

CSS-IN-JS 🤯

MY GOAL IS TO GET YOU



From this...



To this...



Or even this.

WHY NOT JUST CSS-IN-CSS?

Implicit global scope

Easy to cause unintended consequences

CSS is primarily a document-based architecture

Cascading rules can cause problems: !important

WHAT ABOUT BEM, SASS, LESS?

DRAWBACKS

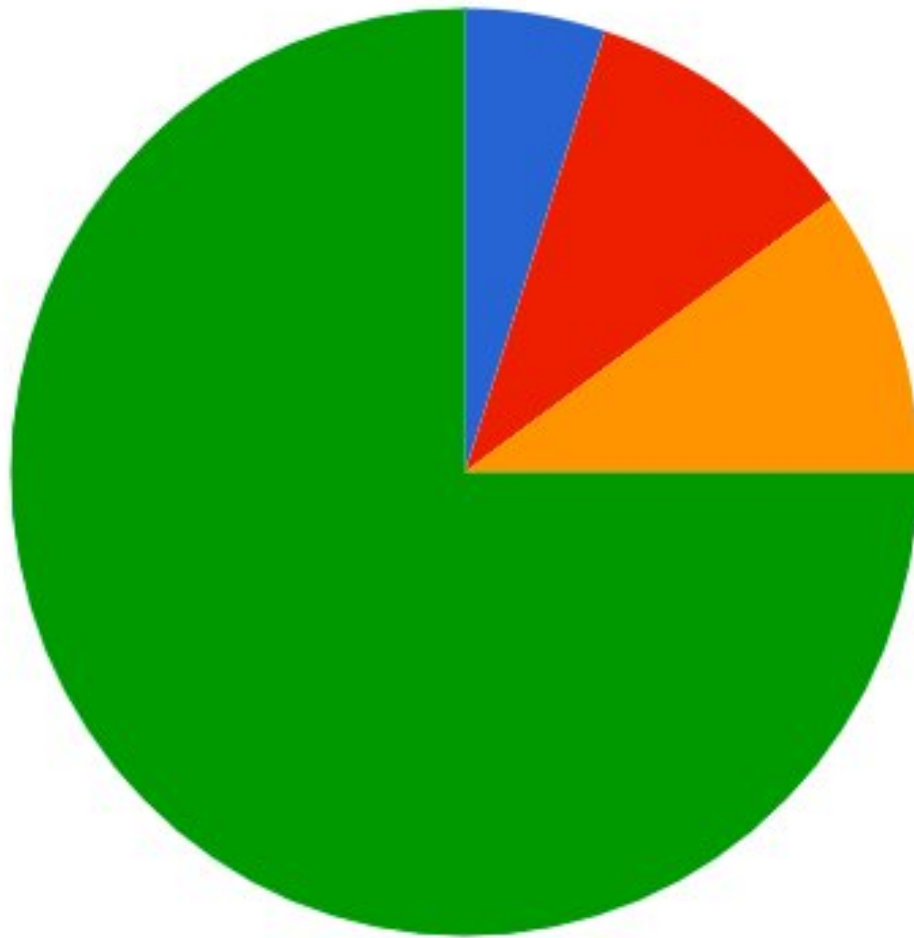
Another syntax to learn with SASS/LESS

Style still separate from our component logic

Can still have conflicts: SASS-quatch, anyone?

Hard to refactor/remove unused styles

BEM Naming Fatigue



How I spend my time writing CSS

- choosing colors
- styling text
- positioning elements
- coming up with a CSS class name

https://www.reddit.com/r/css/comments/74anpd/how_i_spend_my_time_writing_css_this_is_so_true/

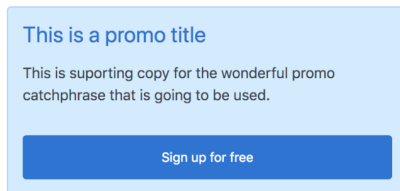
KURT'S BEM EXERCISE

https://docs.google.com/spreadsheets/d/1_Hv5EnOuPjkrd8J247uzv1PxU3qsLr1IhnSzC_wyxxl/edit#gid=0

CSS Selector Naming

Notification Component

Please reference the code example when completing the task



```
1 <section class="a">
2   <article class="b">
3     <div class="c">
4       <div class="d">
5         <div>
6           <h2 class="e">This is a promo title </h2>
7           <p class="f">
8             This is supporting copy for the wonderful
9             promo catchphrase that is going to be used.
10          </p>
11        </div>
12      </div>
13    <div class="g">
14      <a class="h">Sign up for free</a>
15    </div>
16  </div>
17 </article>
18 </section>
```

1. Define and replace each class name from the notification example

a	promo
b	promo__container
c	

CSS Selector Naming

Footer Component

Please reference the code example when completing the task

© 2016 SOME COMPANY INC., All Rights Reserved
[Language](#) [Terms of Use](#) [Privacy](#)

```
1 <footer class="a">
2   <small class="b">
3     © 2016 <b class="c">SOME COMPANY Inc</b>., All Rights Reserved
4   </small>
5   <div class="d">
6     <a class="e">Language</a>
7     <a class="f">Terms of Use</a>
8     <a class="g">Privacy</a>
9   </div>
10 </footer>
```

2. Define and replace each class name from the footer example above using BEM conventions

a	footer
b	footer__copyright-notice
c	

Footer Component

Please reference the code example when completing the task

© 2016 **SOME COMPANY INC.**, All Rights Reserved
[Language](#) [Terms of Use](#) [Privacy](#)

```
1 <footer class="a">
2   <small class="b">
3     © 2016 <b class="c">SOME COMPANY Inc</b>., All Rights Reserved
4   </small>
5   <div class="d">
6     <a class="e">Language</a>
7     <a class="f">Terms of Use</a>
8     <a class="g">Privacy</a>
9   </div>
10 </footer>
```

a	footer
b	footer_top
c	emphasis
d	footer_bottom
e	footer_action
f	footer_action
g	footer_action

a	footer
b	footer__copyright
c	footer__copyright__company
d	footer__links
e	footer__links__item
f	footer__links__item
g	footer__links__item

a	footer
b	footer_text
c	footer--useless
d	footer__links
e	footer__links__link
f	footer__links__link
g	footer__links__link

a	footer
b	footer__copyright
c	footer__company-name
d	footer__links
e	footer__language
f	footer__terms-of-use
g	footer__privacy

a	footer
b	footer__copyright
c	footer__copyright-coy
d	footer__navigation
e	footer__navigation-a
f	footer__navigation-a
g	footer__navigation-a

a	footer
b	footer__copyright-notice
c	footer__copyright-notice--bold
d	footer__links
e	footer__link
f	footer__link
g	footer__link

a	app-footer
b	app-footer__legal
d	app-footer__links
e	app-footer__link (or blank)
f	app-footer__link (or blank)
g	app-footer__link (or blank)

a	footer
b	footer__legal
c	footer__legal__company-name
d	footer__links
e	footer__links__link
f	footer__links__link
g	footer__links__link

a	footer
b	footer__copyright
c	footer__copyright__company-name
d	footer__menu
e	footer-menu__option footer-menu__option--language
f	footer-menu__option footer-menu__option--terms
g	footer-menu__option footer-menu__option--privacy

CSS Selector Naming

Notification Component

Please reference the code example when completing the task

This is a promo title

This is supporting copy for the wonderful promo catchphrase that is going to be used.

Sign up for free

```
1 <section class="a">
2   <article class="b">
3     <div class="c">
4       <div class="d">
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6           <h2 class="e">This is a promo title </h2>
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8             This is supporting copy for the wonderful
9             promo catchphrase that is going to be used.
10          </p>
11        </div>
12      </div>
13      <div class="g">
14        <a class="h">Sign up for free</a>
15      </div>
16    </div>
17  </article>
18 </section>
```

a	notification
e	notification__title
f	notification__body
g	notification__button
h	notification__button-text

a	promo
b	promo__wrapper
c	promo__content
d	????
e	promo__heading
f	promo__content
g	promo__footer
h	promo__callToAction

a	promotions
b	promotion
d	promotion__header
e	promotion__header__title
f	promotion__header__text
g	promotion__footer
h	promotion__footer__cta

a	promo-card
e	promo-card__title
f	promo-card__text
g	promo-card__btn

a	promos
b	notification
c	notification__container
d	notification__body
e	notification-body__title
f	notification-body__text
g	notification__actions
h	notification-actions__button

a	too_many_divs
b	too_too_many_divs
c	too_too_too_many_divs
d	promo
e	promo__title
f	promo__content
g	promo__actions
h	button

a	section
b	section__article
c	promo
d	promo__inner
e	promo__inner__text__title
f	promo__inner__text__desc
g	promo__inner__button
h	promo__inner__button__text

a	promo
b	promo__article
d	promo__info
e	promo__title
f	promo__description
g	promo__actions
h	promo__sign-up-button

a	weird-promotion
b	werid-promotion__article
c	weird-promotion__useless
d	weird-promotion__header-wrapper
e	weird-promotion__header
f	weird-promotion__body
g	weird-promotion__button
h	weird-promotion__button__text

a	notifications
b	notification
c	I wouldn't use this div
d	notification__copy
e	notification__title
f	notification__body
g	I wouldn't use this div
h	notification__cta

Time Spent: 00:03:48

Time Spent: 00:03:28

Time Spent: 00:11:26

Time Spent: 00:07:36

Time Spent: 00:52:20

Time Spent: 01:58:09

Time Spent: 00:09:23

Time Spent: 00:13:16

Time Spent: 00:04:28

Time Spent: 00:04:38

WHAT DID WE LEARN?

Naming things is kinda hard

More complex the markup, the more unique our selectors

Using BEM is kinda hard

BEM can be time consuming

Naming things is a problem

SO, WHAT EXACTLY IS CSS-IN-JS?

WHAT IT IS NOT

```
const styles = {  
  color: white,  
  backgroundColor: black  
};  
<p style={styles}>inline style!</p>
```

WHAT IT IS

Let's look at [styled-components](#).

[Demo](#)

SO, WHAT'S THE BIG DEAL?

Isolates styles to the component

Exposes component props

Only renders critical CSS

Reuses what's existing

Automates CSS selector naming

Dead code elimination

No additional build step

HOW DOES THIS WORK?

[Good article that does a deep dive on styled-components](#)

`styled()` is a component factory

on `componentWillMount()`, the template literal is evaluated

The style strings are hashed into a unique identifier using [MurmurHash](#)

That hash value and style strings are turned into a CSS stylesheet using [Stylis](#)

THIS

```
const Text = styled.div`  
  color: white,  
  background: black  
`
```

```
<Text>Hello CSS-in-JS</Text>
```

BECOMES

```
<head>
```

```
<style>
```

```
  .jsZVzX {
```

```
    color: white;
```

```
    background: black;
```

```
  }
```

```
</style>
```

```
</head>
```

```
...
```

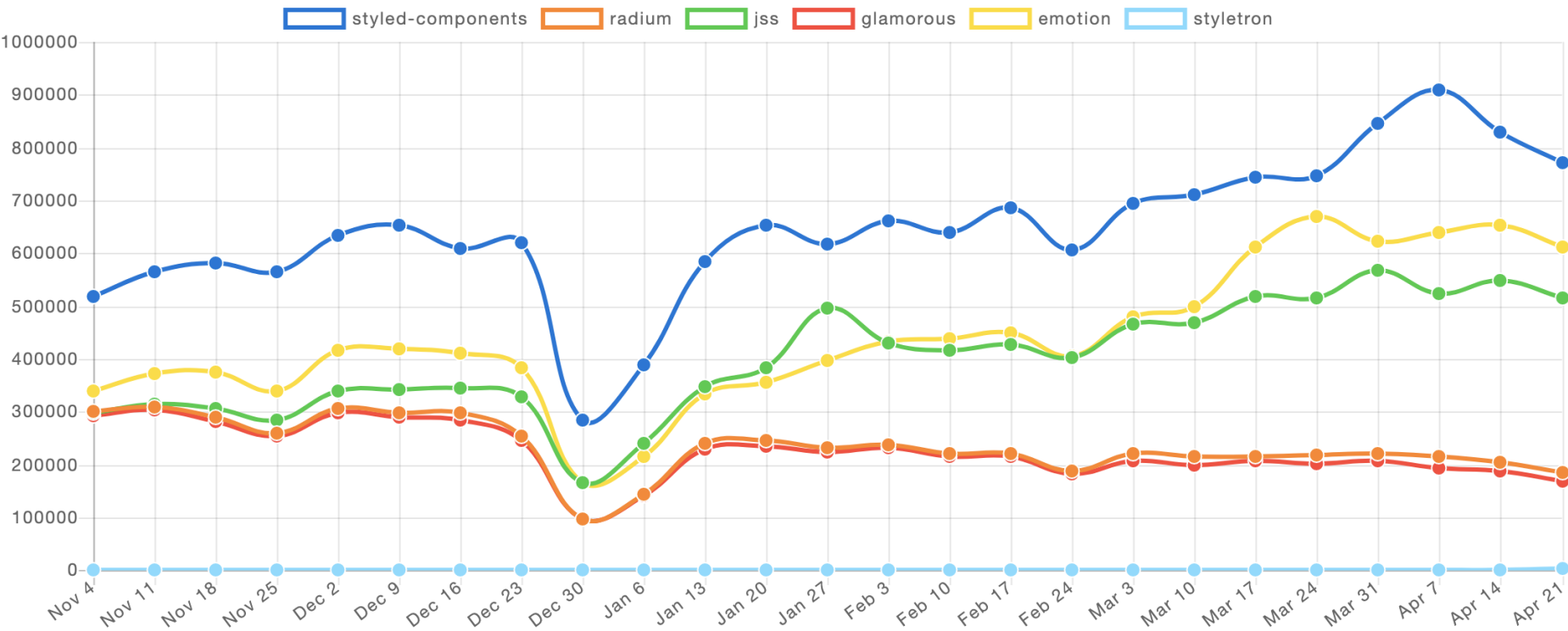
```
...
```

```
<div class="sc-bdVaJa jsZVzX">Hello CSS-in-JS</div>
```

OTHER CSS-IN-JS OPTIONS

- Emotion
- Glamorous
- JSS

Downloads in past 6 Months ▾



[NPM Trends](#)

SOME ALTERNATIVE APPROACHES

- **CSS Modules**
- **LitElement** - Shadow DOM

A historical photograph of the atomic bombing of Nagasaki on August 9, 1945. The image shows a massive, bright white mushroom cloud rising from the city, with a large, billowing white cap and a thick, dark column of smoke and debris at its base. The surrounding landscape is visible in shades of brown and orange, indicating the destruction of the city.

That's all folks.