

Modular Design

Developing, Maintaining, and Extending
Component-Based CSS

The Current State of CSS

BEM

SMACSS

OOCSS

Utility Classes

Methodology - Hierarchy

Globals

Simplified Pattern Lab model

One to one relationships

Unidirectional Hierarchy

Our File Structure

```
|-- CSS
  |-- atoms
    |-- _button.scss...
  |-- molecules
    |-- _bitlink-item.scss...
  |-- templates
    |-- _layout.scss...
  |-- globals
    |-- _colors.scss
    |-- _fonts.scss
    |-- _reset.scss...
```

Methodology - Components

Parts of a component:




Name

Children

Nested Components

Aspect

Our Component

BITLINKS	
34 Bitlinks	Sorted by Date
DEC 29	
Eloquent JavaScript	
bit.ly/10XqsR4	0 
DEC 29	
Generating SVG With React – Smashing Magazine	
bit.ly/22wQyEu	0 
DEC 29	
Interaction is an Enhancement	
bit.ly/1motQNK	0 



Our Component

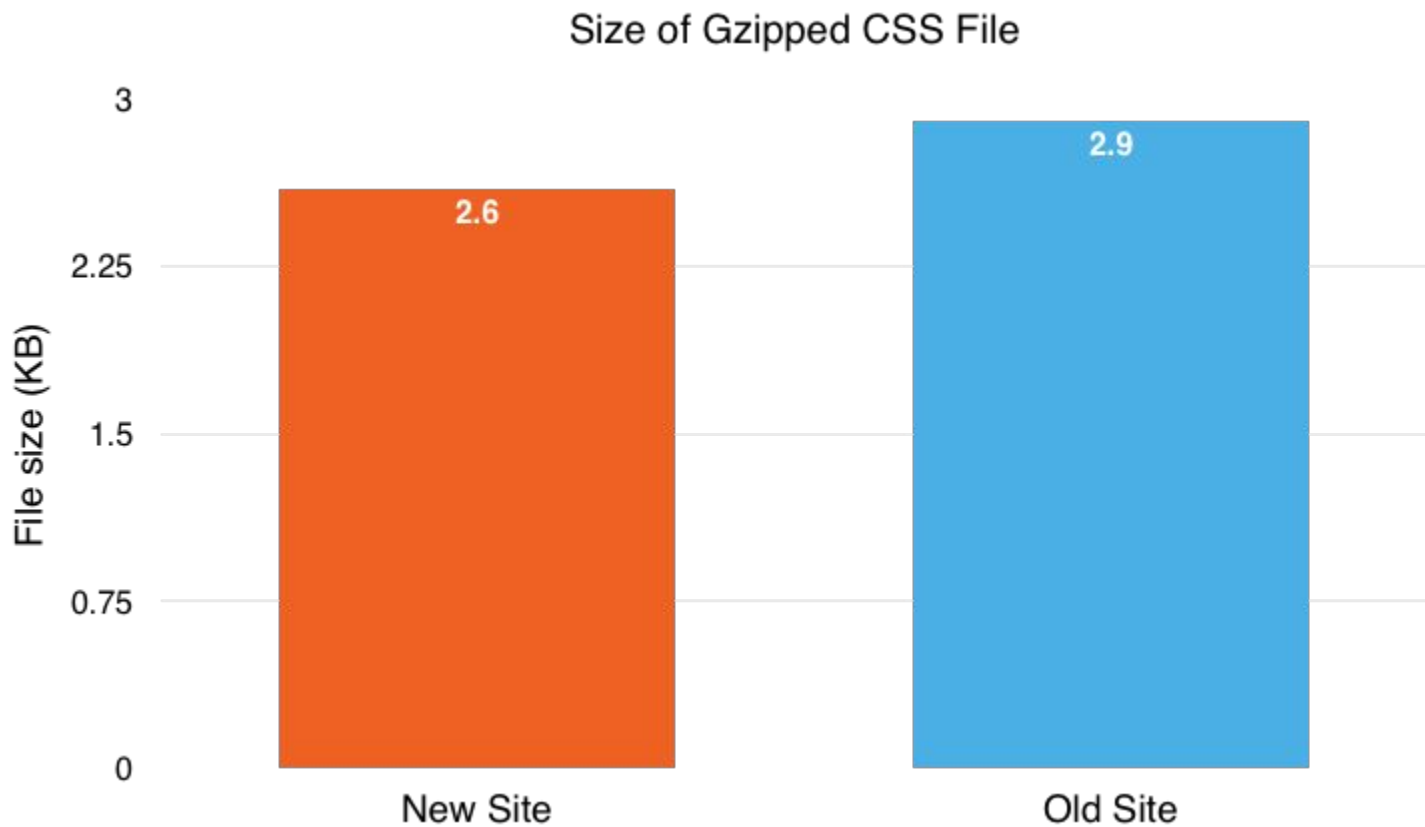
```
<div class='bitlink-item--ACTIVE'>
  <time class='bitlink-item--created-date'> Nov 23rd </time>
  <div class='bitlink-item--title'>Hello World</div>
  <BitlinkLink/>
  <span className='bitlink-item--click-count'> 1,234
    <Icon/>
  </span>
</div>
```

Our Sass

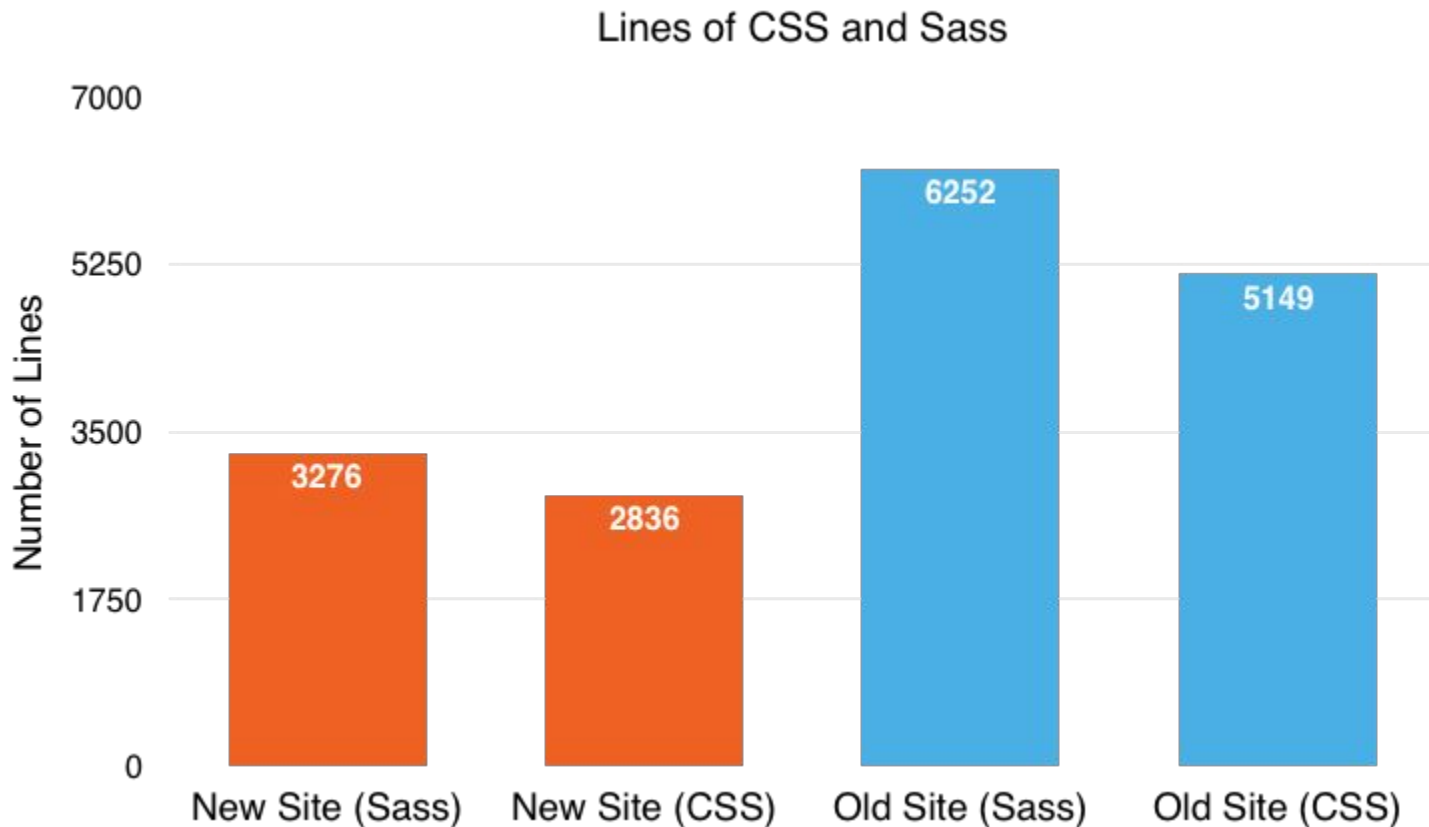
```
%bitlink-item--default {
  padding: 1.5rem 2.75rem 1.2rem;
  border-top: $border-style;
  position: relative;
  text-decoration: none;
  display: block;
  .checkbox--SMALL{
    position: absolute;
    top: 3.2rem;
    left: 2.6rem;
  }
  .icon--TAG {
    color: $gray-1;
    float: right;
  }
  .bitlink--MAIN {
    display: inline-block;
    outline: none;
    width: calc(100% - 7rem);
    overflow: hidden;
    text-overflow: ellipsis;
  }
}
```

```
.bitlink-item--MAIN {
  @extend %bitlink-item--default;
  background-color: $gray-3;
}
.bitlink-item--ACTIVE {
  @extend %bitlink-item--default;
  background-color: $white;
}
.bitlink-item--created-date {
  @include h6--small;
}
.bitlink-item--title {
  @include h4;
  margin-bottom: 1.25rem;
  word-wrap: break-word;
  height: 4.5rem;
  overflow: hidden;
  -webkit-line-clamp: 2;
  display: -webkit-box;
  -webkit-box-orient: vertical;
}
```

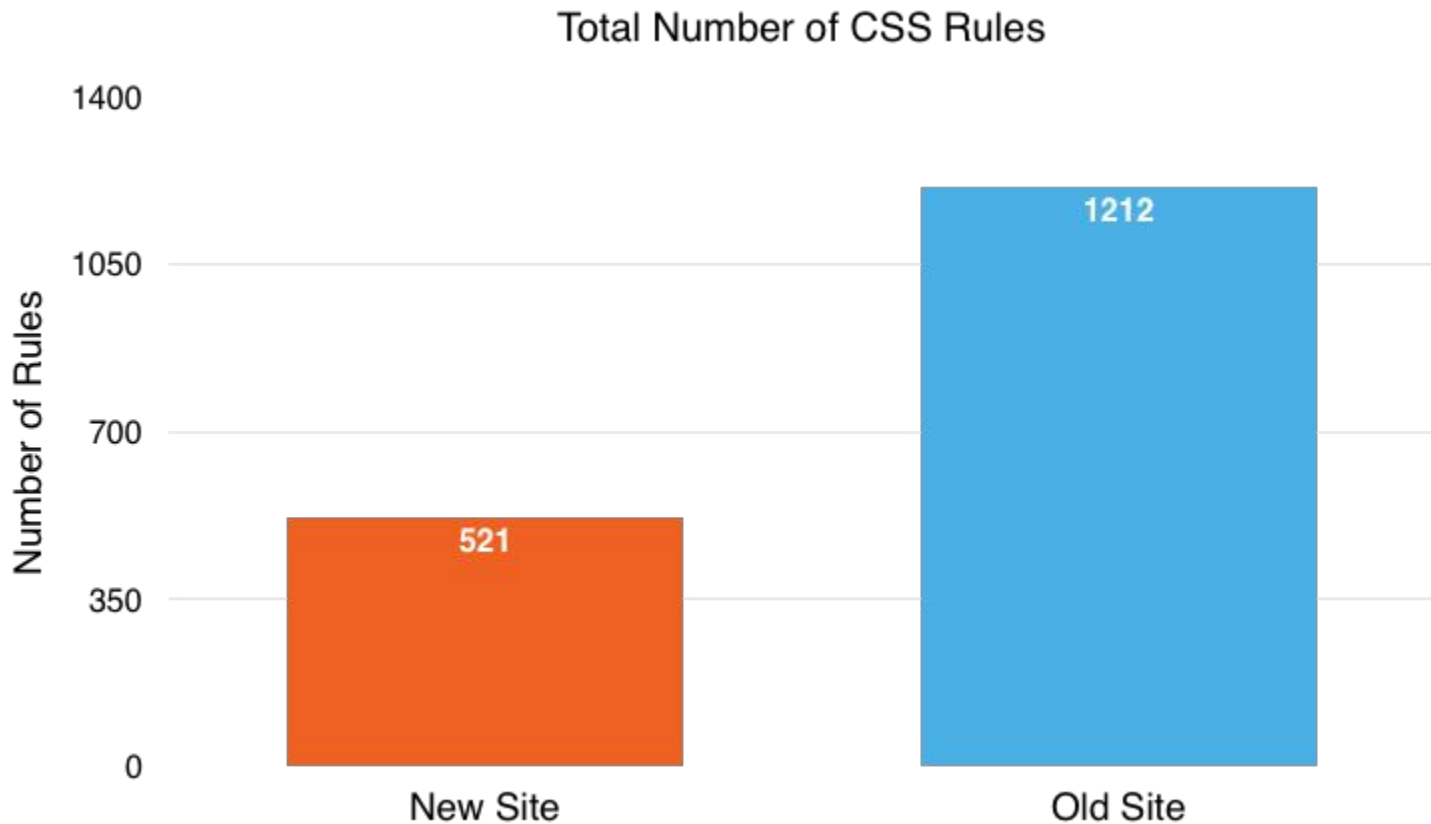

The Stats



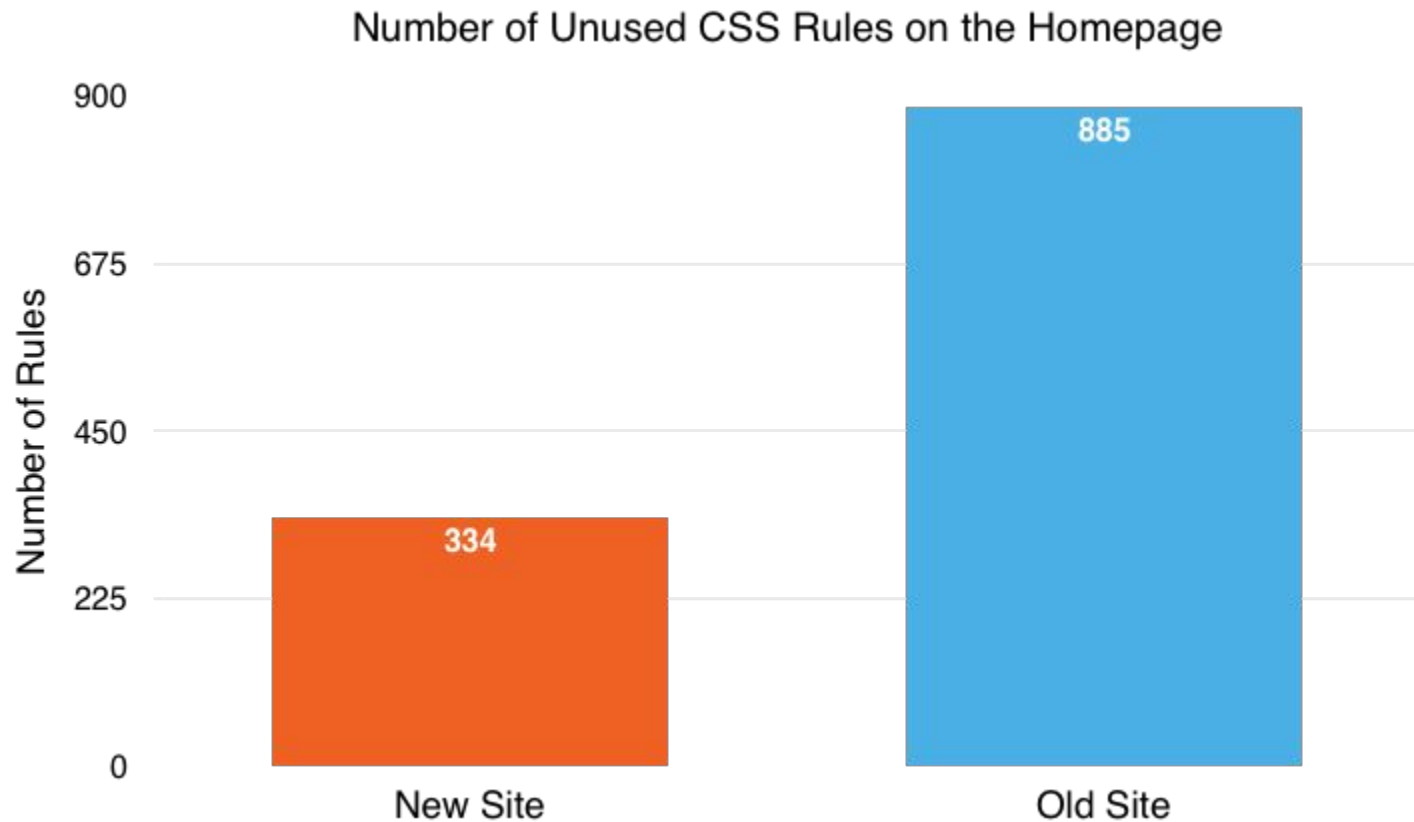
The Stats



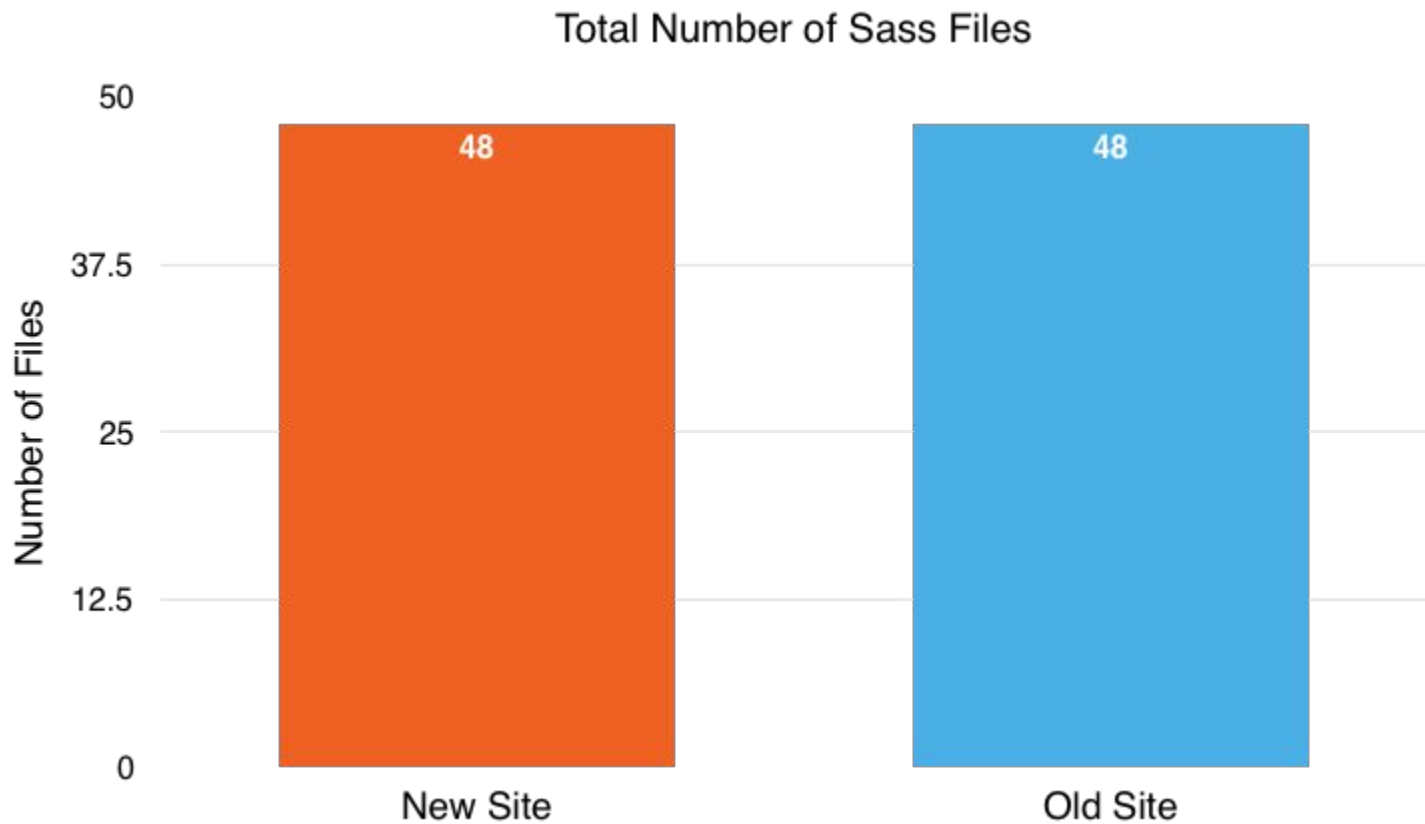
The Stats



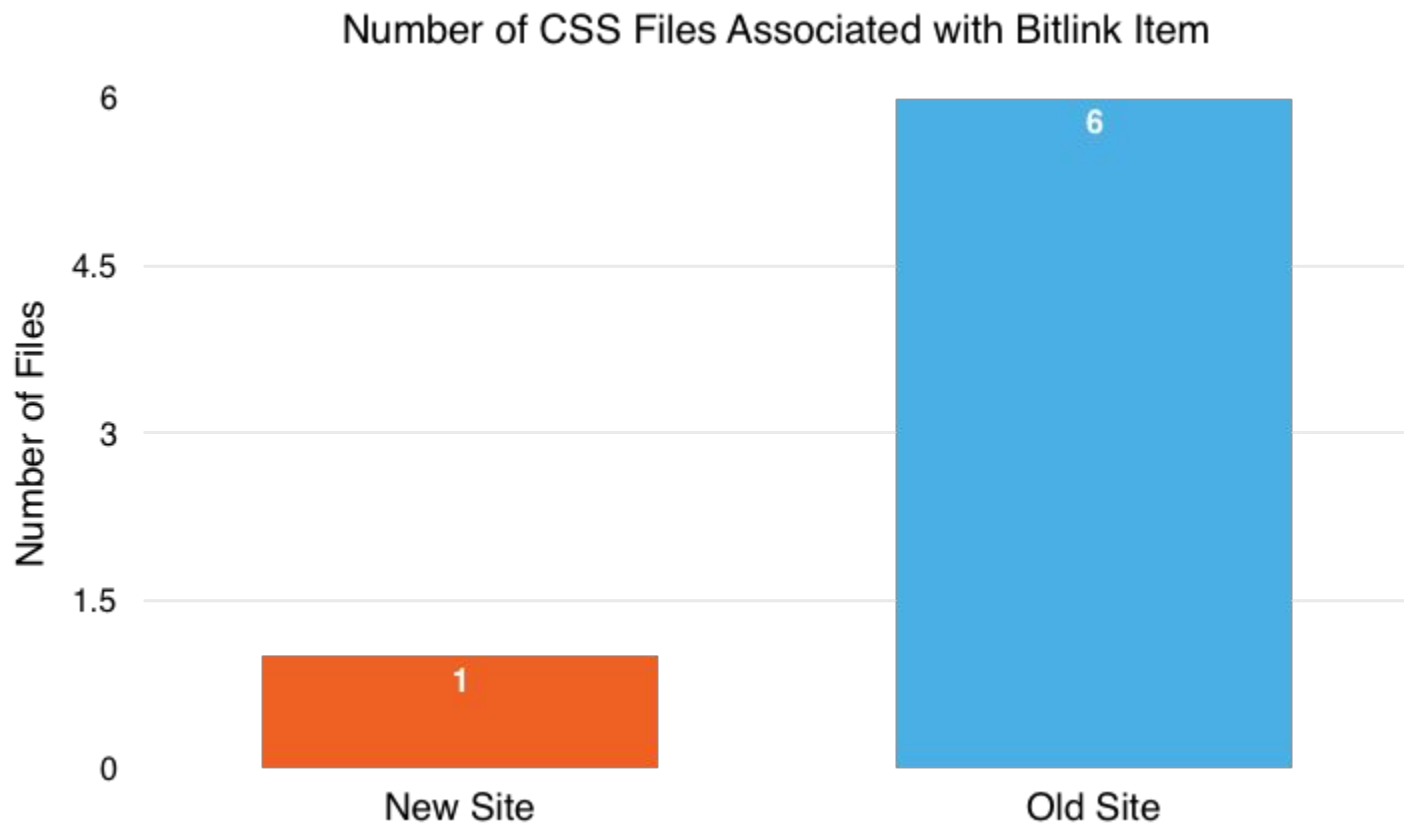
The Stats



The Stats



The Stats



What About React Inline Styles?

Netscape's JSSS

Separation of concerns

DOM weight

High-specificity

CSS solutions for dynamic styling

Alternative solutions for cascading issues

What's the Catch?

Requires discipline and restraint

Requires a CSS preprocessing language

Naming stuff is hard

Not particularly DRY

Benefits

Simplified hierarchy

Reduce nested selectors

1:1 relationships and no element styles

Readable HTML

Smaller CSS files

(Relatively) stress-free maintenance and refactoring!

THANK YOU

