

Customizing the Learn 2016 Theme

- 2016 is heavily based on the 2012. (duplicated code)
- Was implemented quickly (hence !important)
- 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 may 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⁺_{TM}

&



{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?

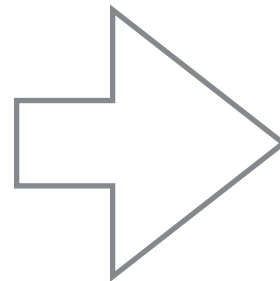
Mixins

```
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

```
1 .container { width: 100%; }
2 |
3 article[role="main"] {
4   float: left;
5   width: 600px / 960px * 100%;
6 }
7
8 aside[role="complementary"] {
9   float: right;
10  width: 300px / 960px * 100%;
11 }
```

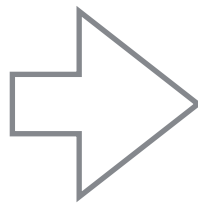


```
1 .container {
2   width: 100%;
3 }
4
5 article[role="main"] {
6   float: left;
7   width: 62.5%;
8 }
9
10 aside[role="complementary"] {
11   float: right;
12   width: 31.25%;
13 }
```

What Does SASS Give Me?

Extend/Inheritance

```
1 .message {  
2   border: 1px solid #ccc;  
3   padding: 10px;  
4   color: #333;  
5 }  
6  
7 .success {  
8   @extend .message;  
9   border-color: green;  
10 }  
11  
12 .error {  
13   @extend .message;  
14   border-color: red;  
15 }  
16  
17 .warning {  
18   @extend .message;  
19   border-color: yellow;  
20 }
```



```
1 .message, .success, .error, .warning {  
2   border: 1px solid #cccccc;  
3   padding: 10px;  
4   color: #333;  
5 }  
6  
7 .success {  
8   border-color: green;  
9 }  
10  
11 .error {  
12   border-color: red;  
13 }  
14  
15 .warning {  
16   border-color: yellow;  
17 }
```

Control Directives

JS like control of css

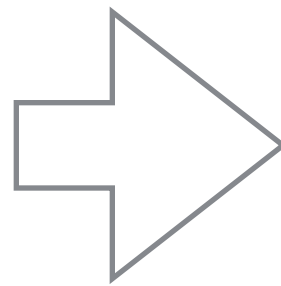
What Does SASS Give Me?

@if @else

```
1  @mixin box-shadow($top, $left, $blur, $color, $inset: false) {  
2    @if $inset {  
3      -webkit-box-shadow:inset $top $left $blur $color;  
4      -moz-box-shadow:inset $top $left $blur $color;  
5      box-shadow:inset $top $left $blur $color;  
6    } @else {  
7      -webkit-box-shadow: $top $left $blur $color;  
8      -moz-box-shadow: $top $left $blur $color;  
9      box-shadow: $top $left $blur $color;  
10   }  
11 }  
12  
13 .login_window {  
14   @include box-shadow(0, 1px, 1px, rgba(0, 0, 0, 0.5), inset);  
15 }
```

What Does SASS Give Me?

@for



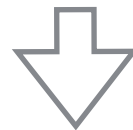
```
1 $class-slug: for !default
2
3 @for $i from 1 through 4
4   .#{$class-slug}-#{$i}
5     width: 60px + $i
6
```

```
1 .for-1 {
2   width: 61px;
3 }
4
5 .for-2 {
6   width: 62px;
7 }
8
9 .for-3 {
10  width: 63px;
11 }
12
13 .for-4 {
14   width: 64px;
15 }
```

What Does SASS Give Me?

@each

```
1 $list: adam john wynn mason kuroir
2
3 =author-images
4   @each $author in $list
5     .photo-#{ $author }
6       background: image-url("avatars/#{ $author }.png") no-repeat
7
8 .author-bio
9   +author-images
```

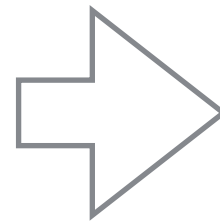


```
1 .author-bio .photo-adam {
2   background: url('/images/avatars/adam.png') no-repeat;
3 }
4 .author-bio .photo-john {
5   background: url('/images/avatars/john.png') no-repeat;
6 }
7 .author-bio .photo-wynn {
8   background: url('/images/avatars/wynn.png') no-repeat;
9 }
10 .author-bio .photo-mason {
11   background: url('/images/avatars/mason.png') no-repeat;
12 }
13 .author-bio .photo-kuroir {
14   background: url('/images/avatars/kuroir.png') no-repeat;
15 }
```


What Does SASS Give Me?

@while

```
1 $types: 4
2 $type-width: 20px
3
4 @while $types > 0
5   .while-#{ $types }
6     width: $type-width + $types
7     $types: $types - 1
```



```
1 .while-4 {
2   width: 24px;
3 }
4
5 .while-3 {
6   width: 23px;
7 }
8
9 .while-2 {
10  width: 22px;
11 }
12
13 .while-1 {
14   width: 21px;
15 }
```

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) x 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

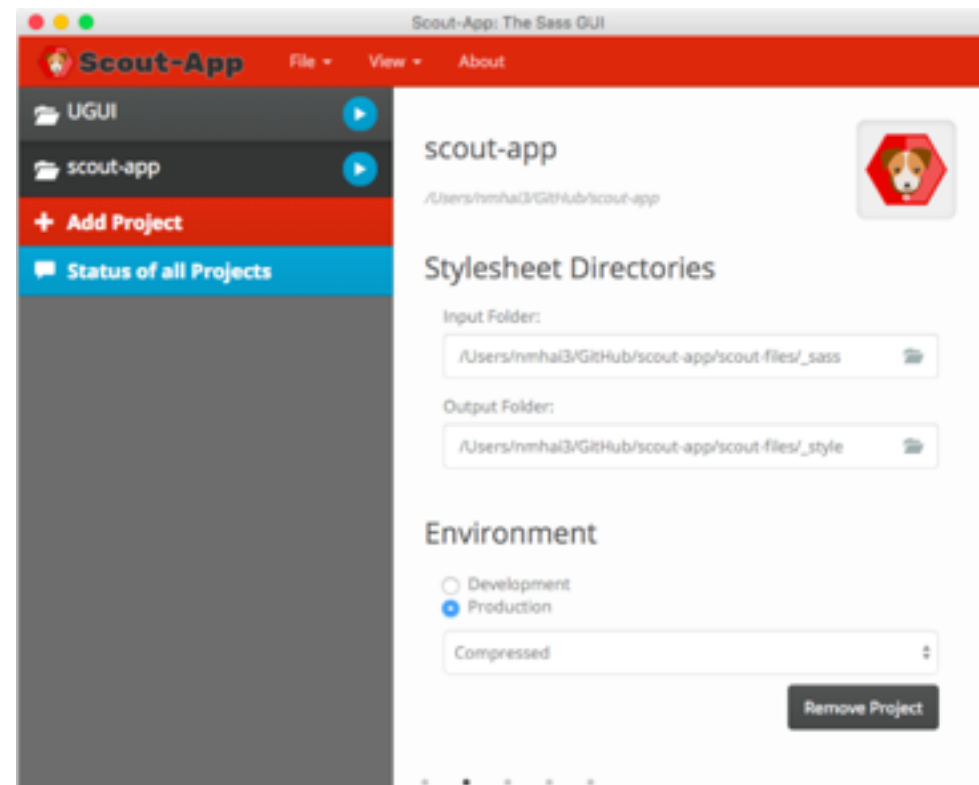
Watch Directory

```
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/>

bb-scss repo (contains PDF of this presentation)

<https://github.com/gertwerks/bb-scss>