Building your first website with bootstrap

This week I would like you to complete Building your first website with Bootstrap course from Sitepoint. The course is quite well done, but we need to make a few adjustments to because of the way we have setup our Bootstrap app and because the course was made using the beta version of the framework and a few things changed.
Watch for these things:

- Ignore most of the installation instructions in the course. We will use the Bootstrap installation you did back in week 4 that used Parcel. Review that to make sure you remember how to use it.
- In the first lesson below the video there is a link to download the assets for the course. You will want to do this to get the images you will need. Copy the images in the `assets` folder to a folder called `images` in your `src` directory. **You only need the images! You should use the `index.html` that is also inside of that `parcel/src` directory to make your changes in as you complete the course. You should remove everything in the `body` element so that you can fill it with the instructions for the Sitepoint course.**
- Again, in the second lesson **don't** follow the installation instructions. You should use the Bootstrap installation we did in week 4 for this project.
- To get rid of the extra lines that are being added about things working you can remove everything from the `index.js` file **below** the `@import` lines.
- Also in Step 2 and Step 8 the `bg-inverse` class got renamed to `bg-dark`
- In the lesson on Modals he asks you to use a class named `.360-modal-md`. This is technically invalid css. You are not supposed to start class names with numbers. If you have issues with that part change the name to something like `.x360-modal-md`
- In the last lesson the course introduces FontAwesome. You could install it as the course recommends with the CDN...or you could use your package manager :) To install it with npm do the following: In the command line (and while in the project folder) type:

  ```
  npm install font-awesome
  ```
  then in your `assets/scss/styles.scss` file add the following lines towards the top:

  ```
  $fa-font-path:"../../node_modules/font-awesome/fonts";
  @import "node_modules/font-awesome/scss/font-awesome";
  ```

The course does a pretty good job at leading you through using the Bootstrap Grid and other classes to quickly prototype out a site. Consider for a moment though the section with the interest boxes. The code looked like this:

```html
<div class="sectionLight">
  <div class="row">
      <div class="col-sm-12 col-lg-4">
        <img src="images/kickflip.jpg" alt="" class="img-fluid imgCenter">
          <div class="row">
            <div class="col-sm-12"><button type="button" class="btn btn-lg btn-danger btnCenter">Kickflip</button>
            </div>
          </div>
      </div>
      <div class="col-sm-12 col-lg-4">
        <img src="images/360flip.jpg" alt="" class="img-fluid imgCenter">
          <div class="row">
            <div class="col-sm-12">
              <button type="button" class="btn btn-lg btn-danger btnCenter">360 Flip</button>
            </div>
          </div>
      </div>
      <div class="col-sm-12 col-lg-4">
        <img src="images/bscrook.jpg" alt="" class="img-fluid imgCenter">
          <div class="row">
            <div class="col-sm-12"><button type="button" class="btn btn-lg btn-danger btnCenter">BS Crook</button>
            </div>
          </div>
      </div>
  </div>
</div>
```

That is 993 characters of html, plus 11 lines of custom CSS...but it's not the only way to use Bootstrap to accomplish that layout. You also have some Flexbox utility classes you can use instead. Let's see what it would look like using those.

```html
<div class="sectionLight d-flex flex-row flex-wrap justify-content-around">
  <div class="p-2 d-flex flex-column align-items-center">
    <img src="images/kickflip.jpg" alt="" class="img-fluid">
    <button type="button" class="btn btn-lg btn-danger btnCenter">Kick Flip</button>
```

```
    </div>
    <div class="p-2 d-flex flex-column align-items-center">
      <img src="images/360flip.jpg" alt="" class="img-fluid">
      <button type="button" class="btn btn-lg btn-danger btnCenter">360
Flip</button>
    </div>
    <div class="p-2 d-flex flex-column align-items-center">
      <img src="images/bscrook.jpg" alt="" class="img-fluid">
      <button type="button" class="btn btn-lg btn-danger btnCenter">BS
Crook</button>
    </div>
</div>
```

This weighs in at 717 characters of html and 7 lines of custom CSS...a 30% reduction. Not bad...but what if we were to hand code this same section:

```
<div class="sectionLight interestBoxes">
  <div>
    <img src="images/kickflip.jpg" alt="" class="img-fluid">
    <button type="button" class="btn btn-lg btn-danger">Kick
Flip</button>
  </div>
  <div>
    <img src="images/360flip.jpg" alt="" class="img-fluid">
    <button type="button" class="btn btn-lg btn-danger">360
Flip</button>
  </div>
  <div>
    <img src="images/bscrook.jpg" alt="" class="img-fluid">
    <button type="button" class="btn btn-lg btn-danger">BS
Crook</button>
  </div>
</div>


.interestBoxes {
  display: flex;
  flex-flow: row wrap;
  justify-content: space-around;
  > div {
    display: flex;
    flex-flow: column nowrap;
    align-items: center;
    > button {
      display: block;
      width: 100%;
      margin-bottom: 1em;
    }
  }
}
```

This brought us down to 502 characters of HTML (almost 50% reduction) and about 14 lines of SCSS!

Libraries like Bootstrap can be very useful, and speed up the development of pages significantly, but that does come at a cost. It's important to keep that in mind...

Once you have completed your site do a production build:

```
npm run build
```

Then compress (archive) up your src folder and submit it in Ilearn.

Grading

- Site from the tutorial completed. 10pts