

The background of the slide is a light beige color. In the top left corner, there is a corkboard with a few papers pinned to it. In the center, there is a large, stylized illustration of a laptop. The laptop screen displays a website layout with a blue header, a main content area with a colorful bar chart, and a footer with three grey rectangular boxes. To the left of the laptop, there is a complex system of grey pipes and red valves, resembling a mechanical or industrial setup. Above the laptop, there are several colorful circles (bubbles) containing text: a blue circle with 'www', a red circle with 'HTML5', a red circle with 'js', a grey circle with 'Cloud', an orange circle with 'XML', and a green circle with 'PHP'. Dotted lines connect some of these circles, suggesting a network or flow. The overall theme is web technologies and engineering.

**ECAP472**

# WEB TECHNOLOGIES

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# Learning Outcomes



After this lecture, you will be able to

- implement Bootstrap 4 – Carousel.
- implement bootstrap modals .

# Bootstrap 4

## Carousel

A carousel in Bootstrap 4 can be defined as a slideshow that is used for the purpose to slideshow through a series of content to show the audience the content and to enhance the website. A carousel can also be called as slideshow or image slider.

# Bootstrap 4

## Carousel

It can be regarded as one of the best ways of displaying the large number of contents inside a small space on a web page.

# Bootstrap 4

## Carousel

A carousel can be created in four main ways, which are

- Using slides only
- Using controls
- With the indicators
- With the captions

# Using Slides only

This carousel only contains slides. The class `carousel-inner` is used to add different slides to the carousel.

# Using Controls

In this, two little arrows will be added to the slides which can help a user to manually switch to any slide in the carousel.

# The classes used are given below

- **.carousel-control-prev class**

It inserts a left or previous button to the carousel, that will give access to the user to go back between the slides.

- **.carousel-control-next class**

It inserts a right or next button to the carousel, that will give access to the user to go forward between the slides.



# The classes used are given below

- `.carousel-control-prev` class

It inserts a left or previous button to the carousel, that will give access to the user to go back between the slides.

- `.carousel-control-next` class

It inserts a right or next button to the carousel, that will give access to the user to go forward between the slides.

# The classes used are given below

- **.carousel-control-prev-icon class**

It can be used along with the .carousel-control-prev in order to create a previous button.

- .carousel-control-next-icon class

It can be used along with the .carousel-control-next to create a "next" button

# The classes used are given below

- `.carousel-control-prev-icon` class

It can be used along with the `.carousel-control-prev` in order to create a previous button.

- `.carousel-control-next-icon` class

It can be used along with the `.carousel-control-next` to create a "next" button

# With the Indicators:

The `.carousel-indicators` is the class that can be used to add indicators for the carousel. The indicators in this class are used to indicate how many slides are in the carousel, and which slide the user is currently viewing.

# With the Captions:

- A user can also add captions to their slides in Bootstrap 4
- A caption can be easily used to convey to the audience of the website that what exactly is happening in the carousel. For the purpose of adding captions, a user has to add elements inside `<div class="carousel-caption">` within each `<div class="carousel-item">` in order to create a caption for every slide.

# Bootstrap 4 Modal

**The Modal component is a dialog box/popup window that is displayed on top of the current page**

# How To Create a Modal

```
<!-- The Modal -->
```

```
<div class="modal" id="myModal">
```

```
<div class="modal-dialog">
```

```
<div class="modal-content">
```

# How To Create a Modal

```
<!-- Modal Header -->
```

```
<div class="modal-header">
```

```
<h4 class="modal-title">Modal Heading</h4>
```

```
<button type="button" class="close" data-  
dismiss="modal">&times;</button>
```

```
</div>
```

```
<!-- Modal body -->
```

```
<div class="modal-body">
```

```
Modal body..
```

```
</div>
```



# How To Create a Modal

```
<!-- Modal footer -->
```

```
  <div class="modal-footer">
```

```
    <button type="button" class="btn btn-danger" data-  
dismiss="modal">Close</button>
```

```
  </div>
```

# Difference Between Bootstrap and CSS

## Definition

Bootstrap is a free and open-source front-end framework for designing websites and web applications.

CSS is a style sheet language used for describing the presentation of a document written in a markup language such as HTML.

# Versions

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Bootstrap has Bootstrap 3,4 and

CSS has CSS 1, 2,3 versions

# Grid

Furthermore, Bootstrap provides a grid system, which creates a page layout through a series of rows and columns that can place the content. **There is no Grid system in CSS.**

# Designed Classes

Also, Bootstrap contains already designed classes. The programmer can use them in his program to add styling to the elements without writing code from the beginning. On the other hand, in CSS, the programmer should write the code from scratch.

# Usage

Considering the usage, the Bootstrap helps to create responsive designs that are more presentable while CSS helps to create presentable webpages.

# Usage

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Bootstrap and CSS help to build presentable user interfaces. The basic difference between Bootstrap and CSS is that the Bootstrap is a front-end framework while CSS is a style sheet language. They help to add background and borders, text effects, 2D, 3D animations etc. to web pages.

That's all for now...