Lesson 6

Working with Bootstrap

**ST0501
Front End Web
Development**

Lesson 6
Bootstrap Images & Tables

- Part 1: Bootstrap Images
- https://getbootstrap.com/docs/5.0/content/images/

- Part 2: Bootstrap Tables
- https://getbootstrap.com/docs/5.0/content/tables/

Responsive Images

Responsive images

Images in Bootstrap are made responsive with **.img-fluid max-width: 100%;** and **height: auto**; are applied to the image so that it scales with the parent element.


```
<img src="..." class="img-fluid" alt="Responsive image">
```

```
<img src="..." alt="..." class="img-thumbnail">
```
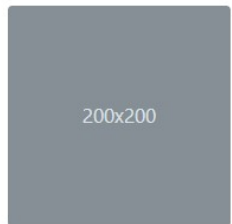
Image thumbnails

You can use .img-thumbnail to give an image a rounded 1px border appearance.
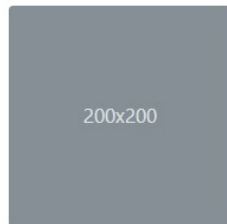
I02

Aligning Images

Aligning images

Align images with the [helper float classes](#) or [text alignment classes](#). block-level images can be centered using [the .mx-auto margin utility class](#).
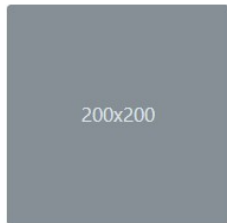


```
200x200                                    200x200
```

```html
<img src="..." class="rounded float-start" alt="...">
<img src="..." class="rounded float-end" alt="...">
```
`Copy`

```
200x200
```

```html
<img src="..." class="rounded mx-auto d-block" alt="...">
```
`Copy`

```
200x200
```

```html
<div class="text-center">
  <img src="..." class="rounded" alt="...">
</div>
```
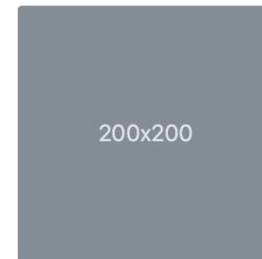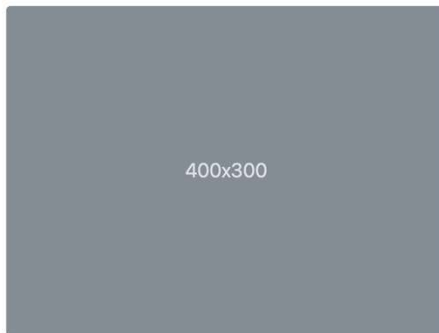
Figures

- Anytime you need to display a piece of content—like an image with an optional caption, consider using a <figure>.

- Use the included .figure , .figure-img and .figure-caption classes to provide some baseline styles for the HTML5 <figure> and <figcaption> elements. Images in figures have no explicit size, so be sure to add the .img-fluid class to your <img> to make it responsive.

400x300

A caption for the above image.

```
<figure class="figure">
  <img src="..." class="figure-img img-fluid rounded" alt="...">
  <figcaption class="figure-caption">A caption for the above image.</figcaption>
</figure>
```

400x300

A caption for the above image.

Copy

```
<figure class="figure">
  <img src="..." class="figure-img img-fluid rounded" alt="...">
  <figcaption class="figure-caption text-end">A caption for the above image.</figcaption>
</figure>
```

T01

Lesson 6
Part 2 : Tables

- Tables are an important part of web pages because they provide a way to display tabular data effectively.

- But tables can be difficult to handle responsively.

- Bootstrap provides lots of styles and classes to create data tables that look nice and are responsive.

Web Table

- HTML structure that consists of multiple table rows
- Each table row contains one or more table cells
- The cells themselves can contain additional HTML elements
- Effective tool for organizing and classifying web page content
- Use `table` element to present a web table
- A `table` element contains a collection of table rows marked using the `tr` (table row) element
- A table contains cells within each row
- Size of a table is defined by
    - Number of table rows
    - Number of cells within rows

Marking Tables and Table Rows

General structure of a web table:

```
<table>
    <tr>
        table cells
    </tr>
    <tr>
        table cells
    </tr>
    …
</table>
```

Tables

- Using the most basic table markup, here's how .table-based tables look in Bootstrap. **All table styles are inherited in Bootstrap 5**, meaning any nested tables will be styled in the same manner as the parent.

#	First	Last	Handle
1	Mark	Otto	@mdo
2	Jacob	Thornton	@fat
3	Larry the Bird		@twitter

```
<table class="table">
  <thead>
    <tr>
      <th scope="col">#</th>
      <th scope="col">First</th>
      <th scope="col">Last</th>
      <th scope="col">Handle</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th scope="row">1</th>
      <td>Mark</td>
      <td>Otto</td>
      <td>@mdo</td>
    </tr>
```

```
    <tr>
      <th scope="row">2</th>
      <td>Jacob</td>
      <td>Thornton</td>
      <td>@fat</td>
    </tr>
    <tr>
      <th scope="row">3</th>
      <td colspan="2">Larry the Bird</td>
      <td>@twitter</td>
    </tr>
  </tbody>
</table>
```

T05

Colours – Table, Rows and Cells

Use contextual classes to color tables, table rows or individual cells.

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

```
<!-- On tables -->
<table class="table-primary">...</table>
<table class="table-secondary">...</table>
<table class="table-success">...</table>
<table class="table-danger">...</table>
<table class="table-warning">...</table>
<table class="table-info">...</table>
<table class="table-light">...</table>
<table class="table-dark">...</table>

<!-- On rows -->
<tr class="table-primary">...</tr>
<tr class="table-secondary">...</tr>
<tr class="table-success">...</tr>
<tr class="table-danger">...</tr>
<tr class="table-warning">...</tr>
<tr class="table-info">...</tr>
<tr class="table-light">...</tr>
<tr class="table-dark">...</tr>

<!-- On cells (`td` or `th`) -->
<tr>
  <td class="table-primary">...</td>
  <td class="table-secondary">...</td>
  <td class="table-success">...</td>
  <td class="table-danger">...</td>
  <td class="table-warning">...</td>
  <td class="table-info">...</td>
  <td class="table-light">...</td>
  <td class="table-dark">...</td>
</tr>
```

T06

Striped Rows

- Use .table-striped to add zebra-striping to any table row within the <tbody>.

#	First	Last	Handle
1	Mark	Otto	@mdo
2	Jacob	Thornton	@fat
3	Larry	the Bird	@twitter

```html
<table class="table table-striped">
  <thead>
    <tr>
      <th scope="col">#</th>
      <th scope="col">First</th>
      <th scope="col">Last</th>
      <th scope="col">Handle</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th scope="row">1</th>
      <td>Mark</td>
      <td>Otto</td>
      <td>@mdo</td>
    </tr>
```

```html
    <tr>
      <th scope="row">2</th>
      <td>Jacob</td>
      <td>Thornton</td>
      <td>@fat</td>
    </tr>
    <tr>
      <th scope="row">3</th>
      <td>Larry</td>
      <td>the Bird</td>
      <td>@twitter</td>
    </tr>
  </tbody>
</table>
```

Bordered Tables

- Add .table-bordered for borders on all sides of the table and cells. Add .table-hover to enable a hover state on table rows within a <tbody>.

#	First	Last	Handle
1	Mark	Otto	@mdo
2	Jacob	Thornton	@fat
3	Larry the Bird		@twitter

```
<table class="table table-bordered">
  <thead>
    <tr>
      <th scope="col">#</th>
      <th scope="col">First</th>
      <th scope="col">Last</th>
      <th scope="col">Handle</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th scope="row">1</th>
      <td>Mark</td>
      <td>Otto</td>
      <td>@mdo</td>
    </tr>
```

```
    <tr>
      <th scope="row">2</th>
      <td>Jacob</td>
      <td>Thornton</td>
      <td>@fat</td>
    </tr>
    <tr>
      <th scope="row">3</th>
      <td colspan="2">Larry the Bird</td>
      <td>@twitter</td>
    </tr>
  </tbody>
</table>
```

Borderless Table

Add .table-borderless for a table without borders.

#	First	Last	Handle
1	Mark	Otto	@mdo
2	Jacob	Thornton	@fat
3	Larry the Bird		@twitter

```html
<table class="table table-borderless">
  <thead>
    <tr>
      <th scope="col">#</th>
      <th scope="col">First</th>
      <th scope="col">Last</th>
      <th scope="col">Handle</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th scope="row">1</th>
      <td>Mark</td>
      <td>Otto</td>
      <td>@mdo</td>
    </tr>
```

```html
    <tr>
      <th scope="row">2</th>
      <td>Jacob</td>
      <td>Thornton</td>
      <td>@fat</td>
    </tr>
    <tr>
      <th scope="row">3</th>
      <td colspan="2">Larry the Bird</td>
      <td>@twitter</td>
    </tr>
  </tbody>
</table>
```

T09

Small Table

Add .table-sm to make tables more compact by cutting cell padding in half.

#	First	Last	Handle
1	Mark	Otto	@mdo
2	Jacob	Thornton	@fat
3	Larry the Bird		@twitter

```html
<table class="table table-sm">
  <thead>
    <tr>
      <th scope="col">#</th>
      <th scope="col">First</th>
      <th scope="col">Last</th>
      <th scope="col">Handle</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th scope="row">1</th>
      <td>Mark</td>
      <td>Otto</td>
      <td>@mdo</td>
    </tr>
    <tr>
      <th scope="row">2</th>
      <td>Jacob</td>
      <td>Thornton</td>
      <td>@fat</td>
    </tr>
    <tr>
      <th scope="row">3</th>
      <td colspan="2">Larry the Bird</td>
      <td>@twitter</td>
    </tr>
  </tbody>
</table>
```

T10

Responsive Tables

Responsive tables allow tables to be scrolled horizontally with ease. Make any table responsive across all viewports by wrapping a .table with .table-responsive. Or, pick a maximum breakpoint with which to have a responsive table up to by using .table-responsive{-sm|-md|-lg|-xl}.

Always responsive (see w3schools.com for responsive effect**)**
Across every breakpoint, use .table-responsive for horizontally scrolling tables.

#	Heading	Heading	Heading	Heading	Heading	Heading	Heading	Heading	Heading
1	Cell	Cell	Cell	Cell	Cell	Cell	Cell	Cell	Cell
2	Cell	Cell	Cell	Cell	Cell	Cell	Cell	Cell	Cell
3	Cell	Cell	Cell	Cell	Cell	Cell	Cell	Cell	Cell

```
<div class="table-responsive">
  <table class="table">
    ...
  </table>
</div>
```

T12

Ex: Table Styling

Create a hover table below (see w3schools.com for hint)

#	First	Last	Handle
1	Mark	Otto	@mdo
2	Jacob	Thornton	@fat
3	Larry the Bird		@twitter