

# Modular CSS

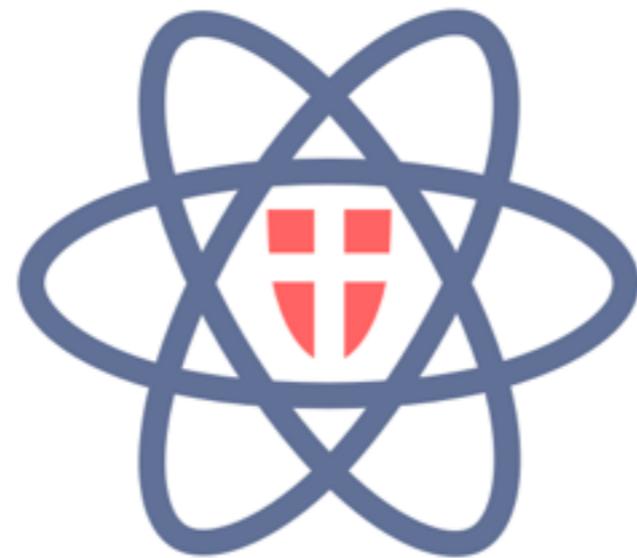
with @okonetchnikov



**Andrey Okonetchnikov**

@okonetchnikov

React



Vienna



# ColorSnapper

<http://colorsnapper.com>

# kaffemik

Zollergasse 5,  
1070 Wien



# I ❤️ Open Source

[github.com/okonet/react-dropzone](https://github.com/okonet/react-dropzone)

[github.com/okonet/lint-staged](https://github.com/okonet/lint-staged)

and many more...

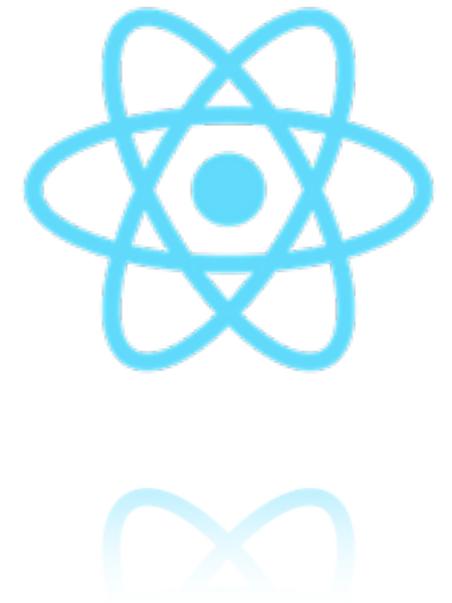
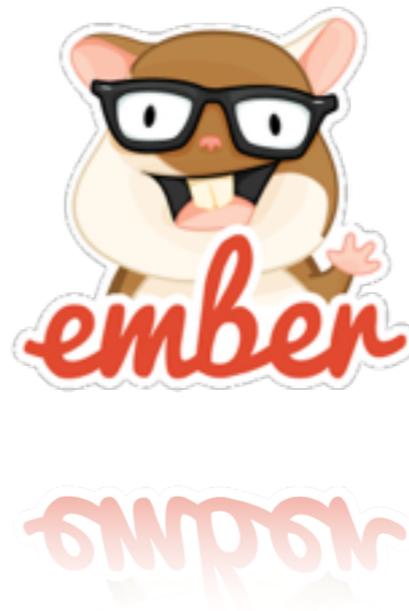
# **Modular CSS**

I design & develop  
**User Interfaces**

Building scalable  
**User Interfaces**

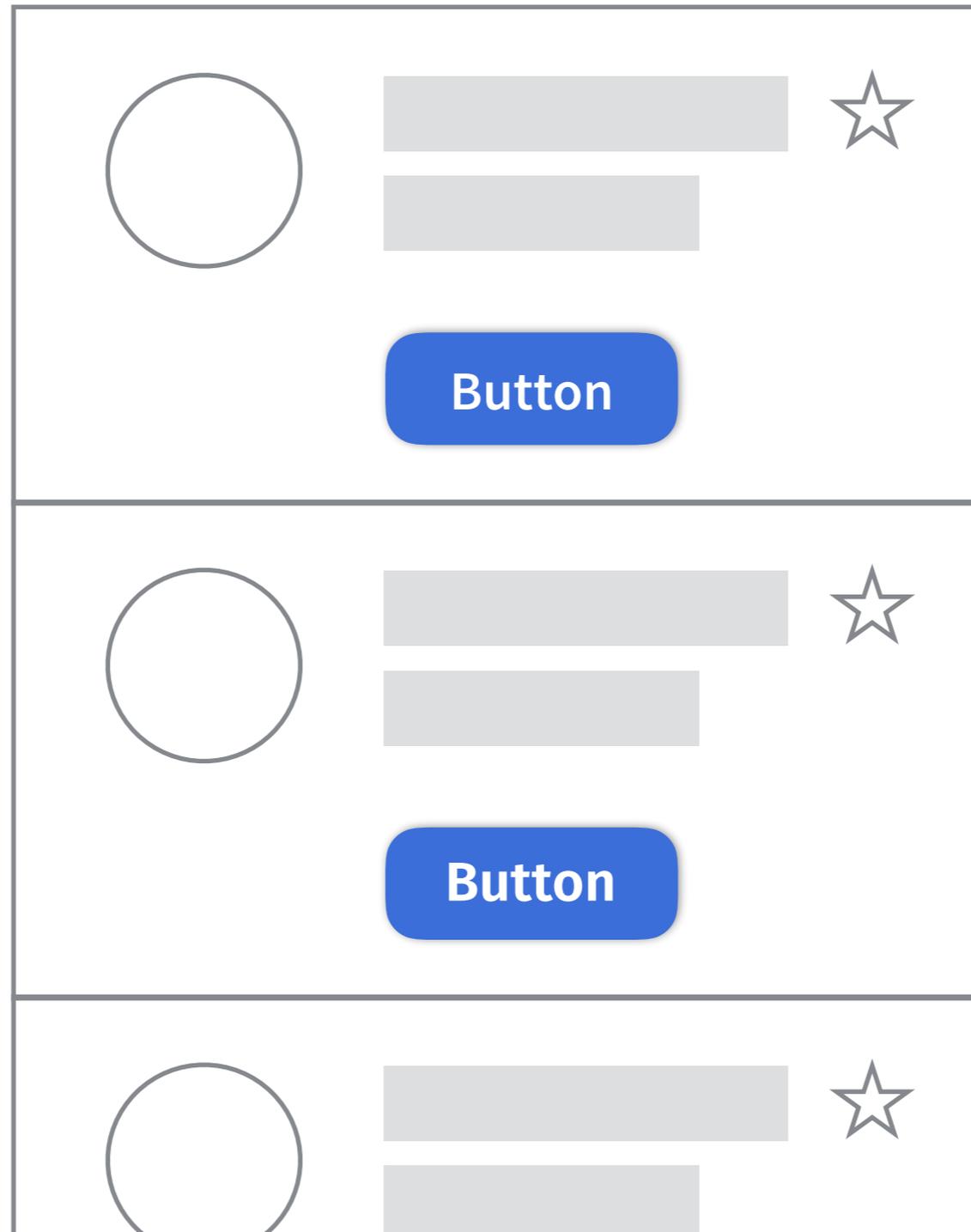
**User Interface  $\ni$  Components**

# Libraries & Frameworks using UI components

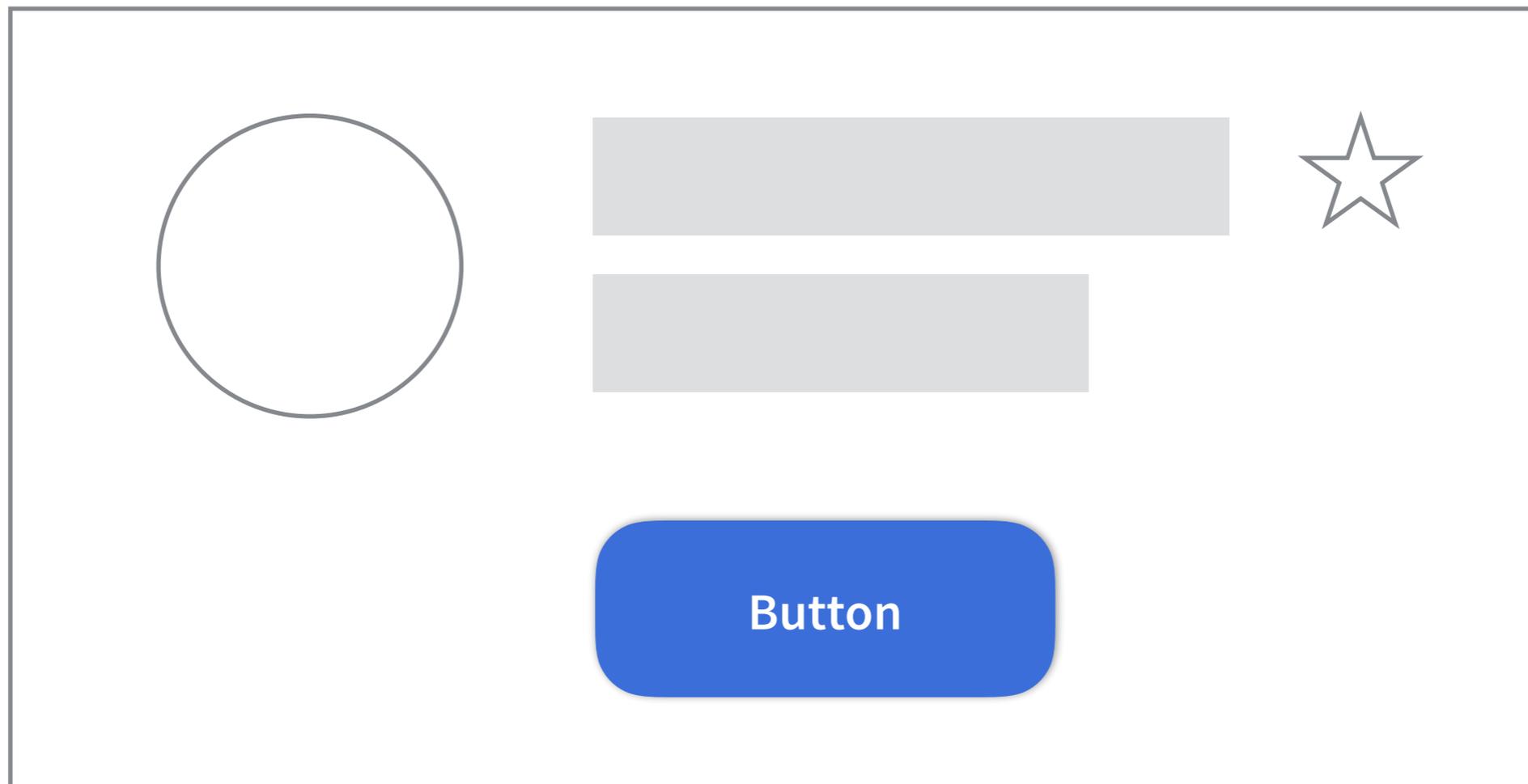


**What are  
UI Components?**

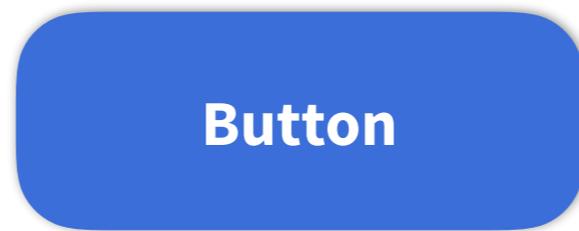
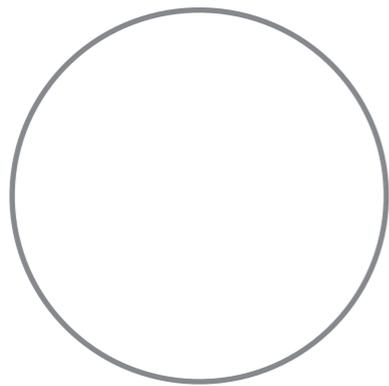
# List component



# List Item Component



# Atomic components



**Let's build a Button!**

# Button component



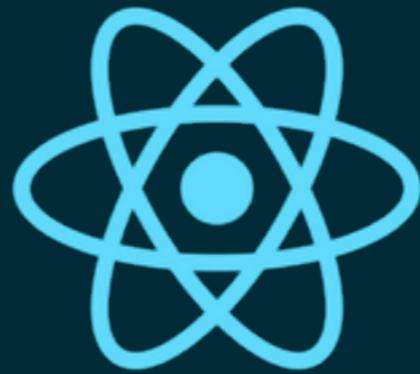
**Default**



**Disabled**



**Primary**



In React.js everything is a component!

# Button.js

```
1 const Button = ({ children }) => {  
2   return (  
3     <button  
4       type="button"  
5     >  
6       { children }  
7     </button>  
8   )  
9 }
```

# Button.js

```
1 const Button = ({ children }) => {  
2   return (  
3     <button  
4       type="button"  
5       className="btn"  
6     >  
7       <span className="label">  
8         { children }  
9       </span>  
10    </button>  
11  )  
12 }
```

# Button.js

```
1 const Button = ({ children, disabled }) => {
2   return (
3     <button
4       type="button"
5       disabled={disabled}
6       className="btn"
7     >
8       <span className="label">
9         { children }
10      </span>
11    </button>
12  )
13 }
```

# Button.js

```
1 const Button = ({ children, disabled }) => {
2   let classNames = 'btn'
3   if (disabled) classNames += ' btn--disabled'
4   return (
5     <button
6       type="button"
7       disabled={disabled}
8       className={classNames}
9     >
10      <span className="label">
11        { children }
12      </span>
13    </button>
14  )
15 }
```

# Button.js

```
1 const Button = ({ children, disabled, primary }) => {
2   let classNames = 'btn'
3   if (disabled) classNames += ' btn--disabled'
4   if (primary) classNames += ' btn--primary'
5   return (
6     <button
7       type="button"
8       disabled={disabled}
9       className={classNames}
10    >
11     <span className="label">
12       { children }
13     </span>
14   </button>
15 )
16 }
```

# Button component

Default

```
<Button>Default</Button>
```

Disabled

```
<Button disabled>Disabled</Button>
```

Primary

```
<Button primary>Primary</Button>
```

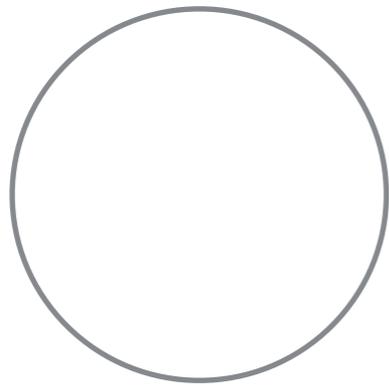
# **Anatomy of the component**

## Button

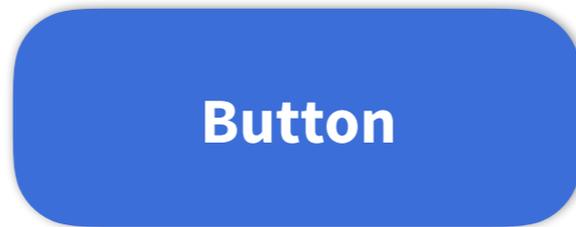
- Input
- State
- Behavior
- Styles

**f**(props) ⇒ UI

UI components should be  
*pure, self-contained &  
isolated*



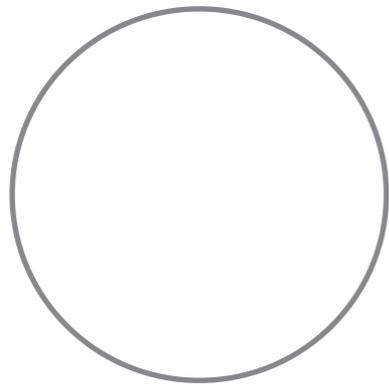
- Input
- State
- Behavior
- Styles



- Input
- State
- Behavior
- Styles



- Input
- State
- Behavior
- Styles



- Input
- State
- Behavior
- Styles

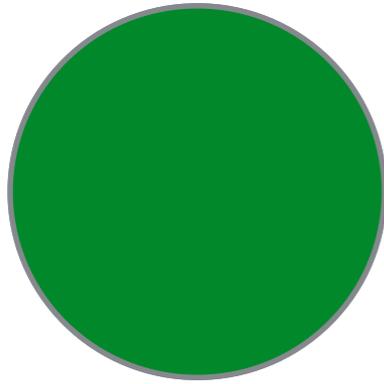


- Input
- State
- Behavior
- Styles



- Input
- State
- Behavior
- Styles

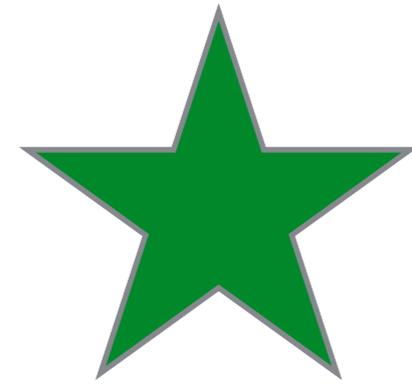
**and yet...**



- Input
- State
- Behavior



- Input
- State
- Behavior



- Input
- State
- Behavior

Global styles



**CSS is to blame?**



ESS

Global  
HD

# Problems with CSS on scale

- ⊘ Disconnected from component's code
- ⊘ Implicit dependencies
- ⊘ No styles isolation
- ⊘ Constants sharing
- ⊘ Minification

**What can *we* do  
about it?**

# Where is my CSS?

```
1  const Button = ({ children }) => {  
2    return (  
3      <button  
4        type="button"  
5        className="btn"  
6      >  
7        <span className="label">  
8          { children }  
9        </span>  
10     </button>  
11   )  
12 }
```

# Where is my CSS?

```
1  const Button = ({ children }) => {
2    return (
3      <button
4        type="button"
5        className="btn" ←————— Where is this class coming from?
6      >
7        <span className="label">
8          { children }
9        </span>
10     </button>
11   )
12 }
```

application.css

```
21   clear: both;
22 }
23 .hide-text {
24   font: 0/0 a;
25   color: transparent;
26   text-shadow: none;
27   background-color: transparent;
28   border: 0;
29 }
30 .input-block-level {
31   display: block;
32   width: 100%;
33   min-height: 30px;
34   -webkit-box-sizing: border-box;
35   -moz-box-sizing: border-box;
36   box-sizing: border-box;
37 }
38 /*-----*/
39
40 [Typography Styles]
41
42 -----*/
43 h1,
44 h2,
45 h3,
46 h4,
47 h5,
48 h6 {
49   margin-top: 0;
50   font-weight: 600;
51 }
```

# Let's search quickly...

A dark, rectangular monolith stands in a rocky, desert-like landscape under a sunset sky. The monolith is positioned in the center-left of the frame, casting a shadow on the ground. The background features a horizon with a warm, orange glow from the setting sun, and a sky with scattered, light-colored clouds. The foreground is composed of dark, jagged rock formations.

**CSS Monolith!**

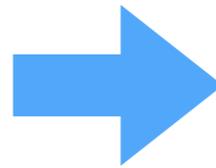
A photograph of a person's bare foot resting on a rectangular piece of light-colored, vertically striped fabric. The fabric is laid flat on a light-colored wooden floor. The text 'application.css' is overlaid in a large, bold, black font across the center of the image, partially covering the foot and the fabric. The fabric has frayed edges and some loose threads.

**application.css**

# 1. Split code

# Components > Files

```
public  
├── images  
│   └── icon.svg  
├── javascripts  
│   └── application.js  
└── stylesheets  
    └── application.css
```



```
public  
├── images  
│   └── icon.svg  
├── javascripts  
│   ├── Button.js  
│   └── Dropdown.js  
└── stylesheets  
    ├── Buttons.css  
    └── Dropdown.css
```

# 1. Split & co-locate

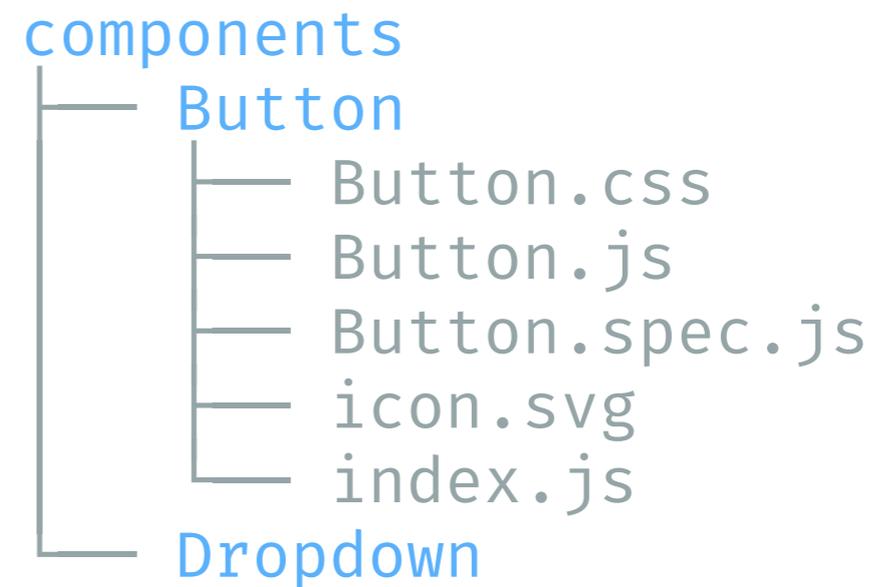
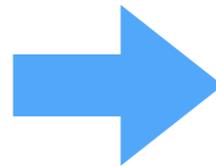
# Separation of concerns?

```
public
├── images
│   └── icon.svg
├── javascripts
│   ├── Button.js
│   └── Dropdown.js
└── stylesheets
    ├── Buttons.css
    └── Dropdown.css
```

# Separation of ~~concerns~~ technologies

```
public
├── images
│   └── icon.svg
├── javascripts
│   ├── Button.js
│   └── Dropdown.js
└── stylesheets
    ├── Buttons.css
    └── Dropdown.css
```

# Separation of concerns



# **2. Dependencies**

# Explicit dependencies

```
1 import './Button.css'
2
3 const Button = ({ children, disabled, primary }) => {
4   let classNames = 'btn'
5   if (disabled) classNames += ' btn-disabled'
6   if (primary) classNames += ' btn-primary'
7   return (
8     <button
9       type="button"
10      disabled={disabled}
11      className={classNames}
12    >
13      <span className="btn_label">
14        { children }
15      </span>
16    </button>
17  )
18 }
19 export default Button
```



**AH, NOT SO FAST.**

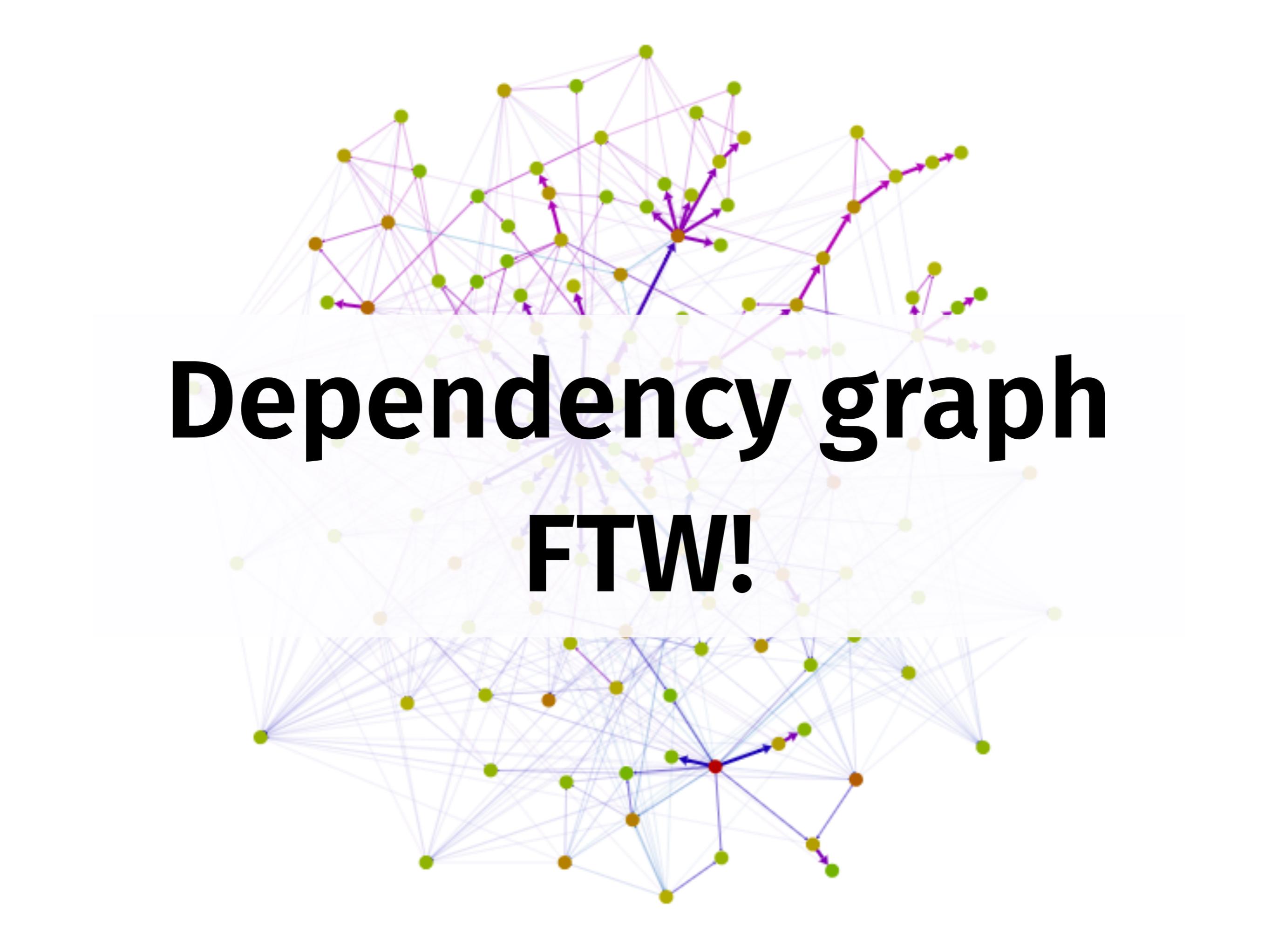
1. We can't require CSS in JS

2. Browsers expect `<link>`  
and `<script>` tags

3. We should minimize the number of `*.css` and `*.js` requests

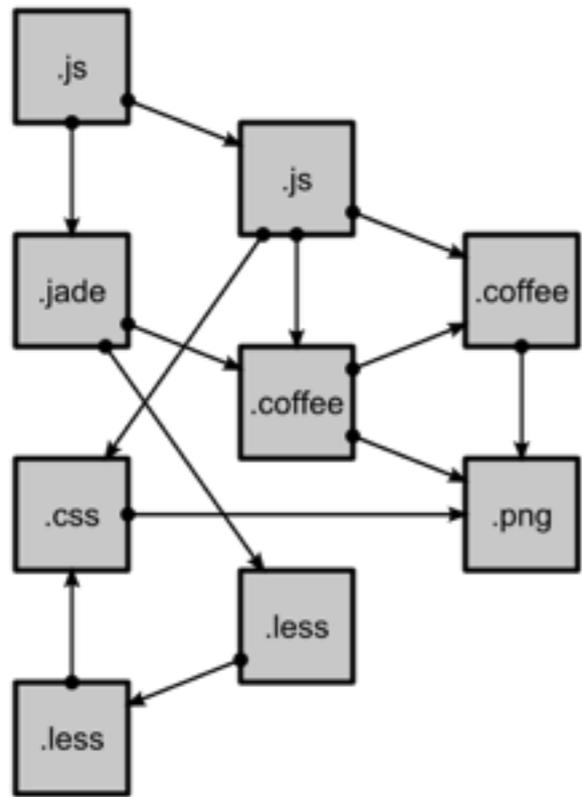
# Common build tools operate on *file trees*



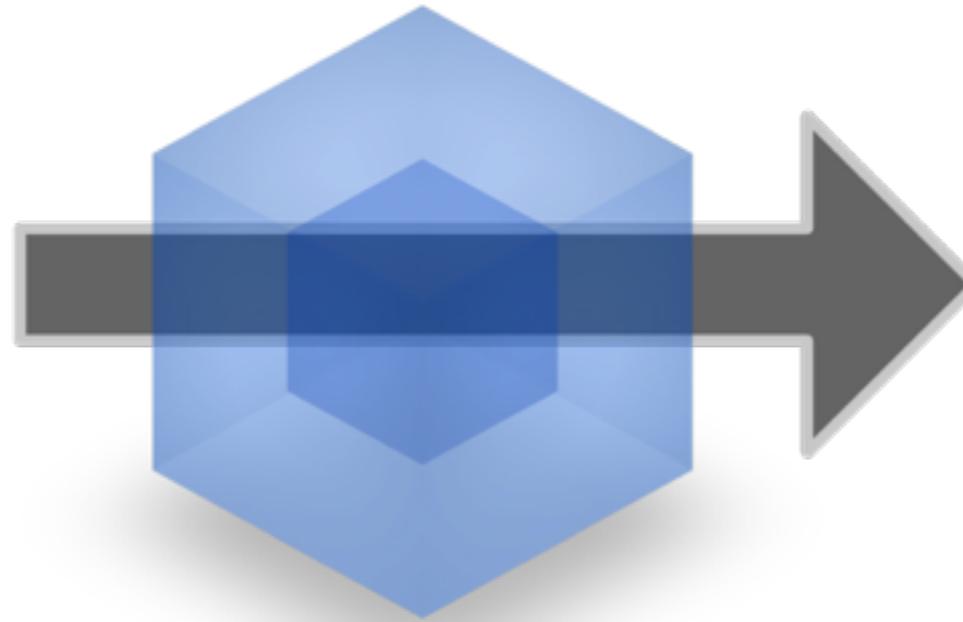
A complex dependency graph with nodes and edges, overlaid with a semi-transparent white box containing text. The graph consists of numerous nodes, some colored green, orange, and purple, connected by thin lines. A central node is highlighted with a purple arrow pointing towards it. The text "Dependency graph" is written in a large, bold, black font across the middle of the image.

# Dependency graph

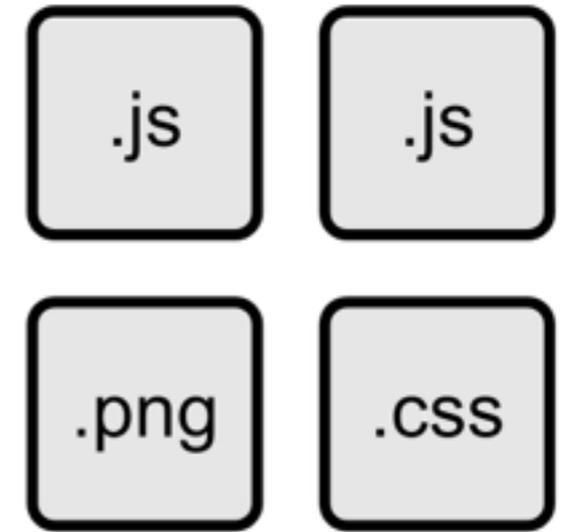
**FTW!**



modules  
with dependencies



**webpack**  
MODULE BUNDLER



static  
assets

<http://webpack.github.io/>

# Allow requiring CSS with Webpack

```
module.exports = {  
  module: {  
    loaders: [  
      { test: /\.css$/, loader: "style-loader!css-loader" },  
      { test: /\.png$/, loader: "url-loader?limit=10000" },  
      { test: /\.js$/, loader: "babel-loader" }  
    ]  
  }  
};
```

- Load CSS files,
- Embed PNG images under 10Kb as Data URIs
- Transpile JS files with Babel

# Now we can just import CSS!

```
1 import './Button.css'
2
3 const Button = ({ children, disabled, primary }) => {
4   let classNames = 'btn'
5   if (disabled) classNames += ' btn-disabled'
6   if (primary) classNames += ' btn-primary'
7   return (
8     <button
9       type="button"
10      disabled={disabled}
11      className={classNames}
12    >
13      <span className="btn_label">
14        { children }
15      </span>
16    </button>
17  )
18 }
19 export default Button
```



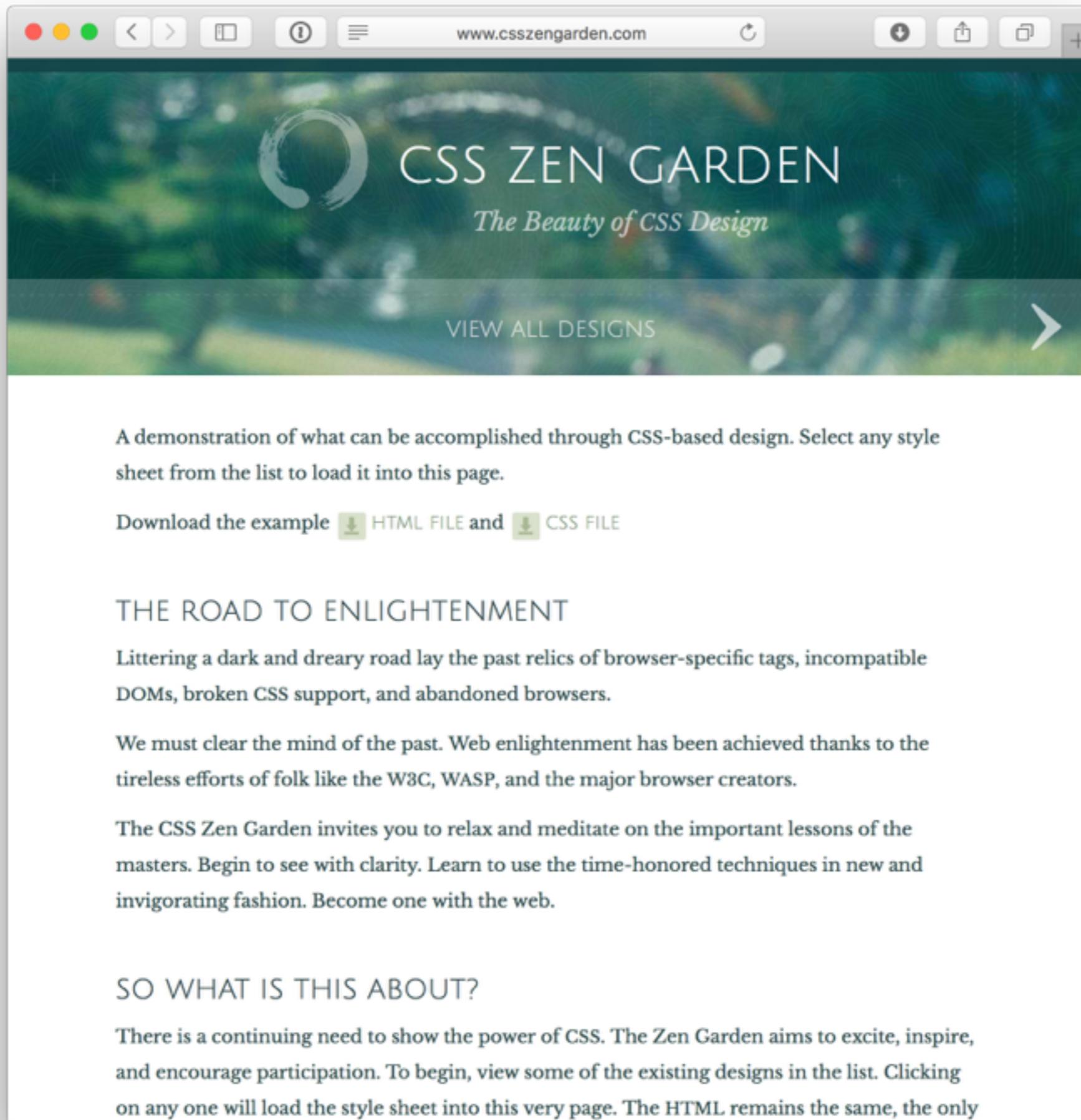
# Tips & Tricks

- ✓ Split your code by components
- ✓ One directory per UI component
- ✓ One CSS file per UI component
- ✓ Explicit dependencies
- ✓ Co-locate JS, CSS and assets

# How are we doing so far?

- ✓ Disconnected from component's code
- ✓ Implicit dependencies
- ✗ No styles isolation
- ✗ Constants sharing
- ✗ Minification

# **3. Styles isolation**



# CSS ZEN GARDEN

*The Beauty of CSS Design*

VIEW ALL DESIGNS 

A demonstration of what can be accomplished through CSS-based design. Select any style sheet from the list to load it into this page.

Download the example  HTML FILE and  CSS FILE

## THE ROAD TO ENLIGHTENMENT

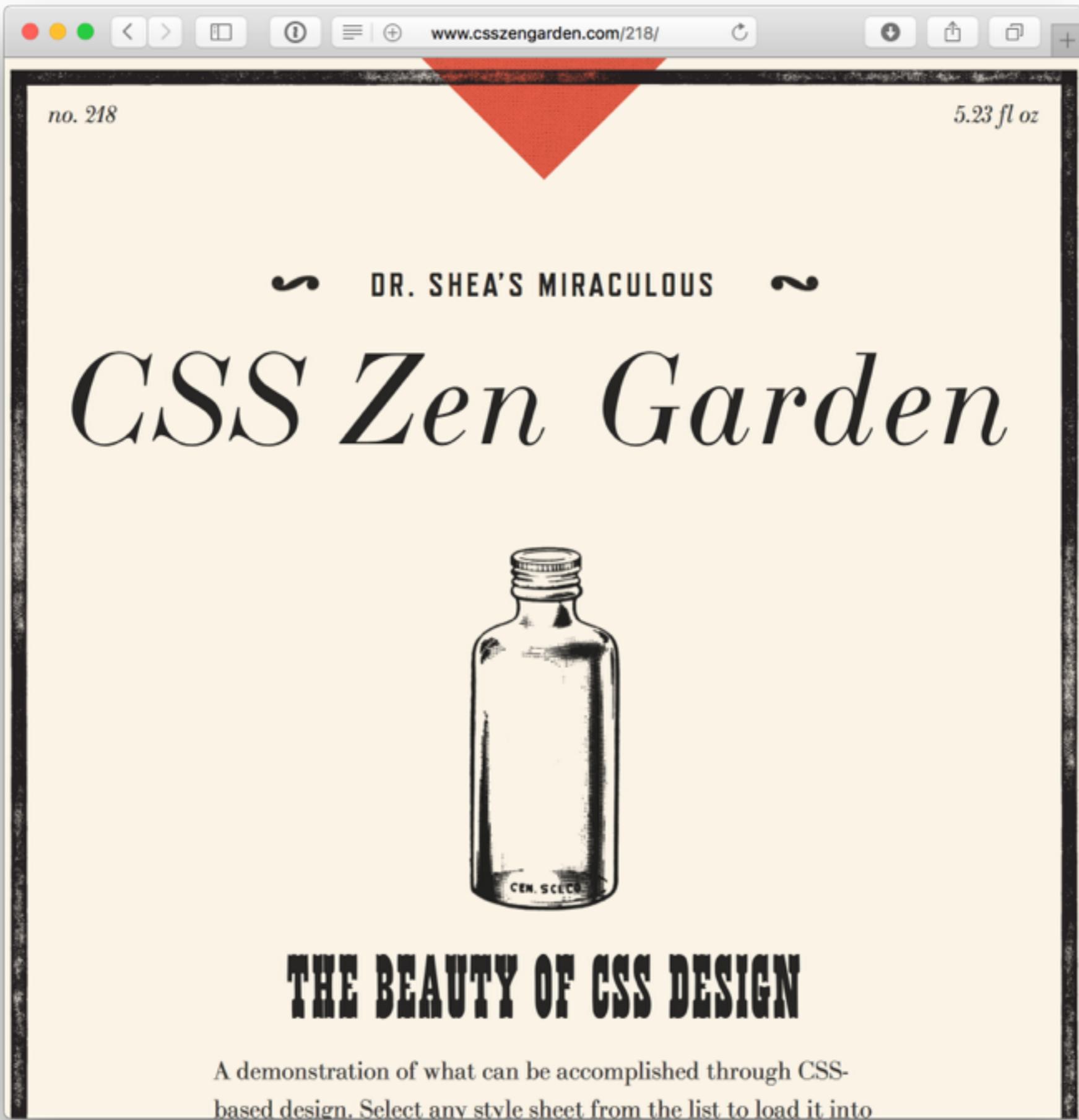
Littering a dark and dreary road lay the past relics of browser-specific tags, incompatible DOMs, broken CSS support, and abandoned browsers.

We must clear the mind of the past. Web enlightenment has been achieved thanks to the tireless efforts of folk like the W3C, WASP, and the major browser creators.

The CSS Zen Garden invites you to relax and meditate on the important lessons of the masters. Begin to see with clarity. Learn to use the time-honored techniques in new and invigorating fashion. Become one with the web.

## SO WHAT IS THIS ABOUT?

There is a continuing need to show the power of CSS. The Zen Garden aims to excite, inspire, and encourage participation. To begin, view some of the existing designs in the list. Clicking on any one will load the style sheet into this very page. The HTML remains the same, the only

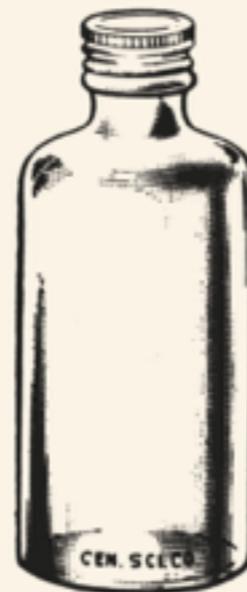


no. 218

5.23 fl oz

DR. SHEA'S MIRACULOUS

# CSS Zen Garden



## THE BEAUTY OF CSS DESIGN

A demonstration of what can be accomplished through CSS-based design. Select any style sheet from the list to load it into



CZG

MADE LOCALLY

# CSS ZEN GARMENTS

IMPECCABLE QUALITY

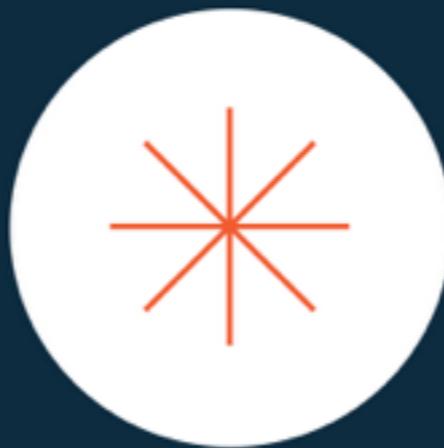
A DEMONSTRATION OF WHAT CAN BE ACCOMPLISHED THROUGH CSS-BASED DESIGN. SELECT ANY STYLE SHEET FROM THE LIST TO LOAD IT INTO THIS PAGE.





CSS Zen Garden

# The Beauty of CSS Design



A demonstration of what can be accomplished through CSS-based design. Select any style sheet from the list to load it into this page.

Download the example [html file](#) and [css file](#)



“CSS allows complete and total control over the style of a hypertext document...”

– <http://www.csszengarden.com/>

*CSS was designed for documents,  
not web-applications*

*CSS = Cascading Style Sheets*

“Three main sources of style information form a cascade. [...] The user's style modifies the browser's default style. The document author's style then modifies the style some more.”

*Designing with cascade is like  
extending the DOM with  
JavaScript!*

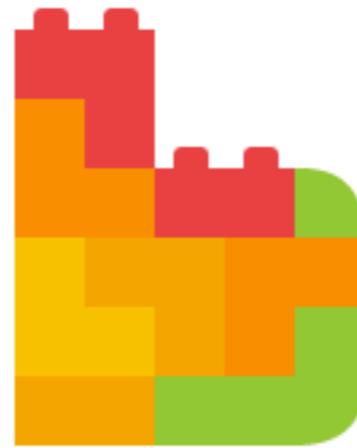
“DOM extension seemed so temptingly useful that few years ago, Prototype Javascript library made it an essential part of its architecture. But what hides behind seemingly innocuous practice is a huge load of trouble. [...] DOM extension is one of the biggest mistakes Prototype.js has ever done.”

– by @kangax

<http://perfectionkills.com/whats-wrong-with-extending-the-dom/>



Debugging CSS



# BEM

<https://en.bem.info/>

# Naming convention

methodology

Working with [BEM entities](#) requires a knowledge of their naming rules.

The main idea of the naming convention is to make names of CSS selectors as informative and clear as possible. This will help make code development and debugging easier and also solve some of the problems faced by web developers.

Let's say we have a CSS selector named `menuItemvisible`. A quick view of such a notation doesn't allow us to identify types of BEM entities from the name of the selector.

# Using BEM

```
1 import './Button.css'
2
3 const Button = ({ children, disabled, primary }) => {
4   let classNames = 'Button'
5   if (disabled) classNames += ' Button--disabled'
6   if (primary) classNames += ' Button--primary'
7   return (
8     <button
9       type="button"
10      disabled={disabled}
11      className={classNames}
12    >
13      <span className="Button__label">
14        { children }
15      </span>
16    </button>
17  )
18 }
19 export default Button
```

# Using BEM

```
1 /* Button.css */  
2  
3 .Button { /* general rules */ }  
4 .Button--disabled { /* disabled rules */ }  
5 .Button--primary { /* primary rules */ }  
6 .Button__label { /* label rules */ }
```

# BEM

✓ Global namespace

✓ Cascade\*

✓ No styles isolation

✗ Not beginner friendly

✗ Very verbose

✗ Requires discipline

✗ Minification

**The End of Global CSS**

CSS selectors all exist within the same global scope.

Anyone who has worked with CSS long enough has had to come to terms with its aggressively global nature—a model clearly designed in the age of documents, now struggling to offer a sane working environment for today’s modern web applications.

Every selector has the potential to have unintended side effects by targeting unwanted elements or clashing with other selectors. More surprisingly, our selectors may even lose out in the global specificity war, ultimately having little or no effect on the page at all.

Any time we make a change to a CSS file, we need to carefully consider the global environment in which our styles will sit. No other front end technology requires so much discipline just to keep the code at a minimum level of maintainability.

But it doesn’t have to be this way.

It’s time to leave the era of global style sheets behind.

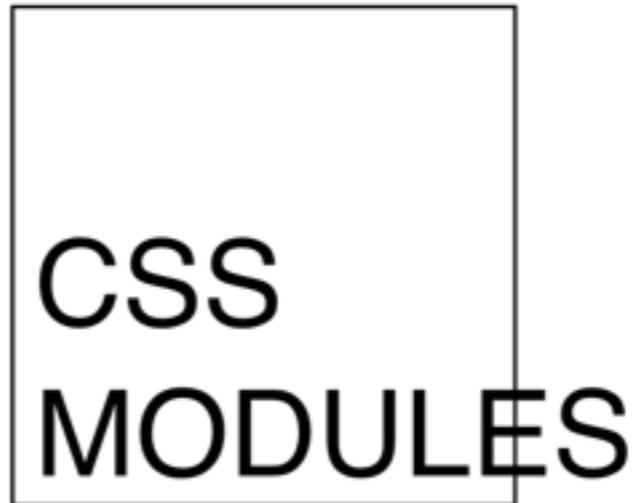
779 27

Next story  
How it feels to learn JavaScript in ...

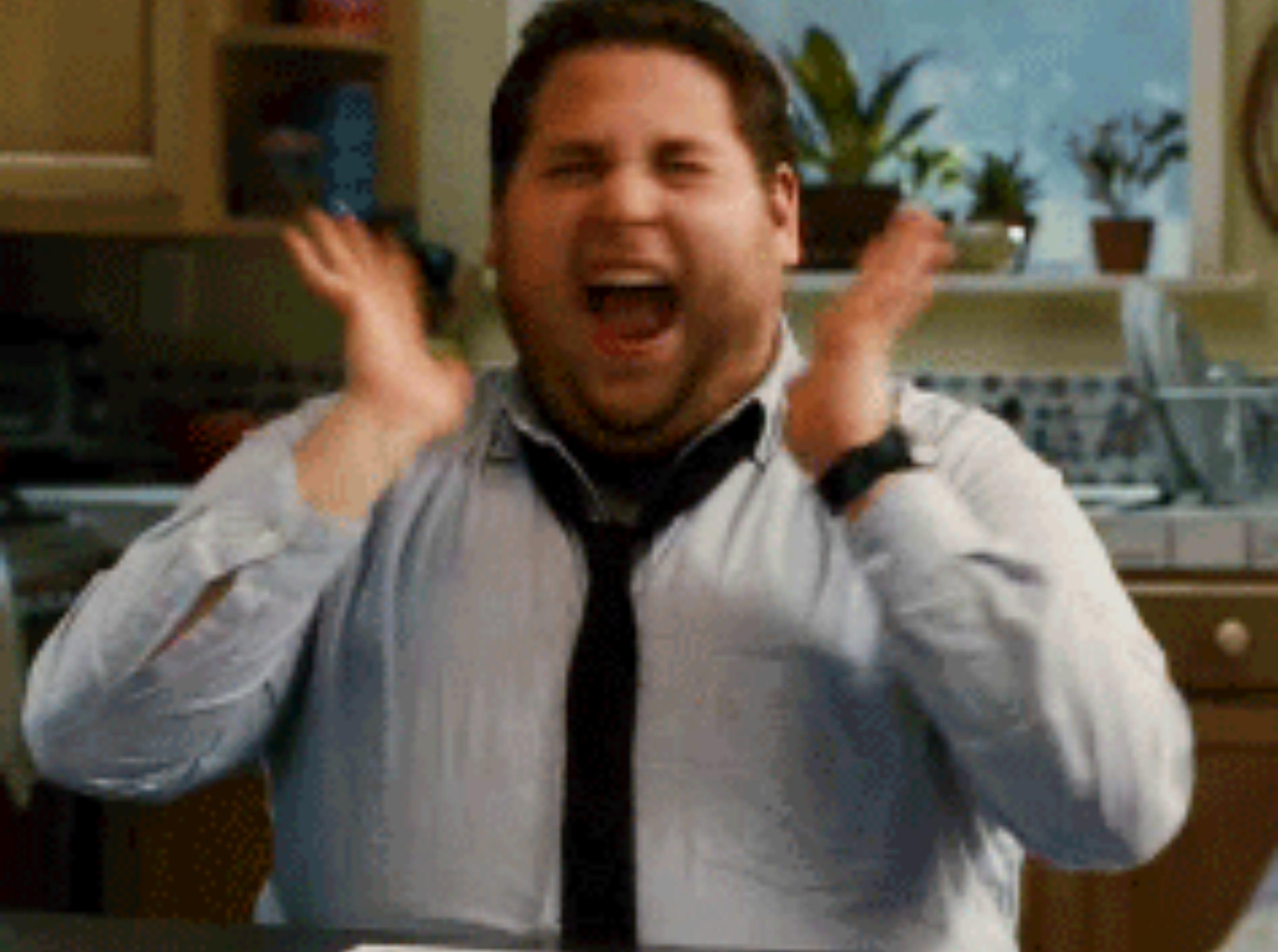


[@markdalgleish](#)

# CSS-modules



<https://github.com/css-modules/css-modules>



# **How CSS-modules work**

# Enabling CSS-modules

```
1 // webpack.config.js
2
3 module.exports = {
4   module: {
5     loaders: [
6       {
7         test: /\.css$/,
8         loader: "css"
9       }
10    ]
11  }
12 };
```

# Enabling CSS-modules

```
1 // webpack.config.js
2
3 module.exports = {
4   module: {
5     loaders: [
6       {
7         test: /\.css$/,
8         loader: "css?modules"
9       }
10    ]
11  }
12 };
```

# Before: BEM-style

```
1 /* Button.css */
2
3 .Button { /* general rules */ }
4 .Button--disabled { /* disabled rules */ }
5 .Button--primary { /* primary rules */ }
6 .Button__label { /* label rules */ }
```

# After: CSS-modules

```
1 /* Button.css */  
2  
3 .root { /* general rules */ }  
4 .disabled { /* disabled rules */ }  
5 .primary { /* primary rules */ }  
6 .label { /* label rules */ }
```

# Before: BEM-style

```
1 import './Button.css'
2
3 const Button = ({ children, disabled, primary }) => {
4   let classNames = 'Button'
5   if (disabled) classNames += ' Button--disabled'
6   if (primary) classNames += ' Button--primary'
7   return (
8     <button
9       type="button"
10      disabled={disabled}
11      className={classNames}
12    >
13      <span className="Button__label">
14        { children }
15      </span>
16    </button>
17  )
18 }
19 export default Button
```

# After: CSS-modules

```
1 import styles from './Button.css'
2
3 const Button = ({ children, disabled, primary }) => {
4   let className = {styles.root}
5   if (disabled) className = {styles.disabled}
6   if (primary) className = {styles.primary}
7   return (
8     <button
9       type="button"
10      disabled={disabled}
11      className={className}
12    >
13      <span className={styles.label}>
14        { children }
15      </span>
16    </button>
17  )
18 }
19 export default Button
```

# The result

```
<button class="Button">  
  <span class="Button__label">  
    Click me!  
  </span>  
</button>
```



```
<button class="Button_root_3fs1E">  
  <span class="Button_label_I8bKh">  
    Click me!  
  </span>  
</button>
```

# The result

```
1 /* Button.css */
2
3 .root { /* general rules */ }
4 .disabled { /* disabled rules */ }
5 .primary { /* primary rules */ }
6 .label { /* label rules */ }
```



```
1 styles: {
2   root: "Button__root__abc5436",
3   disabled: "Button__disabled__def6547",
4   primary: "Button__primary__1638bcd",
5   label: "Button__label__5dfg462"
5 }
```

# The result

```
1 import styles from './Button.css'
2
3 const Button = ({ children, disabled, primary }) => {
4   let className = {styles.root}
5   if (disabled) className = {styles.disabled}
6   if (primary) className = {styles.primary}
7   return (
8     <button
9       type="button"
10      disabled={disabled}
11      className={className}
12    >
13      <span className={styles.label}>
14        { children }
15      </span>
16    </button>
17  )
18 }
19 export default Button
```

# Prettier class names in dev

```
1 // webpack.config.js
2
3 module.exports = {
4   module: {
5     loaders: [
6       {
7         test: /\.css$/,
8         loader: "css?modules
9           &localIdentName=[name]__[local]__[hash:base64:5]"
10
11       }
12     ]
13   }
14 };
```

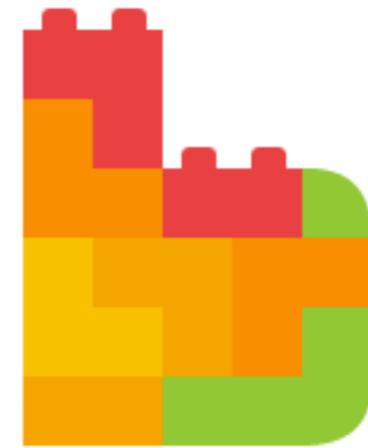
# Prettier class names in dev

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

```
/*  
styles = {  
  button: 'Button__root__3fslE',  
  label: 'Button__label__I8bKh'  
}  
*/
```

*name*      *local*      *hash*

CSS  
MODULES



**BEM for free!**

# **4. Composition & Shared constants**

# Composition with Sass

```
1 /* Button.css */  
2  
3 .Button { /* common rules */ }  
4 .Button--disabled { /* disabled rules */ }  
5 .Button--primary { /* primary rules */ }
```

# Composition with Sass

```
1 .Button--common { /* common rules */ }
2 .Button--disabled {
3   @extends .Button--common;
4   /* gray color, light background */
5 }
6 .Button--primary {
7   @extends .Button--common;
8   /* white color, blue background */
9 }
```

# Composition with Sass

```
1 .Button--common, .Button--disabled, .Button--primary {
2   /* common rules */
3 }
4 .Button--disabled {
5   /* gray color, light background */
6 }
7 .Button--primary {
8   /* white color, blue background */
9 }
```

# Composition with CSS-modules

```
1 /* Button.css */  
2  
3 .root { /* general rules */ }  
4 .disabled { /* disabled rules */ }  
5 .primary { /* primary rules */ }
```

# Composition with CSS-modules

```
1 /* Button.css */
2
3 .root { /* general rules */ }
4 .disabled {
5     composes: root;
6     /* disabled rules */
7 }
8 .primary {
9     composes: root;
10    /* primary rules */
11 }
```

# Composition with CSS-modules

```
1 styles: {  
2   root: "Button__root__abc5436",  
3   disabled: "Button__root__abc5436 Button__disabled__def6547",  
4   primary: "Button__root__abc5436 Button__primary__1638bcd"  
5 }
```

# Use only one class name!

```
1 /* Don't do this */
2 `class=${[styles.normal, styles['primary']].join(" ")}`
3
4 /* Using a single name makes a big difference */
5 `class=${styles['primary']}`
6
7 /* camelCase makes it even better */
8 `class=${styles.isPrimary}`
```

# The result

```
<button class="Button Button--primary">  
  <span class="Button__label">  
    Click me!  
  </span>  
</button>
```



```
<button class="Button_root_3fs1E Button_primary_Hf415">  
  <span class="Button_label_I8bKh">  
    Click me!  
  </span>  
</button>
```

# Compose from other files!

```
1 /* colors.css */
2 .primary {
3     background-color: #4399fa;
4 }
5 .secondary {
6     background-color: #999;
7 }
```

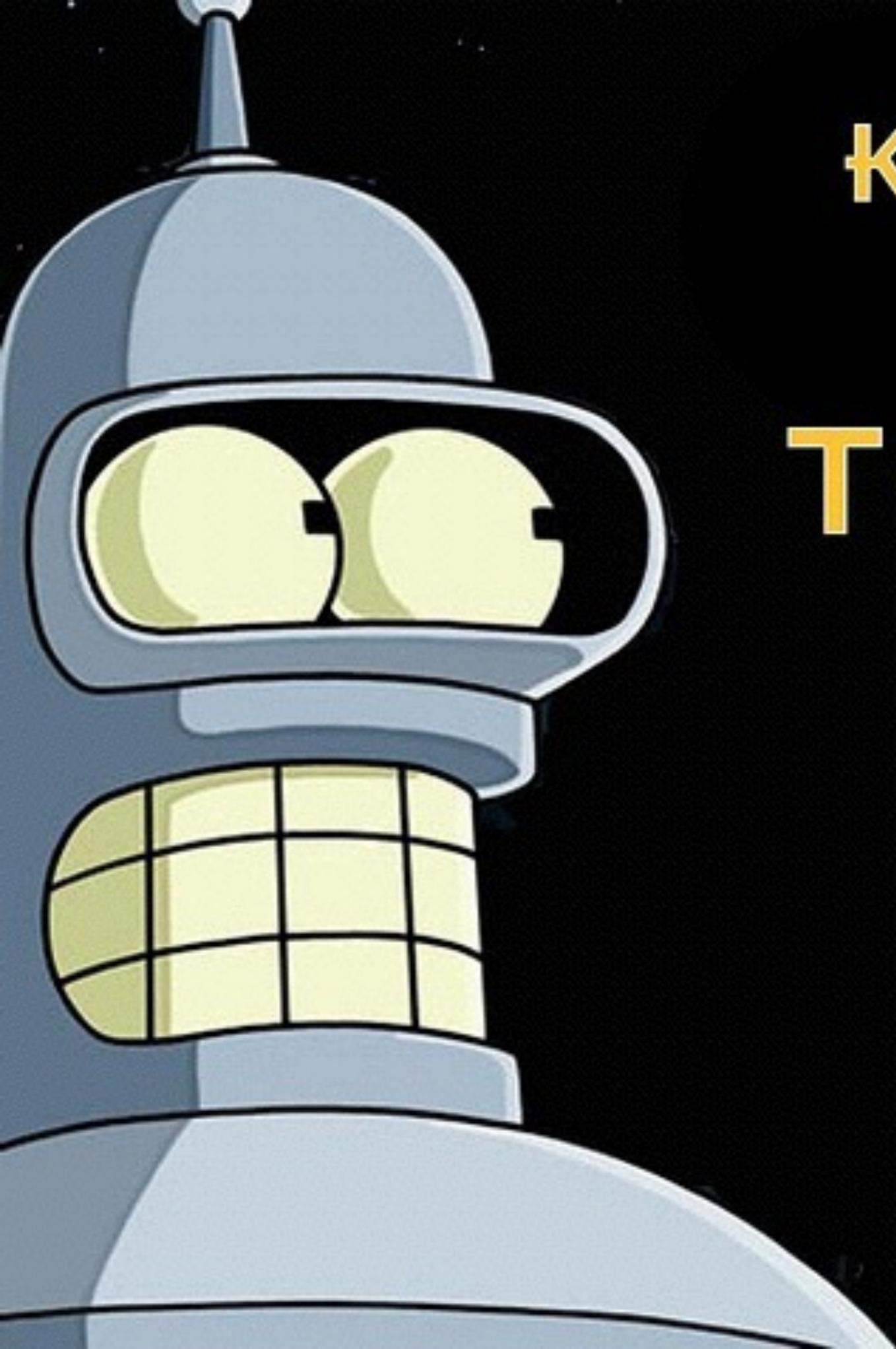
```
1 /* Button.css */
2 .root { /* general rules */ }
3 .primary {
4     composes: root;
5     composes: primary from '../colors.css';
6     /* primary rules */
7 }
```

# Or use variables!

```
/* variables.css */
@value small: (max-width: 599px);

/* component.css */
@value small from "./variables.css";

.pageContent {
  background: green;
  @media small {
    background: red;
  }
}
```



**Kill All Humans  
For A Better  
TOMORROW**

**Bender B. Rodríguez**

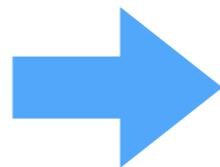
# **5. Minification**

# Minification

```
1 // webpack.config.js
2
3 module.exports = {
4   module: {
5     loaders: [
6       {
7         test: /\.css$/,
8         loader: "css?modules"
9       }
10    ]
11  }
12 };
```

# Minification

```
<button class="button">  
  <span class="label">  
    Click me!  
  </span>  
</button>
```



```
<button class="1s6s23ca312">  
  <span class="sdp9423cadg">  
    Click me!  
  </span>  
</button>
```

# Solved with CSS-modules

- ✓ Disconnected from component's code
- ✓ Implicit dependencies
- ✓ No styles isolation
- ✓ Constants sharing
- ✓ Minification

# **CSS-modules**

## **overview**

# Local by default but allow exceptions

```
.local-class {  
  color: red;  
}
```

```
:global(.prefix-modal-open) .local-class {  
  color: green;  
}
```

# Composition

```
.common {  
  /* all the common styles you want */  
}  
.normal {  
  composes: common;  
  /* anything that only applies to Normal */  
}  
.disabled {  
  composes: common;  
  /* anything that only applies to Disabled */  
}
```

# Explicit dependencies

```
.otherClassName {  
  composes: className from "./style.css";  
}
```

# Import variables

```
/* variables.css */
@value small: (max-width: 599px);

/* component.css */
@value small from "../breakpoints.scss";

.pageContent {
  background: green;
  @media small {
    background: red;
  }
}
```

# Use with pre-processors like Sass or Less

```
:global {  
  .this-is-global {  
    color: yellow;  
  }  
  .potential-collision-city {  
    color: crap;  
  }  
}
```

**Works on server, too!**

<https://github.com/css-modules/postcss-modules>





**FTW!**

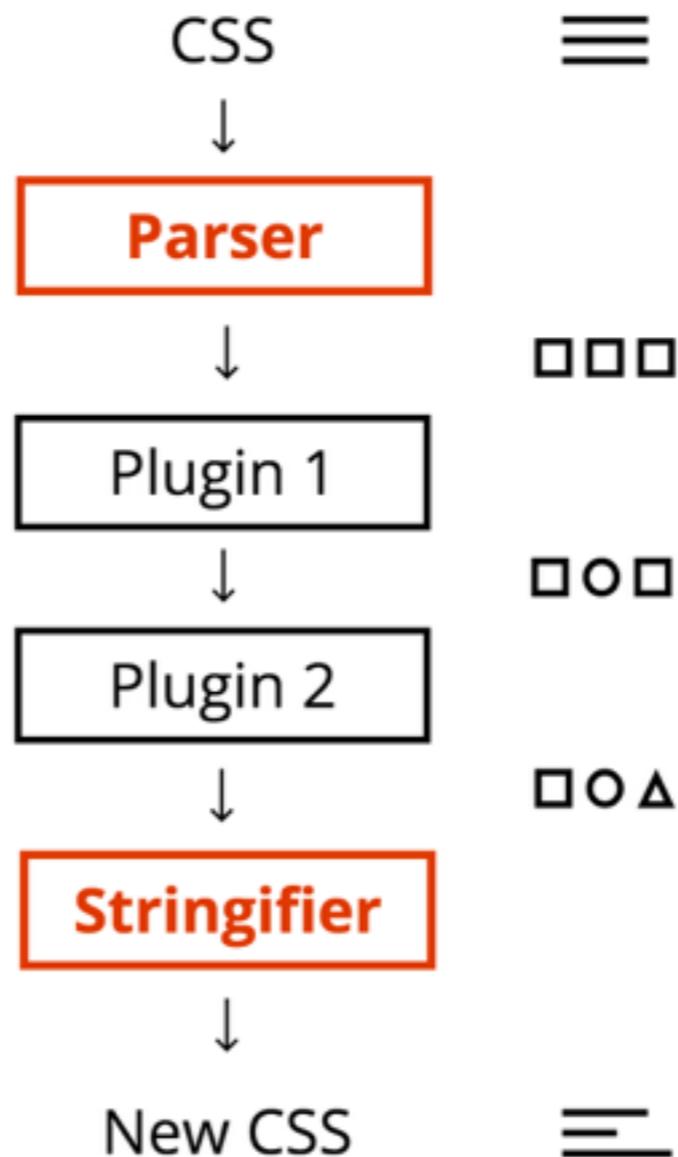


**PostCSS**

<http://postcss.org>

Like Babel, but for CSS

# How PostCSS works



**What's possible?**



# Autoprefixer

```
:full-screen {  
}
```

```
:-webkit-full-screen {  
}  
:-moz-full-screen {  
}  
:full-screen {  
}
```

# Sass/less syntax

```
.block {  
    &_title {  
        font-size: 200%;  
    }  
}  
  
.block_title {  
    font-size: 200%;  
}
```

# Browser hacks

```
.foo {  
  opacity: 0.8;  
}
```

```
.foo {  
  opacity: 0.8;  
  filter: alpha(opacity=80)\9;  
}
```

CSS  
MODULES

# Local CSS

```
.name {  
  color: gray;  
}
```

```
.Logo__name__SVK0g {  
  color: gray;  
}
```



# CSS next

```
:root {  
  --red: #d33;  
}  
a {  
  &:hover {  
    color: color(var(--red) a(54%));  
  }  
}
```

```
a:hover {  
  color: #dd3333;  
  color: rgba(221, 51, 51, 0.54);  
}
```



# Stylelint

```
a {  
  color: #4f;  
}
```

```
visual.css  
2:12 ✖ Unexpected invalid hex color "#4f"  
4:1  ⚠ Expected ".foo.bar" to have a specificity no m  
6:13 ✖ Unexpected unit "px" for property "margin"  
7:17 ✖ Expected single space after "," in a single-li
```

# PostCSS overview

1. More powerful than pre-processors thanks AST
2. ⚡ Fast (a few times faster than Sass)
3. Lots of plugins and easy to write your own
4. Tools like linting or automatic properties sorting
5. IDE Support (WebStorm, Atom, Sublime)
6. Shared constants between CSS and JS
7. Works not only with SPAs or React
8. It's just CSS\*

**How to setup**



# PostCSS

A tool for transforming CSS with JavaScript

## Increase code readability

Add vendor prefixes to CSS rules using values from Can I Use. Autoprefixer will use the data based on current browser popularity and property support to apply prefixes for you.

```
CSS input
:fullscreen {
}

CSS output
:-webkit-full-screen {
}
-moz-full-screen {
}
:full-screen {
}
```

```
CSS input
:root {
  --red: #d33;
}
```

 Use tomorrow's CSS, today!

<http://postcss.org>

# Example setup with Webpack

```
module.exports = {
  module: {
    loaders: [
      {
        test: /\.css$/,
        loader: 'style!css&importLoaders=1!postcss-loader'
      }
    ]
  },
  postcss: function() {
    return [
      require('precss'),
      require('postcss-calc'),
      require('autoprefixer')({ browsers: ['last 2 version'] })
    ];
  }
};
```

# Lint CSS as pre-commit hook

```
1 {
2   "lint-staged": {
3     "*.css": "stylelint"
4   },
5   "pre-commit": "lint-staged",
6   "stylelint": {
7     "extends": "stylelint-config-standard"
8   }
9 }
```

<https://github.com/okonet/lint-staged>

<http://postcss.parts/>

by [@mxstbr](#)

**Do I need it?**

# Do I need it?

- ✓ You work in a team
- ✓ You plan to update your CSS in the future
- ✓ You use third-party CSS and don't want to break things
- ✓ You care about code readability and reusability
- ✓ You hate manual work

# **What about CSS-in-JS**

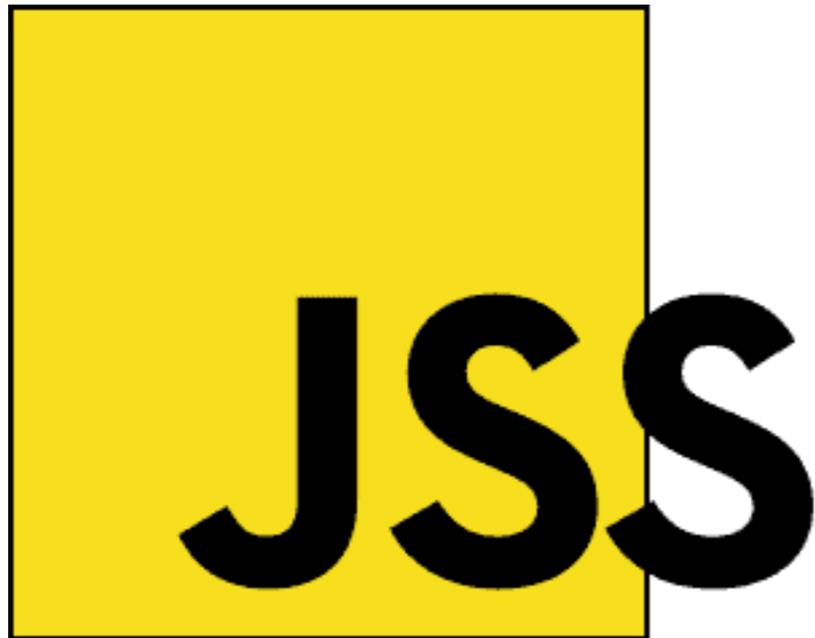
# Inline styles in JSX

- ✓ JS is more powerful
- ✓ Runtime re-calculation
- ✓ Dead code elimination
- ✗ No pseudo-selectors / media queries
- ✗ React.js-only
- ✗ Harder to debug in DevTools
- ✗ No IDE support
- ✗ No tooling

# CSS-in-JS

- ✔ JS is more powerful
- ✔ Shared variables
- ✔ Dead code elimination
- ✘ No sourcemaps\*
- ✘ No IDE support\*
- ✘ No related tools\*

# Worth checking out



by [@oleg008](#)



by [@mxstbr](#) and  
[@glennmaddern](#)

“[...] I wouldn't suggest using any CSS-in-JS tool over CSS Modules for decent-sized projects in the near term.”

– Glen Maddern

<https://github.com/css-modules/css-modules/issues/187#issuecomment-257752790>

**Final notes**

It's not about writing code,  
it's about reading it.

**Build isolated components.**

Separate concerns,  
not technologies.

Treat CSS seriously.  
It's here to stay.

Choose the right tool  
for the job.

Stay open-minded & keep  
experimenting!

**Thank you!**



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<https://github.com/okonet>