Customizing the Learn 2016 Theme

- 2016 is heavily based on the 2012. (duplicated code)

- Was implemented quickly (hence !importants)

- More modern, flat design

- Much better responsive capabilities, ongoing

- Plays nice inside Ultra, this can create some constraints

Where are my customizations?

The customization UI of Learn was never fully hooked into the 2016 theme, preventing customers to transfer current settings to the new theme through the UI. This amy be addressed in the future.

In the meantime customers can utilize the theme css files to customize Learn to their specifications.

This does take a bit of development know how but allows for customization of almost any UI element in learn.

Structure of Themes

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Blackboard learn™

&

Sass.

{style with attitude}

Disclaimer

I am going to treat this presentation as if no one has used SASS. If you have used SASS and already know some of this content I apologize for any and all boredom induced by this presentation.

Syntactically **A**wesome **S**tyle **S**heets

- SASS is a CSS extension language
- 10 years old
- Ruby
- Preprocessed

What Does SASS Give Me?

Variables

```
1  $font-main:····Helvetica,·sans-serif;
2  $brand-primary: #333;
3
4  body {
5    font: 100% $font-main;
6    color: $brand-primary;
7  }
```

What Does SASS Give Me?

Nesting

```
{ 112       div.product {
  113           margin-bottom: 0;
  114           position: relative;
  115
  116           .product_title {
  117               clear: none;
  118               margin-top: 0;
  119               padding: 0;
  120           }
  121
  122           span.price,
  123           p.price {
  124               color: $highlight;
  125               font-size: 1.25em;
  126
  127               ins {
  128                   background: inherit;
  129                   font-weight: 700;
  130               }
  131
  132               del {
  133                   opacity: 0.5;
  134               }
  135           }
} 136       }
```

What Does SASS Give Me?

Mixins

```
1  @mixin border-radius($radius) {
2    -webkit-border-radius: $radius;
3       -moz-border-radius: $radius;
4        -ms-border-radius: $radius;
5            border-radius: $radius;
6  }
7
{} 8  .box { @include border-radius(10px); }
```

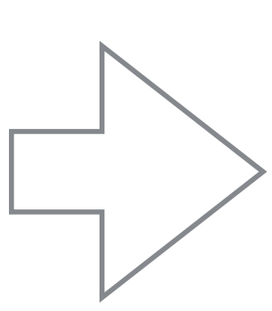
What Does SASS Give Me?

Operators

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

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

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



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

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

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

What Does SASS Give Me?

Extend/Inheritance

```
.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;
}
```

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

.success {
  border-color: green;
}

.error {
  border-color: red;
}

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

Control Directives

JS like control of css

What Does SASS Give Me?

@if @else

```
@mixin box-shadow($top, $left, $blur, $color, $inset: false) {
  @if $inset {
    -webkit-box-shadow:inset $top $left $blur $color;
    -moz-box-shadow:inset $top $left $blur $color;
    box-shadow:inset $top $left $blur $color;
  } @else {
    -webkit-box-shadow: $top $left $blur $color;
    -moz-box-shadow: $top $left $blur $color;
    box-shadow: $top $left $blur $color;
  }
}

.login_window {
    @include box-shadow(0, 1px, 1px, rgba(0, 0, 0, 0.5), inset);
}
```

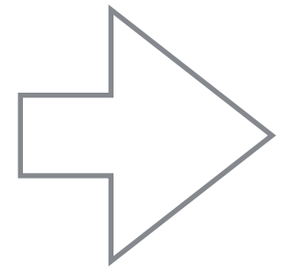
What Does SASS Give Me?

@for

```scss
$class-slug: for !default

@for $i from 1 through 4
  .#{$class-slug}-#{$i}
    width: 60px + $i

```



```css
.for-1 {
  width: 61px;
}

.for-2 {
  width: 62px;
}

.for-3 {
  width: 63px;
}

.for-4 {
  width: 64px;
}
```

What Does SASS Give Me?

@each

```
$list: adam john wynn mason kuroir

=author-images
  @each $author in $list
    .photo-#{$author}
      background: image-url("avatars/#{$author}.png") no-repeat

.author-bio
  +author-images
```

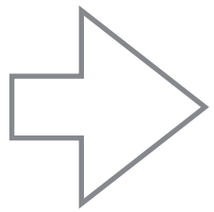
```
.author-bio .photo-adam {
  background: url('/images/avatars/adam.png') no-repeat;
}
.author-bio .photo-john {
  background: url('/images/avatars/john.png') no-repeat;
}
.author-bio .photo-wynn {
  background: url('/images/avatars/wynn.png') no-repeat;
}
.author-bio .photo-mason {
  background: url('/images/avatars/mason.png') no-repeat;
}
.author-bio .photo-kuroir {
  background: url('/images/avatars/kuroir.png') no-repeat;
}
```

What Does SASS Give Me?

@while

```
$types: 4
$type-width: 20px

@while $types > 0
  .while-#{$types}
    width: $type-width + $types
  $types: $types - 1
```



```
.while-4 {
  width: 24px;
}

.while-3 {
  width: 23px;
}

.while-2 {
  width: 22px;
}

.while-1 {
  width: 21px;
}
```

What Does SASS Give Me?

Improved At @import

SASS will insert css for an @import into the css file.
Preventing needed HTTP requests.

Install SASS

```
[→  learn git:(feature/NUBKL-1699-refactor-breadcrumb-area-mobile) ✗ sudo gem install sass
[Password:
 Fetching: sass-3.4.23.gem (100%)
 Successfully installed sass-3.4.23
 Parsing documentation for sass-3.4.23
 Installing ri documentation for sass-3.4.23
 Done installing documentation for sass after 4 seconds
 1 gem installed
```

Command Usage

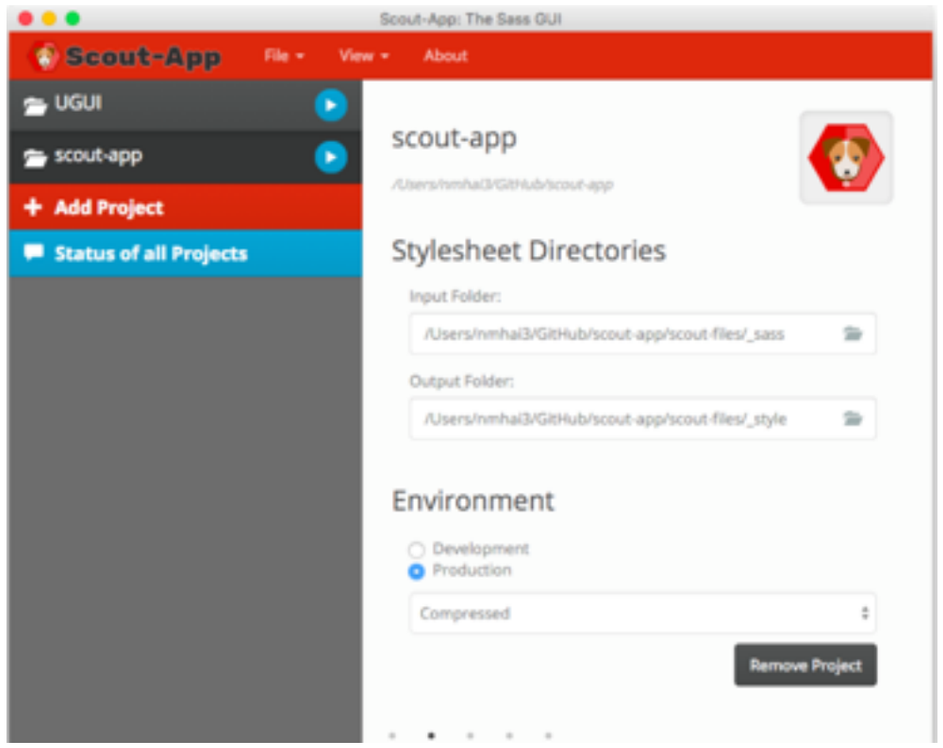
Watch Directory

sass --watch path/sass-directory:path/css-directory

Watch Single File

sass --watch path/sass-directory/styles.css

ScoutApp



Free
Easy
Mac, Windows, Linux

Demo

Questions?

Resources

SASS

http://sass-lang.com/guide

Scout App

http://scout-app.io/

Keka

http://www.kekaosx.com/en/