Add Some Sass to your Next Project !

An introduction to Syntactically Awesome Style Sheets

About Me

Sass

Sorry Ottawa!!

- Full stack web developer for the last 15 years
- Corporate web developer @ Newcap Radio
- Discovered Wordpress about 3 years ago
- Father to 40 lbs of trouble !

So What is Sass?

- Sass is a scripting language that interpreted or compiles Sass into CSS.

Why use Sass

- Variables
- Nesting
- Partials
- Functions
- Mixins
- Frameworks
- Inheritance

2 syntax types

Sass or SCSS

Sass Syntax

```
$font-stack:    Helvetica, sans-serif
$primary-color: #333

body
  font: 100% $font-stack
  color: $primary-color
```

SCSS Syntax

```scss
$font-stack:    Helvetica, sans-serif;
$primary-color: #333;

body {
  font: 100% $font-stack;
  color: $primary-color;
}
```

Output

```
body {
  font: 100% Helvetica, sans-serif;
  color: #333;
}
```

Variables

- A way to store values
- Great for values you will use over and over again
- Change a variable's value and that value changes everywhere

Variables example

```
$font-stack:    Helvetica, sans-serif;
$primary-color: #333;

body {
  font: 100% $font-stack;
  color: $primary-color;
}
```

Results

```
body {
  font: 100% Helvetica, sans-serif;
  color: #333;
}
```

Starwars is awesome

```scss
//Media query variables
/*SMALL */
$yoda:20em;   //320px/16px
$ewok:26em;    // 400px/16px
$r2d2:30em;    //480px/16px

/*MEDIUM*/
$c3p0:34.375em; //550px/16
$leia:47.937em;  //767px / 16px
$luke:56.25em; //900px/16px;
$han:61.1875em;     //(979px /16px

/*LARGE*/
$vader:62.5em; //1000px/16px;
$chewie:75em;  //1200/16px
$jabba:0em; // undefined - There in case needed
$deathstar:0em; // undefined - There in case needed
```

Nesting

Nesting Example

```
nav {
  ul {
    margin: 0;
    padding: 0;
    list-style: none;
  }

  li { display: inline-block; }

  a {
    display: block;
    padding: 6px 12px;
    text-decoration: none;
  }
}
```

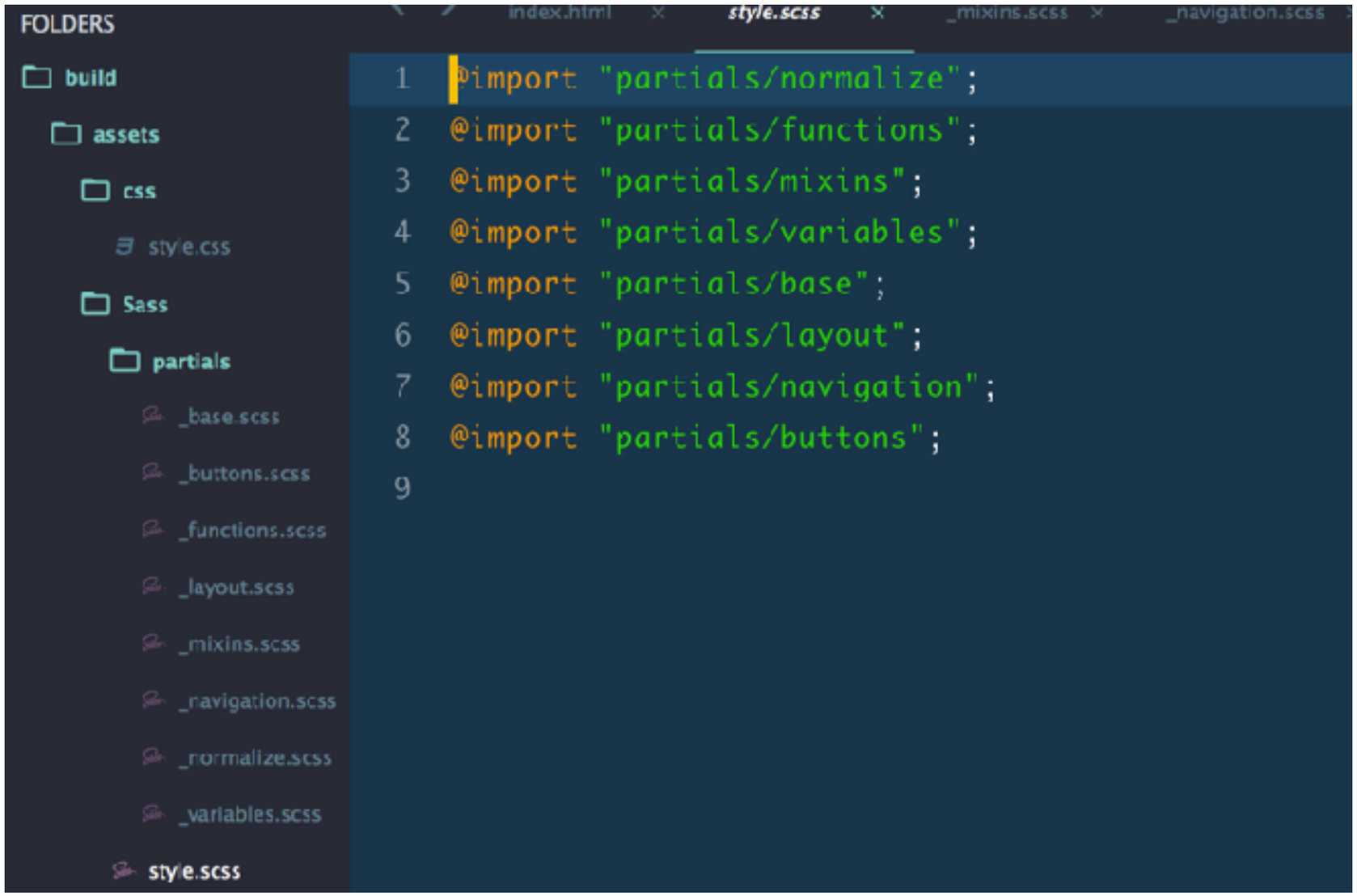
Output

```
nav ul {
  margin: 0;
  padding: 0;
  list-style: none;
}

nav li {
  display: inline-block;
}

nav a {
  display: block;
  padding: 6px 12px;
  text-decoration: none;
}
```

Partials


FOLDERS
build
assets
css
style.css
Sass
partials
_base.scss
_buttons.scss
_functions.scss
_layout.scss
_mixins.scss
_navigation.scss
_normalize.scss
_variables.scss
style.scss
index.html
style.scss
_mixins.scss
_navigation.scss
1 @import "partials/normalize";
2 @import "partials/functions";
3 @import "partials/mixins";
4 @import "partials/variables";
5 @import "partials/base";
6 @import "partials/layout";
7 @import "partials/navigation";
8 @import "partials/buttons";
9

Mixins

```scss
@mixin border-radius($radius) {
  -webkit-border-radius: $radius;
     -moz-border-radius: $radius;
      -ms-border-radius: $radius;
          border-radius: $radius;
}

.box { @include border-radius(10px); }
```

Output

```
.box {
  -webkit-border-radius: 10px;
  -moz-border-radius: 10px;
  -ms-border-radius: 10px;
  border-radius: 10px;
}
```

Functions

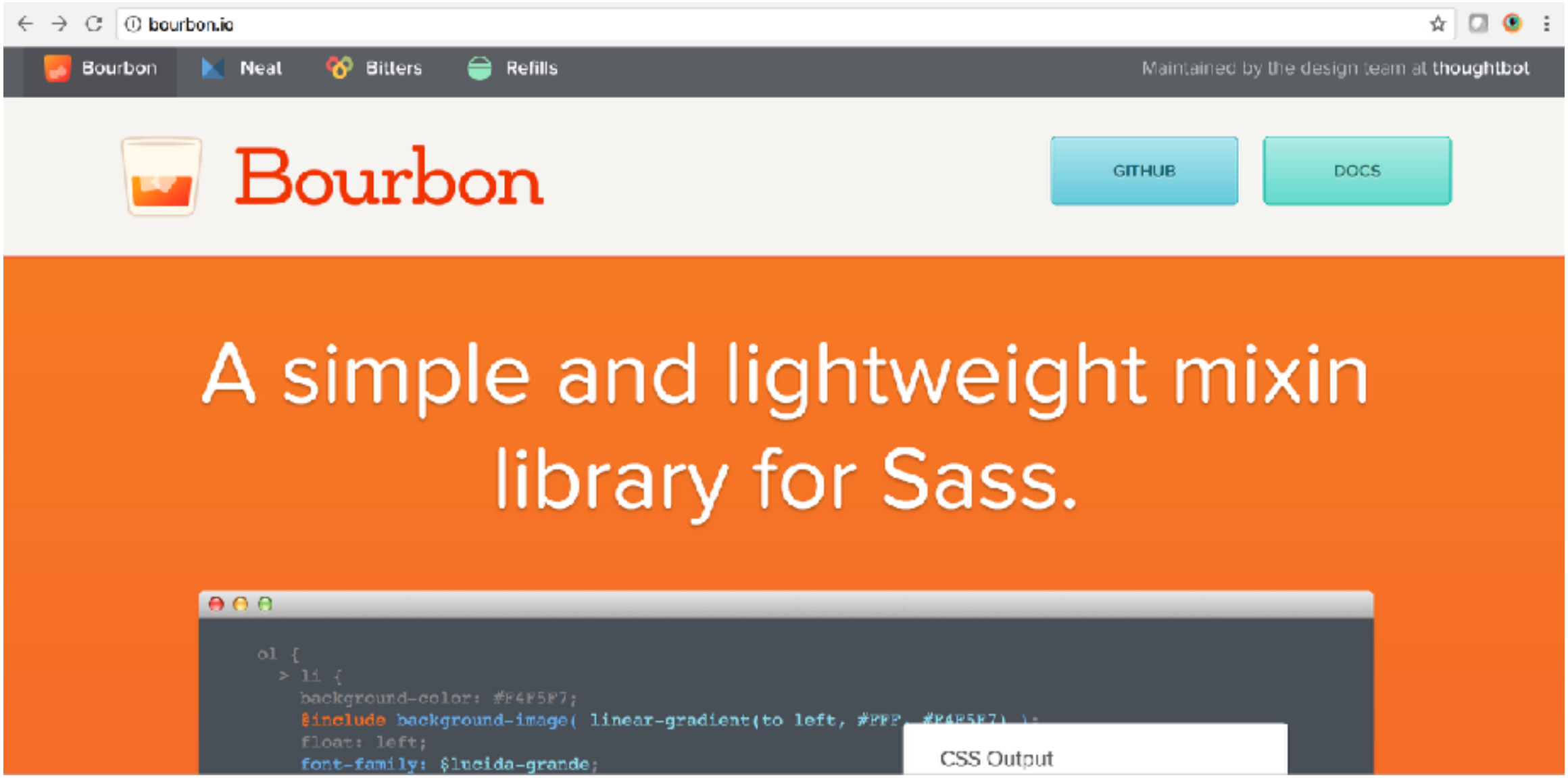
- darken($color, $amount) : Makes a color darker.
- lighten($color, $amount) : Makes a color lighter.
- For more - http://sass-lang.com/documentation/Sass/Script/Functions.html

```scss
//#################################
//Converts pixels to EMs
//#################################
$browser-context: 16; // Default

@function em( $pixels, $context: $browser-context ) {
  @return #{$pixels/$context}em
}

```

Mixin Frameworks



http://bourbon.io/

http://compass-style.org/

Inheritance

```scss
.message {
  border: 1px solid #ccc;
  padding: 10px;
  color: #333;
}

.success {
  @extend .message;
  border-color: green;
}

.error {
  @extend .message;
  border-color: red;
}

.warning {
  @extend .message;
  border-color: yellow;
}
```

Results

```
.message, .success, .error, .warning {
  border: 1px solid #cccccc;
  padding: 10px;
  color: #333;
}

.success {
  border-color: green;
}

.error {
  border-color: red;
}

.warning {
  border-color: yellow;
}
```

Operators

```
.container { width: 100%; }



article[role="main"] {
  float: left;
  width: 600px / 960px * 100%;
}

aside[role="complementary"] {
  float: right;
  width: 300px / 960px * 100%;
}
```

Results

```
.container {
  width: 100%;
}

article[role="main"] {
  float: left;
  width: 62.5%;
}

aside[role="complementary"] {
  float: right;
  width: 31.25%;
}
```

How to get started

- There are multiple ways to get started
- Mac open terminal - type gem install sass
- Windows go to https://rubyinstaller.org/

Command Line

```
sass --watch app/sass:public/stylesheets
```

Gui's

CODEKIT

https://codekitapp.com/

PREPOS

https://prepros.io/

Task Runner's

https://gruntjs.com/

gulp.js

The streaming build system

http://gulpjs.com/

Live Examples

Resources

- http://sass-lang.com/

- http://sass-lang.com/documentation/file.SASS_REFERENCE.html

- https://css-tricks.com/gulp-for-beginners/

Thank You Ottawa!