

Bootstrap Fundamentals

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Lecture 6

LAST WEEK

- ❑ JavaScript Syntax
- ❑ JavaScript Variables
- ❑ JavaScript Operators
- ❑ JavaScript Expressions
- ❑ JavaScript Keywords
- ❑ JavaScript Comments

TODAY

- ❑ Bootstrap Fundamentals

Bootstrap Fundamentals

Bootstrap is the most popular CSS Framework for developing responsive and mobile-first websites.

Bootstrap 5 is the newest version of Bootstrap. Click on this link to access its documentation and components. www.getbootstrap.com

To add Bootstrap to your project use jsDelivr, a free open source CDN.

For CSS (add this cdn to the head section):

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOMLA
SjC" crossorigin="anonymous">
```

For JavaScript(place this before the closing body tag):

```
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-MrcW6ZMFYlzcLA8NI+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVX
M" crossorigin="anonymous"></script>
```

In order to get the full functionality of Bootstrap, you also need to load the jQuery library.

Creating Website Layout with Bootstrap

STEP 1: Create a folder on your desktop, name it "mywebsite".

STEP 2: Create an index.html file and use the emmet html:5 shortcut to create an html boilerplate.

STEP 3: Go to www.getbootstrap.com, scroll down to where jsDelivr is and copy the <link /> element.

```
<!-- CSS only -->
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOMLA
SjC" crossorigin="anonymous">
```

STEP 4: In your index.html file, go to your <head> element and paste the code you just copied.

STEP 5: Go back to www.getbootstrap.com, copy the <script> element.

```
<!-- JavaScript Bundle with Popper -->
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-MrcW6ZMFYlzcLA88NI+MtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM" crossorigin="anonymous"></script>
```

STEP 6: In your index.html file, scroll down to the closing body tag i.e </body> and paste the code you just copied, just before it.

STEP 7: Go to www.getbootstrap.com, click the “Get Started” button.

STEP 8: On the left sidebar, click the “Components” menu and select “Navbar”.

STEP 9: Scroll down to the “Supported Content” section. Click the copy button to copy the code.

STEP 10: Paste the code you copied in your body element, just before the <script> element.

```
<nav class="navbar navbar-expand-lg navbar-light bg-light">
  <div class="container-fluid">
    <a class="navbar-brand" href="#">Navbar</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent"
aria-expanded="false" aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarSupportedContent">
      <ul class="navbar-nav me-auto mb-2 mb-lg-0">
        <li class="nav-item">
          <a class="nav-link active" aria-current="page" href="#">Home</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Link</a>
        </li>
        <li class="nav-item dropdown">
          <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
            Dropdown
          </a>
```

```

<ul class="dropdown-menu" aria-labelledby="navbarDropdown">
  <li><a class="dropdown-item" href="#">Action</a></li>
  <li><a class="dropdown-item" href="#">Another action</a></li>
  <li><hr class="dropdown-divider"></li>
  <li><a class="dropdown-item" href="#">Something else here</a></li>
</ul>
</li>
<li class="nav-item">
  <a class="nav-link disabled" href="#" tabindex="-1" aria-disabled="true">Disabled</a>
</li>
</ul>
<form class="d-flex">
  <input class="form-control me-2" type="search" placeholder="Search"
aria-label="Search">
  <button class="btn btn-outline-success" type="submit">Search</button>
</form>
</div>
</div>
</nav>

```

STEP 11: Create an external CSS file for your webpage to enable you to add custom styles. Call it "custom.css".

STEP 12: Remember to add a link to your custom CSS file.

Hint: Use <link href="custom.css" rel="stylesheet" />

STEP 13: Add an <header> element after the <nav> element in your index.html file and give it the following bootstrap classes:

- page-header
- header
- container-fluid

```

<header class="page-header header container-fluid">
</header>

```

STEP 14: Add a custom JavaScript file in your project folder, name it "custom.js".

The next thing we are going to do is to include a full-screen background image for our landing page header.

STEP 15: Search for "background images" on google, download anyone of your choice and save to your project folder. Name it "background-image".

STEP 16: Copy the code below and paste it your the custom.js file:

```

var ready = (callback) => {
  if (document.readyState !== "loading") callback();
  else document.addEventListener("DOMContentLoaded", callback);
}
ready(() => {

```

```
document.querySelector(".header").style.height = window.innerHeight + "px";
})
```

STEP 17: Copy the code below and paste in your custom.css file:

```
.header {
  background-image: url('background-image.jpg');
  background-size: cover;
  background-position: center;
  position: relative;
}
```

To make the background image extra stylish, we will also add an overlay. For that, create another div inside the <header> element you just created earlier.

STEP 18: Create a div inside the <header> element. Give it a class "overlay"

```
<div class="overlay"></div>
```

STEP 19: Inside the header element, after the div you created in the previous step, add a <div> element and give it a class of "description". Inside this div, add the following:

- An h1 element with the content "My first website".
- A paragraph element. In the content, give a brief description of yourself.

STEP 20: Add the following to your custom.css file:

```
.description {
  left: 50%;
  position: absolute;
  top: 45%;
  transform: translate(-50%, -55%);
  text-align: center;
}
.description h1 {
  color: #6ab446;
}
.description p {
  color: #fff;
  font-size: 1.3rem;
  line-height: 1.5;
}
```

STEP 21: After your brief description, add a button element with the content "Tell me more!" and give the button the following CSS classes:

- btn
- btn-outline-secondary
- btn-lg

STEP 22: In your custom CSS file, paste the following code:

```
.description button {  
    border: 1px solid #6ab446;  
    background: #6ab446;  
    border-radius: 0;  
    color: #fff;  
}  
.description button:hover {  
    border: 1px solid #fff;  
    background: #fff;  
    color: #000;  
}
```

STEP 23: Save your code and refresh your browser.