

Day 3

Project Heartcode

**Hands-on Workshop:
Bootstrap & Lottiefiles**

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<https://tinyurl.com/heartcode2023cdac>

01

RECAP

HTML CSS

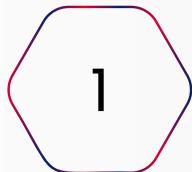


HTML & CSS

- **HTML** is used to **create actual content of a webpage**
- **CSS** is responsible for the **design / style of the webpage**

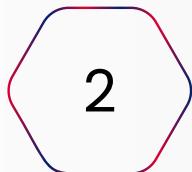


3 Ways to use CSS



Inline Style

CSS code is placed directly into an HTML element within the <body> section of the webpage



Internal Style Sheet

CSS code is placed into a separate, dedicated area within the <head> section of the webpage



External Style Sheet

CSS code is placed into a separate file and then linked to a webpage

CSS Syntax: Selector

Type Selector (Element)

```
p {  
    color: blue;  
}
```

Class Selector

```
.normal {  
    color: black;  
}
```

id Selector

```
#emphasis {  
    font-style: bold;  
}
```

Universal Selector (*)

```
* {  
    font-style: bold;  
}
```

Cascading

A browser processes all CSS code, including all three ways introduced earlier (inline, internal style sheet, external style sheet)

The following cascading order is applied:

1. Inline Style has **first priority**
2. Internal Style Sheet has **second priority**
3. External Style Sheet has **third priority**
4. Web Browser default has **lowest priority**

Conflict Resolving

Inline Rule

```
<h1 style="color: blue"  
     style="color: red;">  
Hello World!</h1>
```

For inline style, **first one** applies

Last Rules

```
p { color: blue;  
}  
  
p { color: red;  
}
```

If two selectors are identical, the **latter of the two will take precedence**

Specificity

```
* { font-family: Arial;  
}  
  
h1 { font-family: 'Times New Roman';  
}
```

The **more specific rule will take precedence** over more generic ones

Important

```
p { color: blue !important;  
}  
  
p { color: red;  
}
```

You can **add !important** after any property that should be considered more important than other rules



02

BOOTSTRAP



What is Bootstrap?

- **Bootstrap** is a giant collection of handy, reusable bits of code written in HTML, CSS & Javascript
- It is a front-end development framework that enables developers to quickly build fully responsive websites
- **Free and Open-Source CSS Frameworks**
 - Pre-written Codes
 - Responsiveness

<https://getbootstrap.com/>

Using Bootstrap – CDN

Using BootstrapCDN – Include the following in the **<head>** and **<body>** of the webpage



Include via CDN

When you only need to include Bootstrap's compiled CSS or JS, you can use [jsDelivr](#). See it in action with our simple [quick start](#), or [browse the examples](#) to jumpstart your next project. You can also choose to include Popper and our JS [separately](#).

```
<!-- CSS only -->
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bi
  ↵
```



```
<!-- JavaScript Bundle with Popper -->
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bi
  ↵
```



NOTE: This will load the libraries through the CDN – not from your server

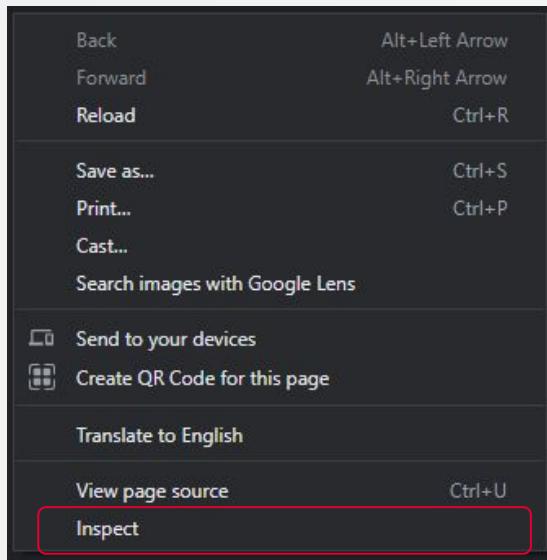
Bootstrap Template

Workshop > day3 > samplepages > sample1.html > ...

```
1  <html lang="en">
2  <head>
3      <meta charset="UTF-8">
4      <meta http-equiv="X-UA-Compatible" content="IE=edge">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Project Heartcode</title>
7      <!-- CSS only -->
8      <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css" rel="stylesheet"
9           integrity="sha384-iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/Ujpbcx/TYkizhLB6+fzT" crossorigin="anonymous">
10 </head>
11
12 <body>
13     <!-- JavaScript Bundle with Popper -->
14     <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.bundle.min.js"
15           integrity="sha384-u10knCvxWvY5kfNBILK2hRnQC3Pr17a+RTT6rIHI7NnikvbZlHgTPQOmMi466C8" crossorigin="anonymous"></script>
16 </body>
17 </html>
```

sample1.html

Chrome – Developer Console



The screenshot shows the Google search results page with the developer tools open. The Elements tab is selected, displaying the DOM structure of the page. The main content is the Google logo and search bar. The developer tools interface includes tabs for Dimensions, Elements, Console, and Network. The bottom right corner shows the user agent stylesheet for the current page.

Bootstrap – Text

- Decorate style of text
 - `text-*`

```
<p class="text-start">Start aligned text on all viewport sizes.</p>
<p class="text-center">Center aligned text on all viewport sizes.</p>
<p class="text-end">End aligned text on all viewport sizes.</p>
```

Start aligned text on all viewport sizes.

Center aligned text on all viewport sizes.

End aligned text on all viewport sizes.

Bootstrap – Text

- Font weight & Italics
 - fw-*
 - fst-*

```
<p class="fw-bold">Bold text.</p>
<p class="fw-bolder">Bolder weight text (relative to the parent element).</p>
<p class="fw-semibold">Semibold weight text.</p>
<p class="fw-normal">Normal weight text.</p>
<p class="fw-light">Light weight text.</p>
<p class="fw-lighter">Lighter weight text (relative to the parent element).</p>

<p class="fst-italic">Italic text.</p>
<p class="fst-normal">Text with normal font style</p>
```

Bold text.

Bolder weight text (relative to the parent element).

Semibold weight text.

Normal weight text.

Light weight text.

Lighter weight text (relative to the parent element).

Italic text.

Text with normal font style

Bootstrap - Colours & Background

- Decorate color of text and background
 - `text-*`
 - `bg-*`
 - `text-bg-*`

```
<div class="text-primary p-3">Primary with contrasting color</div>
<div class="text-secondary p-3">Secondary with contrasting color</div>
<div class="text-success p-3">Success with contrasting color</div>
<div class="text-danger p-3">Danger with contrasting color</div>

<div class="text-bg-warning p-3">Warning with contrasting color</div>
<div class="text-bg-info p-3">Info with contrasting color</div>
<div class="text-bg-light p-3">Light with contrasting color</div>
<div class="text-bg-dark p-3">Dark with contrasting color</div>
```

Primary with contrasting color

Secondary with contrasting color

Success with contrasting color

Danger with contrasting color

Warning with contrasting color

Info with contrasting color

Light with contrasting color

Dark with contrasting color

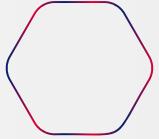
Bootstrap – Links

- Decorate color of links
 - link-*

```
<a href="#" class="link-primary">Primary link</a>
<a href="#" class="link-secondary">Secondary link</a>
<a href="#" class="link-success">Success link</a>
<a href="#" class="link-danger">Danger link</a>
<a href="#" class="link-warning">Warning link</a>
<a href="#" class="link-info">Info link</a>
<a href="#" class="link-light">Light link</a>
<a href="#" class="link-dark">Dark link</a>
```

[Primary link](#) [Secondary link](#) [Success link](#) [Danger link](#) [Warning link](#) [Info link](#) [Light link](#) [Dark link](#)

Bootstrap – Stacks



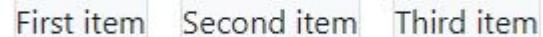
Vertical Stack – **vstack**

```
<div class="vstack gap-3">
  <div class="bg-light border">First item</div>
  <div class="bg-light border">Second item</div>
  <div class="bg-light border">Third item</div>
</div>
```



Horizontal Stack – **hstack**

```
<div class="hstack gap-3">
  <div class="bg-light border">First item</div>
  <div class="bg-light border">Second item</div>
  <div class="bg-light border">Third item</div>
</div>
```



Bootstrap – Tables

```
<table border="2">
```

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Morning	Eat	Eat	Eat	Eat	Eat	Eat	Eat
Afternoon	Code	Code	Code	Code	Code	Code	Code
Night	Sleep	Sleep	Sleep	Sleep	Sleep	Sleep	Sleep

```
<table class="table">
```

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Morning	Eat	Eat	Eat	Eat	Eat	Eat	Eat
Afternoon	Code	Code	Code	Code	Code	Code	Code
Night	Sleep	Sleep	Sleep	Sleep	Sleep	Sleep	Sleep

Bootstrap - Tables

```
<table class="table">
    <tr class="table-warning">
```

Class	Heading	Heading
Default	Cell	Cell
Primary	Cell	Cell
Secondary	Cell	Cell
Success	Cell	Cell
Danger	Cell	Cell
Warning	Cell	Cell
Info	Cell	Cell
Light	Cell	Cell
Dark	Cell	Cell

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Morning	Eat	Eat	Eat	Eat	Eat	Eat	Eat
Afternoon	Code	Code	Code	Code	Code	Code	Code
Night	Sleep	Sleep	Sleep	Sleep	Sleep	Sleep	Sleep

Exercise 1 – Table and Links



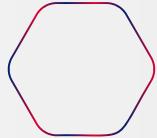
Project Heartcode

The table below is a bordered and striped table with hovered rows

Sample Namelist for Project Heartcode

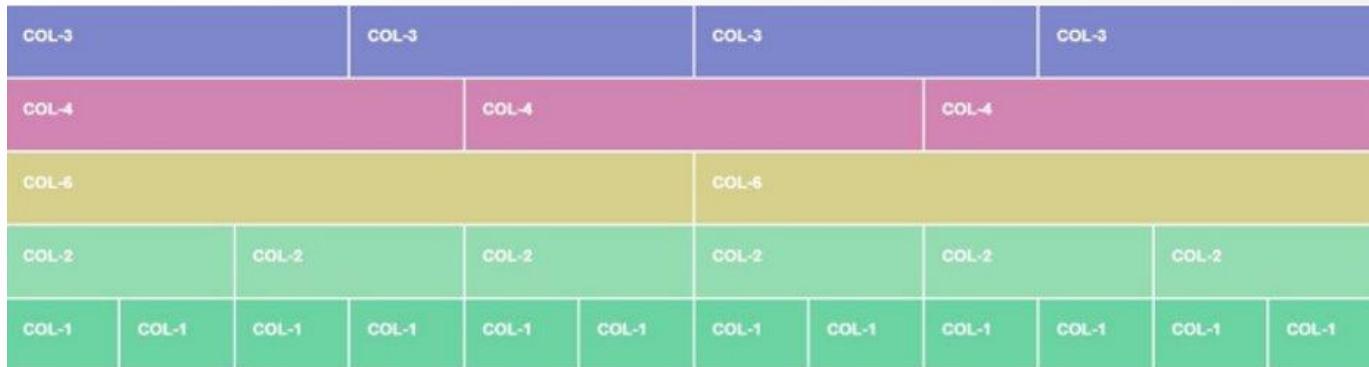
Firstname	Lastname	Email	Role
Euodia	Tan	euodia@heartcode.com	Project Lead
Jia En	Go	jiaen@heartcode.com	Project Co-Lead
Jun Yi	Seng	junyi@heartcode.com	Trainer
Farand	Tan	farand@heartcode.com	Trainer
Total Number of People:			4

*emails are links



Bootstrap Features: Grid System

- Use our powerful mobile-first flexbox grid to build layouts of all shapes and sizes thanks to a **twelve column system**, six default responsive tiers, Sass variables and mixins, and dozens of predefined classes



Bootstrap Features: Grid System



Container: most basic layout element in bootstrap; required for using bootstrap's grid system

Responsive breakpoints: scale up / down elements as the viewpoints (browser width) changes

Six Responsive Breakpoints

- Extra small (.xs)
- Small (.sm)
- Medium (.md)
- Large (.lg)
- Extra large (.xl)
- Extra extra large (.xxl)

`<div class="container">`

- Responsive, fixed-width container, meaning its max-width changes at each breakpoint

`<div class="container-fluid">`

- Full width container, spanning the entire width of the viewport

<https://getbootstrap.com/docs/5.2/layout/breakpoints/>

Grid System

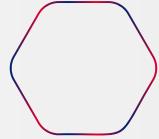
- Bootstrap works with a **12 columns grid system**

Example

```
<style>
  .box {
    background-color: goldenrod;
    border: 1px solid black;
  }
</style>
```

```
<div class = "container">
  <div class = "row">
    <div class = "col box">1 of 3 </div>
    <div class = "col-6 box">2 of 3 (wider) </div>
    <div class = "col box">3 of 3 </div>
  </div>
</div>
```





Grid System - Breakpoints

Breakpoint	Class infix	Dimensions
X-Small	None	<576px
Small	sm	≥576px
Medium	md	≥768px
Large	lg	≥992px
Extra large	xl	≥1200px
Extra extra large	xxl	≥1400px

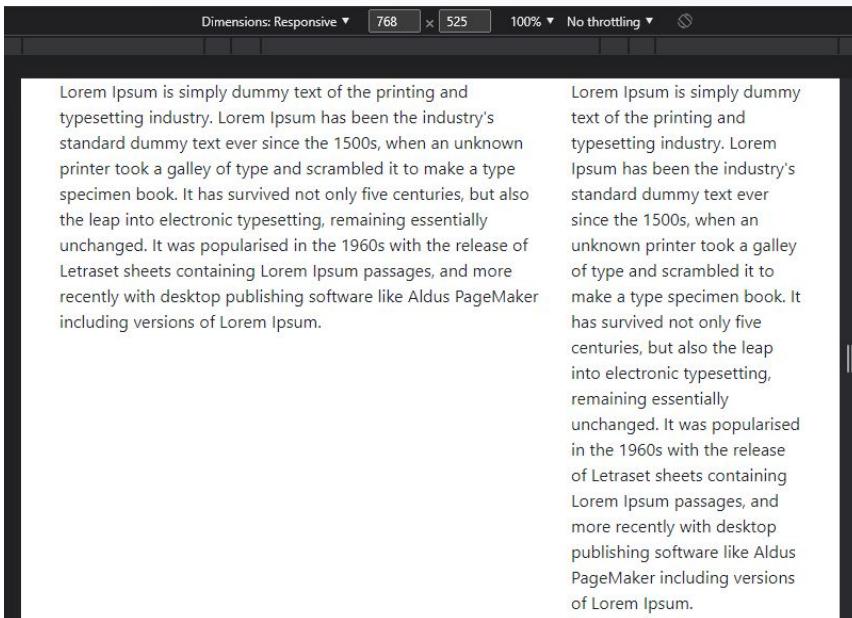
Grid System

- Use `.col-md-*` classes to create a grid system that starts out stacked and becomes horizontal after reaching the medium breakpoint (md) onwards

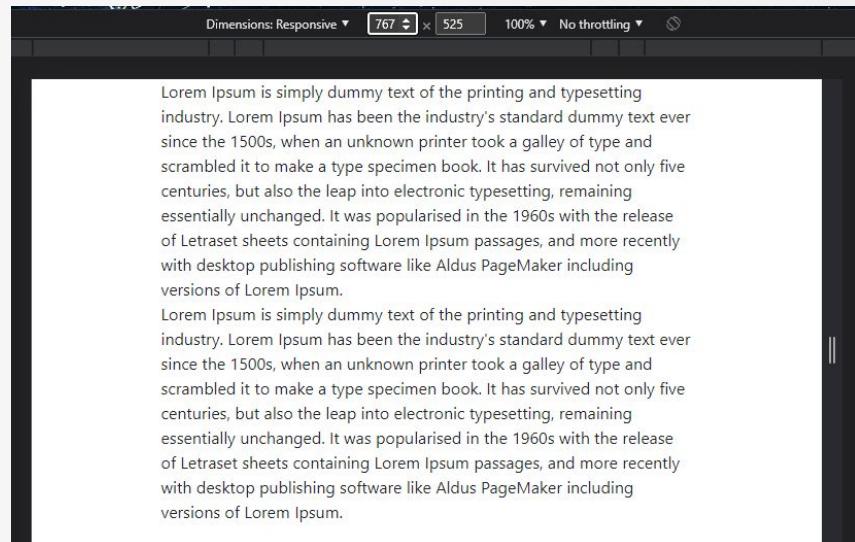
```
<div class = "container">  
  <div class = "row">  
    <div class = "col-md-8">Lorem Ipsum .....</div>  
    <div class = "col-md-4">Lorem Ipsum .....</div>  
  </div>  
</div>
```

Grid System

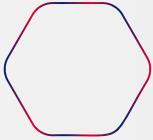
Dimensions: 768 x 525



Dimensions: 767 x 525



Grid Content Alignment



Place content in the center:

```
<div class = "row justify-content-center" >
```

Place content at the end:

```
<div class = "row justify-content-end" >
```

Place empty space equally around the content

```
<div class = "row justify-content-around" >
```

Empty space in between the content:

```
<div class = "row justify-content-between" >
```

Heartcode

Heartcode

Heartcode

Heartcode

Exercise 2 – Working with grid

This is a grid practice

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris cursus urna gravida, tincidunt nunc a, consectetur nisl. Praesent ac ligula lorem. Integer blandit a nisi eu pharetra. Ut molestie ornare lacus, eu ullamcorper odio fringilla eu. Fusce non felis dolor. Sed hendrerit luctus ligula vitae pulvinar. Suspendisse potenti. Aenean turpis lorem, molestie quis sodales in, mattis ut ante. Proin a lorem sit amet justo fermentum sollicitudin sit amet et elit. Curabitur pharetra nisl elit, at iaculis orci bibendum ultrices. Donec suscipit tempus orci, ut cursus lectus pharetra ut. Fusce sit amet tortor et risus vulputate iaculis. In a rutrum mi. Sed convallis et lectus ut interdum.

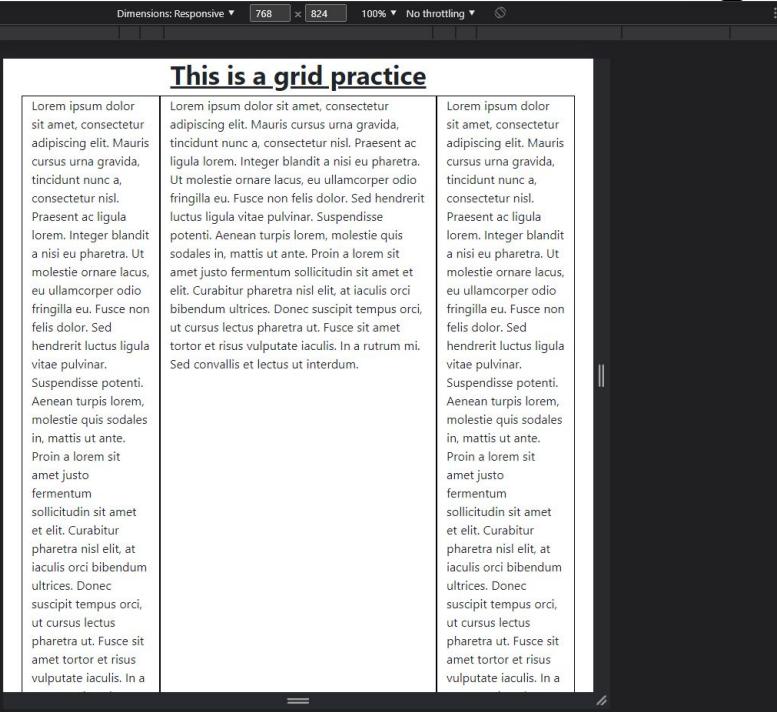
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris cursus urna gravida, tincidunt nunc a, consectetur nisl. Praesent ac ligula lorem. Integer blandit a nisi eu pharetra. Ut molestie ornare lacus, eu ullamcorper odio fringilla eu. Fusce non felis dolor. Sed hendrerit luctus ligula vitae pulvinar. Suspendisse potenti. Aenean turpis lorem, molestie quis sodales in, mattis ut ante. Proin a lorem sit amet justo fermentum sollicitudin sit amet et elit. Curabitur pharetra nisl elit, at iaculis orci bibendum ultrices. Donec suscipit tempus orci, ut cursus lectus pharetra ut. Fusce sit amet tortor et risus vulputate iaculis. In a rutrum mi. Sed convallis et lectus ut interdum.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris cursus urna gravida, tincidunt nunc a, consectetur nisl. Praesent ac ligula lorem. Integer blandit a nisi eu pharetra. Ut molestie ornare lacus, eu ullamcorper odio fringilla eu. Fusce non felis dolor. Sed hendrerit luctus ligula vitae pulvinar. Suspendisse potenti. Aenean turpis lorem, molestie quis sodales in, mattis ut ante. Proin a lorem sit amet justo fermentum sollicitudin sit amet et elit. Curabitur pharetra nisl elit, at iaculis orci bibendum ultrices. Donec suscipit tempus orci, ut cursus lectus pharetra ut. Fusce sit amet tortor et risus vulputate iaculis. In a rutrum mi. Sed convallis et lectus ut interdum.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris cursus urna gravida, tincidunt nunc a, consectetur nisl. Praesent ac ligula lorem. Integer blandit a nisi eu pharetra. Ut molestie ornare lacus, eu ullamcorper odio fringilla eu. Fusce non felis dolor. Sed hendrerit luctus ligula vitae pulvinar. Suspendisse potenti. Aenean turpis lorem, molestie quis sodales in, mattis ut ante. Proin a lorem sit amet justo fermentum sollicitudin sit amet et elit. Curabitur pharetra nisl elit, at iaculis orci bibendum ultrices. Donec suscipit tempus orci, ut cursus lectus pharetra ut. Fusce sit amet tortor et risus vulputate iaculis. In a rutrum mi. Sed convallis et lectus ut interdum.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris cursus urna gravida, tincidunt nunc a, consectetur nisl. Praesent ac ligula lorem. Integer blandit a nisi eu pharetra. Ut molestie ornare lacus, eu ullamcorper odio fringilla eu. Fusce non felis dolor. Sed hendrerit luctus ligula vitae pulvinar. Suspendisse potenti. Aenean turpis lorem, molestie quis sodales in, mattis ut ante. Proin a lorem sit amet justo fermentum sollicitudin sit amet et elit. Curabitur pharetra nisl elit, at iaculis orci bibendum ultrices. Donec suscipit tempus orci, ut cursus lectus pharetra ut. Fusce sit amet tortor et risus vulputate iaculis. In a rutrum mi. Sed convallis et lectus ut interdum.

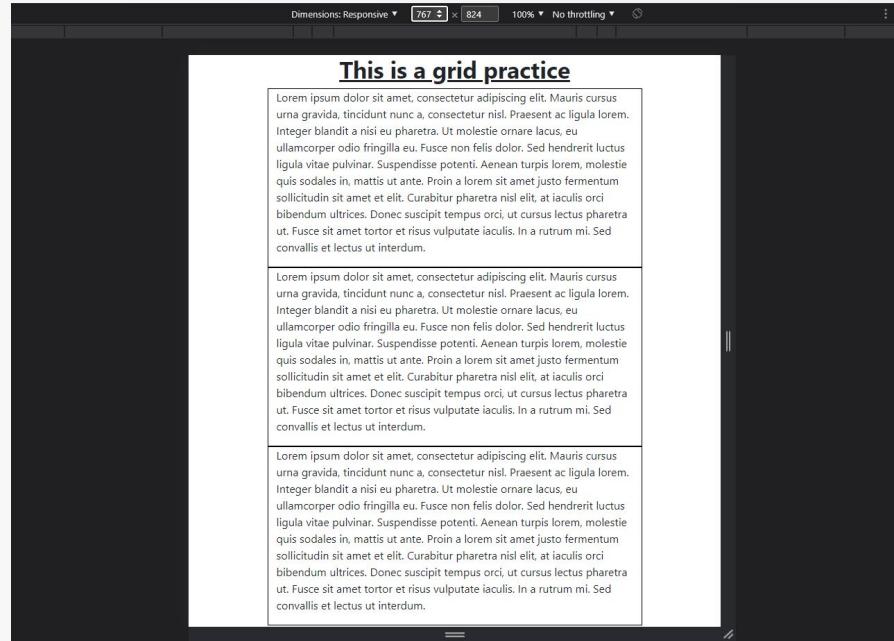
Exercise 2 – Making things Responsive



At: 768 x 824

Medium

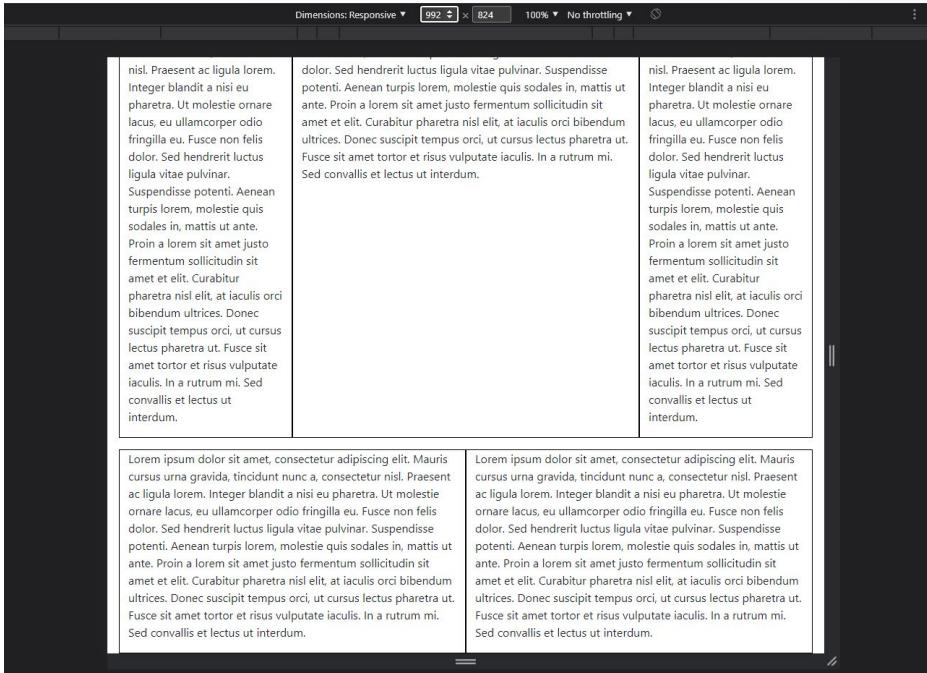
md



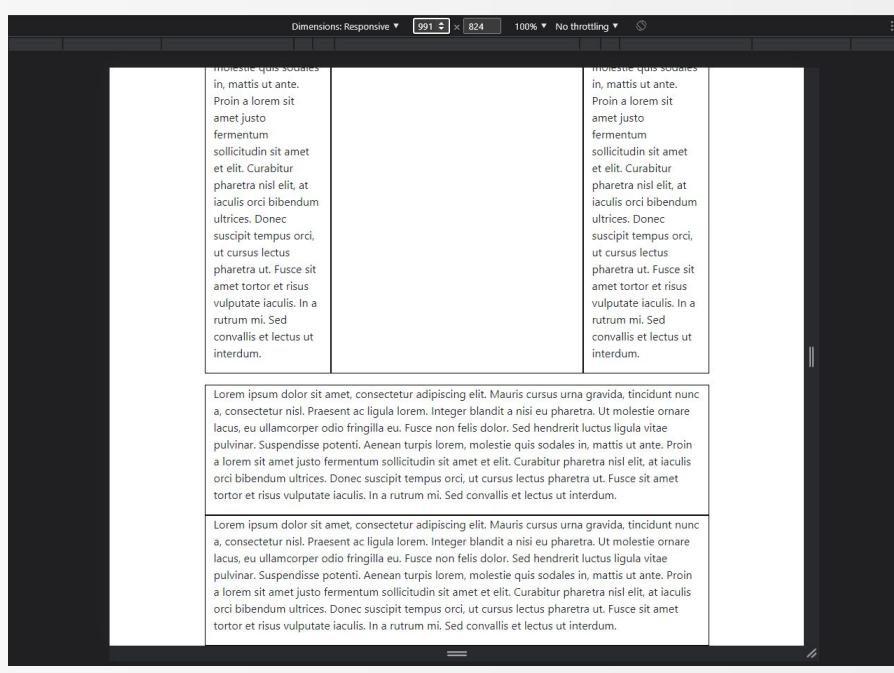
At: 767 x 824

≥768px

Exercise 2 – Making things Responsive



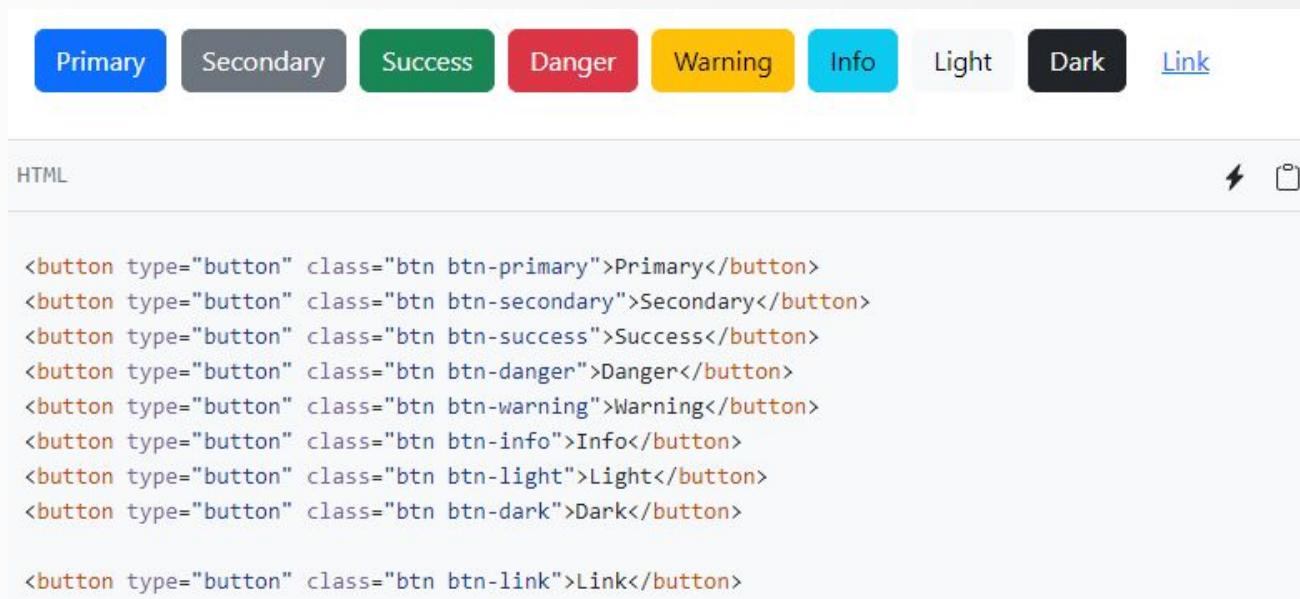
At: 992 x 824



At: 991 x 824

Bootstrap – Buttons

Bootstrap includes several predefined button styles



The image shows a code editor interface with a sidebar on the left containing eight colored buttons labeled "Primary", "Secondary", "Success", "Danger", "Warning", "Info", "Light", and "Dark". The "Link" button is labeled in blue text on a black background. Below the sidebar is a horizontal line, followed by the word "HTML" and two small icons: a lightning bolt and a clipboard.

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

<button type="button" class="btn btn-link">Link</button>
```

Bootstrap – Buttons

Primary Secondary Success Danger Warning Info Light Dark

HTML

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

Bootstrap - Button Group

You can also group buttons together



HTML



```
<div class="btn-group" role="group" aria-label="Basic mixed styles example">
  <button type="button" class="btn btn-danger">Left</button>
  <button type="button" class="btn btn-warning">Middle</button>
  <button type="button" class="btn btn-success">Right</button>
</div>
```

Bootstrap – Nav

Bootstrap provides ready-to-use, flexible, well-styled navigation links and bars

Active Link Link Disabled

```
<nav class="nav">
  <a class="nav-link active" aria-current="page" href="#">Active</a>
  <a class="nav-link" href="#">Link</a>
  <a class="nav-link" href="#">Link</a>
  <a class="nav-link disabled">Disabled</a>
</nav>
```

Bootstrap – NavBars

Bootstrap's powerful, responsive navigation header, the NavBar



Search

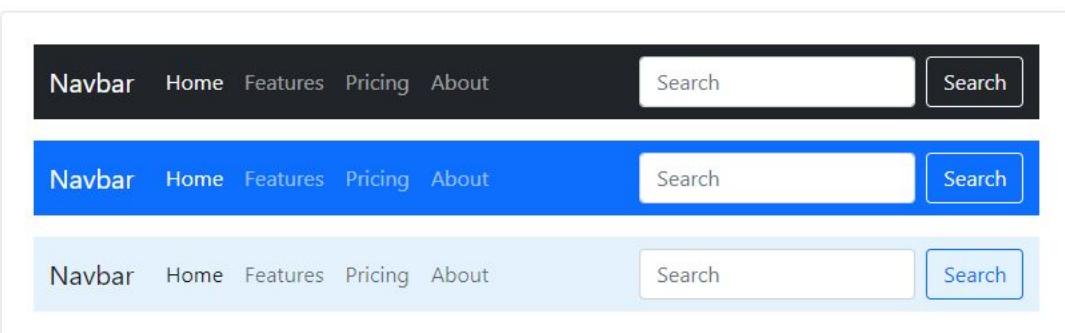
Navbar Home Features Pricing Disabled

```
<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="#navbarNav">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarNav">
      <ul class="navbar-nav">
        <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="#">Features</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Pricing</a>
        </li>
        <li class="nav-item">
          <a class="nav-link disabled">Disabled</a>
        </li>
      </ul>
    </div>
  </div>
</nav>
```

Copy

Bootstrap – NavBars

NavBars have different color schemes that you can choose from



The image displays three horizontal navigation bars (NavBars) side-by-side, each with a different background color and a search bar. The firstNavBar has a dark background (black), the second has a primary color (blue), and the third has a light background (light blue). Each NavBar includes a logo labeled "Navbar", followed by five menu items: Home, Features, Pricing, and About. To the right of the menu items is a search input field with the placeholder "Search" and a "Search" button.

```
<nav class="navbar navbar-dark bg-dark">
  <!-- Navbar content -->
</nav>

<nav class="navbar navbar-dark bg-primary">
  <!-- Navbar content -->
</nav>

<nav class="navbar navbar-light" style="background-color: #e3f2fd;">
  <!-- Navbar content -->
</nav>
```

Copy

Bootstrap – Jumbotron

Lightweight, flexible component that can optionally extend the entire viewpoint to showcase key marketing messages

Fluid jumbotron

This is a modified jumbotron that occupies the entire horizontal space of its parent.

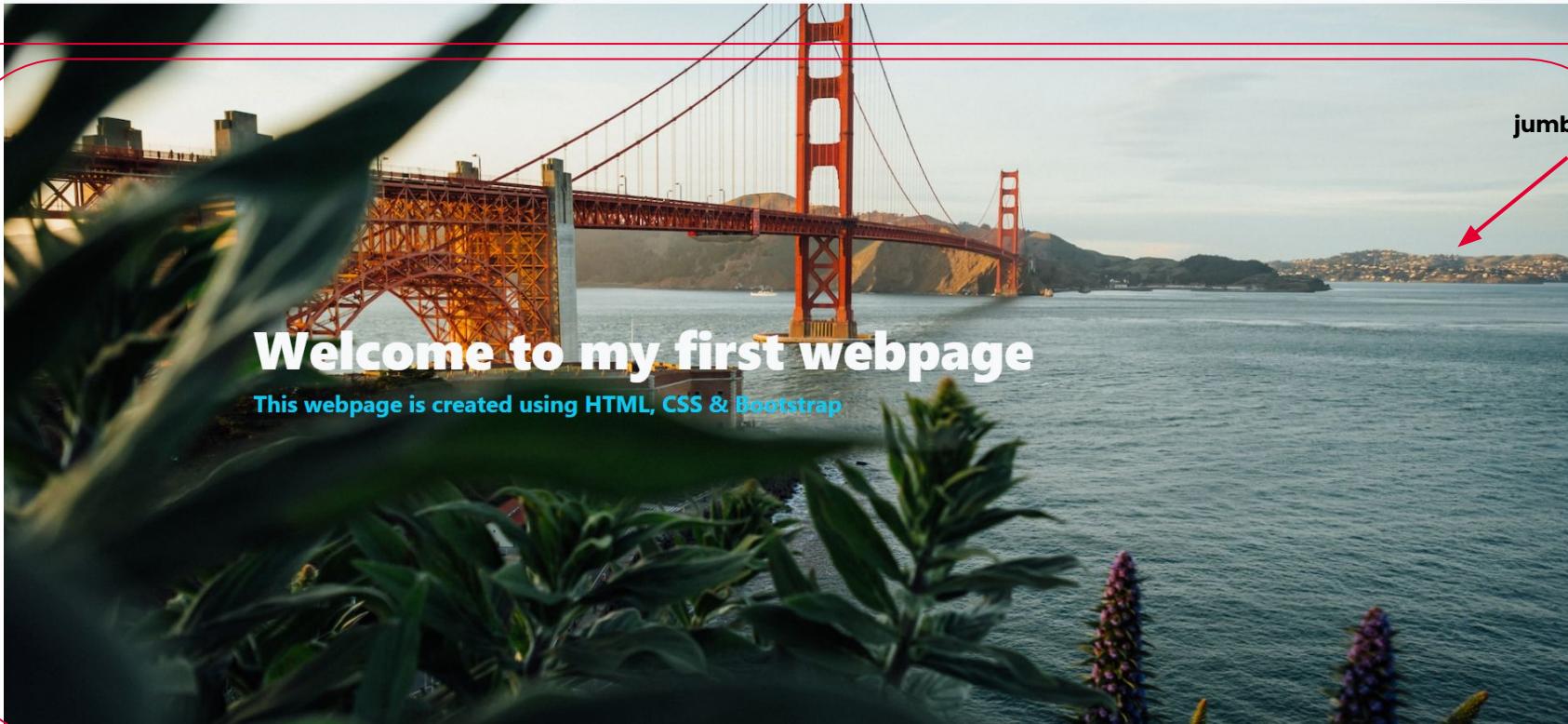
```
<div class="jumbotron jumbotron-fluid">
  <div class="container">
    <h1 class="display-4">Fluid jumbotron</h1>
    <p class="lead">This is a modified jumbotron that occupies the entire horizontal space of its parent.</p>
  </div>
</div>
```

Exercise 3 – Bootstrap Practice

My First Website Jumbotron Carousel Cards ▾

Search

Search



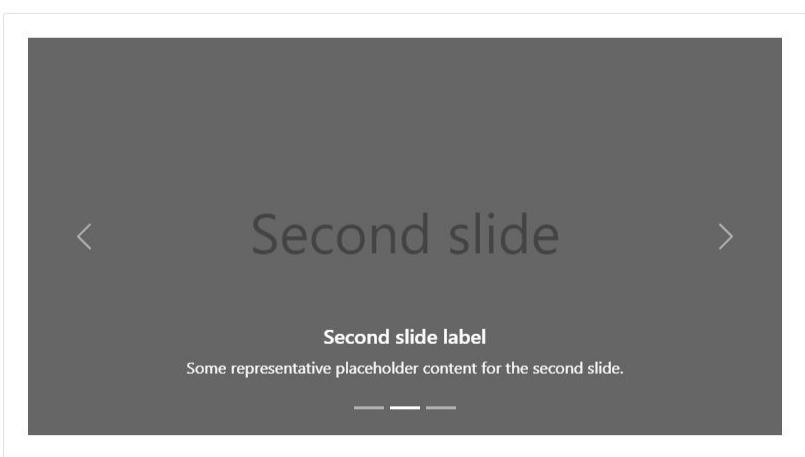
Given: bg.jpg

navbar

jumbotron

Bootstrap - Carousel

- A slideshow for cycling through a series of contents
- It works with a series of images, text, or custom markup
- Support for previous / next controls and indicators are also included

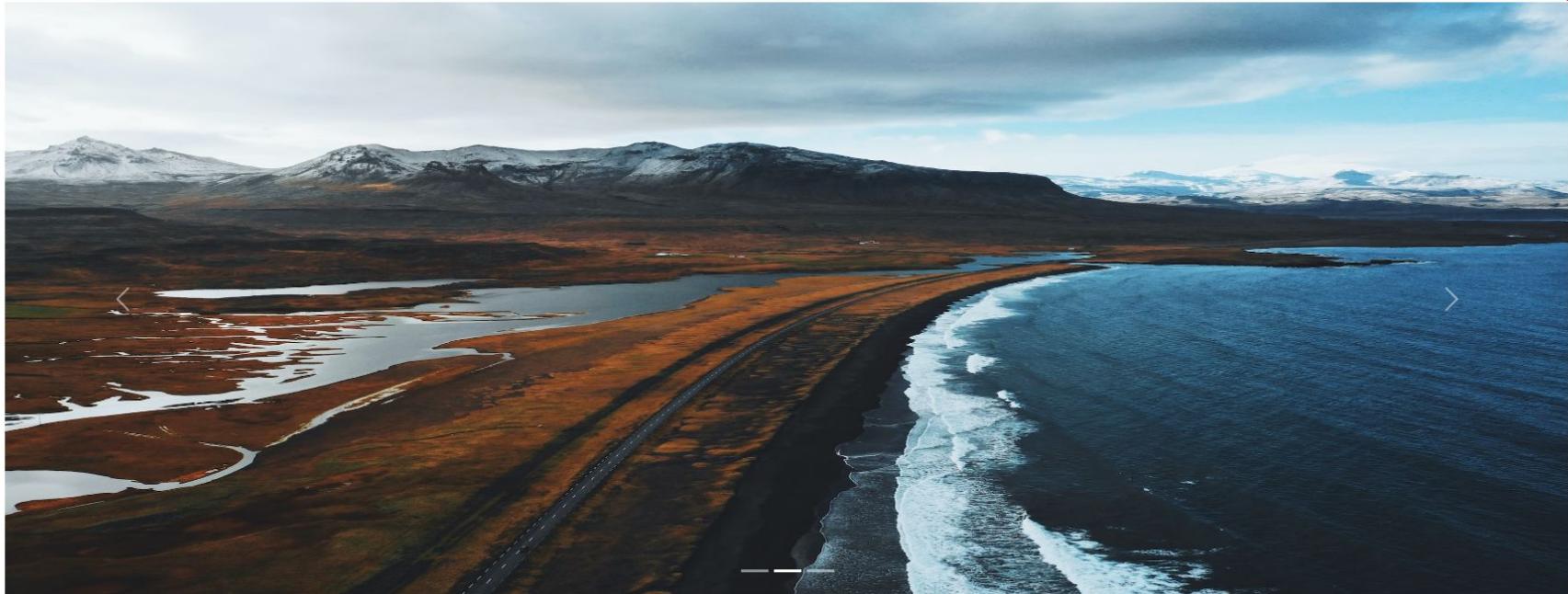


```
<div id="carouselExampleCaptions" class="carousel slide" data-bs-ride="carousel">
  <div class="carousel-indicators">
    <button type="button" data-bs-target="#carouselExampleCaptions" data-bs-slide-to="0" class="active"></button>
    <button type="button" data-bs-target="#carouselExampleCaptions" data-bs-slide-to="1" aria-label="Slide 2"></button>
    <button type="button" data-bs-target="#carouselExampleCaptions" data-bs-slide-to="2" aria-label="Slide 3"></button>
  </div>
  <div class="carousel-inner">
    <div class="carousel-item active">
      
      <div class="carousel-caption d-none d-md-block">
        <h5>First slide label</h5>
        <p>Some representative placeholder content for the first slide.</p>
      </div>
    </div>
    <div class="carousel-item">
      
      <div class="carousel-caption d-none d-md-block">
        <h5>Second slide label</h5>
        <p>Some representative placeholder content for the second slide.</p>
      </div>
    </div>
    <div class="carousel-item">
      
      <div class="carousel-caption d-none d-md-block">
        <h5>Third slide label</h5>
        <p>Some representative placeholder content for the third slide.</p>
      </div>
    </div>
  </div>
  <button class="carousel-control-prev" type="button" data-bs-target="#carouselExampleCaptions" data-bs-slide="prev">
    <span class="carousel-control-prev-icon" aria-hidden="true"></span>
    <span class="visually-hidden">Previous</span>
  </button>
  <button class="carousel-control-next" type="button" data-bs-target="#carouselExampleCaptions" data-bs-slide="next">
    <span class="carousel-control-next-icon" aria-hidden="true"></span>
    <span class="visually-hidden">Next</span>
  </button>
</div>
```

Exercise 3 – Bootstrap Practice

carousel

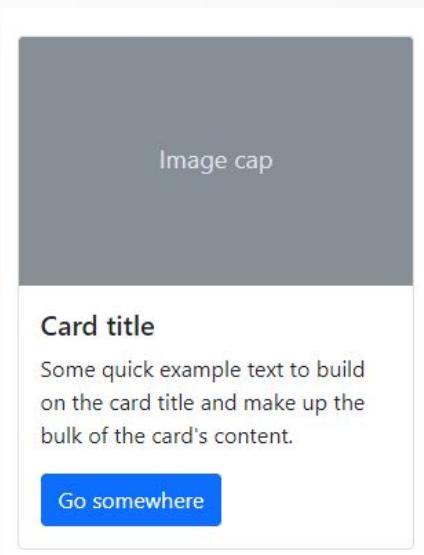
Below is a carousel of beautiful sceneries



Given: image1.jpg, image2.jpg, image3.jpg

Bootstrap – Cards

Bootstrap provides a ready-to-use card that can contain both text and image



```
<div class="card" style="width: 18rem;">
  
  <div class="card-body">
    <h5 class="card-title">Card title</h5>
    <p class="card-text">Some quick example text to build on the card title and make up the bulk o...
    <a href="#" class="btn btn-primary">Go somewhere</a>
  </div>
</div>
```

Bootstrap - Forms

```
<form>
  <div class="mb-3">
    <label for="exampleInputEmail1" class="form-label">Email address</label>
    <input type="email" class="form-control" id="exampleInputEmail1" aria-describedby="emailHelp">
    <div id="emailHelp" class="form-text">We'll never share your email with anyone else.</div>
  </div>
  <div class="mb-3">
    <label for="exampleInputPassword1" class="form-label">Password</label>
    <input type="password" class="form-control" id="exampleInputPassword1">
  </div>
  <div class="mb-3 form-check">
    <input type="checkbox" class="form-check-input" id="exampleCheck1">
    <label class="form-check-label" for="exampleCheck1">Check me out</label>
  </div>
  <button type="submit" class="btn btn-primary">Submit</button>
</form>
```

Email address

We'll never share your email with anyone else.

Password

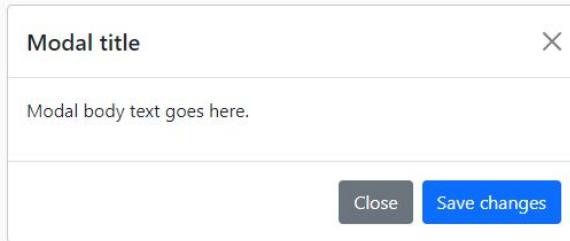
Check me out

Submit

<https://getbootstrap.com/docs/5.2/forms/overview/>

Bootstrap - Modal

Use modal plugin to add dialogs to your site for lightboxes, user notifications, or completely custom content



Launch demo modal

```
<!-- Button trigger modal -->
<button type="button" class="btn btn-primary" data-bs-toggle="modal" data-bs-target="#exampleModal"
    Launch demo modal
/>
```



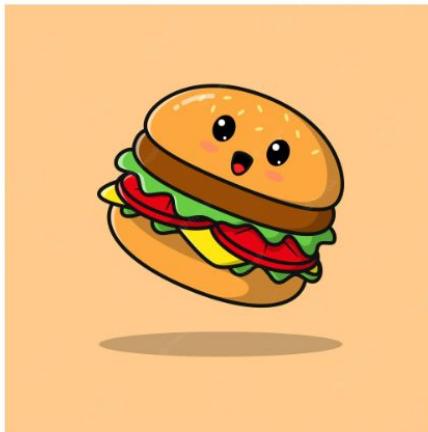
```
<!-- Modal -->
<div class="modal fade" id="exampleModal" tabindex="-1" aria-labelledby="exampleModalLabel" aria-h:
    <div class="modal-dialog">
        <div class="modal-content">
            <div class="modal-header">
                <h5 class="modal-title" id="exampleModalLabel">Modal title</h5>
                <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
            </div>
            <div class="modal-body">
                ...
            </div>
            <div class="modal-footer">
                <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">Close</button>
                <button type="button" class="btn btn-primary">Save changes</button>
            </div>
        </div>
    </div>
</div>
```

Copy

Exercise 3 – Bootstrap Practice

cards

Below are cards of good food



Burgers
Must have

Goes to Macdonalds



Fries
Large Fries

Goes to Burger King



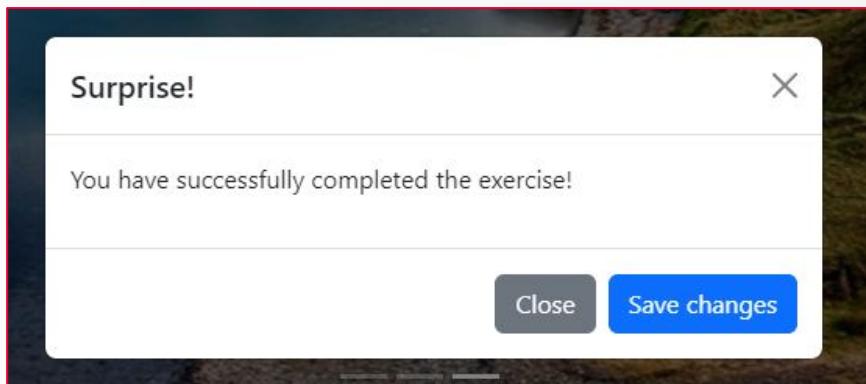
Drinks
Let's try modal

Launch my Modal!

Button to
launch modal

Given: card1.jpg, card2.jpg, card3.jpg

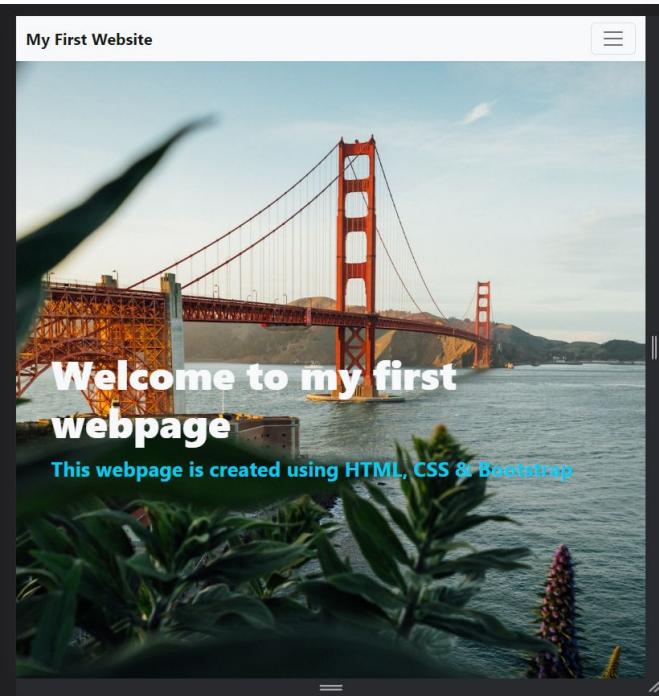
Exercise 3 – Bootstrap Practice



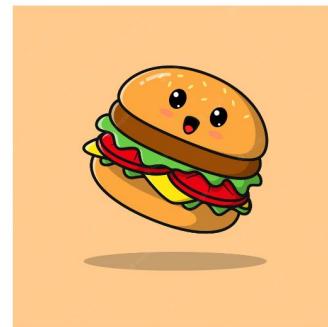
modal

Exercise 3 – Bootstrap Practice

The webpage also has to be viewable in mobile (Responsive)



Below are cards of good food



[Goes to Macdonalds](#)



Fries
Large Fries

[Goes to Burger King](#)



Drinks
Let's try modal

[Launch my Modal!](#)

wooclap



<https://tinyurl.com/heartcodeworkshopday3>





LottieFiles

LottieFiles consists of two elements for it to work:

1. **Script** for Lottiefiles to run
2. **Lottiefiles tag** to designate where to place the Lottiefile and how you want to run it

```
# Lottiefiles Script - do not change
```

```
<script src="https://unpkg.com/@lottiefiles/lottie-player@latest/dist/lottie-player.js"></script>
```

```
# Lottiefiles Tag - change src to your own animation link
```

```
<lottie-player src="<<LINK TO ANIMATION>>" background="transparent" speed="1" style="width: 300px; height: 300px;" hover loop controls autoplay></lottie-player>
```



Syntax



LottieFiles

1. **Mode** - bounce
2. **Background** - “transparent” or colour name or colour hex
3. **Speed** - 1, 2, 3 and so on
4. **Style** - width and height (not scalable)
5. **Properties**
 - a. Hover
 - b. Loop
 - c. Autoplay
 - d. Controls



Exercise 1



LottieFiles

**Create a webpage that includes an animation
of your FAVOURITE programming
language/library/framework with an
explanation of why you like it!**





Exercise 2



LottieFiles

Create a webpage that includes the following loop animations displayed on the same line:

- 1. An Animal** – hover, speed 3
- 2. A Person** – autoplay, red background
- 3. Any Food/Beverage** – controls, bounce



BONUS CHALLENGE

Project Heartcode Projects Contact Us



Project HeartCode is an initiative by SMU Ellipsis to help expose secondary school students to basic web development such as HTML, CSS and bootstrap. In fact, the websites that they showcased in the end were truly surprising as they were not works that could easily be done by students with only a week of experience.

View the projects done by our mentees by clicking the projects tab in the navigation bar or clicking the button below!

[View Projects](#)

BONUS CHALLENGE

Project Heartcode Projects Contact Us

Project 1



Project HeartCode is an initiative by SMU Ellipsis to help students showcase their projects. The websites that they showcased in the end were truly surprising.

development such as HTML, CSS and bootstrap. In fact, the website was built by students with only a week of experience.

View the projects done by our mentees by clicking the projects

Close

Next Project

View Projects

Key Takeaways – Bootstrap

1. **Bootstrap** is a **free and open-source CSS framework**
 - Pre-written codes
 - Responsiveness
1. Use the **grid system** to have a responsive layout
2. **Lottiefiles** only requires a script and the tag

Thank You!

Do you have any feedback?

