

1.1 Sass, Not SASS

1.2 SCSS: Sassy CSS

1.3 Commenting

1.4 Importing

1.5 Nesting Selectors

1.6 The Parent Selector

1.7 Nesting Pitfalls



CSS is crafted to be **simple**,
but scaling simplicity is *difficult*.

1.1 Sass, Not SASS



At Scale

- Slight variations of colors, fonts, numbers, & other properties arise
- Effective curbing of repetition can decline
- Stylesheet size may become unmanageable

1.1 Sass, Not SASS



Enter Sass

- ◉ Syntactically Awesome Stylesheets
- ◉ Looks like CSS, but adds features to combat shortcomings
- ◉ Preprocessor, like CoffeeScript & Haml:



Sass File



Sass Compiler



CSS File

1.1 Sass, Not SASS



- Created by Hampton Catlin
- **Primary developers:**
Nathan Weizenbaum & Chris Eppstein
- Baked into Rails

1.1 Sass, Not SASS



1.1 Sass

- Sassy CSS (`.scss`) is the default file extension
- **CSS is valid SCSS**
- A second syntax (`.sass`) exists, but we'll focus on SCSS for the course

1.2 SCSS: Sassy CSS



application.scss

```
$main: #444;

.btn {
  color: $main;
  display: block;
}
.btn-a {
  color: lighten($main, 30%);
  &:hover {
    color: lighten($main, 40%);
  }
}
```

application.css

```
.btn {
  color: #444444;
  display: block;
}
.btn-a {
  color: #919191;
}
.btn-a:hover {
  color: #aaaaaa;
}
```

1.2 SCSS: Sassy CSS



- Sass adds `//` for single line comments - **not** output after compile

1.3 Commenting



application.scss

```
// These comments will  
// not be output to the  
// compiled CSS file  
  
/* This comment will */
```

application.css

```
/* This comment will */
```

1.3 Commenting



application.css

```
/*  
 * Imports styles found in 'buttons.css'  
 * when the browser requests application.css  
 */
```

```
@import "buttons.css";
```

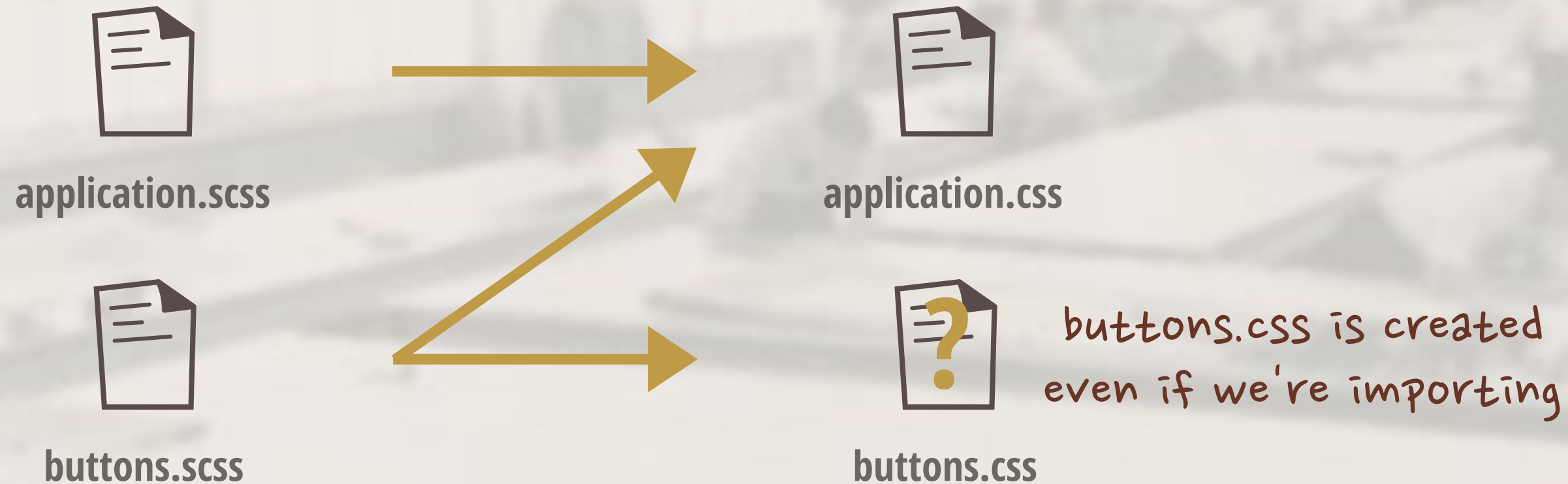


1.4 Importing



application.scss

```
// Imports styles found in 'buttons.scss'  
// when the compiler processes application.scss  
  
@import "buttons";
```

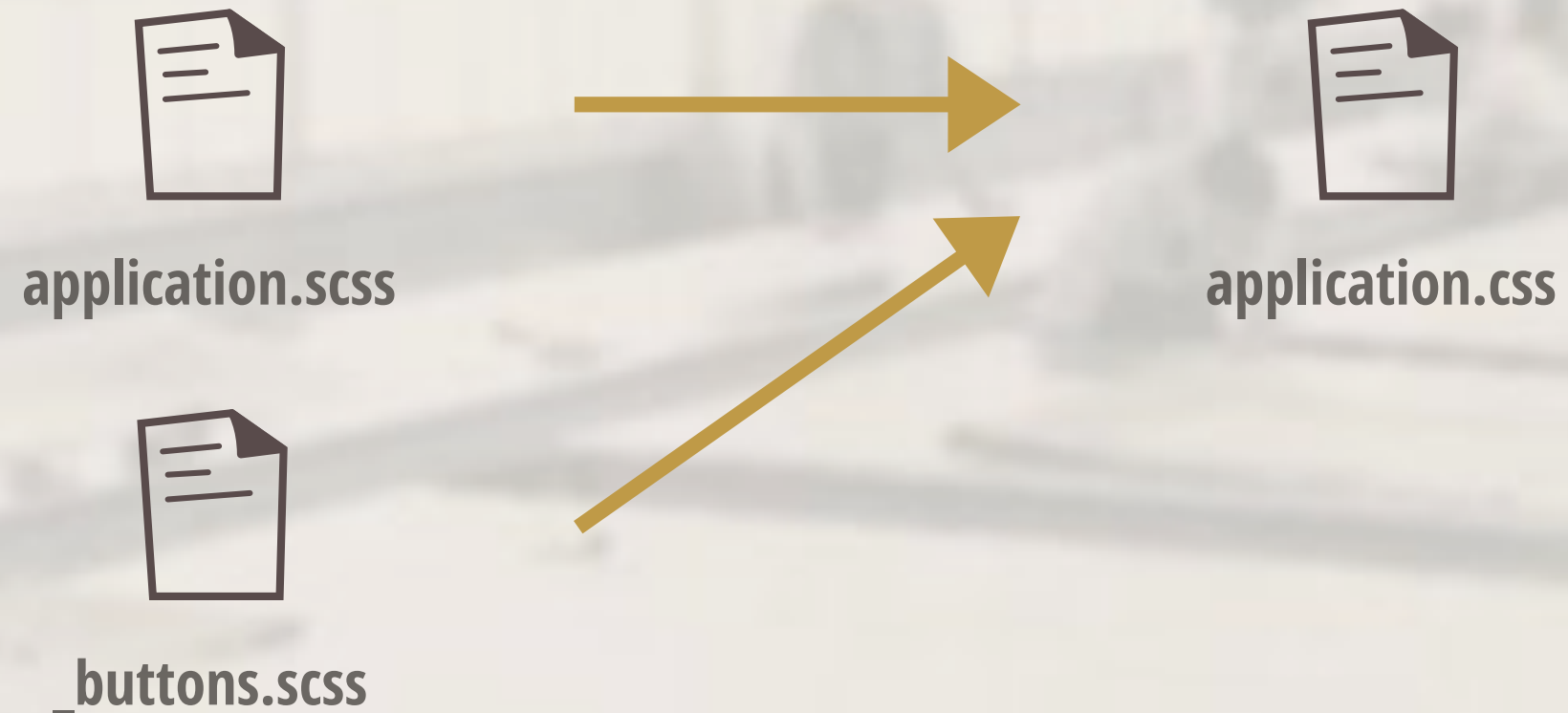


1.4 Importing



application.scss

```
// Will import _buttons.sass, buttons.sass,  
// _buttons.scss, or buttons.scss  
  
@import "buttons";
```



1.4 Importing



application.scss

```
.content {  
  border: 1px solid #ccc;  
  padding: 20px;  
}  
.content h2 {  
  font-size: 3em;  
  margin: 20px 0;  
}  
.content p {  
  font-size: 1.5em;  
  margin: 15px 0;  
}
```

application.css

```
.content {  
  border: 1px solid #ccc;  
  padding: 20px;  
}  
.content h2 {  
  font-size: 3em;  
  margin: 20px 0;  
}  
.content p {  
  font-size: 1.5em;  
  margin: 15px 0;  
}
```

1.5 Nesting Selectors



application.scss

```
a {  
  color: #999;  
  &:hover {  
    color: #777;  
  }  
  &:active {  
    color: #888;  
  }  
}
```



application.css

```
a {  
  color: #999;  
}  
a:hover {  
  color: #777;  
}  
a:active {  
  color: #888;  
}
```

1.6 The Parent Selector



application.scss

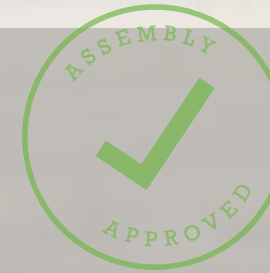
```
.sidebar {  
  float: right;  
  width: 300px;  
  .users & {  
    width: 400px;  
  }  
}
```

references:
.sidebar



application.css

```
.sidebar {  
  float: right;  
  width: 300px;  
}  
.users .sidebar {  
  width: 400px;  
}
```



1.6 The Parent Selector



application.scss

```
.sidebar {  
  float: right;  
  width: 300px;  
  h2 {  
    color: #777;  
    .users & {  
      color: #444;  
    }  
  }  
}
```

references:
.sidebar h2

application.css

```
.sidebar {  
  float: right;  
  width: 300px;  
}  
.sidebar h2 {  
  color: #777;  
}  
.users .sidebar h2 {  
  color: #444;  
}
```

1.6 The Parent Selector



application.scss

```
.content {  
  background: #ccc;  
  .cell {  
    h2 {  
      a {  
        &:hover {  
          color: red;  
        }  
      }  
    }  
  }  
}
```



application.css

```
.content {  
  background: #ccc;  
}  
.content .cell h2 a:hover {  
  color: red;  
}
```



dangerous level of
specificity

1.7 Nesting Pitfalls



application.scss

```
$rounded: 5px;  
  
@import "buttons";
```

_buttons.scss

```
$rounded: 3px !default;  
  
.btn-a {  
  border-radius: $rounded;  
  color: #777;  
}  
  
.btn-b {  
  border-radius: $rounded;  
  color: #222;  
}
```

if a value isn't
defined elsewhere,
used by default

2.1 Variable Declaration + Use



application.scss

```
p {  
  $border: #ccc;  
  border-top: 1px solid $border;  
}  
h1 {  
  border-top: 1px solid $border;  
}
```


\$border isn't available
outside of p

application.css

```
Syntax error: Undefined  
variable: "$border"
```

2.3 Scope



