

FE101

Lesson 4: Sass Libraries, Advanced
Functionality, Modular/OOSASS

Sass Libraries

- Since Sass gives you the ability to write functions (extensions), there are several libraries of commonly used Sass functionality
- Some of these are:
 - Bourbon <http://bourbon.io/>
 - Scut <http://davidtheclark.github.io/scut/>
 - Compass <http://compass-style.org/>

Sass Libraries - Bourbon

- “A simple and lightweight mixin library for Sass”
- Makes it far easier to write cross-browser-friendly Sass

Sass Libraries - Bourbon

Installation

```
$ gem install bourbon
```

```
$ bourbon install #in the current  
directory
```

```
/*in your main SASS file*/  
@import 'bourbon/bourbon'
```

Sass Libraries - Bourbon

- Commonly used Bourbon mixins/functions:
 - background-image
 - linear-gradient
 - border-image
 - border-radius
 - font-face
 - tint
 - shade
- We'll cover `linear-gradient` and `background-image` usage later in the class

Sass Libraries - Bourbon

```
/*mixes a color with white*/  
background: tint(orange, 50%);
```

```
/*mixes a color with black*/  
background: shade(red, 70%);
```

Exercise

Implementing Sass Libraries

- Implement Bourbon into a blank website
- Try out at least 2 of the library's methods, perhaps:
 - tint
 - shade

Sass if

- Sass has a version of control flow just like Ruby, JavaScript, and other languages

```
h1{  
  @if $fs == 1{ font-size: 10px }  
  @else if $fs == 2{ font-size: 18px }  
}
```

- It's not recommended to use them that much day-to-day, mostly when writing your own custom mixins

Sass @for loop

- A great way to make a utility class with an incremental measurement, like a width or font size

```
@for $i from 1 through 100 {  
  .cell-#{ $i } { width: 1% * $i; }  
}
```

- The above Sass would give you `.cell-1`, `.cell-50`, `.cell-25` classes that would easily allow you to make percentage width cells in an element

Exercise

- Use a Sass `for` loop to make a utility class that allows you to easily apply 6 font sizes between 12px and 72px.

Sass @each loop

- Allows you to iterate over a Sass list, which is like an array

```
@each $person in zach, ray, sally {  
  .#{ $person }-icon {  
    background-image: url ( '/images/#{ $person }.png' );  
  }  
}
```

Exercise

- Use a Sass each loop to create utility classes for the `list-style-type` CSS property
- These classes should allow you to apply the `disc`, `circle`, and `decimal` list-style-types just by using CSS classes

Placeholders

- Placeholders are Sass selectors that don't get used unless they're called in an `@extend` directive

```
%thick-line {  
  border: 10px solid black;  
}
```

```
/*will not get rendered unless called in  
@extend */
```

```
.profile {  
  @extend %thick-line;  
}
```

Exercise

- Create a button class using a Sass placeholder (`%button`)
- Extend this class into two real classes that each add on to the styles of the original button (`.button-style-one`, `.button-style-two`)

Workshopping

- Take an existing project and optimize the CSS styles using Sass
- Start working on your homework!