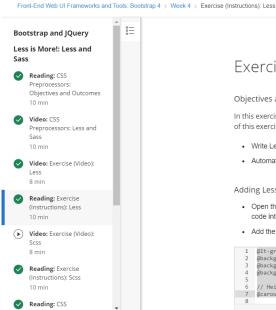
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Exercise (Instructions): Less

Objectives and Outcomes

In this exercise you will learn to write Less code and then automatically transform it into the corresponding CSS code. At the end of this exercise you will be able to:

- Write Less code using many of the features of Less
- · Automatically convert the Less code into CSS

Adding Less Variables

- Open the conFusion project in a text editor of your choice. In the css folder, create a file named styles.less. We will add the Less code into this file.
- Add the following Less variables into the file:

```
@lt-gray: #ddd;
@background-dark: #512DA8;
@background-light: #9575CD;
@background-pale: #D1C4E9;
```

We have just added a few color and a height variable. We will make use of these variables while defining the classes.

Next we add a mixin into the file as follows:

```
1 · .zero-margin (@pad-up-dn: 0px, @pad-left-right: 0px) {
2 margin:0px auto;
3 padding: @pad-up-dn @pad-left-right;
4 }
5
```

We will make use of this to define several row classes next.

• Using the variables and Mixin class that we defined earlier, add the following row classes to the file:

```
background-color: @background-pale;
.zero-margin(20px, 0px);
.jumbotron {
    .zero-margin(70px,30px);
    background: @background-light;
    color:floralwhite;
```

Note the use of the variables and the mixin with various parameters in defining the classes.

Nesting Selectors

Next we add a carousel class to illustrate the use of nesting of classes in Less, as follows:

```
.carousel {
    background:@background-dark;
2
3
4 *
5
6 *
7
8
9
10
                  .carousel-item {
   height: @carousel-item-height;
   img {
                                 {
position: absolute;
top: 0;
left: 0;
min-height: 300px;
```

Installing and using the lessc Compiler $\,$

• Now we install the node module to support the compilation of the Less file. To do this, type the following at the command prompt:

```
1 npm install -g less<mark>@2.7.2</mark>
```

This will install the *less* NPM module globally so that it can be used by any project. **Note: if you are executing this on a Mac or Linux machine, you may need to add "sudo" to the beginning of this command**. This will make available the *lessc* compiler for us so that we can compile Less files.

- Next, go to the CSS folder on your machine and rename the styles.css file that you have there as styles-old.css. This is to save the CSS file that we have been using so far. We will be creating a new styles.css file by compiling the Less file.
- Next type the following at the command prompt to compile the Less file into a CSS file:

```
l lessc styles.less styles.css
```

You can now do a Git commit with the message "Less".

Conclusions

In this exercise you learnt to write Less code and then automatically generating the CSS file by compiling the Less code.



Go to next item

