

## Unit 07: Bootstrap CSS

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### Objectives

After studying this unit, you will be able to:

- Understand tables using bootstrap
- Design buttons and tables
- Insert and understand images using bootstrap

### Introduction

Generally, Bootstrap 4 is distributed using the repositories Bower (via Github) and NPM (node package manager). Moreover, you also can create your own distribution and use the source code that connects/links directly to the website.<sup>1</sup> Bootstrap also utilizes the raw files of the cascading stylesheets language SASS – this is a precompiler that translates into CSS (unlike its predecessor, Bootstrap 3, where the primary language was LESS).

### 7.1 Bootstrap Tables

Using the most basic table markup, here's how .table-based tables look in Bootstrap. All table styles are inherited in Bootstrap 4, meaning any nested tables will be styled in the same manner as the parent.

A basic Bootstrap table has light padding and only horizontal dividers.

The .table class adds basic styling to a table:

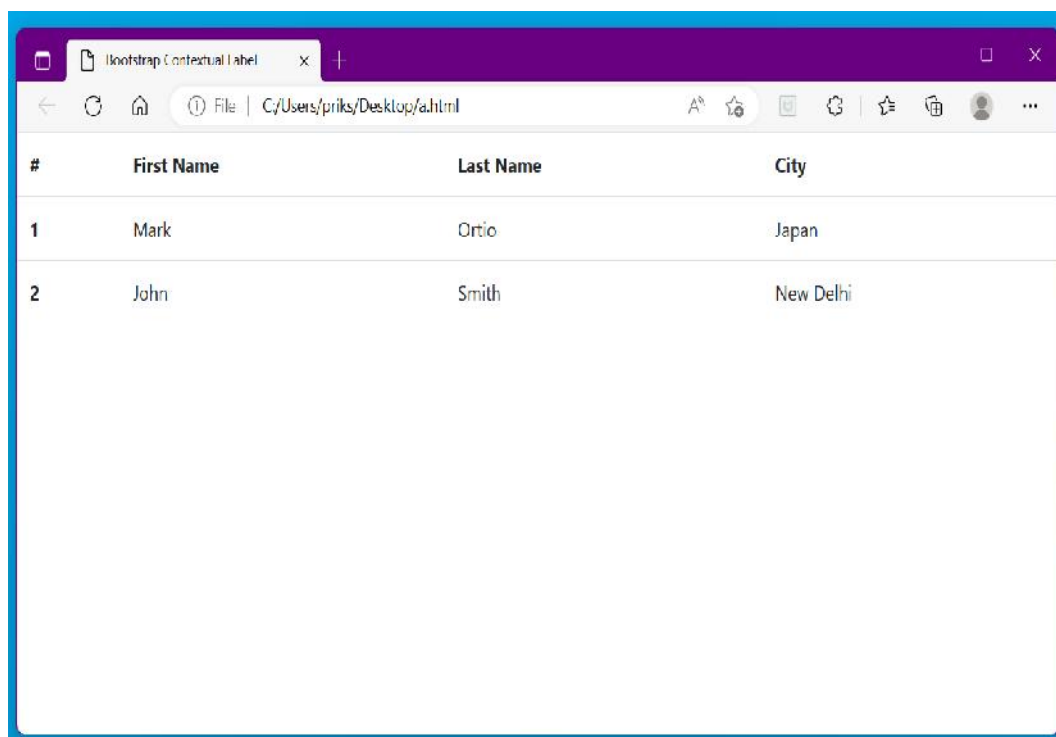


**Example**

```
<!DOCTYPE html>
<html lang="en">
<head>
```

```
<title>Bootstrap Contextual Label</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"
integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
rel="stylesheet"
</head>
<body>
<table class="table">
<thead>
<tr>
<th scope="col">#</th>
<th scope="col">First Name</th>
<th scope="col">Last Name</th>
<th scope="col">City</th>
</tr>
</thead>
<tbody>
<tr>
<th scope="row">1</th>
<td>Mark</td>
<td>Ortio</td>
<td>Japan</td>
</tr>
<tr>
<th scope="row">2</th>
<td>John</td>
<td>Smith</td>
<td>New Delhi</td>
</tr>
</tbody>
</table>
</body>
</html>
```

### Output



#	First Name	Last Name	City
1	Mark	Ortio	Japan
2	John	Smith	New Delhi

You can also invert the colors – with light text on dark backgrounds – with `.table-dark`.

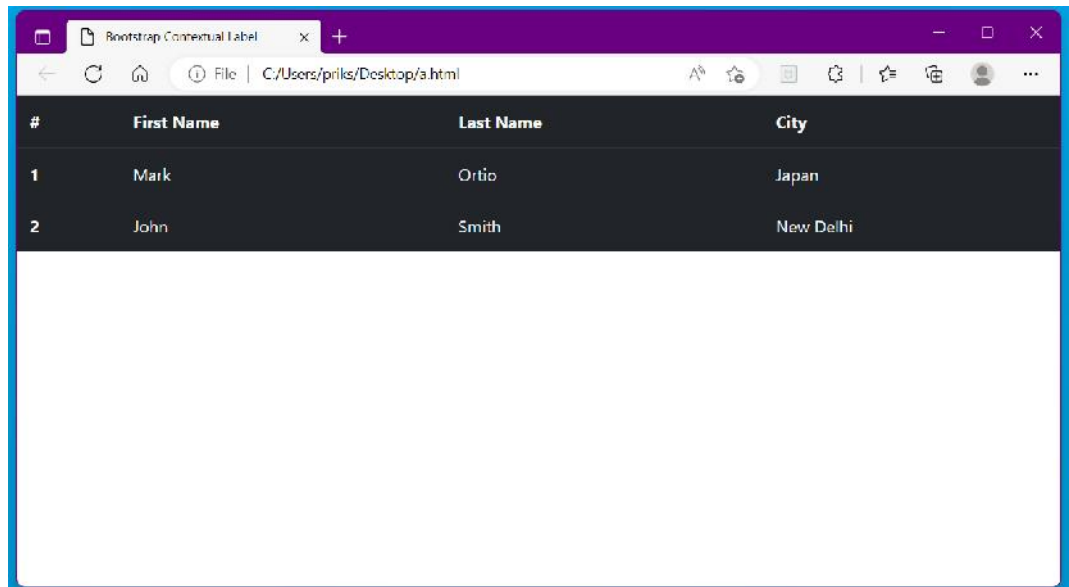


#### Example

```
<table class="table table-dark">
<thead>
<tr>
<th scope="col">#</th>
<th scope="col">First Name</th>
<th scope="col">Last Name</th>
<th scope="col">City</th>
</tr>
</thead>
<tbody>
<tr>
<th scope="row">1</th>
<td>Mark</td>
<td>Ortio</td>
<td>Japan</td>
</tr>
<tr>
<th scope="row">2</th>
<td>John</td>
<td>Smith</td>
<td>New Delhi</td>
</tr>
```

```
</tbody>
</table>
```

Output



#	First Name	Last Name	City
1	Mark	Ortio	Japan
2	John	Smith	New Delhi

### Striped rows

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

### Code

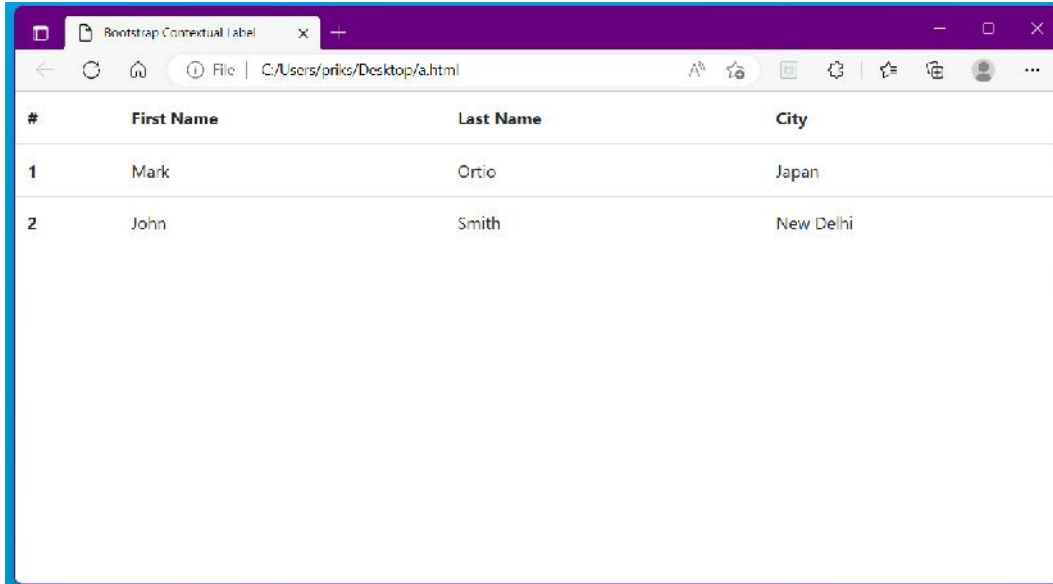
```
<table class="table table-striped">
<thead>
<tr>
<th scope="col">#</th>
<th scope="col">First Name</th>
<th scope="col">Last Name</th>
<th scope="col">City</th>
</tr>
</thead>
<tbody>
<tr>
<th scope="row">1</th>
<td>Mark</td>
<td>Ortio</td>
<td>Japan</td>
</tr>
<tr>
<th scope="row">2</th>
<td>John</td>
<td>Smith</td>
```

```

<td>New Delhi</td>
</tr>
</tbody>
</table>

```

Output



#	First Name	Last Name	City
1	Mark	Ortio	Japan
2	John	Smith	New Delhi

#code (table table-stripped table-dark)

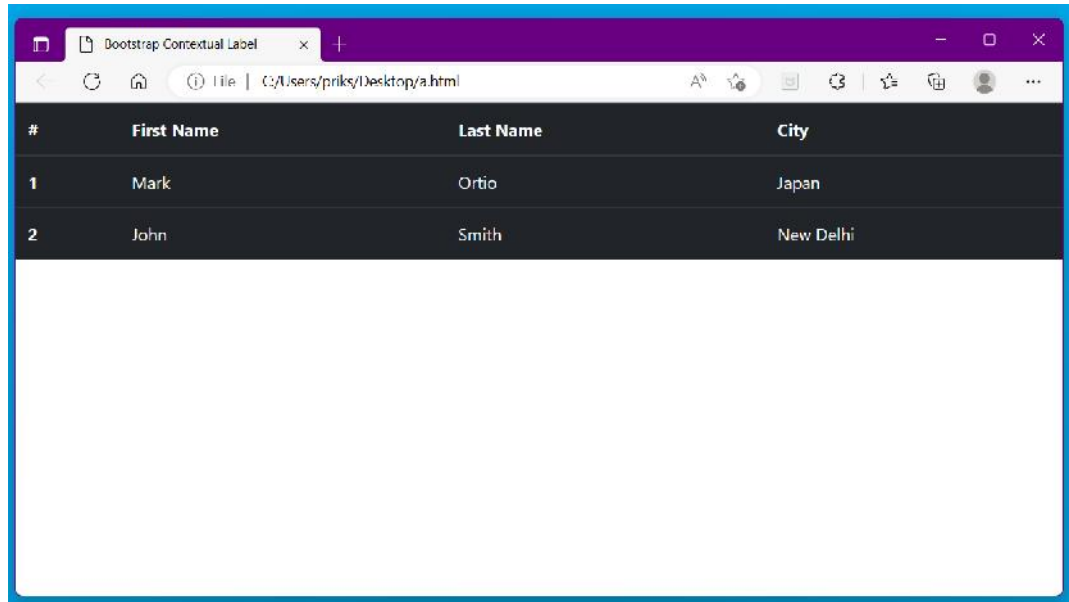
```

<table class="table table-stripped table-dark">
<thead>
<tr>
<th scope="col">#</th>
<th scope="col">First Name</th>
<th scope="col">Last Name</th>
<th scope="col">City</th>
</tr>
</thead>
<tbody>
<tr>
<th scope="row">1</th>
<td>Mark</td>
<td>Ortio</td>
<td>Japan</td>
</tr>
<tr>
<th scope="row">2</th>
<td>John</td>
<td>Smith</td>
<td>New Delhi</td>

```

```
</tr>
</tbody>
</table>
```

## Output



#	First Name	Last Name	City
1	Mark	Ortio	Japan
2	John	Smith	New Delhi

## 7.2 Bootstrap Buttons

Buttons are an essential part of websites. You need them for various functionalities, from submitting information and getting access to more content to linking to different parts of the web page and other websites.

The .btn classes are designed to be used with the <button> element. However, you can also use these classes on <a> or <input> elements (though some browsers may apply a slightly different rendering).

When using button classes on <a> elements that are used to trigger in-page functionality (like collapsing content), rather than linking to new pages or sections within the current page, these links should be given a role="button" to appropriately convey their purpose to assistive technologies such as screen readers.

### Button tags



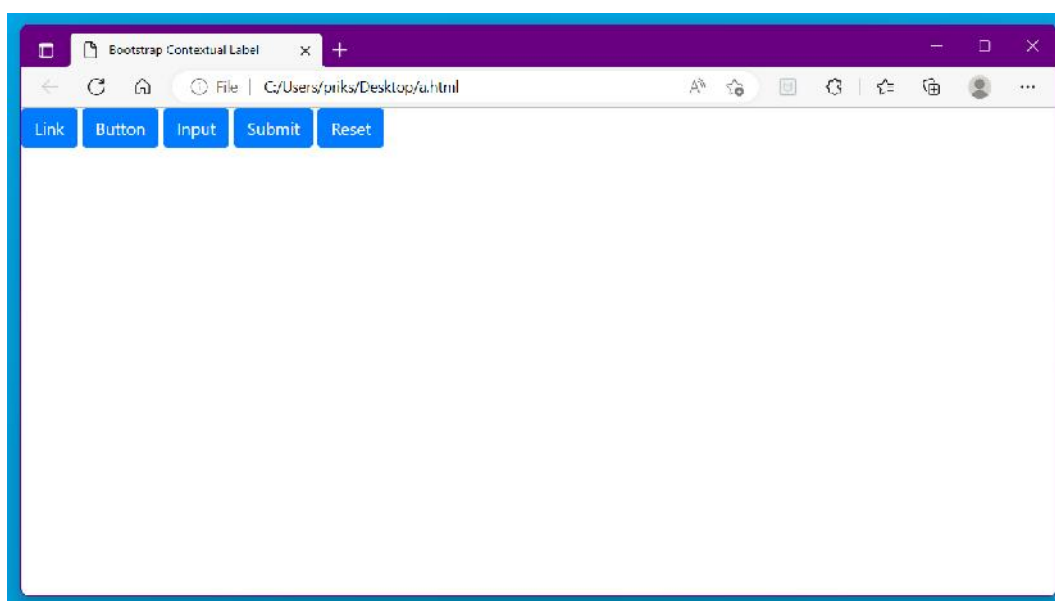
Example

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Bootstrap Contextual Label</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"
integrity="sha384-
```

rel="stylesheet"

```
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
</head>
<body>
<a class="btn btn-primary" href="#" role="button">Link</a>
<button class="btn btn-primary" type="submit">Button</button>
<input class="btn btn-primary" type="button" value="Input">
<input class="btn btn-primary" type="submit" value="Submit">
<input class="btn btn-primary" type="reset" value="Reset">
</body>
</html>
```

### Output



### Outline buttons

In need of a button, but not the hefty background colors they bring? Replace the default modifier classes with the `.btn-outline-*` ones to remove all background images and colors on any button.



Example

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Bootstrap Contextual Label</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"
integrity="sha384-
```

rel="stylesheet"

```
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">

</head>

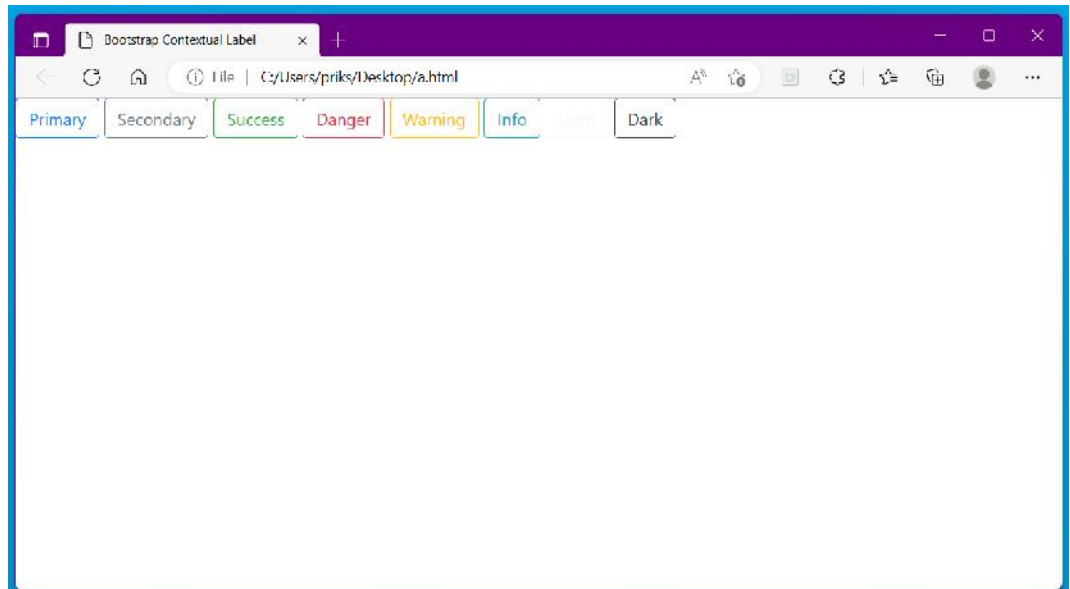
<body>

<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>

</body>

</html>
```

### Output



## 7.3 Images using Bootstrap

Images are an integral part of the content strategy of any website. The best images are set above the fold and act as both eye candy and informational tools. They should relate directly to the text of the page, and ideally, they should be original pictures.

### 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.

### #Code

```
<!DOCTYPE html>

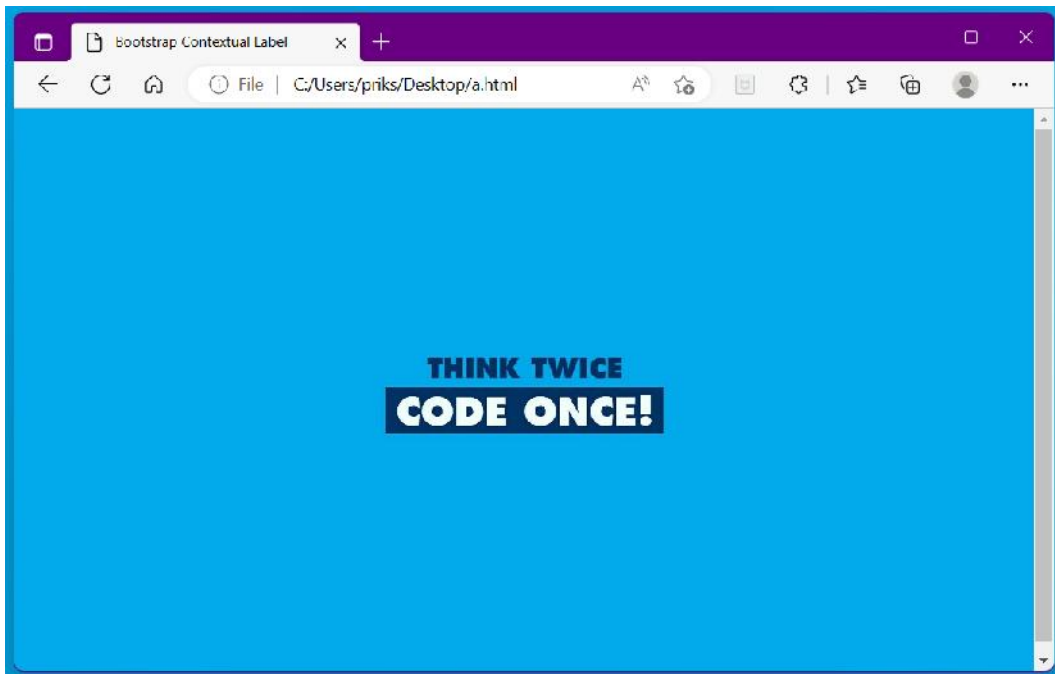
<html lang="en">

<head>
```

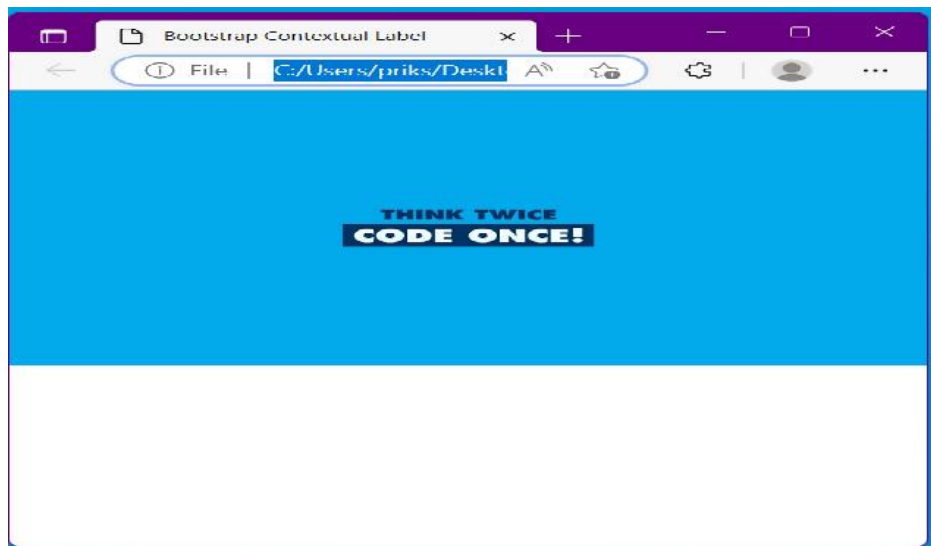


```
<title>Bootstrap Contextual Label</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"
integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
</head>
<body>
<imgsrc="./demo.jpg" class="img-fluid" alt="Responsive image">
</body>
</html>
```

### Output 1



### Output 2



### Image thumbnails

In addition to our border-radius utilities, you can use `.img-thumbnail` to give an image a rounded 1px border appearance.

Syntax : -

```
<imgsrc="..." alt="..." class="img-thumbnail">
```

### Summary

- Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains HTML, CSS and JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.
- Buttons allow users to take actions, and make choices, with a single tap. Buttons communicate actions that users can take.
- Images are an integral part of the content strategy of any website. The best images are set above the fold and act as both eye candy and informational tools.
- A table is a structured set of data made up of rows and columns (tabular data).

### Keywords

**Tables:** -A table is a structured set of data made up of rows and columns.

**Buttons:**-Buttons allow users to take actions, and make choices, with a single tap. Buttons communicate actions that users can take. They are typically placed throughout your website UI, and they should be easily findable and identifiable while clearly indicating the action they allow a user to complete.

**Images:**-Images are an integral part of the content strategy of any website. The best images are set above the fold and act as both eye candy and informational tools. They should relate directly to the text of the page, and ideally, they should be original pictures.

### SelfAssessment

1. Which HTML tag is used to define a table?  
A. <tb>  
B. <tl>

- C. <table>
  - D. <tab>
2. With the help of which tag, is a row defined in HTML?
- A. <row>
  - B. <table-row>
  - C. <tablerow>
  - D. <tr>
3. \_\_\_\_ tag used for insert image.
- A. <img>
  - B. <isetrting>
  - C. <i>
  - D. <ins-image>
4. HTML is stand for \_\_\_\_\_
- A. Hyper Text Markup Language
  - B. Holistick Technical Method Library
  - C. Hyper Tax Makes Line
  - D. None of the above
5. Images in Bootstrap are made responsive with \_\_\_\_\_.
- A. .img-fluid
  - B. .img
  - C. .responsive-image
  - D. image
6. Which of the following class styles a table with borders surrounding every element and rounded corners around the entire table?
- A. .table
  - B. .table-striped
  - C. .table-bordered
  - D. .table-hover
7. Which of the following bootstrap style of button represents a contextual button for informational alert messages?
- A. .btn
  - B. .btn-primary
  - C. .btn-success
  - D. .btn-info
8. Which of the following bootstrap style of image gives the image rounded corners?

- A. .img-rounded
  - B. .img-circle
  - C. .img-thumbnail
  - D. None of the above.
9. Which of the following class styles a table as a nice basic table with stripes on rows?
- A. .table
  - B. .table-striped
  - C. .table-bordered
  - D. .table-hover
10. Which of the following class makes thumbnail image?
- A. .img-tmbnail
  - B. .img-thumbnail-image
  - C. .img-thumb
  - D. .img-thumbnail
11. Which of the following bootstrap style helps to combine sets of into a for more complex components?
- A. .btn-group
  - B. .btn-toolbar
  - C. .btn-group-lg
  - D. .btn-group-vertical
12. Which of the following bootstrap style of image makes the entire image round by adding border-radius:500px?
- A. img-rounded
  - B. img-circle
  - C. img-thumbnail
  - D. None of the above
13. Bootstrap can add responsive images in your website.
- A. True
  - B. False
14. Which of the following is not a bootstrap class for tables?
- A. .table
  - B. table table-dark
  - C. table table-striped
  - D. table & table
15. \_\_\_\_\_ class used for insert thumbnail image in website.
- A. img-thumbnail
  - B. img

- C. t-img
- D. none of above

### **Answers for SelfAssessment**

- |       |       |       |       |       |
|-------|-------|-------|-------|-------|
| 1. C  | 2. D  | 3. A  | 4. A  | 5. A  |
| 6. C  | 7. D  | 8. A  | 9. B  | 10. D |
| 11. B | 12. B | 13. A | 14. D | 15. A |

### **Review Questions**

1. Why do we need the table inthe website? Explain using examples.
2. What is the difference between a table and stripped table?
3. Write code that displaysthe responsive image in webpage.
4. Explain bootstrap table using an example.
5. Write code that display different style of buttons in web page.



### **Further Readings**

Bootstrap by Example, Silvio Morato  
Learning Bootstrap 4, Matt Lambert  
Bootstrap in 24 Hours, By Sams  
Jump Start Bootstrap,



### **Web Links**

<https://getbootstrap.com/docs/4.1/content/images/#image-thumbnails>