

Do You Still Need Sass?

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PRESENTED BY

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A little about me



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What I'll cover

- An overview of native CSS features that can replace Sass functionality
 - AND new ones that aren't yet supported by all major browsers!
- Using PostCSS to implement up and coming CSS features that aren't supported yet in all browsers
- Ways to add native CSS to your Sass code to start using modern CSS!
- *Should* you still use Sass?

What can native CSS do today?

Custom properties

- Available in browsers since 2016, can be used in place of Sass variables `--my-nifty-variable`, `var(--my-nifty-variable)`
- Since they aren't compiled into CSS like Sass variables are, they can be changed on the fly using Javascript
- Can't be used as a media query variable, but we'll talk about this later!

Math in native CSS

Yes, CSS has the ability to do math!

- `calc()`: available since 2012
- `min()`, `max()`, `clamp()`: available in all browsers since 2020
 - `min()`: Takes the minimum value of a comma separated list of numbers
 - `max()`: Takes the maximum value of a comma separated list of numbers
 - `clamp()`: Clamps a value within a defined minimum and maximum range
- Trigonometric functions arrived in native CSS in 2023. `sin()`, `cos()`, `tan()`, and others.
- [More math functions on MDN](#)

Color functions

color-mix()

- Supported in all major browsers, `color-mix()` can be used in place of Sass's `mix()` function.
 - Percentage of the mix can be added to both values in `color-mix()`, while Sass `mix()` only takes one percentage value
- `color-mix(in srgb, pink 85%, white)`
- Can't use a CSS custom property in Sass color functions, as Sass variables compile at runtime while CSS custom properties compile when used

Let's take a look at how this works in native CSS vs Sass!

Relative color syntax

- Allows colors to be changed relative to another color
- Takes an origin color and splits it into 3 color channels
- `background-color: oklch(from purple 1 c h);`
 - You can manipulate each of these channels to create a new color!

Nesting

- Supported in all major browsers since 2024
- Works identical to Sass, except:
 - Sass and CSS interpret nested code in different ways
 - Concatenation is not possible like it is in Sass
 - You can't use a variable to hold onto the `&` selector to use later

Nesting in Sass and native CSS

```
.header, .footer {  
  h2 {  
    ...  
  }  
}
```

```
/* In Sass... */
```

```
.header h2,  
.footer h2 {  
  ...  
}
```

```
/* In native CSS... */
```

```
:is(.header, .footer) h2 {  
  ...  
}
```

Concatenation in Sass

```
// This is not possible in native CSS!  
  
.main-content {  
  &__header {  
    ...  
  }  
  
  &__footer {  
    ...  
  }  
}
```

Saving the ampersand for later

```
// This is not possible in native CSS!  
  
.main-content {  
  $self: &;  
  
  &--narrow {  
    ...  
  
    ${self}__header {  
      ...  
    }  
  }  
}  
  
// Compiles to  
.main-content {...}  
.main-content--narrow {...}  
.main-content--narrow .main-content__header {...}
```

**CSS `if()` and `@function`,
the new kids on the block!**

if()

- Finally, the ability to add if statements to CSS!
- Only supported in Chromium browsers (Chrome, Edge, Opera, and others)
- Currently only supports 3 queries:
 - Media queries (`media()`)
 - Feature queries (`supports()`)
 - Style queries (`style()`)

if() example

```
.container {  
  display: grid;  
  grid-template-columns:  
    if(  
      media(width > 1440px): repeat(4, 1fr);  
      media(width > 1024px): repeat(3, 1fr);  
      media(width > 768px): repeat(2, 1fr);  
      else: 1fr;  
    );  
}
```

@function

- Now you can add basic functions to CSS!
- Also only supported in Chromium browsers currently
- You can specify data types and return types
- No early return like in PHP and JavaScript functions

Pixels to REMs using @function

```
@function --rem(--px <number>) returns <length> {  
  result: calc(var(--px) / 16)rem;  
}  
  
...  
  
h2 {  
  /* renders as 1.5rem */  
  font-size: --rem(24);  
}
```

**What if I want Sass-like
functionality on my site?**

Enter PostCSS!

What is PostCSS?

- A NodeJS tool to transpile CSS using various plugins
- Some plugins replicate what is coming from the CSSWG (CSS Working Group), acting as a polyfill of sorts until all browsers support the feature
- Other plugins replicate Sass features or other features that may never be added to the CSS specification
- Others add nice to haves to CSS

PostCSS plugins with future CSS syntax

- [postcss-custom-media](#): defines @custom-media following the [Custom Media specification](#)
- [postcss-if-function](#): Transforms the CSS `if()` function into native CSS when the browser doesn't support it
 - Only works with `media()` and `supports()`, `style()` not yet supported
- [postcss-contrast-color-function](#): follows the [CSS Color Module Level 5 specification](#)
- [postcss-preset-env](#): collection of plugins all with future CSS syntax!

PostCSS plugins that replicate Sass functionality

- [postcss-mixins](#): plugin that replicates mixin functionality in Sass
- [postcss-map-get](#): replicates Sass's map-get functionality
- [postcss-for](#): Adds `for` loops to code
- [List of PostCSS plugins](#) from the PostCSS website

PostCSS plugins with useful functionality

- [cssnano](#): CSS minifier built on top of PostCSS
- [postcss-pxtorem](#): converts px units to rem units
- [postcss-import](#): transforms import rules by inlining styles, similar to Sass partials

PostCSS in action!

PostCSS downsides

- You might get used to plugins that don't follow CSS specifications, and once those specs get added to CSS, you'll have to update your code to follow the 'real' specification.
- Having too many plugins might affect performance
- Setup can be confusing depending on the technology you use
- You might not want any tooling at all on your site

**Okay, this is great. What if I
still want to use Sass, though?**

**You can use Sass AND
native CSS together!**

Using Sass and native CSS

- You can use custom properties with Sass variables
- You might want to use CSS custom properties for most of your code, but need to switch to Sass to use mixins and maps
- Sass has its own version of `calc()` which works with Sass variables
- As of dart-sass 1.40.0, you don't need to interpolate your Sass variables to use within `calc()`!
- You can use `calc()` in Sass to get around having to use `math.div` for the division operator

So, SHOULD you still use Sass?

It depends!

Reasons to still use Sass today

- Sass isn't going away anytime soon, so use it as much as you like!
- You don't feel like native CSS has quite caught up to Sass yet
- You make use of complex mixins, functions, and maps
- You still need to support legacy browser versions
- Updating your codebase to remove Sass would be too time consuming
- If you want to!

Wrapping up...

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- **It's a great time to be a front end developer** with so many new additions to CSS:
 - Custom properties, math functions, color functions, nesting, if(), @function
- **PostCSS can enhance native CSS** by:
 - Adding CSS that might not be supported by all modern browsers
 - Adding functionality Sass supports today, such as mixins and functions
 - Adding useful functionality such as converting px to rem and CSS minification
- **You can use Sass with CSS** if you want to gradually switch your codebase from one to the other, but...
- You should still use Sass... **if you want to!**

Further reading

- [Is it time to drop Sass?](#)
- [Do not drop Sass for CSS](#)
- [Going back to CSS-only after years of SCSS](#)
- [Sass Features in CSS](#)
- [How to Use PostCSS as a Configurable Alternative to Sass](#)
- [The gotchas of CSS Nesting](#)
- [Mixing Colors with CSS](#)
- [CSS Nesting, the :is\(\) pseudo-class, and a guide to panicking about Sass](#)
- [CSS @function: Dynamic logic without Sass or JavaScript](#)
- [What You Need to Know about Modern CSS \(2025 Edition\)](#)
- [Collection of my examples on CodePen](#)

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Thank you!