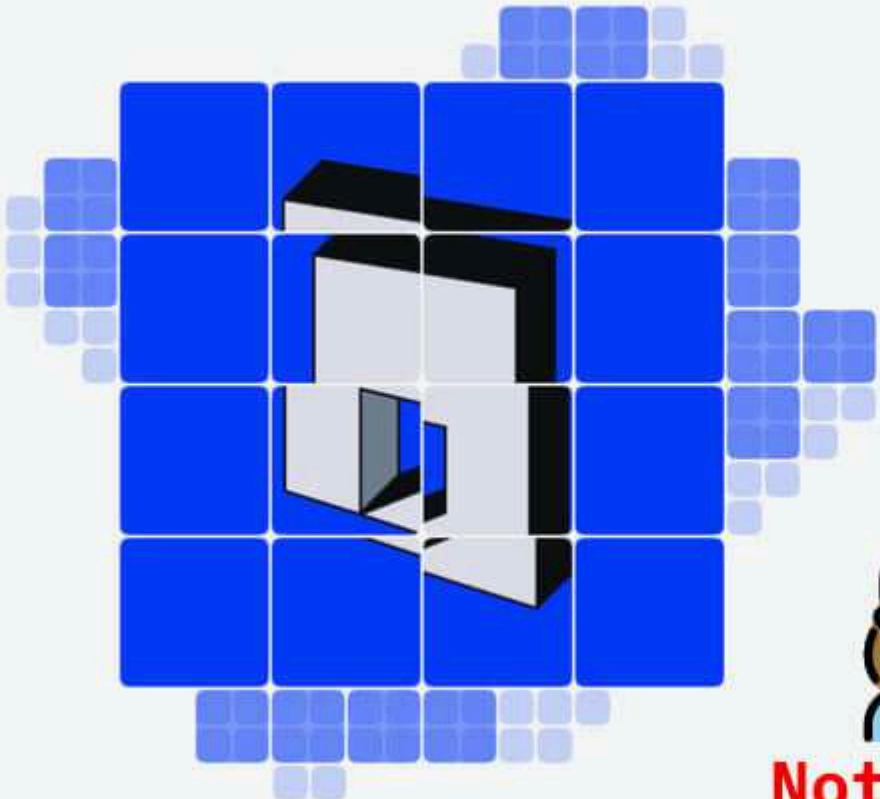
By [Chen Hui Jing](#) / [@hj_chen](#)



Interledger

FOUNDATION

<https://interledger.org>



State of Frontend 2024 survey

SOFE 2022 collected opinions from nearly **4000 frontend professionals**. We can surely do even more this year.

It will take **less than 10 minutes** to fill in, but your input will be instrumental in creating a **free report**, informing industry trends, and influencing decision-making.

We appreciate your engagement!

[Start my survey now](#) press Enter ↵



Not by us



STATE OF ORIGIN

LIVE & LOUD AT THE DUKE

GAME 1: Wed 5th June

GAME 3: Wed 17th July



Not by us



<https://www.devographics.com>



Alexey
Pyltsyn



Chris
Kirk-
Nielsen



Eric Burel



Kilian
Valkhof



Philip
Jägenstedt



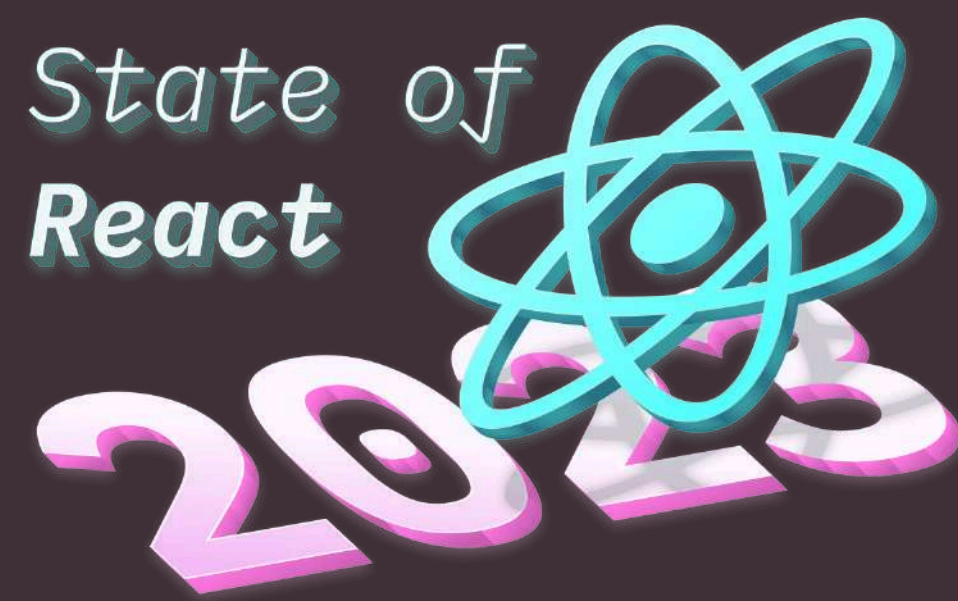
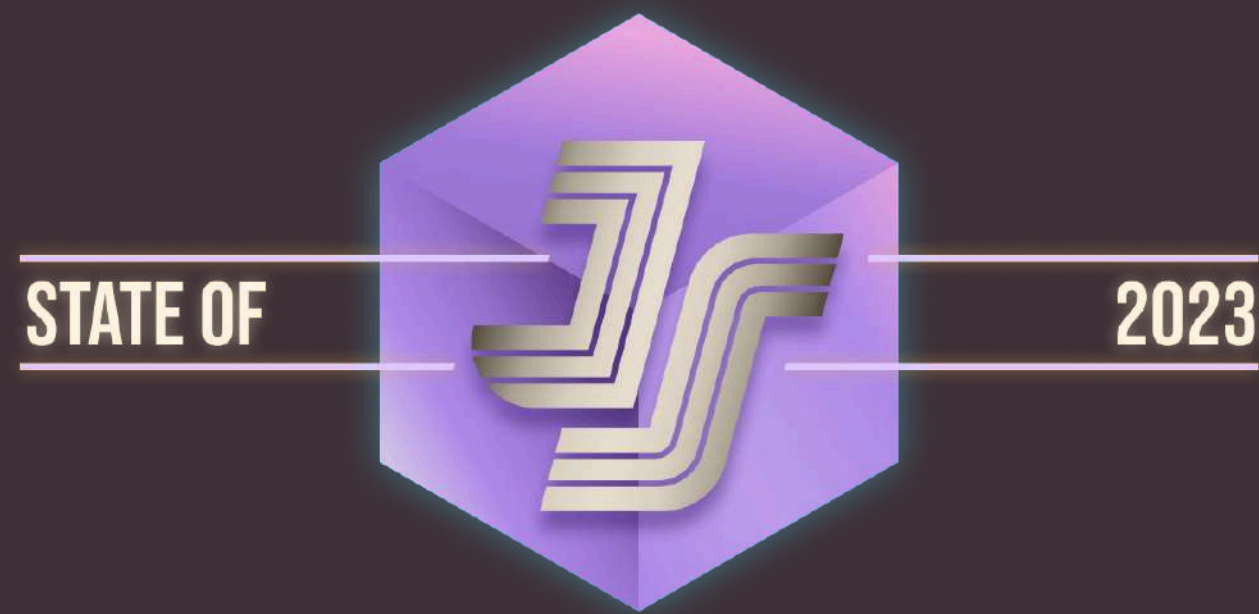
Raphaël
Benitte



Sacha
Greif



Sarah
Fossheim



×

Customize "Subgrid"

[Documentation](#)

Side-by-Side

Using a combination of demographics filters, you can define up to four **custom data series** to dynamically load and compare them with the default data for this question.

Presets:

Gender

Low vs High Salary

Low vs High Experience

☒ Show default series

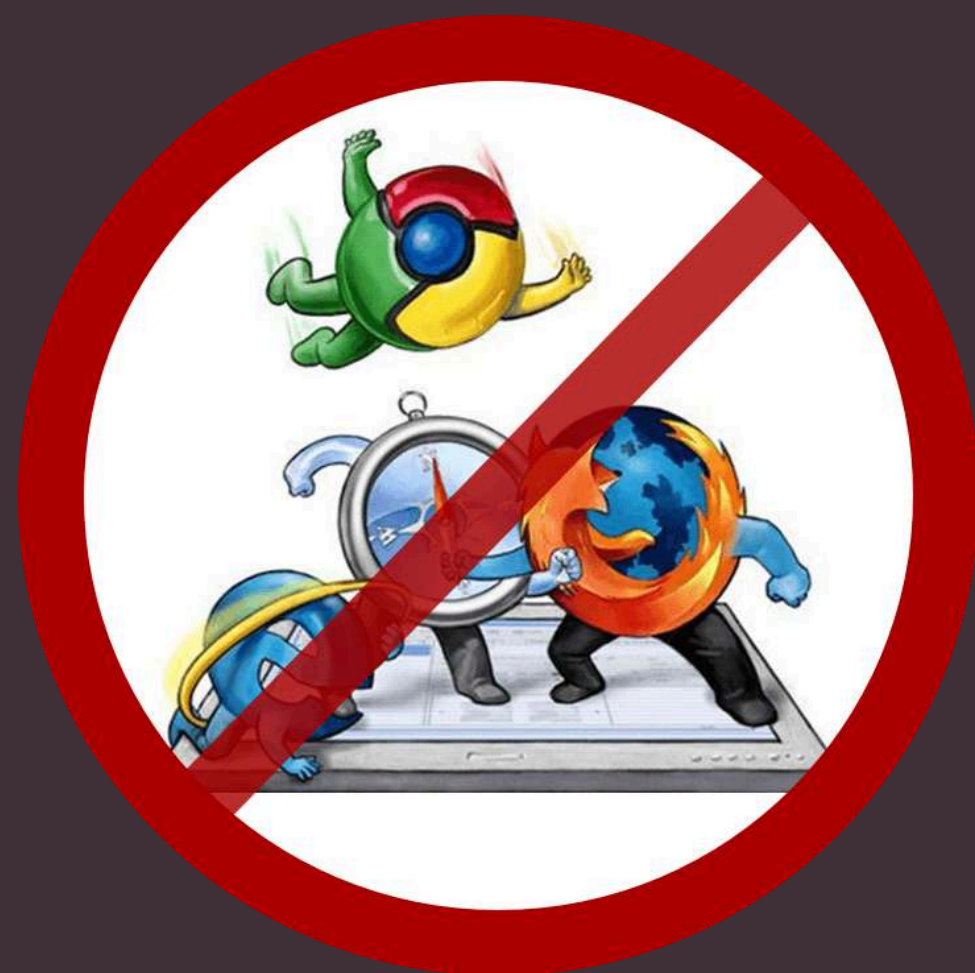
Add Series...

[GraphQL Query](#) [JSON Data](#) [Copy link to filters](#) [Get filters code](#)

Update Chart

Join us on [Discord](#).

Check out the code on [GitHub](#).



Interop 2024 Dashboard

STABLE EXPERIMENTAL

74

INTEROP

5

INVESTIGATIONS

89



Chrome
Canary

89



Edge
Dev

87



Firefox
Nightly

88



Safari
Technology
Preview

Interop 2024 is a cross-browser effort to improve the interoperability of the web — to reach a state where each technology works exactly the same in every browser.

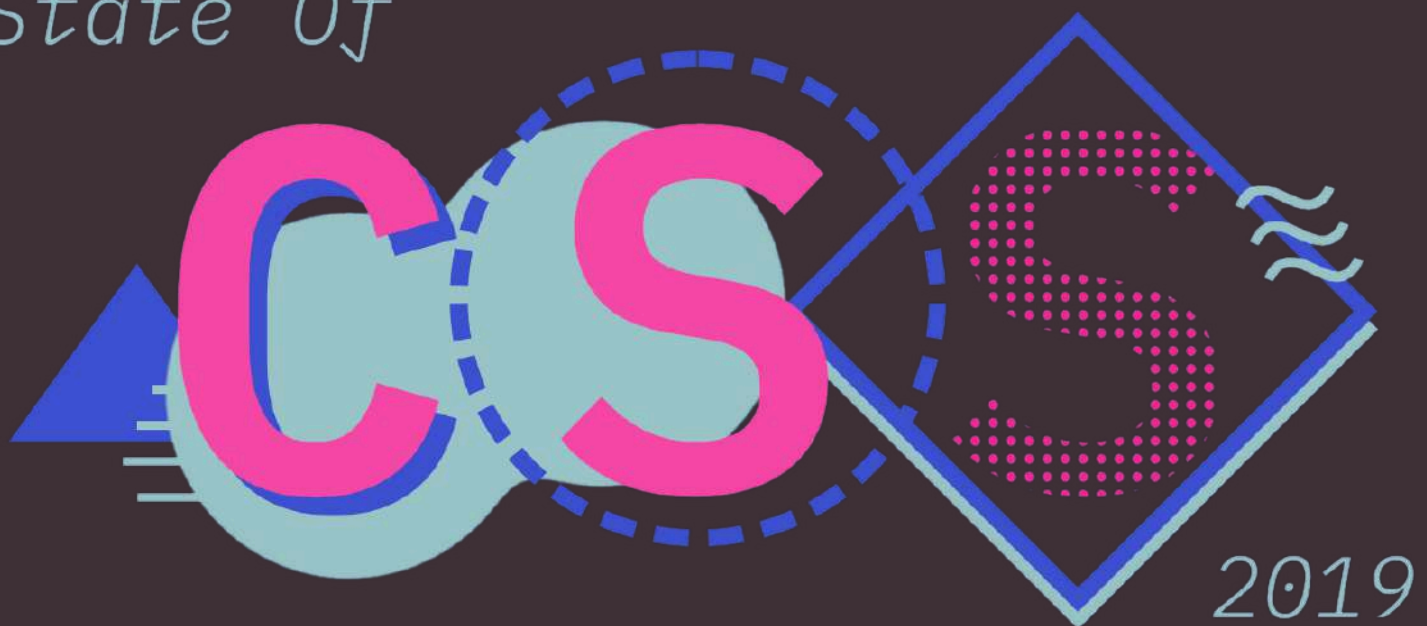
<https://wpt.fyi/interop-2024>



Baseline

<https://web.dev/baseline>

State of



State of



STATE OF



STATE OF



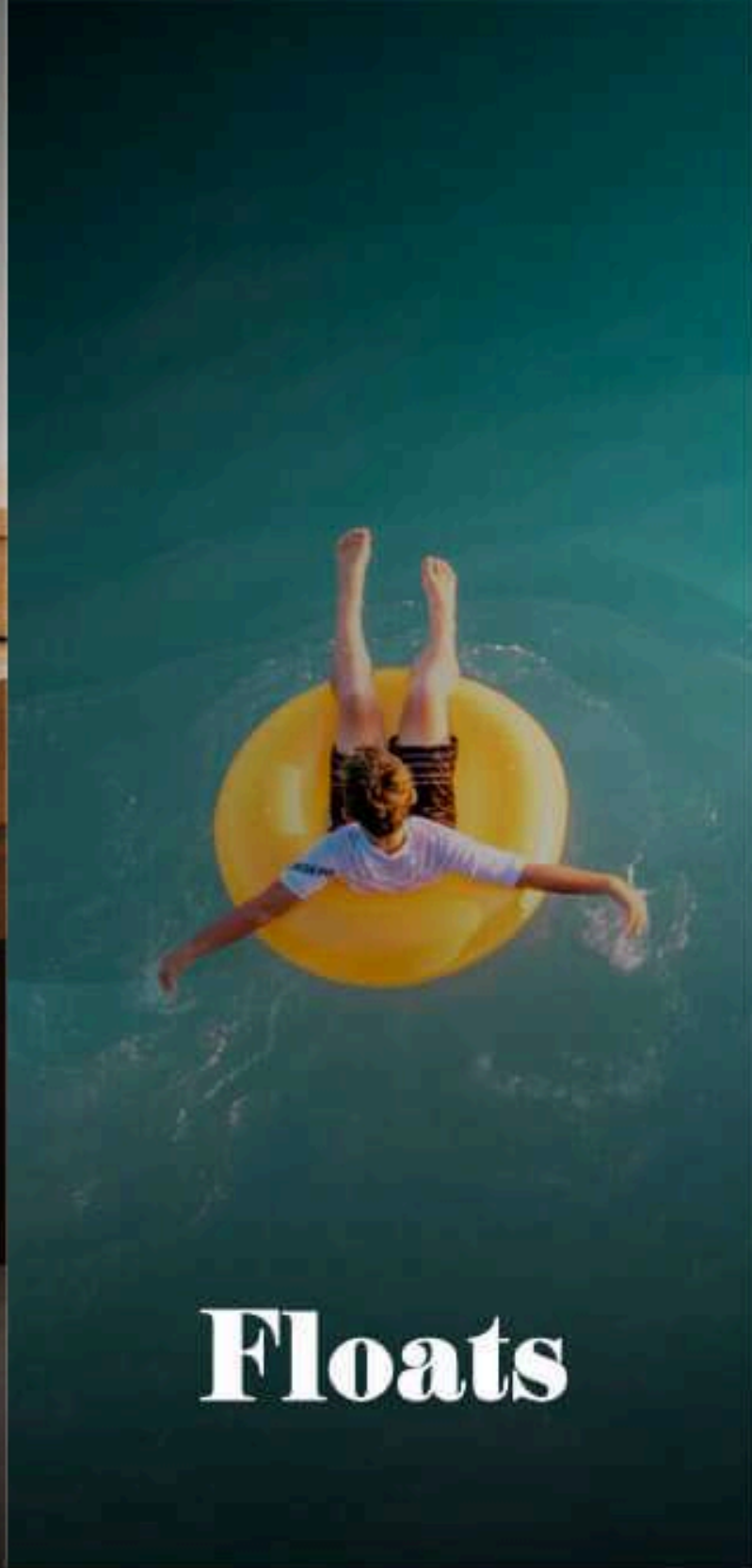
STATE OF



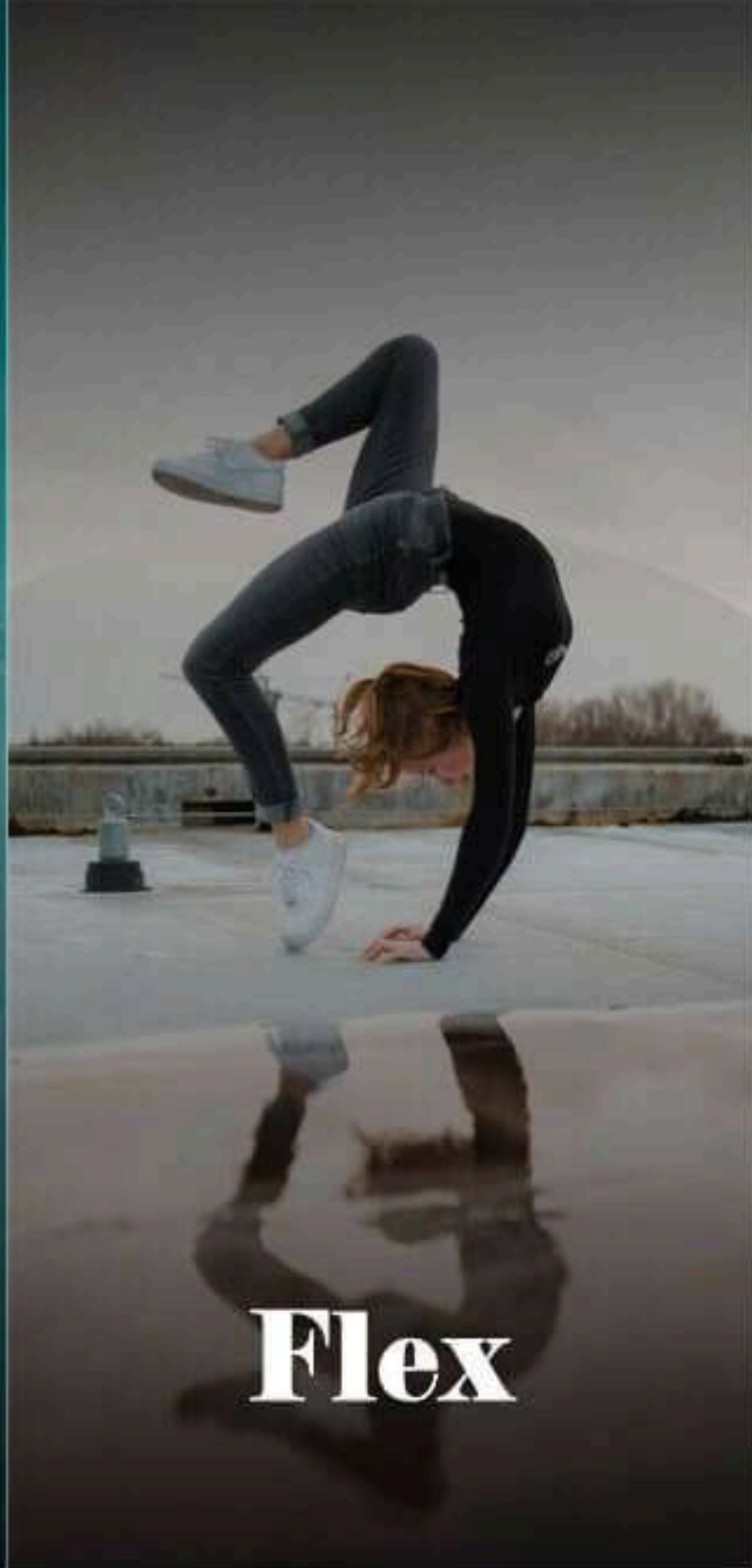
Nothing



Tables



Floats



Flex



Grid

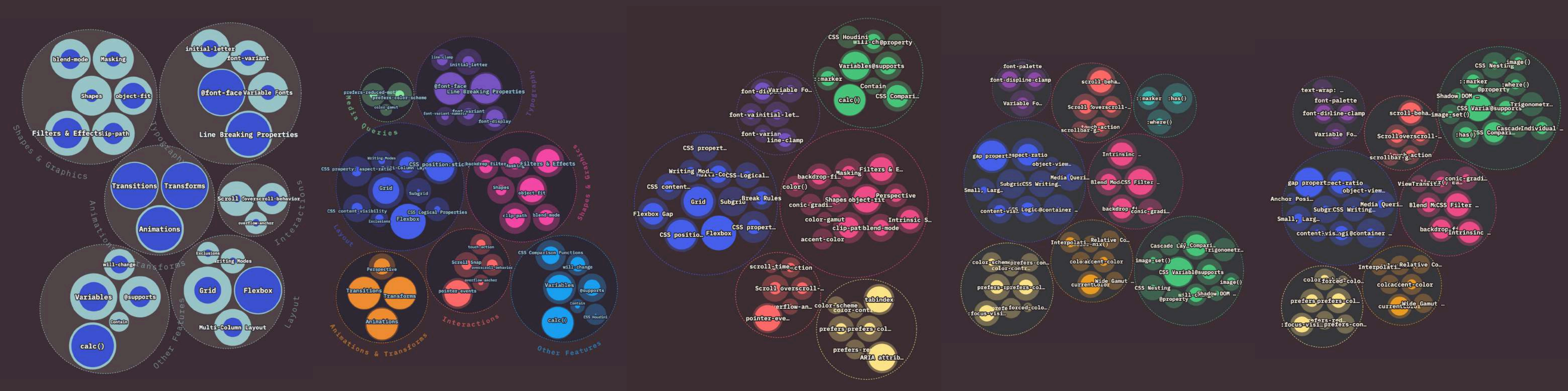
THE CSS ERAS

✓	word-break	CSS Text Module Level 4	WD
✓	word-space-transform	CSS Text Module Level 4	WD
✓	word-spacing	CSS 2.1	REC
✓	word-spacing	CSS Text Module Level 3	CRD
✓	word-spacing	CSS Text Module Level 4	WD
✓	word-wrap	CSS Text Module Level 3	CRD
✓	word-wrap	CSS Text Module Level 4	WD
✓	wrap-after	CSS Text Module Level 4	WD
✓	wrap-before	CSS Text Module Level 4	WD
✓	wrap-flow	CSS Exclusions Module Level 1	WD
✓	wrap-inside	CSS Text Module Level 4	WD
✓	wrap-through	CSS Exclusions Module Level 1	WD
✓	writing-mode	CSS Writing Modes Level 4	CR
✓	writing-mode	CSS Writing Modes Level 3	REC
✓	z-index	CSS 2.1	REC

589 distinct property names from 81 technical reports and 83 editors' drafts.

COLOR KEY

Abbreviation	Full name
ED	Editors' Draft (not a W3C Technical Report)
FPWD	First Public Working Draft
WD	Working Draft
CR	Candidate Recommendation
CRD	Candidate Recommendation Draft
PR	Proposed Recommendation
REC	Recommendation
NOTE	Working Group Note

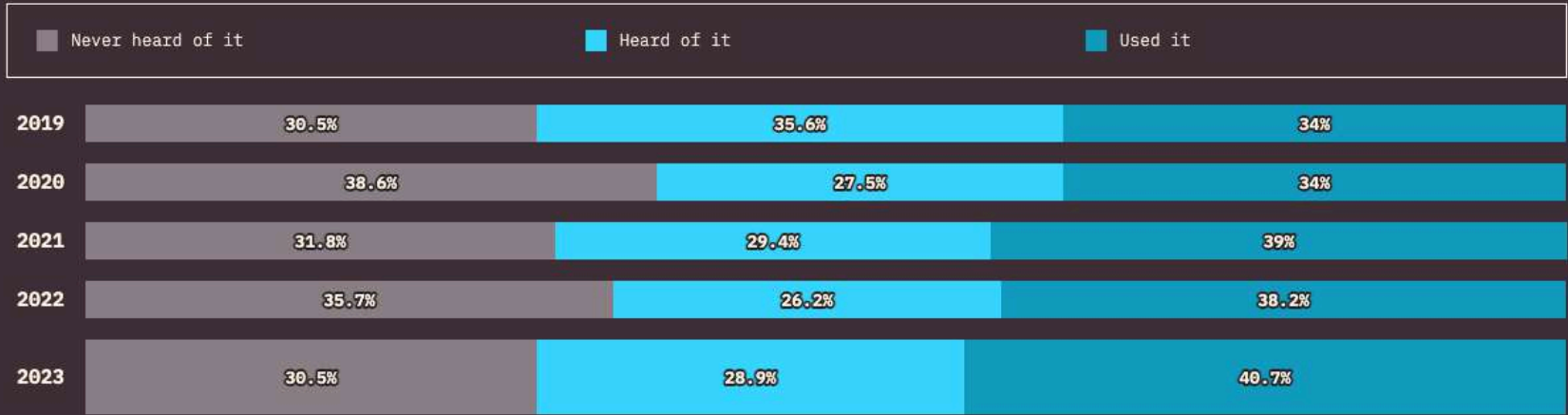


BLEND MODES

CanIUseMDN

[en-US][ERR] chart_units.respondents

% of survey respondents% of question respondentsCount



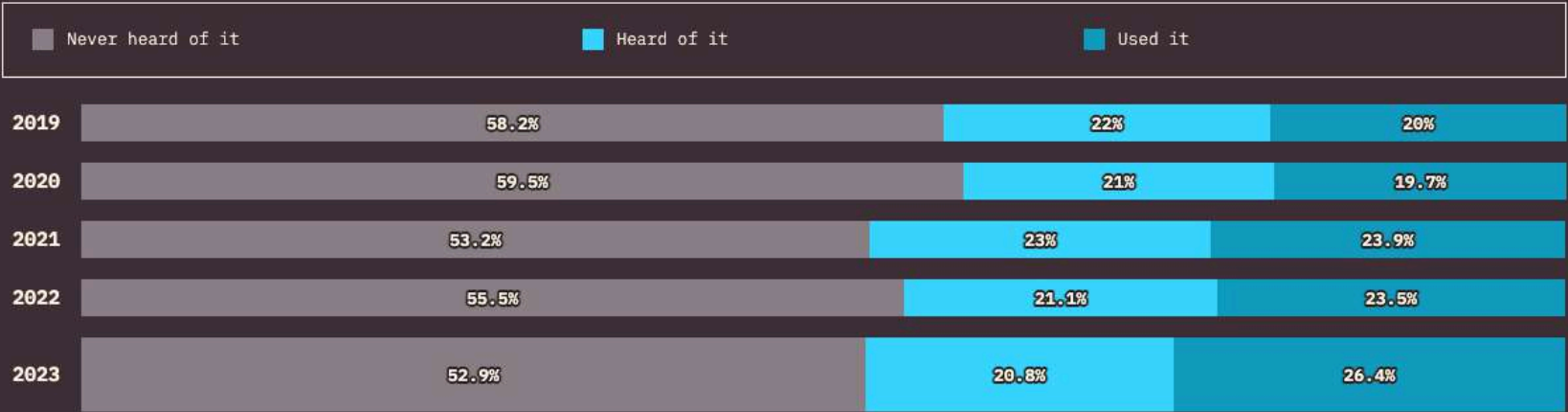
Customize Chart...

OVERSCROLL-BEHAVIOR

CanIUseMDN

[en-US][ERR] chart_units.respondents

% of survey respondents% of question respondentsCount



Customize Chart...

CONTENT-VISIBILITY

CanIUse

MDN

[en-US][ERR] chart_units.respondents

% of survey respondents

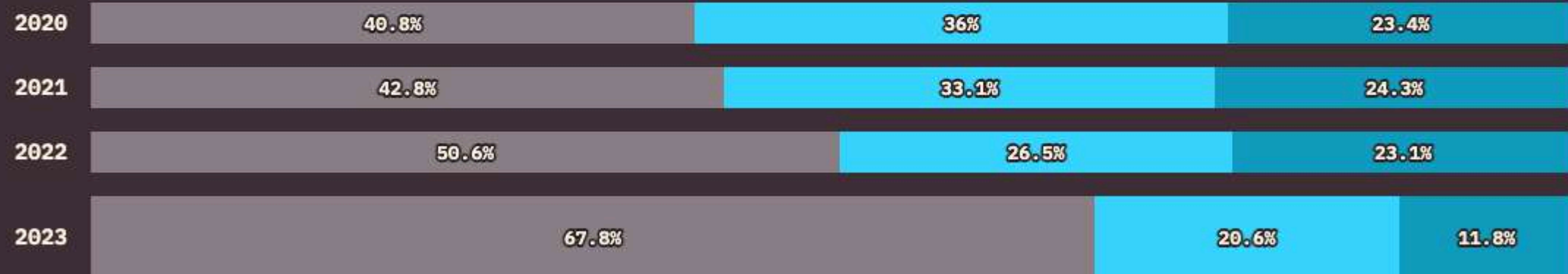
% of question respondents

Count

Never heard of it

Heard of it

Used it



Customize Chart...



! Caution: The browser is only able to skip rendering work if you are also careful not to call any DOM API that forces some of rendering to occur on one of the skipped subtrees. If you're using content-visibility to improve performance, audit your code to make sure these APIs are not getting called.

–content-visibility: the new CSS property that boosts your rendering performance

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	Appendix A. Changes
	Changes from 2020-12-16 Working Draft
	Changes from 2020-06-03 Working Draft
	Changes from 2019-11-11 Working Draft
	Changes from CSS Containment Level 1

CSS Containment Module Level 2

W3C Working Draft, 17 September 2022



▼ More details about this document

This version:

<https://www.w3.org/TR/2022/WD-css-contain-2-20220917/>

Latest published version:

<https://www.w3.org/TR/css-contain-2/>

Editor's Draft:

<https://drafts.csswg.org/css-contain-2/>

Previous Versions:

<https://www.w3.org/TR/2020/WD-css-contain-2-20201216/>

<https://www.w3.org/TR/2020/WD-css-contain-2-20200603/>

<https://www.w3.org/TR/2019/WD-css-contain-2-20191111/>

<https://www.w3.org/TR/2019/WD-css-contain-2-20191015/>

History:

<https://www.w3.org/standards/history/css-contain-2>

Test Suites:

https://test.csswg.org/harness/results/css-contain-1_dev/

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

Feedback:

[CSSWG Issues Repository](#)

Editors:

[Tab Atkins](#) (Google)

[Florian Rivoal](#) (On behalf of Bloomberg)

[Vladimir Levin](#) (Google)

Suggest an Edit for this Spec:

[GitHub Editor](#)

@CONTAINER QUERIES

Including size and style queries

CanIUse

MDN

% of survey respondents

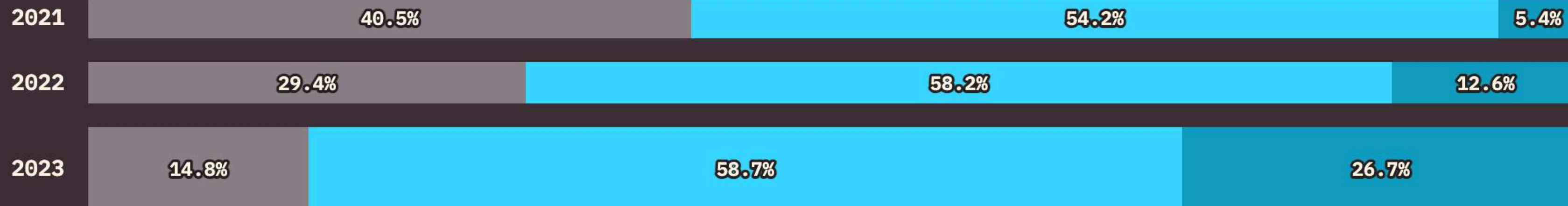
% of question respondents

Count

Never heard of it

Heard of it

Used it



Add Filters...

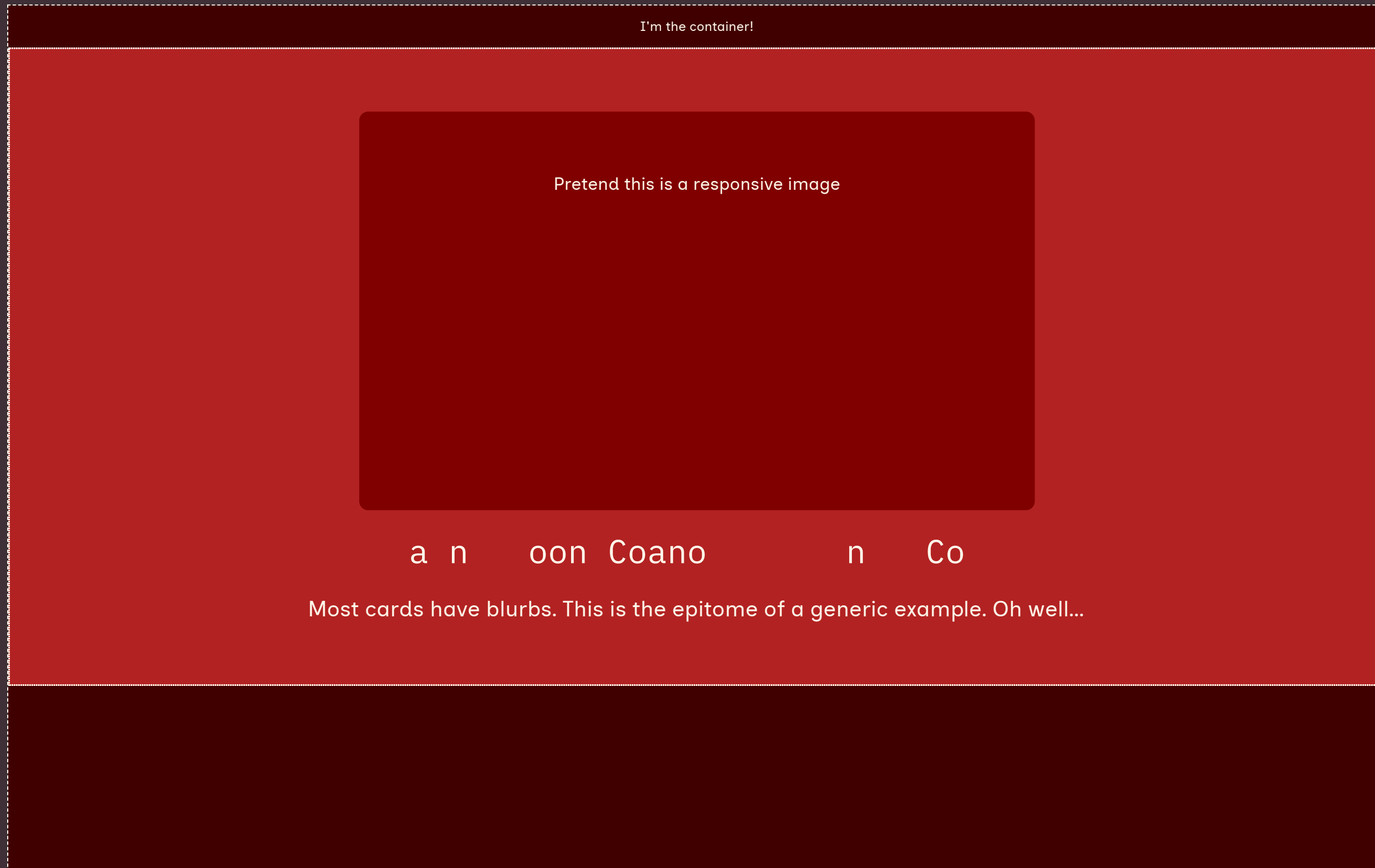


CSS
IS
AWESOME

```
contain: inline-size
```

Proposed in [Thoughts on an implementable path forward for Container Queries](#)

0 Otszamsfw Afwnfy mKf



```
.contained {
  container-type: inline-size;
  background-color: lch(from maroon 1% c h)
}

.card {
  background-color: forestgreen;
}

.card__img {
  background-color: darkgreen;
  margin-block-end: 2cqh;
  aspect-ratio: 2 / 1;
}

@container (min-width: 20em) {
  .card {
    display: flex;
    flex-wrap: wrap;
    gap: 1em;
    align-items: center;
  }

  .card__img {
    height: 20cqmax;
  }
}
```


0tpAw ms 0



currentColor

```
<button type="button" class="theme">
  <svg height="64" width="64" viewBox="0 0 74 70"><path fill="currentColor" d="M6.184 27.715c.563.258 1.168.473 1.836.672
1.027.305 2.352.785 3.422.785-.445 0 .324 6.328.41 6.91.727 5.024 3.063 9.239 5.461 13.621 1.172 2.14 3.059 3.828 3.89
6.14.239.641 1.329 7.04.712 7.173-2.641.531-3.801 2.941-2.36 5.27 1.14 1.859 5.2 1.671 6.68.507 2.648-2.059 3.512-6.45 4.36-
9.469.35-1.258.542-2.554.89-3.816.797-2.883 1.887-2.985 4.797-2.91 2.96.078 5.969-.157 8.492 1.734 1.211.922 1.988 2.188 2.488
2.61 2.11 6.01 1.38 5.260.86 5.558 7.82 42 1.72 870 2.26 1.521 2.427 2.54 4.172 5.20 6.62 4.68 2.448 84 4.580 4.252 5.62 7.22
```



Tumbleweed



Tumbleweed



Tumbleweed



Tumbleweed

```
.currentcolor .theme1 { color: salmon }

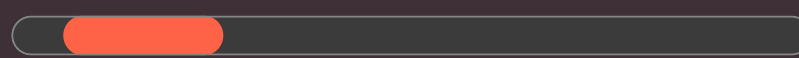
.currentcolor .theme2 { color: papayawhip }

.currentcolor .theme3 { color: limegreen }

.currentcolor .theme4 { color: goldenrod }
```

Icon by [DaeSung LEE](#)

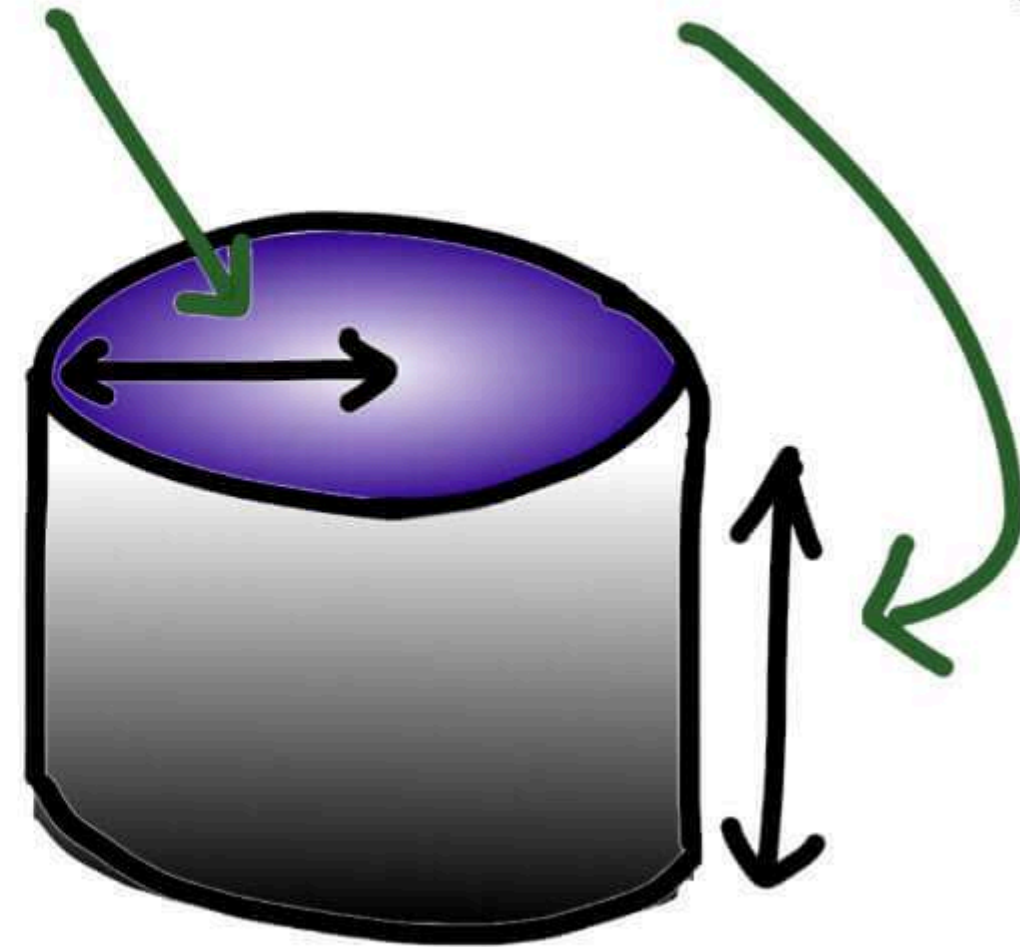
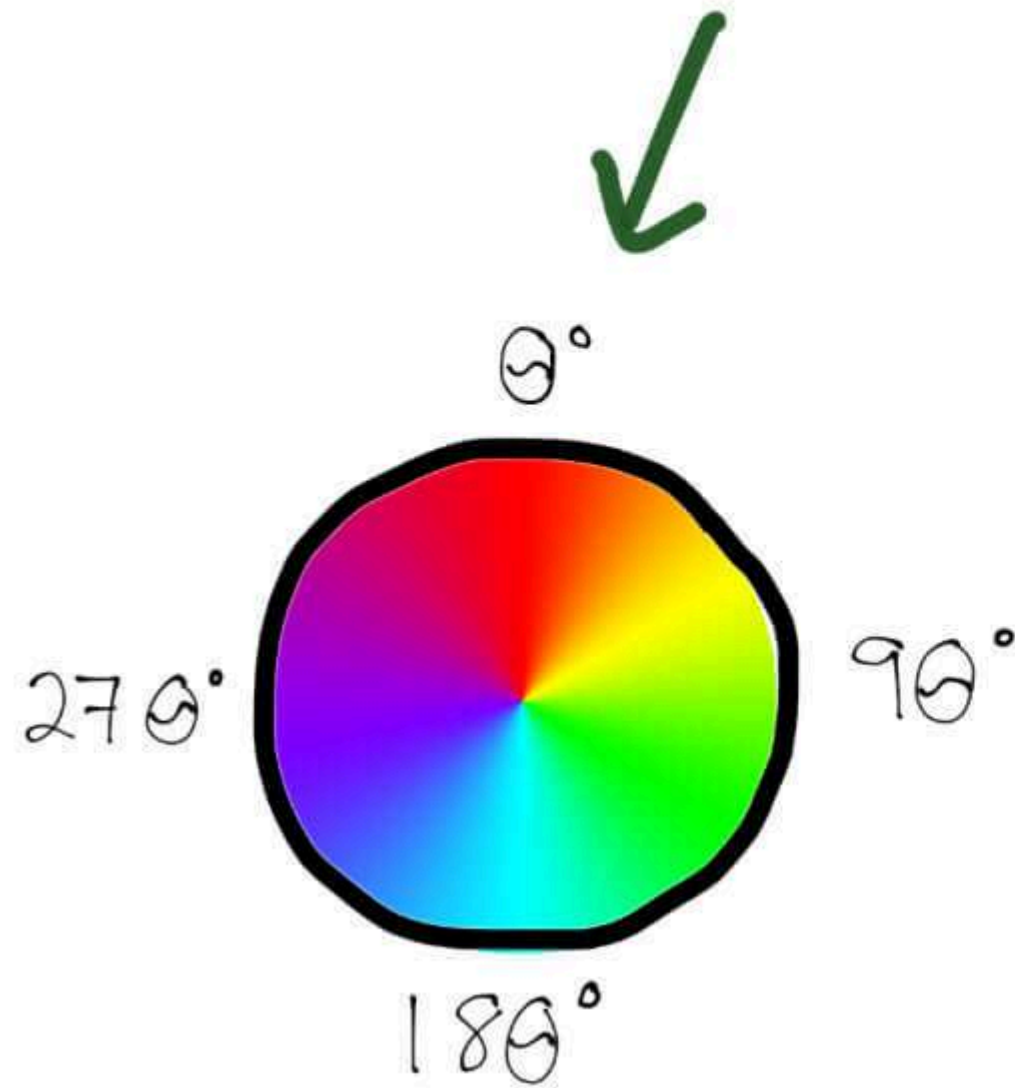
accent-color



```
.accent-color {  
  --accent-color: tomato  
}  
.accent-color input {  
  accent-color: var(--accent-color)  
}  
  
.accent-color progress {  
  accent-color: var(--accent-color)  
}
```

T dtptAw

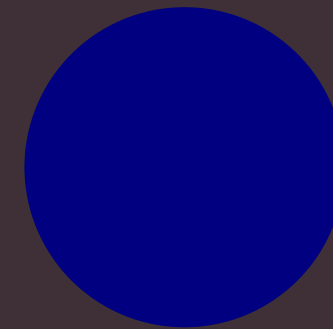
hsl(259, 27.9%, 28.8%)



T dtptAw



hsl(60 100% 25%)



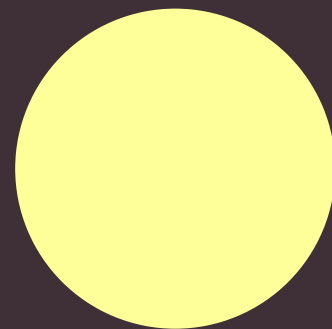
hsl(240 100% 25%)



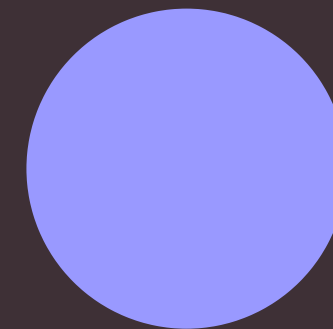
hsl(60 100% 50%)



hsl(240 100% 50%)

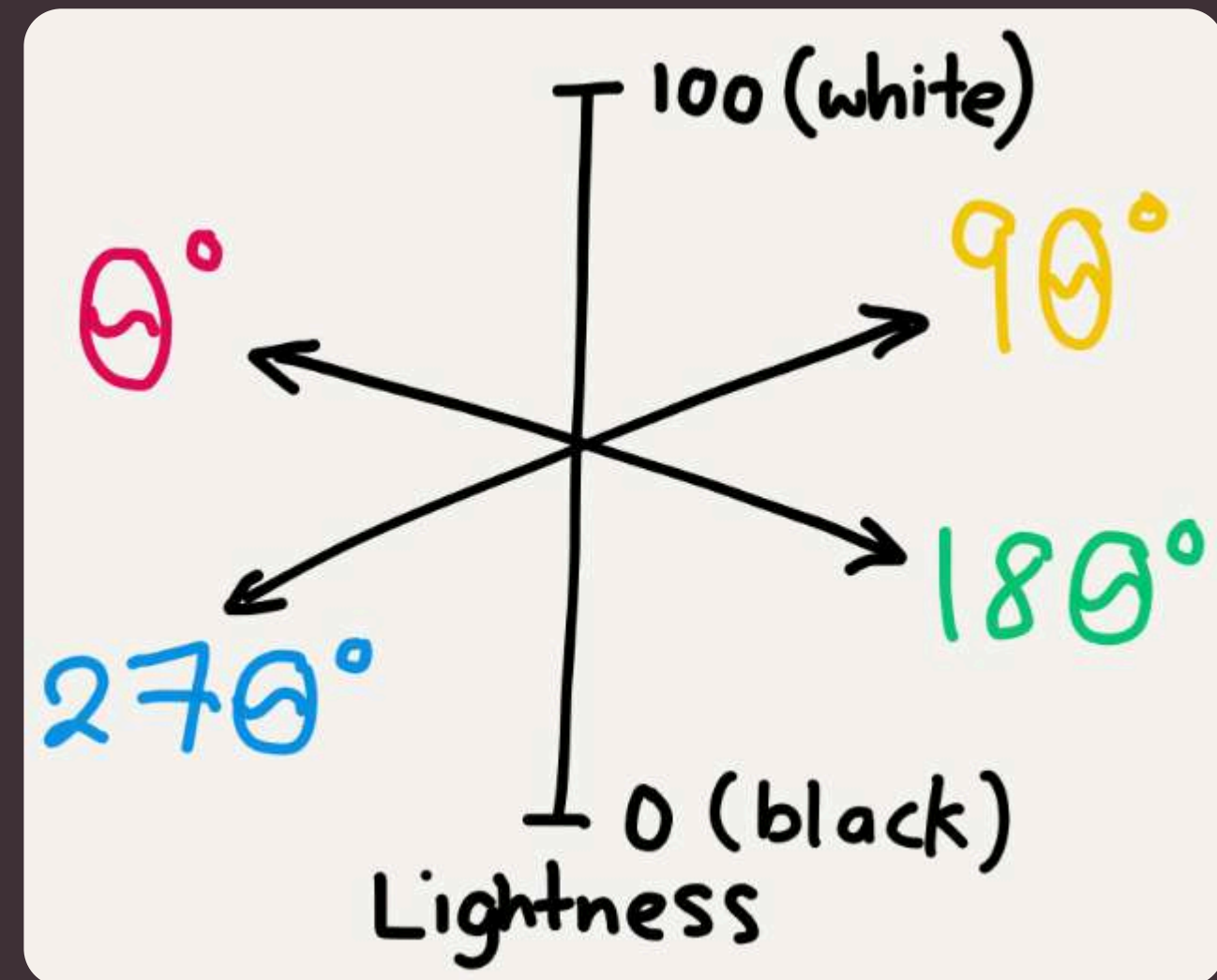
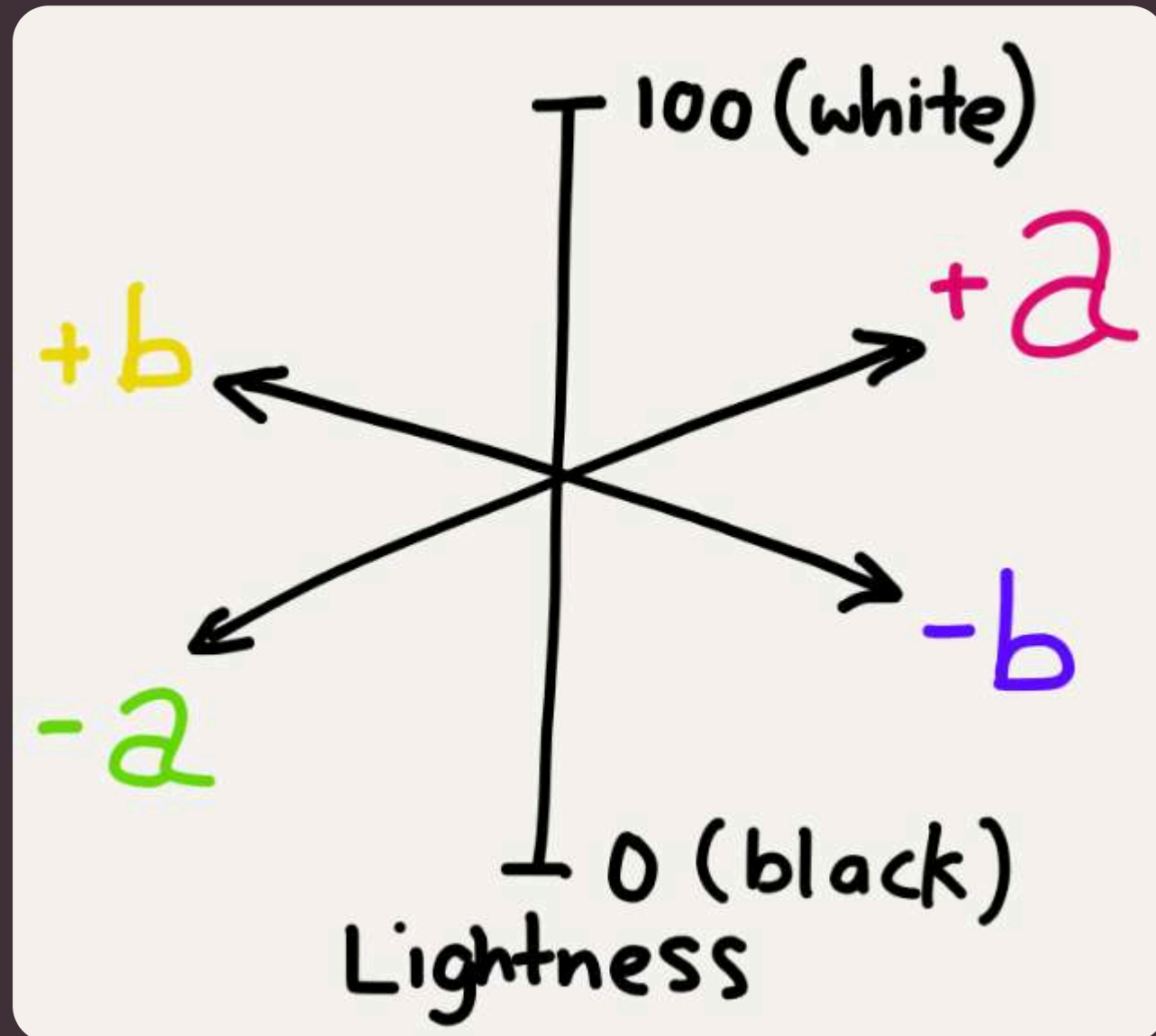


hsl(60 100% 80%)



hsl(240 100% 80%)

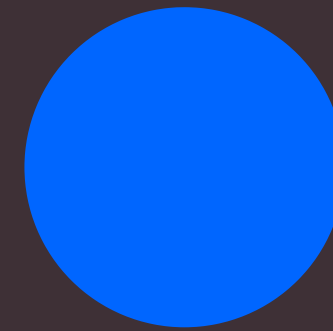
LN ase OT



) 0T dtpAw



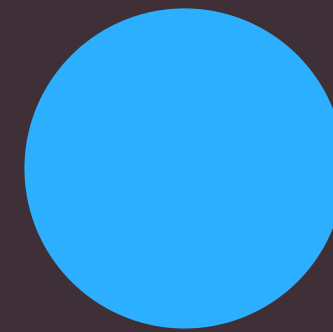
oklch(60% 0.3 110)



oklch(60% 0.3 260)



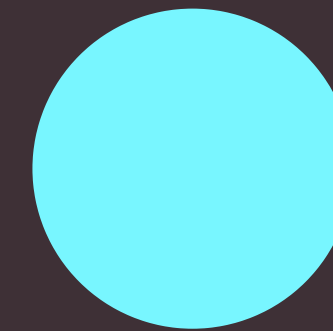
oklch(80% 0.3 110)



oklch(80% 0.3 260)



oklch(100% 0.3 110)



oklch(100% 0.3 260)

?szfwutpazmts emggfwfsdfy

black to white

sRGB
HSL
LAB
okLAB
LCH
okLCH

red to white

sRGB
HSL
LAB
okLAB
LCH
okLCH

blue to white

sRGB
HSL
LAB

```
.interpolation p {  
  --colorspace: srgb;  
}  
  
.black-to-white p {  
  background-image: linear-gradient(  
    to right in var(--colorspace),  
    black, white  
  );  
}  
  
.red-to-white p {  
  background-image: linear-gradient(  
    to right in var(--colorspace),  
    red, white  
  );  
}  
  
.blue-to-white p {  
  background-image: linear-gradient(  
    to right in var(--colorspace),  
    blue, white  
  );  
}
```

Adapted from [Gradient Color Spaces Exploration](#) by Adam Argyle

from <color> colorspace c1 c2 c3 [/ A]

Define the input colour



Component values of the output colour
(all colours use a 3-component syntax)



color(from <color> colorspace c1 c2 c3 [/ A])



Colourspace of the output colour



Optional alpha value

Pending Firefox: Implement CSS Color 5 Relative Color Syntax

uadmzI aenAyzr fszy

Input
colour

HSL

OKLAB

OKLCH

```
.opacity {  
  --input: royalblue;  
  --opacity: 0.5;  
}  
  
.opacity .hsl {  
  background-color: hsl(from var(--input) h s  
l / var(--opacity));  
}  
  
.opacity .oklab {  
  background-color: oklab(from var(--input) l  
a b / var(--opacity));  
}  
  
.opacity .oklch {  
  background-color: oklch(from var(--input) l  
c h / var(--opacity));  
}
```

Pending Firefox: Implement CSS Color 5 Relative Color Syntax

with war r aznd app I hfsfwazf dtptAwy

Input colour

50% darker

40% darker

30% darker

20% darker

10% darker

Base

10% lighter

20% lighter

30% lighter

40% lighter

50% lighter

```
.relative {
  --input: maroon
}

.input-colour {
  background-color: var(--input)
}

.output-lightness p:first-child {
  background-color: oklch(from var(--input)
    calc(1 - 0.5) c h / 1) }
.output-lightness p:nth-child(2) {
  background-color: oklch(from var(--input)
    calc(1 - 0.4) c h / 1) }
.output-lightness p:nth-child(3) {
  background-color: oklch(from var(--input)
    calc(1 - 0.3) c h / 1) }
.output-lightness p:nth-child(4) {
  background-color: oklch(from var(--input)
    calc(1 - 0.2) c h / 1) }
.output-lightness p:nth-child(5) {
  background-color: oklch(from var(--input)
    calc(1 - 0.1) c h / 1) }
.output-lightness p:nth-child(6) {
  background-color: oklch(from var(--input) 1
```

Pending Firefox: Implement CSS Color 5 Relative Color Syntax

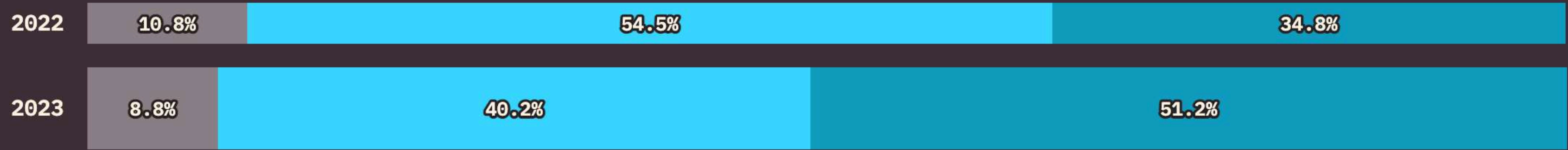
 :HAS()

CanIUse

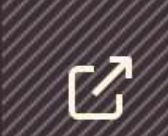
MDN

[en-US][ERR] chart_units.respondents

% of survey respondents	% of question respondents	Count
-------------------------	---------------------------	-------



Add Filters...



If :has() yfpfdztw

```
/* Matches menu items with submenus in them */
```

```
nav li:has(menu) a::after { ... }
```

```
/* Matches <h1> elements only if they have a <p> element directly after
```

```
h1:has(+ p) { ... }
```

```
/* Matches all <section> elements that do NOT contain headings */
```

```
section:not(:has(h1, h2, h3, h4, h5, h6)) { ... }
```

```
/* Matches all <section> elements that have empty <div>s */
```

```
section:has(div:empty) { ... }
```


0 dpayy t uw t c p f r

S

An important field^{*}

Also important field^{*}

Not important field

Up-to-you field

Submit

```
.input {  
  margin-block-end: 1em;  
  width: 15em;  
}  
  
.input:has(:required) label::after {  
  content: "*";  
  color: hotpink;  
  font-size: smaller;  
  vertical-align: super;  
}
```

MISSING FEATURES

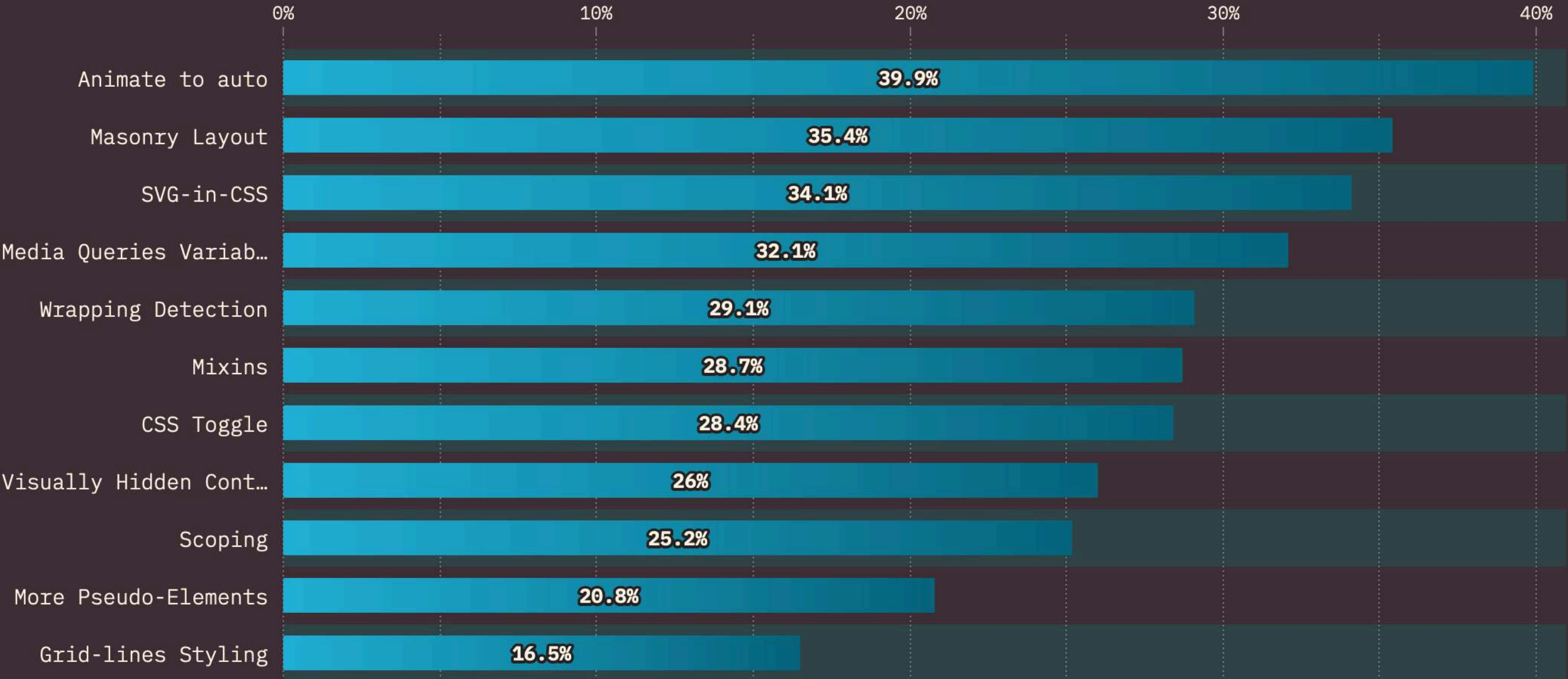
All Respondents

Other Answers

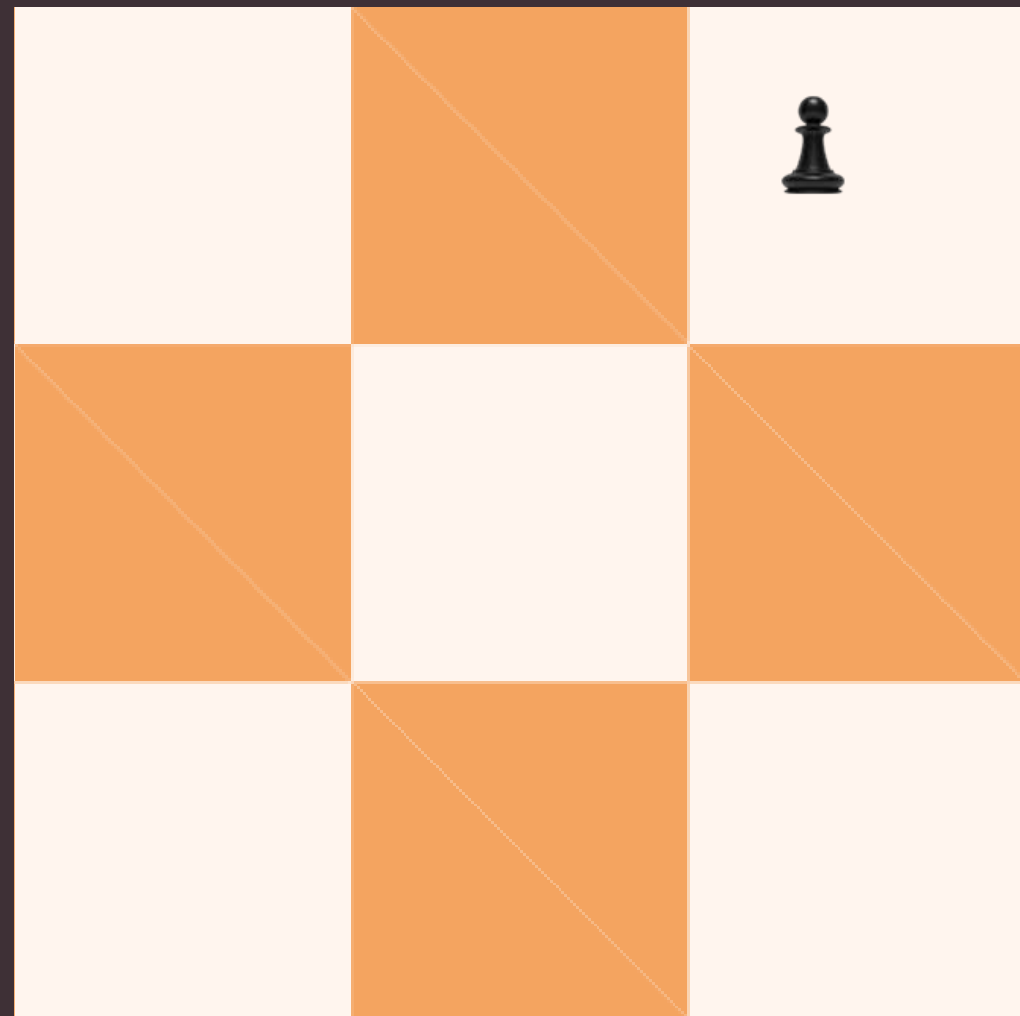
What features do you feel are currently missing from CSS altogether?
Freeform

[en-US][ERR] chart_units.respondents

% of survey respondents	% of question respondents	Count
-------------------------	---------------------------	-------



Lsmr azmsh hwne wtC y tw hwne dtpAr sy



Also see [CSS Fool's Mate](#) on CodePen.

Let's have 0fr and 1fr

■ Show content

Content that is meant to be hidden
For all intents and purposes
Let's have multi-line content

Content that is meant to always be shown
For all intents and purposes
Let's have multi-line content

```
.animate-grid .disclosure-wrapper {  
  display: grid;  
  grid-template-rows: 0fr;  
  transition: grid-template-rows 0.3s ease-out;  
}  
  
.animate-grid #disclosure:checked ~  
.disclosure-wrapper {  
  grid-template-rows: 1fr;  
}  
  
.animate-grid .disclosure {  
  overflow: hidden;  
}
```


Layout auto

Have to enable “Experimental Web Platform features” from `chrome://flags` on Chrome Canary

■ Show content

Content that is meant to always shown
For all intents and purposes
Let's have multi-line content

```
.disclosure2 {  
  overflow: clip;  
  height: 0;  
  transition: 0.2s ease-in-out;  
}  
  
#disclosure2:checked ~ .disclosure2 {  
  height: calc-size(auto);  
}
```



<https://stateofcss.com>

fgfwfsdfy

- [List of CSS properties, both proposed and standard](#)
- [Compositing and Blending Level 2](#)
- [CSS Overscroll Behavior Module Level 1](#)
- [content-visibility: the new CSS property that boosts your rendering performance](#)
- [Thoughts on an implementable path forward for Container Queries](#)
- [CSS Containment Level 3 resources by Miriam Suzanne](#)
- [Why we don't have a parent selector](#)
- [Can I :has\(\)](#)
- [Using :has\(\) as a CSS Parent Selector and much more](#)
- [LCH colors in CSS: what, why, and how?](#)
- [A perceptual color space for image processing](#)
- [W3C Workshop on Wide Color Gamut and High Dynamic Range for the Web](#)
- [OKLCH in CSS: why we moved from RGB and HSL](#)
- [Animating height: auto](#)
- [fantasai | Defining “auto” | CSS Day 2015](#)
- [\[css-transitions\] Transition to height \(or width\) "auto"](#)
- [One of the Boss Battles of CSS is Almost Won! Transitioning to Auto](#)

Ca



<https://chenhuijing.com>



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@huijing

Font is [Inclusive Sans](#) by [Olivia King](#).