CS50B Web Dev 2

Fall 2018 ~ Ethan Wilde   *Week 5*

SANTA ROSA
JUNIOR COLLEGE

Welcome

- **Course Outline**

- **Bootstrap Forms + Decoration**

  - **Forms**

  - **Buttons**

  - **Other Decorations**

- **Icon Fonts: FontAwesome**

- **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.

Bootstrap Forms

- **Forms**
- **Form Groups**
- **Form Elements**

Bootstrap
Form Groups

parent of label +
form element

```
<form>
 <div class="form-group">
  <label for="formEmail">Email Address</label>
  <input type="email" class="form-control"
   id="formEmail" placeholder="Your Email">
 </div>
 <button type="submit"
  class="btn btn-primary">Log In</button>
</form>
```

Interactive code example now on codepen.io

Bootstrap
Form Controls

add to form element

```html
<form>
  <div class="form-group">
   <label for="formEmail">Email Address</label>
   <input type="email" class="form-control"
    id="formEmail" placeholder="Your Email">
  </div>
 <button type="submit"
   class="btn btn-primary">Log In</button>
</form>
```

Interactive code example now on codepen.io

Bootstrap
Form Controls

```
<select class="form-control">
    <option>Large select</option>
</select>


<input type="text"
  class="form-control"
  placeholder="Small input">
```

Interactive code example now on codepen.io

Bootstrap
Form Checkboxes

also inline classes available

```
<div class="form-check">
  <input type="checkbox"
    class="form-check-input"
    name="departments">
  <label class="form-check-label">
    Math
  </label>
</div>
</div>
```

Interactive code example now on codepen.io

Bootstrap
Form Radio Buttons

*also
inline
classes
available*

```
<div class="form-check">
    <input type="radio"
      class="form-check-input"
      name="departments">
    <label class="form-check-label">
      Math
    </label>
  </div>
</div>
```

Interactive code example now on codepen.io

Bootstrap
Form Element Sizes

large form element

```html
<select class="form-control form-control-lg">
    <option>Large select</option>
</select>
```

small form element

```html
<input type="text"
    class="form-control form-control-sm"
    placeholder="Small input">
```

Interactive code example now on codepen.io

Bootstrap
Horizontal Forms

```
<form>
 <div class="form-group row">
  <label for="formEmail"
     class="col-2 col-form-label">
      Email Address
  </label>
  <div class="col-10">
    <input type="email" class="form-control"
      id="formEmail" placeholder="Your Email">
  </div>
</div></form>
```

*use
rows + cols
for horizontal*

Interactive code example now on codepen.io

Bootstrap Form Text

```html
<div class="form-group">
    <label for="formEmail"
      class="col-form-label col-4">
      Email Address
    </label>
    <div class="col-8">
      <p
        class="form-text">
        student@santarosa.edu
      </p>
    </div>
```

static text instead of element

Interactive code example now on codepen.io

Bootstrap
Form Elements

help text within forms

```
<form>
  <input type="text" class="form-control">
  <small class="form-text">
    Help text support your users' success.
  </small>
</form>
```

Interactive code example now on codepen.io

Bootstrap
Form Validation

```html
<form class="needs-validation" novalidate>
  <div class="form-group">
    <label for="mail">
     Email
    </label>
    <input name="mail" id="mail" required>
    <div class="valid-feedback">Address valid!</div>
    <div class="invalid-feedback">Bad address!</div>
  </div>
</form>
```

Interactive code example now on codepen.io

Bootstrap
Form Validation

tells bootstrap to validate

```
<form class="needs-validation" novalidate>
  <div class="form-group">
    <label for="mail">
      Email
    </label>
    <input name="mail" id="mail" required>
    <div class="valid-feedback">Address valid!</div>
    <div class="invalid-feedback">Bad address!</div>
  </div>
</div></form>
```

Interactive code example now on codepen.io

Bootstrap
Form Validation

add required attribute

```
<form class="needs-validation" novalidate>
  <div class="form-group">
    <label for="mail">
      Email
    </label>
    <input name="mail" id="mail" required>
    <div class="valid-feedback">Address valid!</div>
    <div class="invalid-feedback">Bad address!</div>
  </div>
</div></form>
```

Interactive code example now on codepen.io

Bootstrap
Form Validation

```
<form class="needs-validation" novalidate>
  <div class="form-group">
    <label for="mail">
      Email
    </label>
    <input name="mail" id="mail" required>
    <div class="valid-feedback">Address valid!</div>
    <div class="invalid-feedback">Bad address!</div>
  </div>
</div></form>
```

two classes designate valid or invalid msg

Interactive code example now on <u>codepen.io</u>

Bootstrap Buttons

button states

```
<button type="button" class="btn btn-primary">Primary</button>
<button type="button" class="btn btn-secondary">Secondary</button>
<button type="button" class="btn btn-info">Info</button>
<button type="button" class="btn btn-success">Success</button>
<button type="button" class="btn btn-warning">Warning</button>
<button type="button" class="btn btn-danger">Danger</button>
<button type="button" class="btn btn-outline-dark">Link</button>
<button type="button" class="btn btn-link">Link</button>

<button type="button" class="btn btn-default btn-lg">Large</button>
<button type="button" class="btn btn-default btn-sm">Small</button>
```

button sizes

Interactive code example now on codepen.io

Bootstrap
Button Groups

justified alignment

```
<div class="btn-group justify-content-between">
  <a href="#" class="btn btn-primary">Left</a>
  <a href="#" class="btn btn-primary">Middle</a>
  <a href="#" class="btn btn-primary">Right</a>
</div>
```

size

```
<div class="btn-group btn-group-lg">
  <a href="#" class="btn btn-primary">One</a>
  <a href="#" class="btn btn-primary">Two</a>
</div>
```

Interactive code example now on codepen.io

Bootstrap Badges

```
<ul class="nav nav-pills">
 <li><a href="#">Home</a></li>
 <li><a href="#">About Me</a></li>
 <li class="active"><a href="#">Contact
  <span class="badge badge-primary">
   24
  </span></a>
 </li>
</ul>
```

badge   *style*

Interactive code example now on codepen.io

Icon Fonts + Libraries

****

set for each icon

Hundreds of icons built into a single font file.

http://fontawesome.io/

Preparing for
the Midterm Project

Learn About Interaction Design

This Week's Discussion

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

Create a **new four-page** initial draft prototype of your midterm project:

1. Home
2. Catalog List
3. Catalog Item 1
4. About + Credits

This Week's Assignment

Preparing for the Midterm Project

Creating a Navigable Prototype of Your Midterm Project

1. Collect text and visual content for an invented catalog.

2. Be sure to collect URL, author info + linked citations.

3. <u>In this prototype you will need content for only 4 pages.</u>

4. Create a responsive multi-column grid for each page.

5. Include Bootstrap navigation with links to all four pages.

6. Define at least twelve (12) custom CSS rules in each page.

This Week's Assignment

Preparing for
the Midterm Project

Nav Prototype of Four Pages

This Week's Assignment

What to Do Next

- **Reading**

  - Read: Designated online pages from *getbootstrap.com*

    - ***Bootstrap: Components: Forms***

    - ***Bootstrap: Components: Buttons***

    - ***Bootstrap: Components: Button Groups***

    - ***Bootstrap: Components: Input Groups***

- **Homework**

  - **Assignment 5: Interaction + Decoration**

  - **Discussion 3: Interaction Design** (videos to watch and comment on)

  - Complete Assignment 5 using your Cloud9 workspace.

- **Canvas Site**

  - All materials available there

  - ***https://canvas.santarosa.edu/courses/32995***