

WHAT'S NEW ON THE WEB PLATFORM?

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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 April

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



New to the web platform in March

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



New to the web platform in February

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



New web platform features are exciting!

But they also give us more to learn. And, how do we work out if they are available cross-browser and ready to use in production?



Baseline



Baseline: Widely supported



Baseline is determined by this web feature being supported on the current and the previous major browser versions.

[Learn more](#)

[See full compatibility](#)

Learn more at: <https://web.dev/baseline/>

WHAT'S NEW?

- Web platform features that are part of Baseline.
- Web platform features that are newly interoperable.
- Web platform features we can expect to have broadly available soon.

BASELINE FEATURES

**SUPPORTED IN THE CURRENT AND LAST
VERSION OF MAJOR BROWSER ENGINES.**



The `<dialog>` element

A new HTML element for modal and non-modal dialog pop-ups.

```
<dialog id="myDialog">
  <form method="dialog">
    <p>This is a dialog.</p>
    <button>Close</button>
  </form>
</dialog>
```

Learn more at: <https://web.dev/learn/html/dialog/>

```
myButton.addEventListener('click', () => {  
    myDialog.showModal();  
});
```

Learn more at: <https://web.dev/learn/html/dialog/>

```
dialog::backdrop {  
    background: rgba(0, 0, 0, 0.5);  
}
```



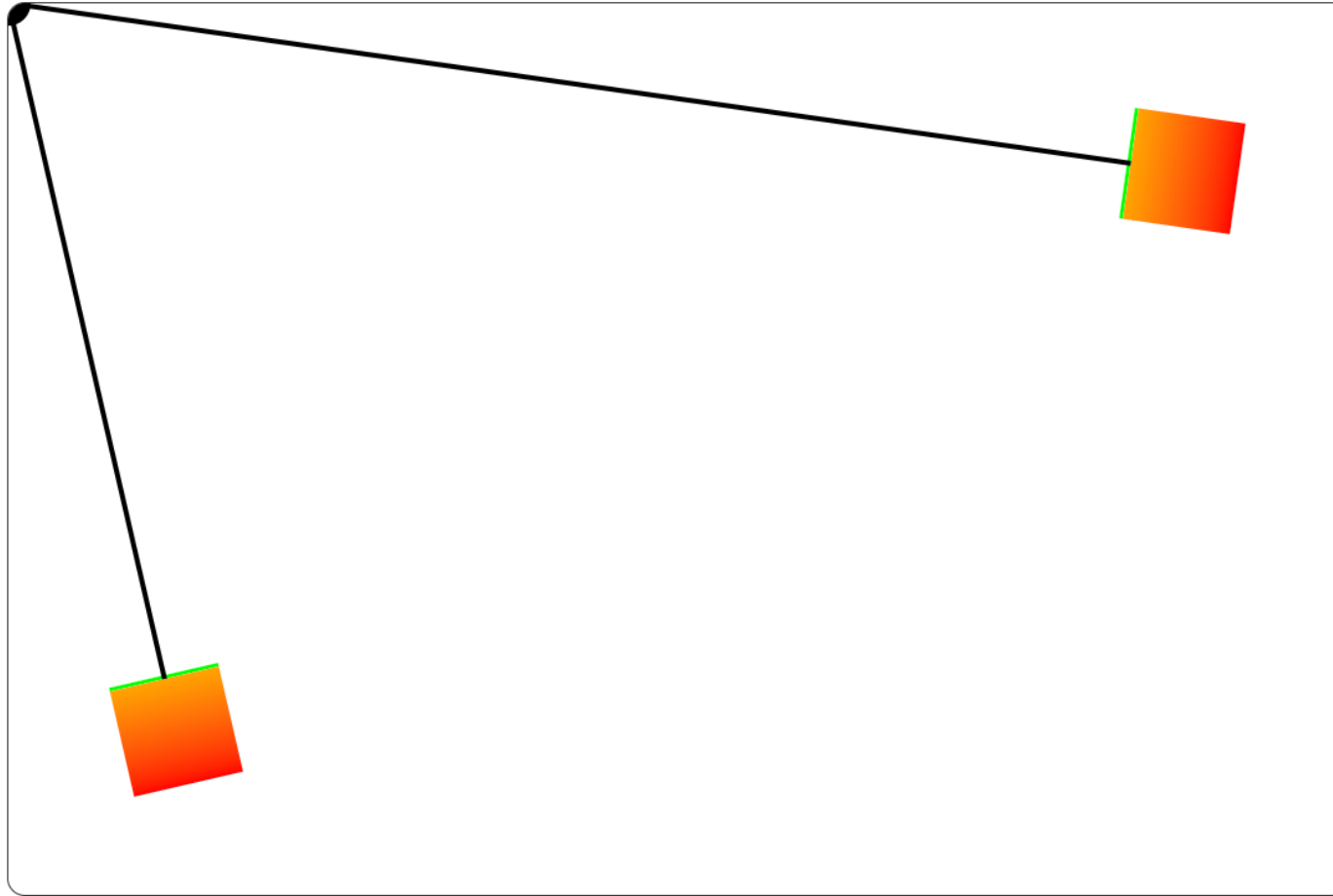
CSS trigonometric functions

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

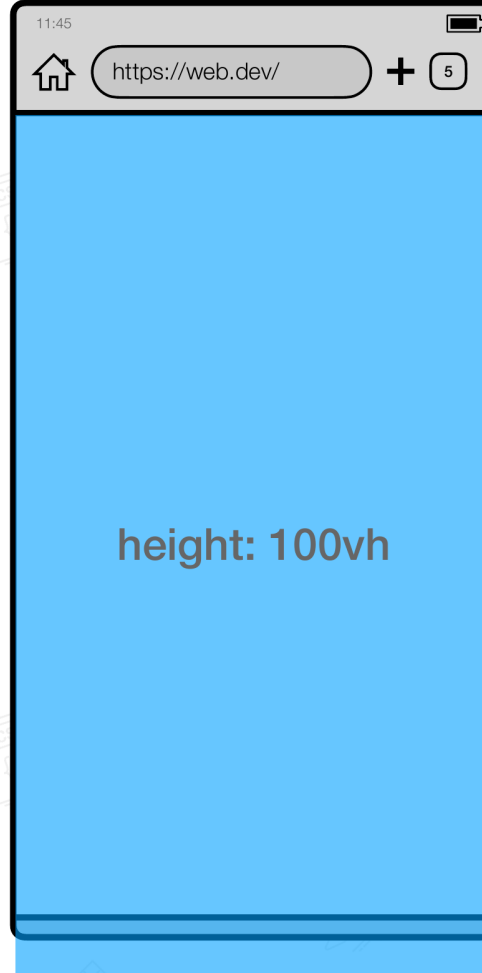
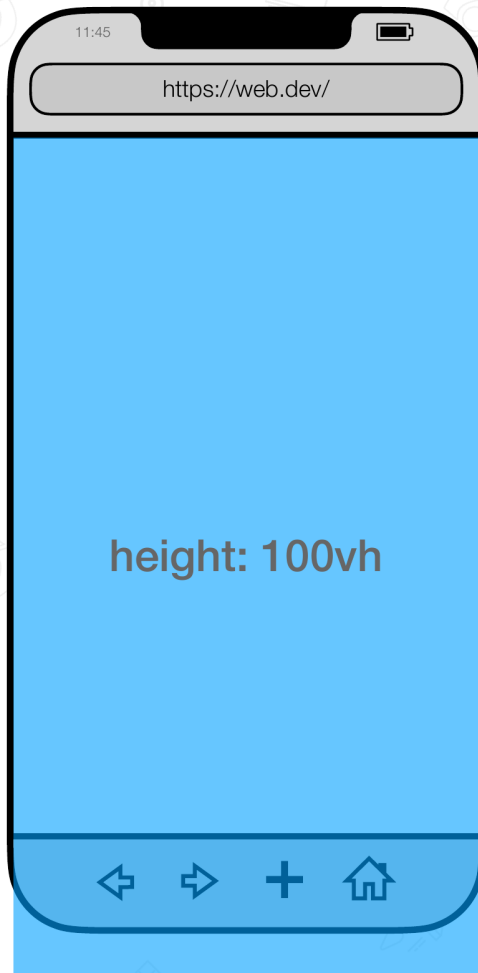


Learn more at: <https://web.dev/css-trig-functions/>

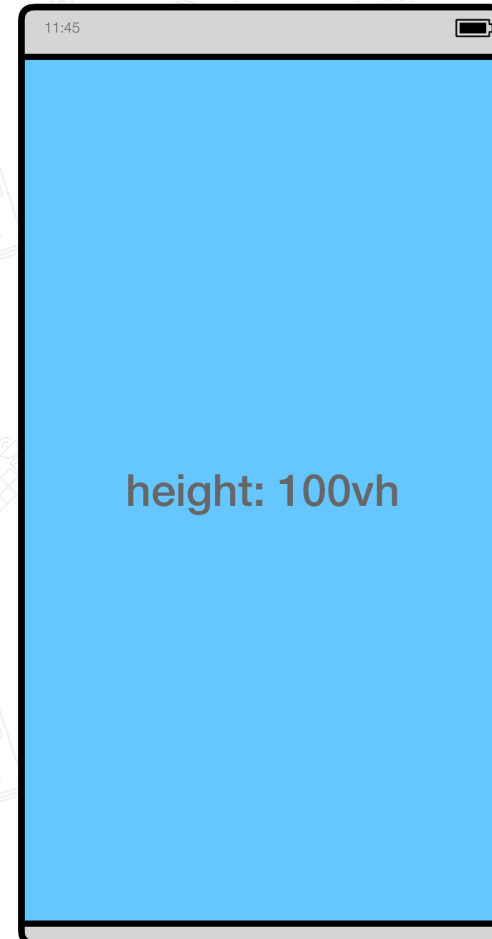
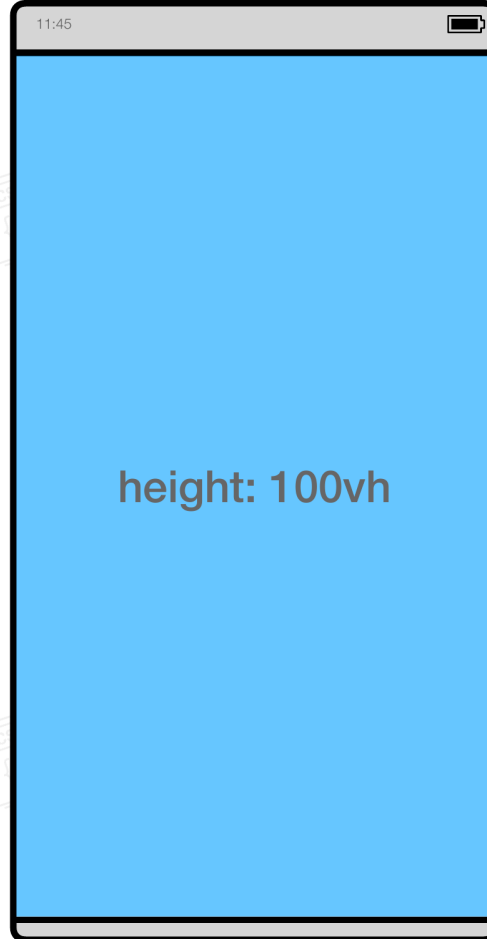
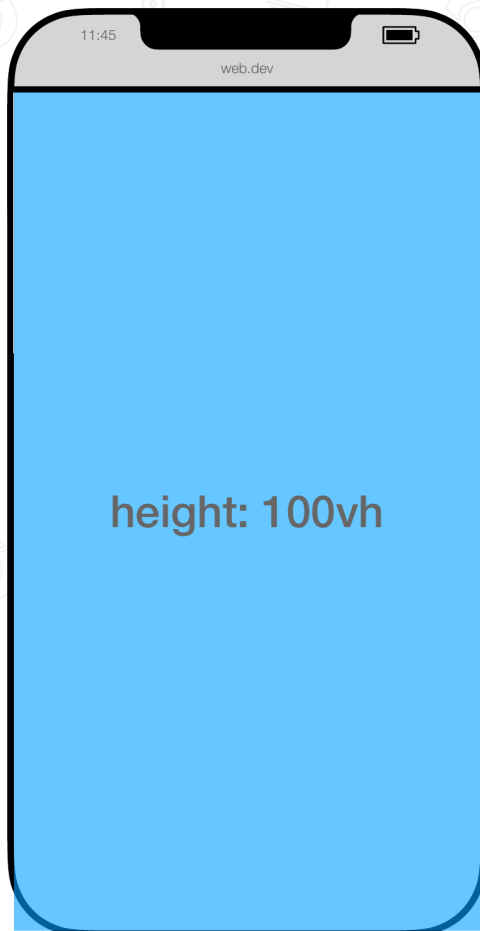


Viewport units

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



: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/>



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/>

NEWLY INTEROPERABLE

NOW SUPPORTED IN ALL MAJOR
BROWSER ENGINES.





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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

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

Update

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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



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Developer Relations Engineer working on Chrome CSS, UI, & DevTools.

[Twitter](#) [GitHub](#)

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[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/>

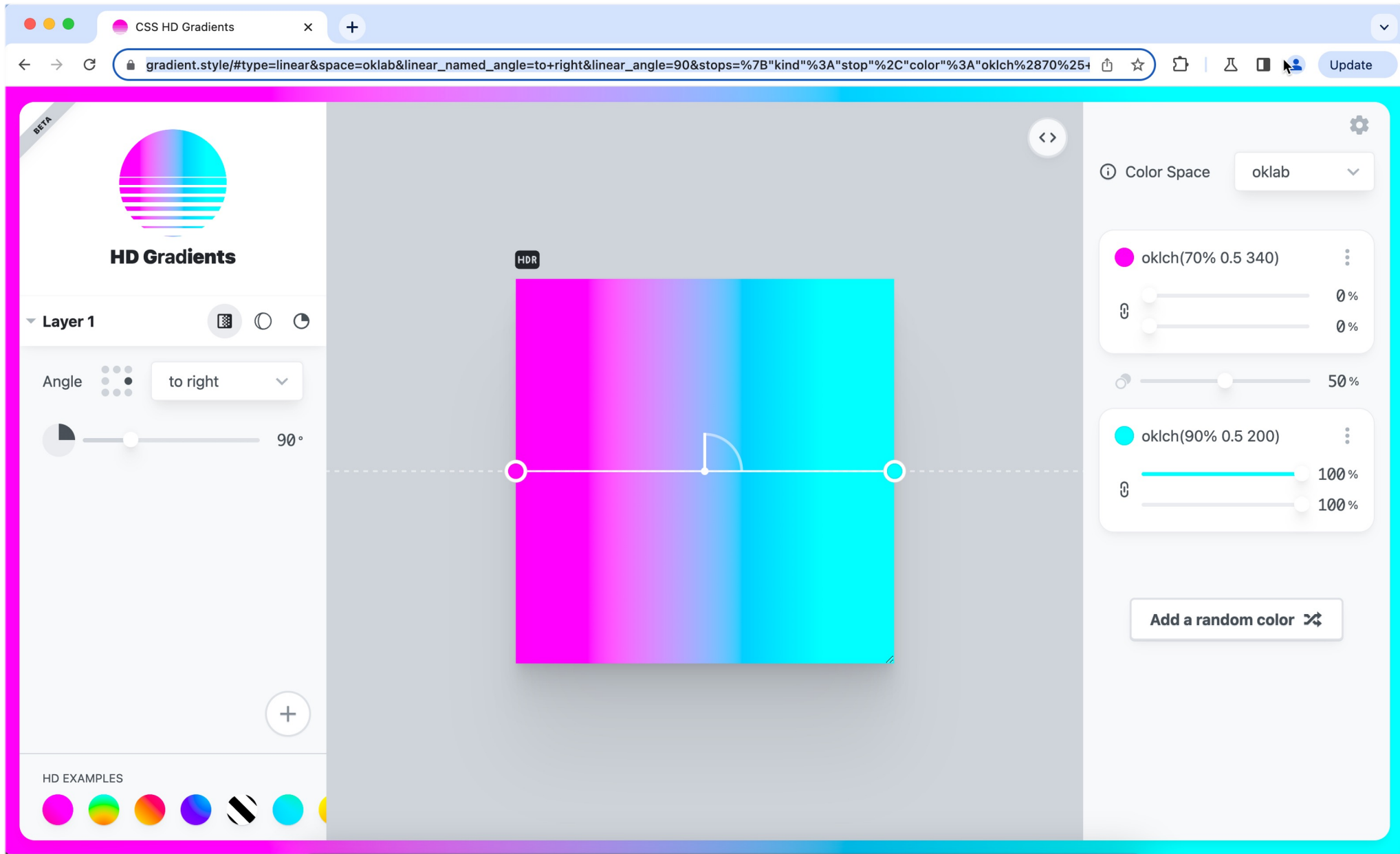
```
li {  
  background-color: color-mix(in srgb, #34c9eb 10%, white);  
}  
  
li:nth-child(2) {  
  background-color: color-mix(in srgb, #34c9eb 40%, white);  
}  
  
li:nth-child(3) {  
  background-color: color-mix(in srgb, #34c9eb 70%, white);  
}
```

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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16.4

Compression Streams API

A JavaScript API for compressing and decompressing streams of data.

```
const readableStream = await fetch('lorem.txt').then(
  (response) => response.body
);
const compressedReadableStream = readableStream.pipeThrough(
  new CompressionStream('gzip')
);
```

```
const decompressedStream = compressedStream.pipeThrough(  
  new DecompressionStream('gzip')  
);
```

Learn about streams at: <https://web.dev/streams/>

COMING SOON

INTEROP 2023 FEATURES.

STABLE

EXPERIMENTAL

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INTEROP

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INVESTIGATIONS

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Chrome
Dev



Edge
Dev



Firefox
Nightly



Safari
Technology Preview

Active Focus Areas				 INTEROP
Border Image	99.6%	93.3%	99.5%	93.0%
Color Spaces and Functions	99.1%	94.8%	99.5%	94.3%
Container Queries	100%	89.6%	85.7%	81.1%
Containment	99.7%	97.1%	80.9%	79.1%
CSS Math Functions	97.8%	82.9%	87.1%	77.5%
CSS Pseudo-classes	92.8%	95.6%	92.9%	83.0%
Custom Properties	100%	4.8%	93.7%	4.8%
Flexbox	99.5%	96.9%	93.5%	92.6%
Font Feature Detection and Palettes	98.0%	100%	97.9%	96.2%
Forms	94.8%	93.9%	85.9%	80.1%
Grid	99.4%	88.2%	90.6%	82.5%
:has()	100%	24.5%	93.9%	24.5%
Inert	100%	100%	100%	100%
Masking	68.3%	94.7%	85.1%	62.5%
Media Queries 4	100%	97.9%	99.9%	97.9%
Modules	99.7%	92.0%	87.2%	85.9%
Motion Path	97.4%	90.9%	86.0%	82.6%
Offscreen Canvas	98.4%	96.6%	94.5%	93.5%
Pointer and Mouse Events	71.7%	86.2%	49.2%	35.4%
Scrolling	94.2%	93.4%	94.7%	87.7%
Subgrid	74.5%	84.9%	100%	59.4%
Transforms	98.0%	96.4%	97.6%	93.3%
URL	88.4%	88.0%	99.5%	85.4%
Web Codecs (video)	100%	1.3%	61.4%	1.3%
Web Compat 2023	76.2%	69.7%	97.7%	59.3%
Web Components	93.4%	96.5%	99.6%	91.3%
TOTAL	93.8%	82.6%	90.5%	74.0%



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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-m105/>

```
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.



Read this excellent article about balloons.

Visit this excellent article about balloons.



Visit this excellent article about balloons.



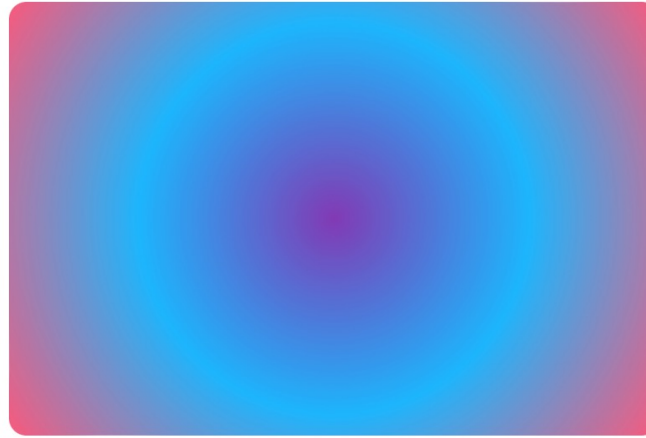
Visit this excellent article about balloons.

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.](#)



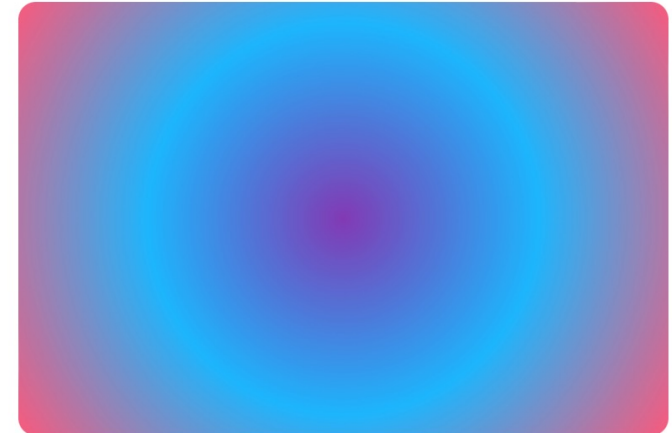
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[Sorry, all out of balloon pictures.](#)



Soon!



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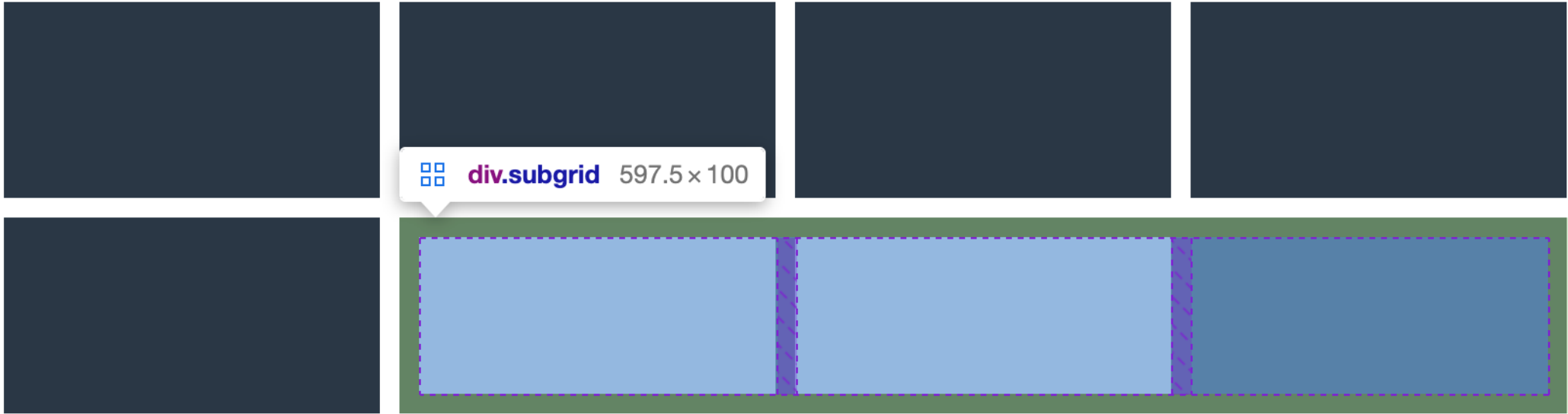
16

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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```
.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/>



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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;  
}
```



What's next for Baseline?

We want your feedback at: <https://github.com/web-platform-dx/feature-set/issues>



Feature grouping

Aiming to complete by the end of 2023.



Baseline 24 ... 25 ...

A yearly moment in time, showing what the state of the web platform is at that point.

<https://noti.st/rachelandrew/tPRldw/>

