

**New CSS features
you can use today!**

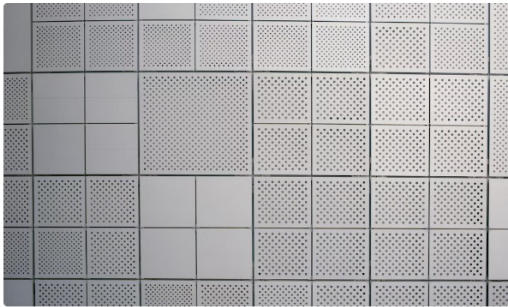
RACHEL ANDREW, GOOGLE

Rachel Andrew

Content lead for Chrome Web Developer Relations at Google, CSS Working Group member.
rachelandrew@google.com | @rachelandrew on social media.

New to the web platform

A series of posts to keep you updated with what's landing in web browsers each month.



New to the web platform in September

Discover some of the interesting features that landed in stable and beta web browsers during September 2023.

 [Rachel Andrew](#)
Oct 2, 2023



New to the web platform in August

Discover some of the interesting features that landed in stable and beta web browsers during August 2023.

 [Rachel Andrew](#)
Aug 31, 2023



New to the web platform in July

Discover some of the interesting features that landed in stable and beta web browsers during July 2023.

 [Rachel Andrew](#)
Jul 31, 2023

New CSS features are exciting!

But they often aren't useful to us if they don't work in all major browsers.

Interoperable Features

**CSS THAT WORKS IN ALL MAJOR BROWSER
ENGINES.**



Last baseline alignment

All major browser engines now support last baseline alignment in CSS grid and flexbox.



[Rachel Andrew](#)

Feb 20, 2023

CSS

Newly interoperable



Container queries land in stable browsers

This Valentine's day, we're celebrating size container queries and container query units landing in all stable browsers.

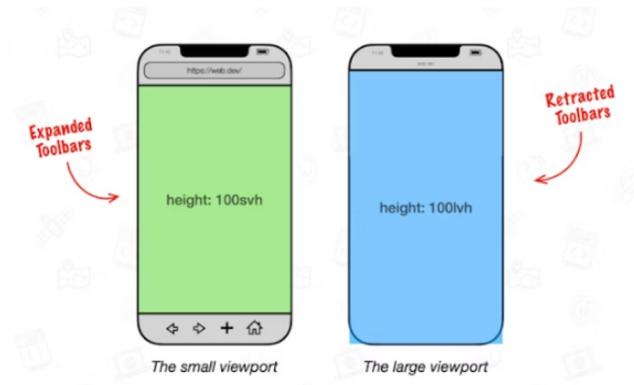


[Una Kravets](#)

Feb 14, 2023

CSS

Newly interoperable



The large, small, and dynamic viewport units

New CSS units that account for mobile viewports with dynamic toolbars.



[Bramus](#)

Nov 29, 2022

CSS

Newly interoperable



111



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15.4

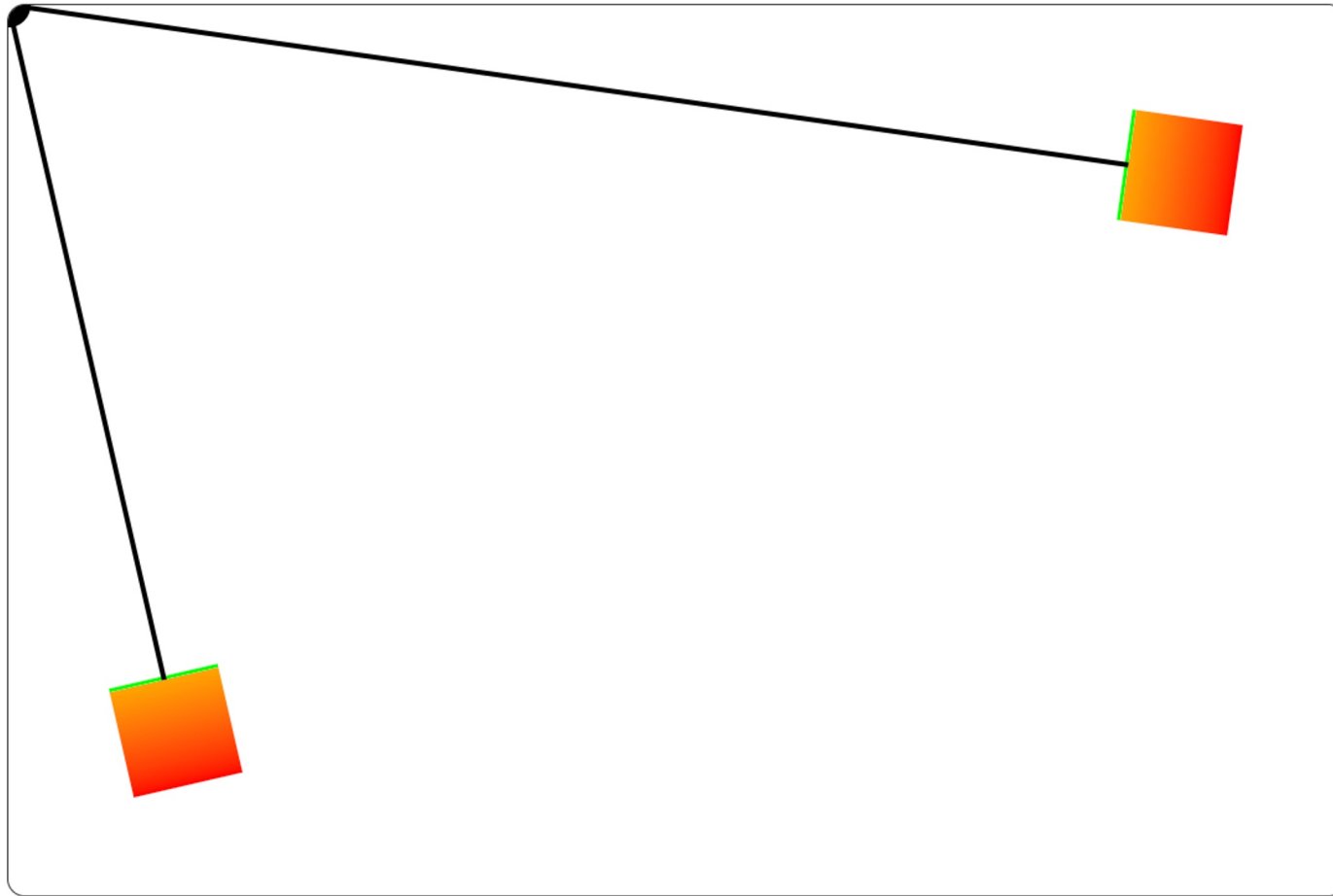
CSS trigonometric functions

More mathematical functions in CSS with the `sin()`, `cos()`, `tan()`, `asin()`, `acos()`, `atan()`, and `atan2()` functions.

```
.element {  
  width: calc(sin(30deg) * 100px);  
  height: calc(sin(30deg) * 100px);  
}
```

Learn more at: <https://web.dev/css-trig-functions/>

💡 With `atan2`, you can calculate the rotation for an object so that it points back to a specific point



Learn more at: <https://web.dev/css-trig-functions/>



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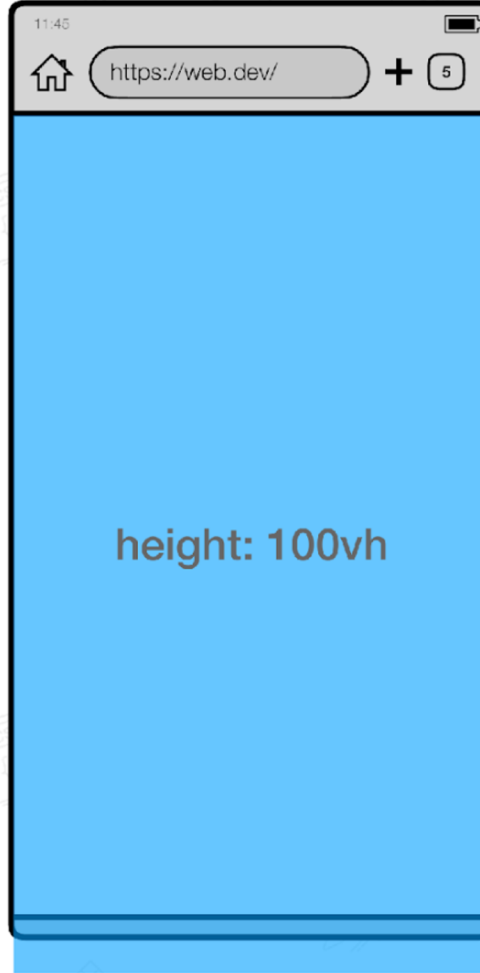
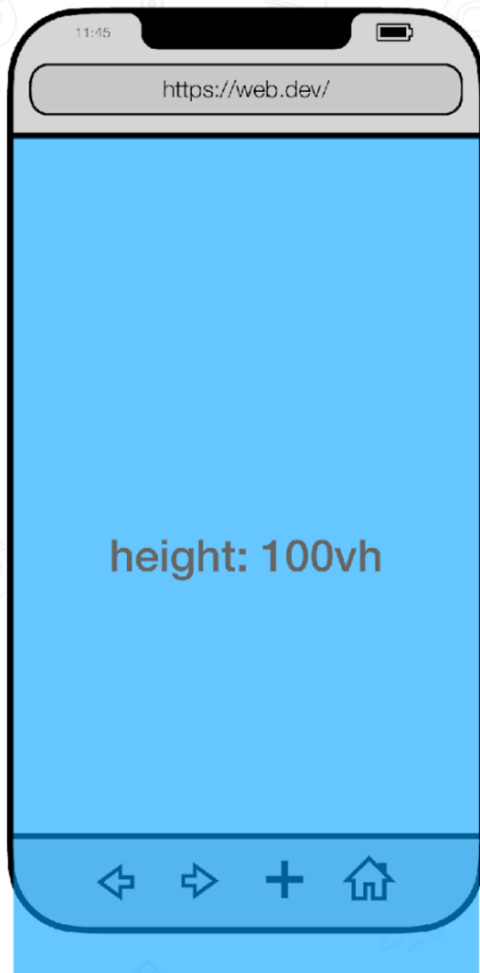
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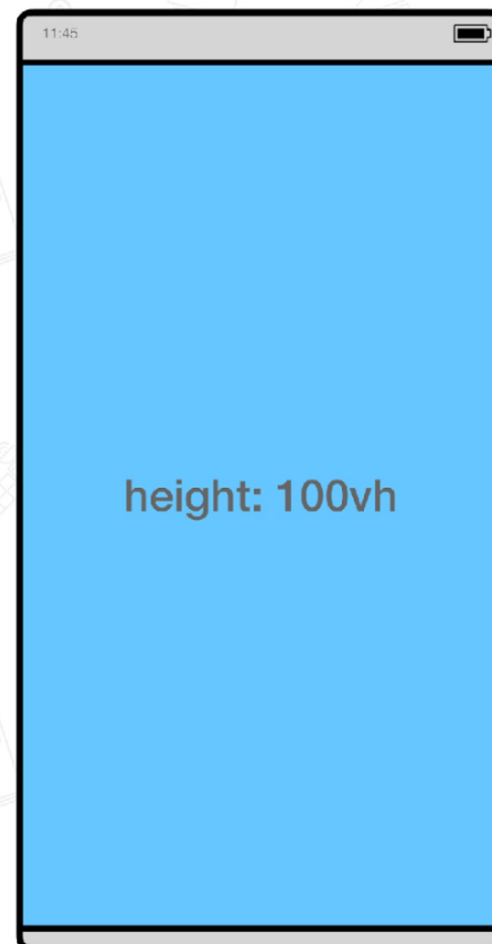
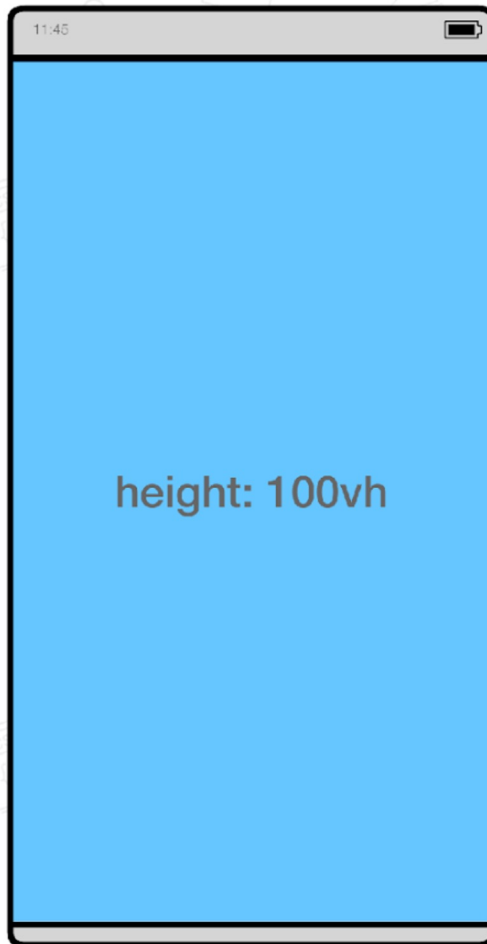
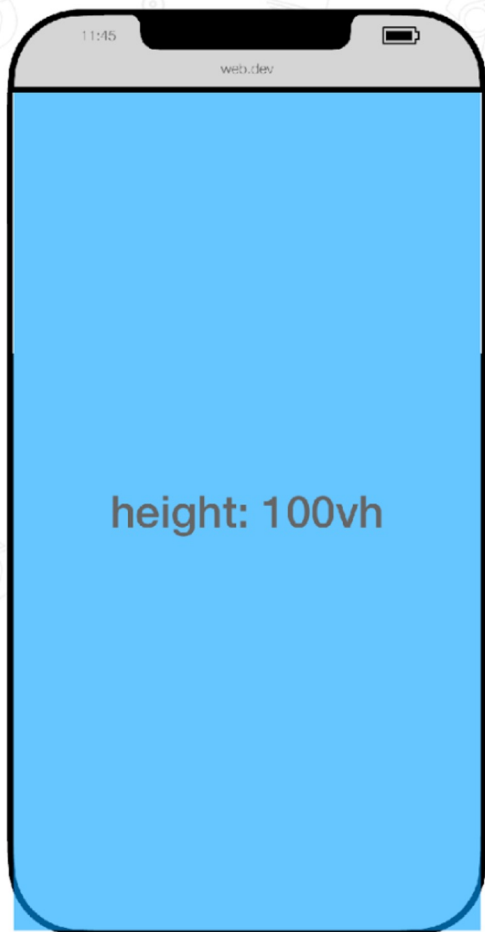
15.4

Viewport units

Representing the large, small, and dynamic viewport.



Learn more at: <https://web.dev/viewport-units/>



Learn more at: <https://web.dev/viewport-units/>

LARGE, SMALL, AND DYNAMIC UNITS

- **Small:** svw, svh, svi, svmin, svmax
- **Large:** lvw, lvh, lvi, lvmin, lvmax
- **Dynamic:** dvw, dvh, dvi, dvmin, dvmax



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:focus-visible

Show a different focus indicator based on the way a user is interacting with the page.

```
.button:focus-visible {  
  outline: 3px solid orange;  
  outline-offset: 3px;  
}
```

Learn more at: <https://hidde.blog/focus-visible-more-than-keyboard/>



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15.4

Cascade Layers

Manage the cascade and prevent specificity problems.


```
@layer utilities {  
  .padding-sm {  
    padding: 0.5rem;  
  }  
  
  .padding-lg {  
    padding: 0.8rem;  
  }  
}
```

Learn more at: <https://developer.chrome.com/blog/cascade-layers/>

@layer framework, layout, utilities;

Learn more at: <https://developer.chrome.com/blog/cascade-layers/>



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16

Size container queries

Testing the size of the container, rather than the viewport.



G-CIND at the Bristol Balloon Fiesta 2022

After two years the Bristol Balloon Fiesta was back. Most of Bristol could be found trekking up the hill at 5.30am to worship their strange hot-air demanding gods.



G-CIND at the Bristol Balloon Fiesta 2022

After two years the Bristol Balloon Fiesta was back. Most of Bristol could be found trekking up the hill at 5.30am to worship their strange hot-air demanding gods.

```
.element {  
  container-type: inline-size;  
}
```

```
.element {  
  container-type: inline-size;  
  container-name: sidebar;  
}
```

```
@container (min-width: 500px) {  
  
}
```

```
@container sidebar (min-width: 500px) {  
  
}
```




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16.4

Media queries range syntax

Streamline your media queries.

```
@media (min-width: 400px) {  
/* Styles for viewports with a width of 400 pixels or  
greater. */  
}
```

Learn more at: <https://developer.chrome.com/blog/media-query-range-syntax/>

```
@media (width >= 400px) {  
/* Styles for viewports with a width of 400 pixels  
or greater. */  
}
```

Learn more at: <https://developer.chrome.com/blog/media-query-range-syntax/>

```
@media (min-width: 400px) and (max-width: 600px) {  
/* Styles for viewports between  
400px and 600px. */  
}
```

Learn more at: <https://developer.chrome.com/blog/media-query-range-syntax/>

```
@media (400px <= width <= 600px ) {  
/* Styles for viewports between 400px and 600px.  
*/  
}
```

Learn more at: <https://developer.chrome.com/blog/media-query-range-syntax/>



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16.2

New color spaces and functions

The `color()`, `lab()`, `lch()`, `oklab()`, `oklch()`, and `color-mix()` CSS functions.

High Definition CSS Color Guide x

developer.chrome.com/articles/high-definition-css-color-guide/



High Definition CSS Color Guide

CSS Color 4 brings wide gamut color tools and capabilities to the web: more colors, manipulation functions, and better gradients.

Published on Thursday, February 2, 2023


 Adam Argyle
Developer Relations Engineer working on Chrome CSS, UI, & DevTools.
[Twitter](#) [GitHub](#)

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Overview

- [What is a color gamut?](#)
- [Human visual gamut](#)
- [What is a color space?](#)
- [Color gamut and color space summary](#)
- [How to access more colors, new spaces, and debug results](#)
- [A review of the classic color spaces](#)
- [Meet the new web color spaces](#)

Learn more: <https://developer.chrome.com/articles/high-definition-css-color-guide/>

```
li {  
  background-color: color-mix(in srgb, #34c9eb 10%, white);  
}
```

```
li:nth-child(2) {  
  background-color: color-mix(in srgb, #34c9eb 40%, white);  
}
```

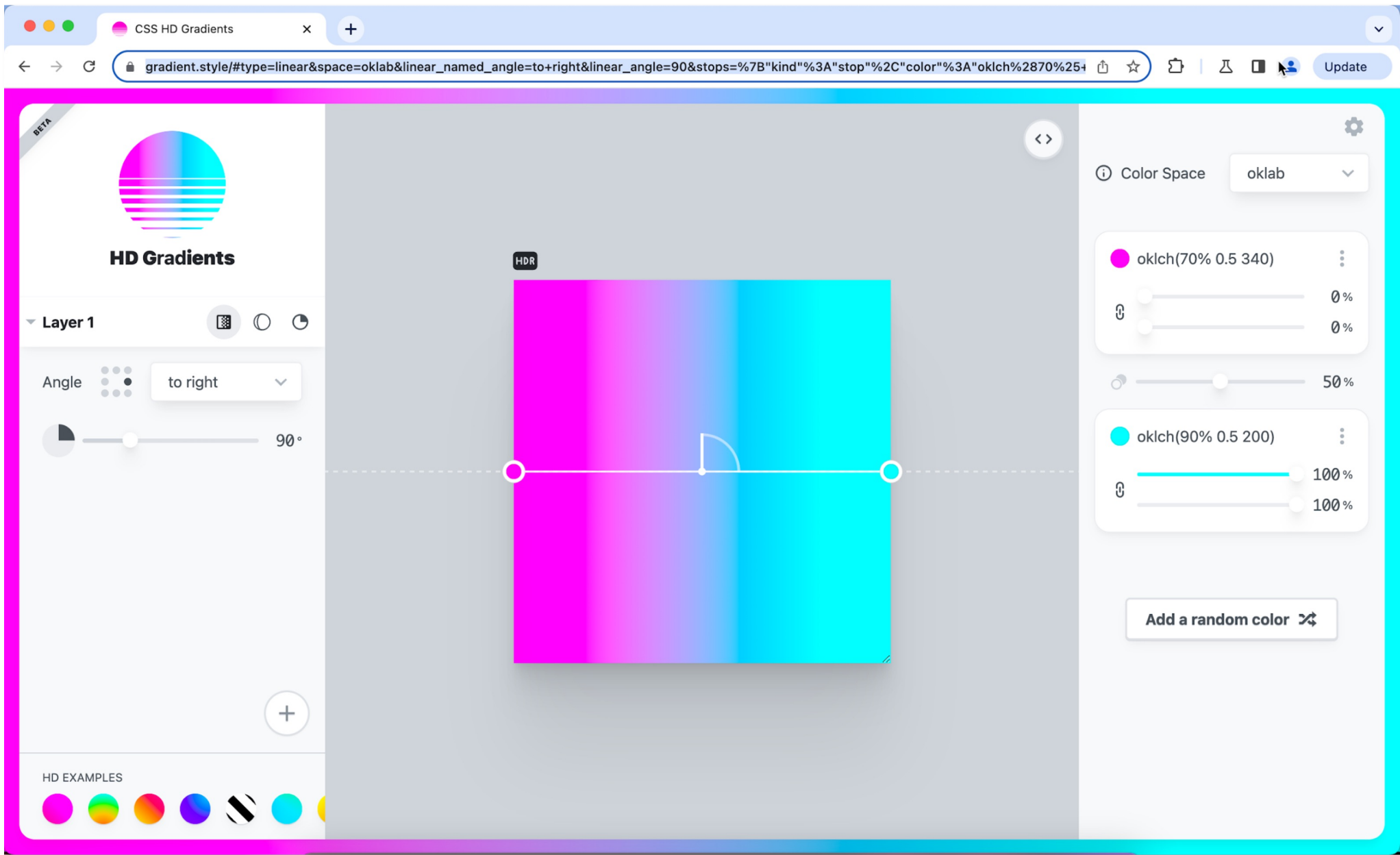
```
li:nth-child(3) {  
  background-color: color-mix(in srgb, #34c9eb 70%, white);  
}
```

Learn more: <https://developer.chrome.com/blog/css-color-mix/>

10% #34c9eb

40% #34c9eb

70% #34c9eb



Play with color at: <https://gradient.style>



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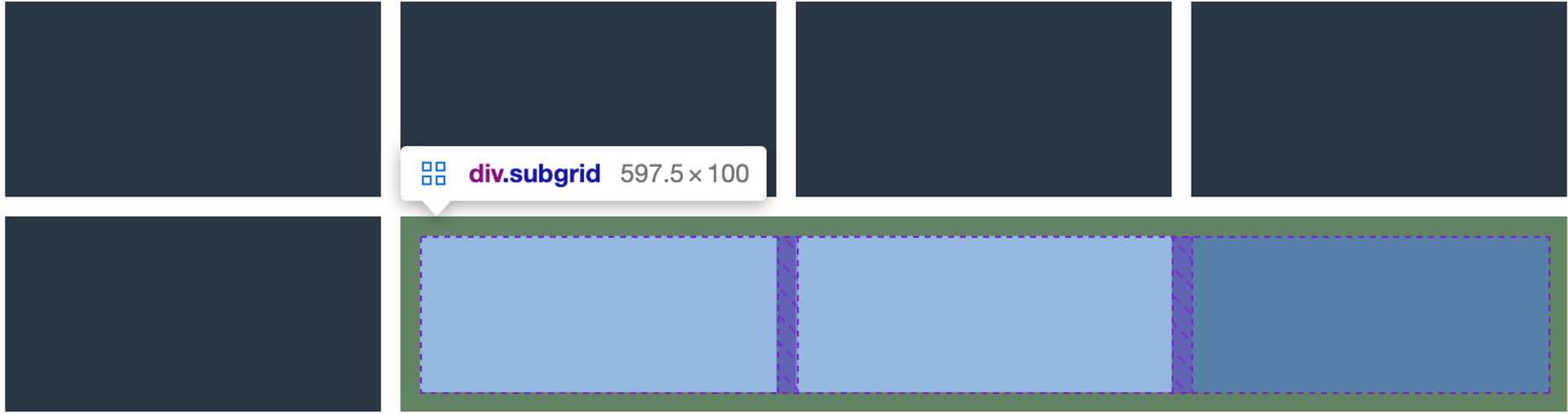
16

Subgrid for CSS grid layout

Allow child grids to inherit track sizing from their parent.

```
.subgrid {  
  grid-column: auto / span 3;  
  display: grid;  
  grid-template-columns: subgrid;  
}
```

```
.grid {  
  display: grid;  
  grid-template-columns: 1fr 1fr 1fr 1fr;  
  grid-auto-rows: minmax(100px, auto);  
  gap: 10px;  
}
```



A longer header

Jolly Dasher decorate
elf candy cane
decorate angel,
fruitcake holiday
nutcracker toys.

Header

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nutcracker toys.


```
.grid {  
  display: grid;  
  grid-template-columns: 1fr 1fr 1fr;  
  gap: 20px;  
}
```

```
.card {  
  grid-row: auto / span 2;  
  display: grid;  
  grid-template-rows: subgrid;  
  gap: 1px;  
}
```

Learn more at: <https://12daysofweb.dev/2022/css-subgrid/>

Coming soon

INTEROP 2023 FEATURES.

Interop 2023 Dashboard

STABLE

EXPERIMENTAL

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INTEROP

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INVESTIGATIONS

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Chrome
Dev



Edge
Dev



Firefox
Nightly

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Safari
Technology Preview

Active Focus Areas



INTEROP

| | | | | |
|-------------------------------------|-------|-------|-------|-------|
| Border Image | 100% | 97.3% | 100% | 97.3% |
| Color Spaces and Functions | 100% | 95.5% | 99.3% | 95.0% |
| Container Queries | 100% | 92.3% | 94.5% | 90.2% |
| Containment | 99.5% | 96.9% | 82.0% | 80.3% |
| CSS Math Functions | 92.6% | 99.5% | 99.7% | 92.6% |
| CSS Pseudo-classes | 100% | 99.0% | 99.9% | 99.0% |
| Custom Properties | 100% | 45.3% | 99.9% | 45.3% |
| Flexbox | 99.6% | 98.2% | 94.1% | 93.2% |
| Font Feature Detection and Palettes | 100% | 100% | 99.9% | 99.9% |
| Forms | 99.1% | 99.5% | 86.0% | 85.6% |
| Grid | 99.6% | 89.0% | 90.8% | 83.5% |
| :has() | 100% | 93.5% | 96.9% | 91.8% |
| Inert | 100% | 100% | 100% | 100% |
| Masking | 78.8% | 97.0% | 89.7% | 71.8% |
| Media Queries 4 | 100% | 100% | 100% | 100% |
| Modules | 99.3% | 100% | 99.3% | 99.3% |
| Motion Path | 100% | 100% | 90.1% | 90.1% |
| Offscreen Canvas | 99.8% | 99.5% | 97.2% | 96.9% |
| Pointer and Mouse Events | 83.3% | 88.0% | 68.9% | 68.0% |
| Scrolling | 96.2% | 96.7% | 93.7% | 92.0% |
| Subgrid | 100% | 81.2% | 89.4% | 76.4% |
| Transforms | 99.3% | 99.6% | 97.6% | 97.2% |
| URL | 86.7% | 87.6% | 99.7% | 85.4% |
| Web Codecs (video) | 98.5% | 52.6% | 89.5% | 51.3% |
| Web Compat 2023 | 99.6% | 79.5% | 100% | 79.1% |
| Web Components | 97.6% | 98.6% | 100% | 97.4% |
| TOTAL | 97.2% | 91.7% | 94.5% | 86.8% |



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Soon!



15.4

:has()

A parent selector.

```
<ul>
  <li>I do not contain any headings</li>
  <li><p>I contain a paragraph.</p></li>
  <li><h2>I'm a level 2 heading!</h2></li>
  <li><h2>I'm a level 2 heading!</h2>
    <p>Followed by a paragraph.</p>
  </li>
</ul>
```

Learn more at: <https://developer.chrome.com/blog/has-m | 05/>

```
li:has(h2) {  
  border: 5px solid red;  
}
```

Learn more at: <https://developer.chrome.com/blog/has-m105/>

```
li:has(h2+p) {  
  border: 5px solid red;  
}
```

Learn more at: <https://developer.chrome.com/blog/has-m105/>



An article about balloons I couldn't be bothered to find an image for.



Visit this excellent article about balloons.



Visit this excellent article about balloons.



Visit this excellent article about balloons.

Sorry, all out of balloon pictures.

```
li:not(:has(img)):before{
  content: "";
  aspect-ratio: 9/6;
  background: rgb(131,58,180);
  background: radial-gradient(circle,
    rgba(131,58,180,1) 0%,
    rgba(29,182,253,1) 50%,
    rgba(252,69,108,.9) 100%);
  border-radius: .5em;
}
```



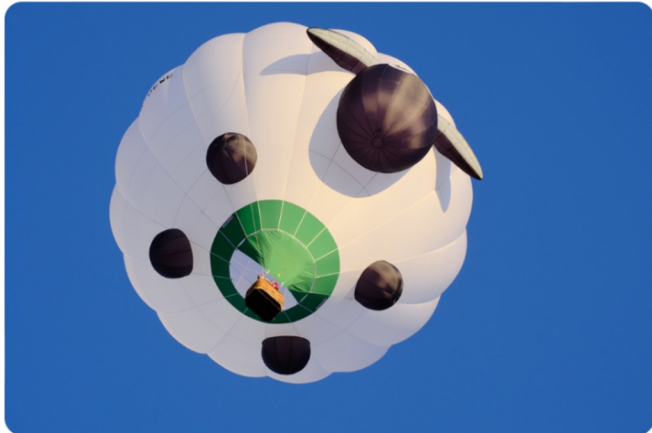
[Read this excellent article about balloons.](#)



[An article about balloons I couldn't be bothered to find an image for.](#)



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[Visit this excellent article about balloons.](#)



[Visit this excellent article about balloons.](#)



[Sorry, all out of balloon pictures.](#)



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Soon!



16.4

@property

Define type, default values, and inheritance for CSS custom properties.

```
:root {  
  --colorHilite: rebeccapurple;  
}
```

```
.element {  
  --colorHilite: 2;  
  background-color: var(--colorHilite);  
}
```

```
@property --colorHilite {  
  syntax: '<color>';  
  initial-value: rebeccapurple;  
  inherits: false;  
}
```


Interop 2024 is happening

<https://web.dev/interop-2024-proposals/>



Baseline

<https://web.dev/baseline/>

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Mozilla ads

Don't want to see ads?

- Filter
- @font-feature-values
 - @font-palette-values
 - @import
 - @keyframes
 - @layer**
 - @media
 - @namespace
 - @page
 - @property
 - @supports

- ▶ Functions
- ▶ Types
- Guides**
- ▶ Animations


@layer

 **Baseline:** Widely supported    

The `@layer` [CSS at-rule](#) is used to declare a cascade layer and can also be used to define the order of precedence in case of multiple cascade layers.


Try it

CSS Demo: @layer RESET

| HTML | CSS | OUTPUT |
|---|--------------|---|
| <pre> 1 @layer module, state; 2 3 @layer state { 4 .alert { 5 background-color: brown; 6 } 7 p { 8 border: medium solid limegreen; 9 } </pre> | <pre> </pre> |  |

In this article

- Try it
- Syntax
- Description
- Formal syntax
- Examples
- Specifications
- Browser compatibility
- See also



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