0. Introduction to Bootstrap Components

http://getbootstrap.com/components/

Bootstrap has over a dozen components. On top of being useful as an introductory framework for responsive design, Bootstrap is actually also great for adding components. Bootstrap makes it easier to do many things, including even a navigation bar, buttons, and many many more.

We recommend you go through each guide and do the exercises associated with it. Obviously, you don't have to memorize all of them - they're there so you can get a basic understanding of each component! You're free to go back to them - or the official documentation on the website - whenever you want. They will always be accessible!

For the exercises, if you want to save them (recommended), you should create a new folder and create seven files - one per bootstrap component we will be teaching. If you don't want to save them, feel free to only make one html file.

Without further ado, here are the seven components we will be teaching! Feel free to go in any order, but we highly recommend you go in order.

- Buttons
- Navigation Bars
- Jumbotrons
- Alerts
- Thumbnails/Cards
- Labels and Badges
- Media Objects

Here is the template for Bootstrap if you don't want to go back and copy it:

```
1   <!DOCTYPE html>
2   <html lang="en">
3     <head>
4       <meta charset="utf-8">
5       <meta http-equiv="X-UA-Compatible" content="IE=edge">
6       <meta name="viewport" content="width=device-width,
7   initial-scale=1">
8       <title>Bootstrap 101 Template</title>
9
10      <!-- Bootstrap -->
11      <!-- Latest compiled and minified CSS -->
12      <link rel="stylesheet"
```

```
13   href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstr
14   ap.min.css"
15   integrity="sha384-BVYiiSIFeK1dGmJRAkycuHAHRg32OmUcww7on3RYdg4Va+P
16   mSTsz/K68vbdEjh4u" crossorigin="anonymous">
17       <!-- Optional theme -->
18       <link rel="stylesheet"
19   href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstr
20   ap-theme.min.css"
21   integrity="sha384-rHyoN1iRsVXV4nD0JutlnGaslCJuC7uwjduW9SVrLvRYooP
22   p2bWYgmgJQIXwl/Sp" crossorigin="anonymous">
23     </head>
24     <body>
25       <h1>Hello, world!</h1>
26
27
28
29
30
31       <!-- Latest compiled and minified JavaScript -->
32       <script
33   src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap
34   .min.js"
35   integrity="sha384-Tc5IQib027qvyjSMfHjOMaLkfuWVxZxUPnCJA7l2mCWNIpG
36   9mGCD8wGNIcPD7Txa" crossorigin="anonymous"></script>
37       <script src="js/bootstrap.min.js"></script>
38     </body>
39   </html>
```

Introduction to Bootstrap

Bootstrap, again, is not a completely new language, but a *framework*. If you remember from the lecture, Bootstrap serves as more of an extension of HTML and CSS to guide the developer into creating both responsive as well as more interesting websites.

This means that, if you code using Bootstrap, you won't be using any unfamiliar code - rather, you'll be using code that adds onto everything you've already learned.

The grid system tutorials was a sneak peek to this. It's noticeable that the only thing we changed the grid <div> tags was the classes. And that's essentially how Bootstrap works! You assign a class to a few tags, and Bootstrap takes care of the messy CSS for you.

In other words, in order to use Bootstrap, all you do is assign a class to a tag. That's it! It's really that simple.

If you're finished, there's an 11th document giving an introduction about Materialize, which is in my opinion a much better version of bootstrap. It deals with Google's material design, which is extremely important. However, Bootstrap is sort of the norm in website development; it's more important to get the fundamentals down before we dive into more interesting frameworks such as Materialize. Additionally, I will be providing no guidance for the new framework, rather, you'll have to go through its official documentation itself. It's a little more challenging, but also far better!

Also, if you're bored with the components and you don't feel like you'd benefit from going through them all, **feel free to skip some and/or go straight to 11. Materialize CSS**! I guarantee Materialize will be extremely fun and much more interesting (I personally like it more than Bootstrap).

The first guide is on buttons. Good luck, and have fun!