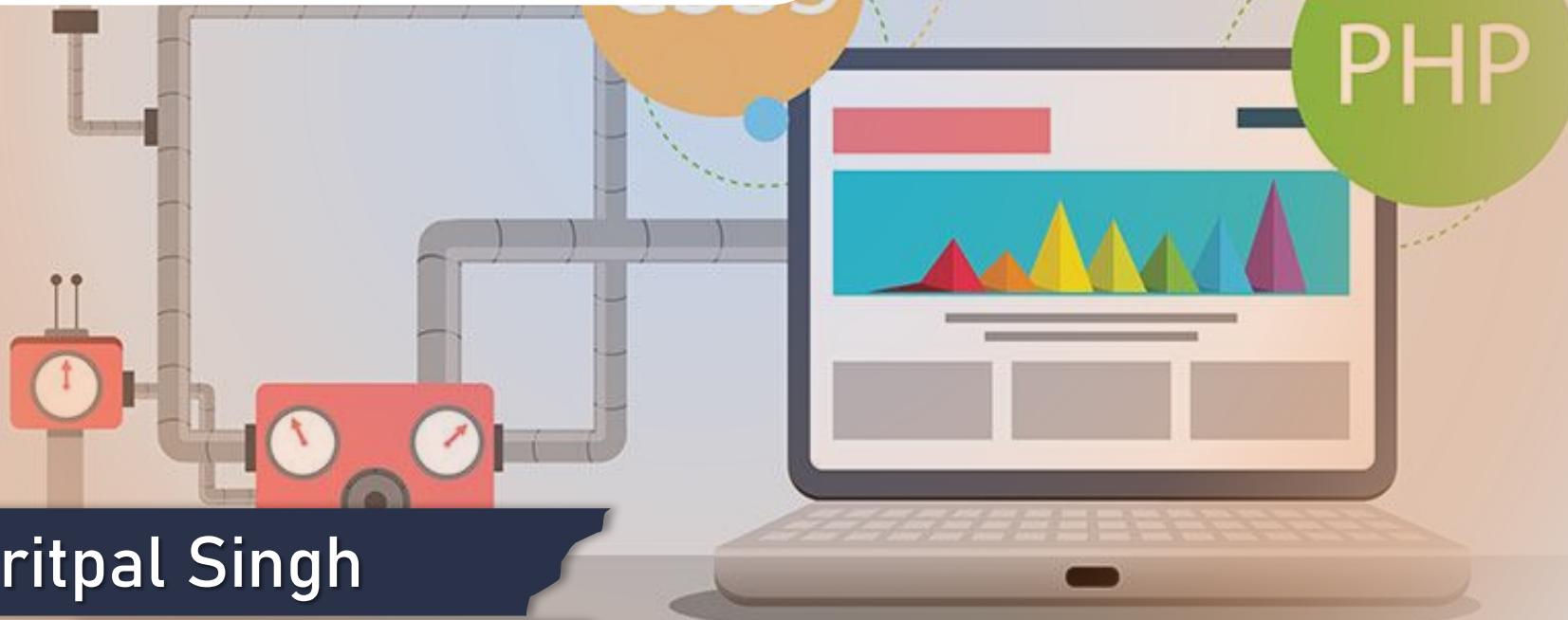


# ECAP472

## WEB TECHNOLOGIES



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# Learning Outcomes



After this lecture, you will be able to

- understand Bootstrap Grid.
- go over Bootstrap Navigation Bar

# What is Bootstrap?



Bootstrap is a free front-end framework for faster and easier web development

Also gives you the ability to easily create responsive designs

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Bootstrap is a free front-end framework for faster and easier web development

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Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins.

# Advantages of Bootstrap

1

Easy to use

Anybody with just basic knowledge of HTML and CSS can start using Bootstrap

2

Responsive features

Bootstrap's responsive CSS adjusts to phones, tablets, and desktops.

# Advantages of Bootstrap

3

## Mobile-first approach

In Bootstrap 3, mobile-first styles are part of the core framework

4

## Responsive features

Bootstrap is compatible with all modern browsers (Chrome, Firefox, Internet Explorer, Safari, and Opera)

# Where to Get Bootstrap?

EITHER

Download Bootstrap from [getbootstrap.com](http://getbootstrap.com)

- If you want to download and host Bootstrap yourself, go to [getbootstrap.com](http://getbootstrap.com), and follow the instructions there.

# Where to Get Bootstrap?

OR

## Include Bootstrap from a CDN

- If you don't want to download and host Bootstrap yourself, you can include it from a CDN (Content Delivery Network).
- MaxCDN provides CDN support for Bootstrap's CSS and JavaScript. You must also include jQuery.

# Bootstrap Grid

In graphic design, a grid is a structure (usually two-dimensional) made up of a series of intersecting straight (vertical, horizontal) lines used to structure the content. It is widely used to design layout and content structure in print design. In web design, it is a very effective method to create a consistent layout rapidly and effectively using HTML and CSS.

# Bootstrap Grid System

The Bootstrap Grid System allows up to 12 columns across the page. You can use all 12 columns individually or you can group the columns together to create wider columns.

# Example

.col-md-1											
.col-md-8						.col-md-4					
.col-md-4				.col-md-4				.col-md-4			
.col-md-6						.col-md-6					

# Bootstrap Grid System

Bootstrap Grid System is responsive, and the columns are re-arranged automatically according to the screen size

# Grid Classes

There are four classes in Bootstrap Grid System:

- xs (for phones)
- sm (for tablets)
- md (for desktops)
- lg (for larger desktops)

You can combine the above classes to create more dynamic and flexible layouts.

# Basic Structure of a Bootstrap Grid

```
<div class="row">  
  <div class="col-*-*"></div>  
</div>  
  
<div class="row">  
  <div class="col-*-*"></div>  
  <div class="col-*-*"></div>  
  <div class="col-*-*"></div>  
</div>  
  
<div class="row">  
  ...  
</div>
```

# Instructions while creating a Bootstrap Grid

- Create a row (<div class="row">).
- Add the number of columns, you want in the grid (tags with appropriate .col-\*-\* classes).
- Note that numbers in .col-\*-\* should always add up to 12 for each row.

# Bootstrap Navigation Bar

- A navigation bar is like a navigation header that is placed at the top of the page. You can collapse or extend it according to the screen size.

The screenshot shows a basic Bootstrap navigation bar. At the top, there is a light gray header with the placeholder text "WebSiteName". Below this is a navigation bar with a dark gray background. It contains four items: "Home" (which is highlighted in white), "Page 1", "Page 2", and "Page 3". The main content area below the navigation bar has a light gray background and contains the heading "Basic Navbar Example" and the text "A navigation bar is a navigation header that is placed at the top of the page."

WebSiteName

Home

Page 1

Page 2

Page 3

Basic Navbar Example

A navigation bar is a navigation header that is placed at the top of the page.

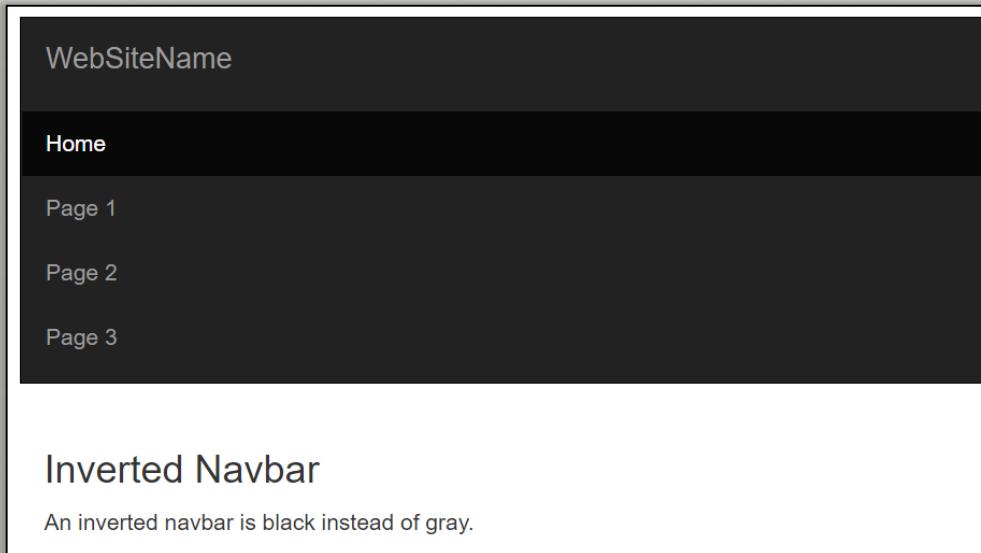
# Bootstrap Navigation Bar

You can create a standard navigation bar at the top of the page with :

```
<NAV CLASS="NAVBAR NAVBAR-DEFAULT">
```

# Bootstrap Inverted Navigation Bar

- Inverted navigation bar provides an alternative black navbar. It can be used to style the default navigation bar by changing `.navbar-default` class into `.navbar-inverse` class.



That's all for now...