

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 bourbon.io
 - Scut davidthec Clark.github.io/scut
 - Compass 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 scss directory
```

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

Sass Libraries - Bourbon

- Commonly used Bourbon mixins/functions:
 - background-image
 - linear-gradient
 - border-image
 - 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 (install the gem, run `bourbon install` in your directory, start using mixins)
- 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.
- Use the example from the last slide as a starting point

Sass @each loop

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

```
@each $person in zach, ray, sally {  
  .icon-#{ $person } {  
    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
- Use your code from the last slide to get started

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)
- Let's go over an example together first!