



POST CSS & CSS MODULES

A background image of a musician with a beard playing a red electric guitar on stage. The image is dark and moody, with stage lights visible in the background.

HI, I'M DOUG MARCH

Not Doug Martsch (Built to Spill)

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A person is seen from the side, writing on a chalkboard. The chalkboard has the text "I DON'T HAVE A HISTORY !!!" written on it. A large, bold, white text "SOME HISTORY" is overlaid on the image.

SOME HISTORY





HTML



1996

CASCADING STYLE SHEETS

THAT'S PUNK

HOW THINGS WERE SUPPOSE TO WORK

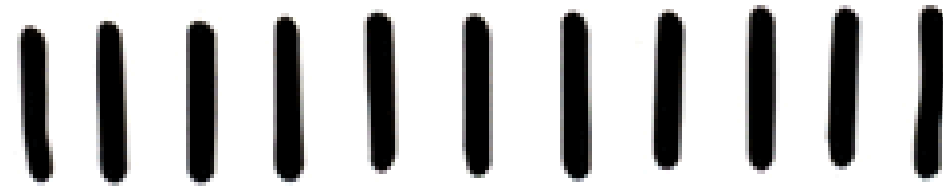


HOW THEY ACTUALLY WORKED

SPACER GIFS, TABLES FOR LAYOUT, NETSCAPE, IE, IE FOR MAC, HACKS, SHIMS AND SHIVS.



DESIGNER IS



WHAT WE CREATED TO SOLVE THE PROBLEM
SASS, SCSS, LESS, STYLUS

JUST ADDED TO THE PROBLEM

A man in a light-colored shirt is looking up at a large, glowing lampshade in a dark room. The lampshade is a large, cylindrical, light-colored object that is illuminated from within, casting a warm glow. The man is positioned in the center of the frame, looking directly at the camera. The background is dark and indistinct.

WHAT CAN SAVE US?

POSTCSS WHAT IS IT?

A blurred background image showing a group of people, likely a crowd or a team, wearing white shirts and red ties. They are all cheering with their arms raised, creating a sense of excitement and energy. The image is dark and slightly out of focus, serving as a backdrop for the white text.

PostCSS is a tool for transforming styles with JS plugins. These plugins can lint your CSS, support variables and mixins, transpile future CSS syntax, inline images, and more.

- PostCSS Website

THE GOOD
and more...

THE GOOD

- Automatic vendor prefixing
- Variables
- Nesting
- Color Conversions
- Uglify and Minify
- and more

ISN'T THIS JUST???
SASS, SCSS, LESS, STYLUS

KIND OF
THE BEAUTY IS YOU GO BACK
TO WRITING PLAIN, OLD, BORING, CSS.

FUTURE CSS

**VARIABLES, CUSTOM PROPERTIES, CALC,
MEDIA QUERY RANGES, CUSTOM SELECTORS**

... AND MORE!

Oh, btw—Bootstrap 4 will be in SCSS. And if you care, v5 will likely be in PostCSS because holy crap that sounds cool.

- Mark Otto - @mdo

THE BAD

- Yet another tool
- Dependencies, Dependencies, Dependencies
- Webpack
- Focus is on code and not the end product

IS POSTCSS THE SOLUTION?
MAYBE?

UP NEXT

CSS MODULES

REACT & WEBPACK

/my-app

- Components
 - Avatar
 - Button
 - Button.css
 - Button.story.js
 - Index.js
 - FormInput
 - FormLabel
 - FormTextarea

LOCAL SCOPE

```
require('./Button.css');
```

```
// becomes...
```

```
import styles from './Button.css';
```

```
import styles from './Button.css';

export default () => (
  <div>
    <div className="{styles.button}">...</div>
  </div>
);
```

```
// Button.css
```

```
:local(.button) [ ... ]
```

```
// Becomes:
```

```
// A Globally unique Class
```

```
._284721-gm4vaLiDzgXiJ { ... }
```


**THIS NEW FEATURE + CREATIVE THINKING
RESULTED IN CSS MODULES**

A CSS Module is a CSS file in which all class names and animation names are scoped locally by default.

```
import styles from './Button.css';

export default () => (
  <div>
    <div className="{styles.button}">...</div>
  </div>
);
```

```
.button [ ... ]
```

```
// Becomes:
```

```
// A globally unique class
```

```
.Button__button___27vnF { ... }
```

```
// Can be modified but by default
```

```
// it follows a BEM like structure
```

```
-----
```

```
// BEM = Block Element Modifier
```

```
// http://getbem.com/introduction/
```

COMPOSITION

```
.button {  
  font-family: inherit;  
  font-size: 14px;  
  font-weight: normal;  
  text-transform: uppercase;  
  color: black;  
  background-color: gray;  
}
```

```
.buttonPrimary {  
  composes: button;  
  color: white;  
  background-color: blue;  
}
```

```
// Typography.css
```

```
//-----
```

```
.bold    { font-weight: bold; }
```

```
.italic  {font-style: italic; }
```

```
// Button.css
```

```
//-----
```

```
.button {
```

```
  composes: bold italic from "../typography.css";
```

```
}
```

THE GOOD

- No more conflicts
- Explicit dependencies.
- No global scope.

THE BAD

- Yet another tool
- Dependencies, Dependencies, Dependencies
- Webpack
- Focus is on code and not the end product



QUESTIONS?



DEMO