

CS50B Web Dev 2

Fall 2018 ~ Ethan Wilde

Week 6



Welcome

- Course Outline
- Reading This Week
- Customizing Bootstrap CSS
 - Adding New CSS Rules + Classes
 - Overriding Existing Bootstrap CSS Rules
 - Looking Ahead: Bootstrap + Sass
- Preparing for the Midterm Project

Course Outline

1 Responsive HTML5 + CSS3	10 WordPress: Intro to CMS
2 Introduction to Bootstrap	11 WordPress Posts
3 Page Elements + Components	12 WordPress Pages + Menus
4 Navigation	13 WordPress Plugins + Themes
5 Forms + Decoration	14 WordPress Bootstrap Theme
6 Customizing Bootstrap CSS	15 Intro to Sass: CSS Preprocess
7 Introduction to JavaScript	16 Customizing Bootstrap Sass
8 Bootstrap + JavaScript	17 Mastering Sass + Bootstrap
9 Midterm Review + Midterm	18 Final Exam (online)

Get all of the details in the complete syllabus on Canvas.

Reading This Week



by Carol Skelly

1. Simple CSS Overrides

https://uxplanet.org/how-to-customize-bootstrap-b8078a011203

Changing Bootstrap Styles

- Adding New CSS Rules + Classes
- Overriding Existing Bootstrap CSS Rules
- Looking Ahead: Bootstrap + Sass

Adding New CSS Rules

Changes One or Some List Groups
Interactive code example now on codepen.io

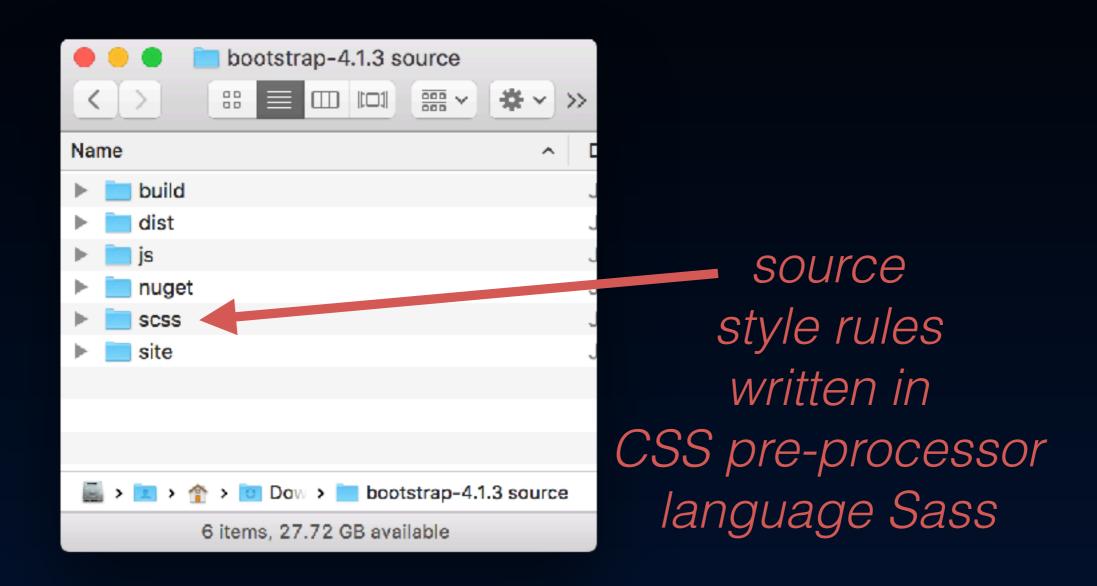
Overriding Existing Bootstrap CSS Rules

```
Pictures
  Videos
 new CSS
.list-group {
                 rule to
font-family: Impact;
                override
font-size: 2em;
                existing
              Bootstrap CSS
```

Changes EVERY List Group!

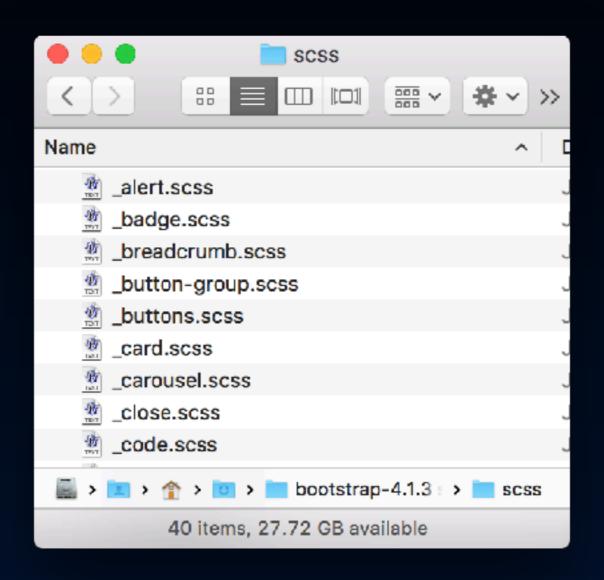
Interactive code example now on codepen.io

Looking Ahead: Bootstrap 4 + Sass



Bootstrap 4 source code at https://getbootstrap.com/docs/4.1/getting-started/download/

Looking Ahead: Bootstrap 4 Sass Style Files



Bootstrap 4 source code at https://getbootstrap.com/docs/4.1/getting-started/download/

Looking Ahead: Bootstrap 4 Sass Style Files

```
_badge.scss
~/Downloads/bootstrap-4.1.3 source/sess/_badge.sess _
                                                                   (no function selected) + *+
     // Base class
     // Requires one of the contextual, color modifier classes for 'color' and
     // `background-color`.
5
  .badge {
       display: inline-block;
       padding: $badge-padding-y $badge-padding-x;
       font-size: $badge-font-size;
       font-weight: 5badge-font-weight;
10
       line-height: 1:
11
       text-align: center;
12
       white-space: nowrap;
13
       vertical-align: baseline;
14
       @include border-radius($badge-border-radius);
15
16
       // Empty badges collapse automatically
17
       &:empty {
18
          display: none;
19
20
21 -
          SCSS - Unicode (UTF-8) - Unix (LF) - ii Seved: 7/24/18, 8:54:34 AM [3] 982 / 128 / 48 100% -
```

Sass is an extension of the CSS language.

Above is shown the Sass rule for .badge

What is Sass?

Sass is a CSS pre-processor, meaning that it extends the CSS language...

adding features that allow variables, mixins, functions and many other techniques...

allowing you to make CSS that is more maintainable, themeable and extendable.

Sass project site at https://sass-lang.com/

Preparing for the Midterm Project

"An interactive and responsive catalog."

What is the Midterm Project?

Preparing for the Midterm Project

Using Bootstrap 4.1
7 responsive pages
External CSS
Organized filesystem
Content: self-authored or
with permission + attribution

What is the Midterm Project?

Preparing for the Midterm Project

Creating a Navigable Prototype of Your Midterm Project

Week 6: Add custom CSS overrides to a copy of your second draft prototype of your midterm project.

Be ready to...

Share preview access URL with everyone in Week 7.

This Week's Assignment

What to Do Next

Reading

- Read: Part 1 of "How to Customize Bootstrap 4" by Carol Skelly
 - Part 1. Simple CSS Overrides
- Want to look ahead?
 - Read the rest of this article for a preview of Sass.

Homework

- Assignment 6: Restyling Bootstrap
- Quiz 1
- Discussion 3: Interaction Design
- Complete Assignment 6 using your Cloud9 workspace.

· Canvas Site

- All materials available there
- · https://canvas.santarosa.edu/courses/32995