

# What is Bootstrap ?

## Responsive, Mobile First

Bootstrap Latest v4.1x

Currently v4.1.3

Previous Stable Version v3.3.7

# About Bootstrap

- Bootstrap is a free front-end framework for faster and easier web development
- 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
- Bootstrap also gives you the ability to easily create responsive designs

## What is Responsive Web Design?

Responsive web design is about creating web sites which automatically adjust themselves to look good on all devices, from small phones to large desktops.

- Bootstrap 4 is the newest version of Bootstrap; with new components, faster stylesheet and more responsiveness.
- Bootstrap 4 supports the latest, stable releases of all major browsers and platforms. However, Internet Explorer 9 and down is not supported.
- If you require IE8-9 support, use [Bootstrap 3](#). It is the most stable version of Bootstrap, and it is still supported by the team for critical bug-fixes and documentation changes. However, new features will NOT be added to it.

# Why use it ?

Advantages of Bootstrap:

- Easy to use:** Anybody with just basic knowledge of HTML and CSS can start using Bootstrap
- Responsive features:** Bootstrap's responsive CSS adjusts to phones, tablets, and desktops
- Mobile-first approach:** In Bootstrap, mobile-first styles are part of the core framework
- Browser compatibility:** Bootstrap 4 is compatible with all modern browsers (Chrome, Firefox, Internet Explorer 10+, Edge, Safari, and Opera)

## Downloading Bootstrap 4 : We will Discuss this thing in our Upcoming Slides

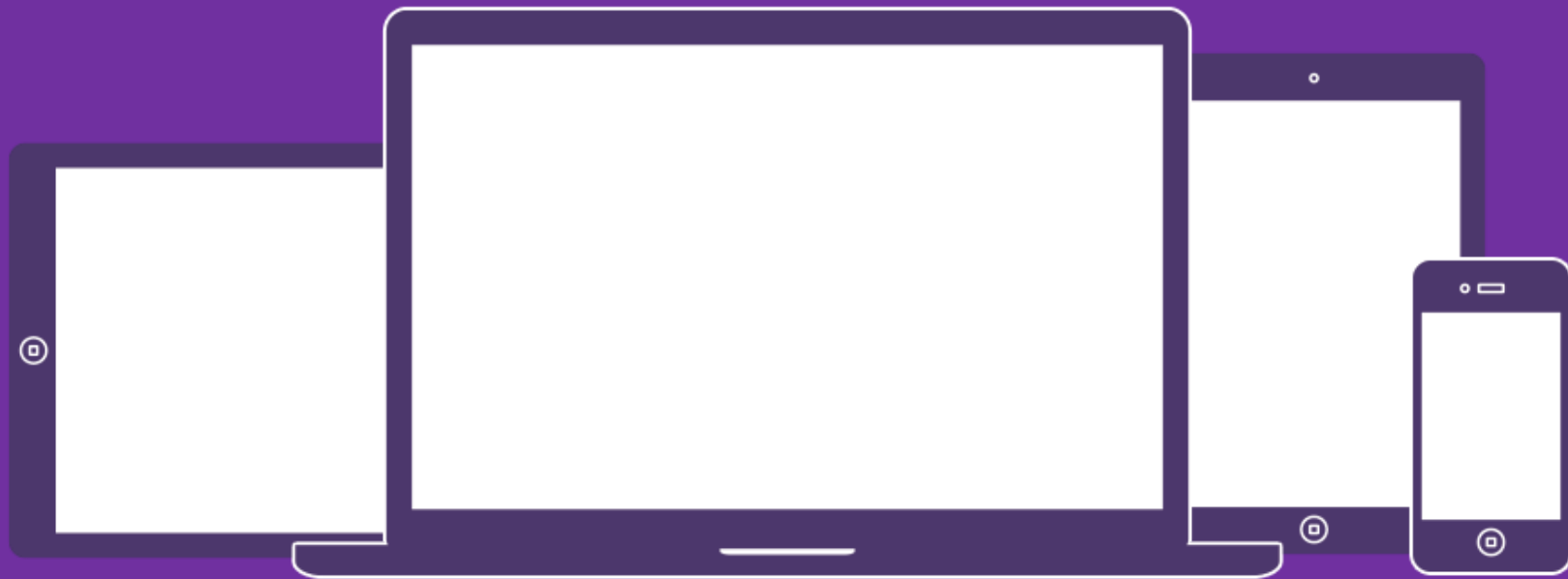
There are two ways to start using Bootstrap 4 on your own web site.

You can:

- Include Bootstrap 4 from a CDN
- Download Bootstrap 4 from [getbootstrap.com](https://getbootstrap.com)

# Bootstrap Features

# Responsive



# Components



# Glymphicons



glyphicon  
glyphicon-  
glass



glyphicon  
glyphicon-  
music



glyphicon  
glyphicon-  
search



glyphicon  
glyphicon-  
heart



glyphicon  
glyphicon-  
star



glyphicon  
glyphicon-  
star-empty



glyphicon  
glyphicon-  
user



glyphicon  
glyphicon-  
film



glyphicon  
glyphicon-  
th-large



glyphicon  
glyphicon-th



glyphicon  
glyphicon-  
th-list



glyphicon  
glyphicon-  
ok



glyphicon  
glyphicon-  
remove



glyphicon  
glyphicon-  
zoom-in



glyphicon  
glyphicon-  
zoom-out



glyphicon  
glyphicon-  
off



glyphicon  
glyphicon-  
signal



glyphicon  
glyphicon-  
cog



glyphicon  
glyphicon-  
trash



glyphicon  
glyphicon-  
home



glyphicon  
glyphicon-  
file



glyphicon  
glyphicon-  
time



glyphicon  
glyphicon-  
road



glyphicon  
glyphicon-  
download-  
alt



glyphicon  
glyphicon-  
download



glyphicon  
glyphicon-  
upload



glyphicon  
glyphicon-  
inbox



glyphicon  
glyphicon-  
play-circle



glyphicon  
glyphicon-  
repeat



glyphicon  
glyphicon-  
refresh



glyphicon  
glyphicon-  
list-alt



glyphicon  
glyphicon-  
lock

# Theme Support





- Theme Support
- Responsive
- Grid
- Components
  - Navbar
  - Button
  - Progress bar
  - Dropdowns etc
- Great Community Support

# Installation

Go-to Official Website

# Bootstrap Classes

Most everything that you want to add onto a page by using Bootstrap is done by adding **classes** and HTML to the page. There are numerous Bootstrap **classes**. Fortunately, **you don't have to know or memorize all of them.**

Many of the classes are related to one another, so learning the basic concepts of what makes up certain classes is all that's needed. There are many that are pretty straight forward, such as **left**, **right**, and **Center** which will do exactly what you expect.

The goal of this training is not to teach you every Bootstrap class that's available, but rather how to use Bootstrap in your applications.

# Good News

Bootstrap uses CSS. This means you are free to customize all classes as needed by using standard CSS and cascading rules.



# Starter Template

```
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css" integrity="sha384-
MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO" crossorigin="anonymous">

    <title>Hello, Chitkra</title>
  </head>
  <body>
    <h1>Hello, Chitkara!!!</h1>

    <!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-
q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js" integrity="sha384-
ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWIPm49" crossorigin="anonymous"></script>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js" integrity="sha384-
ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy" crossorigin="anonymous"></script>
  </body>
</html>
```

# Bootstrap Starting Classes

- container
  - Creates a “fixed-width” container
- container-fluid
  - Creates a “full-width” container in browser

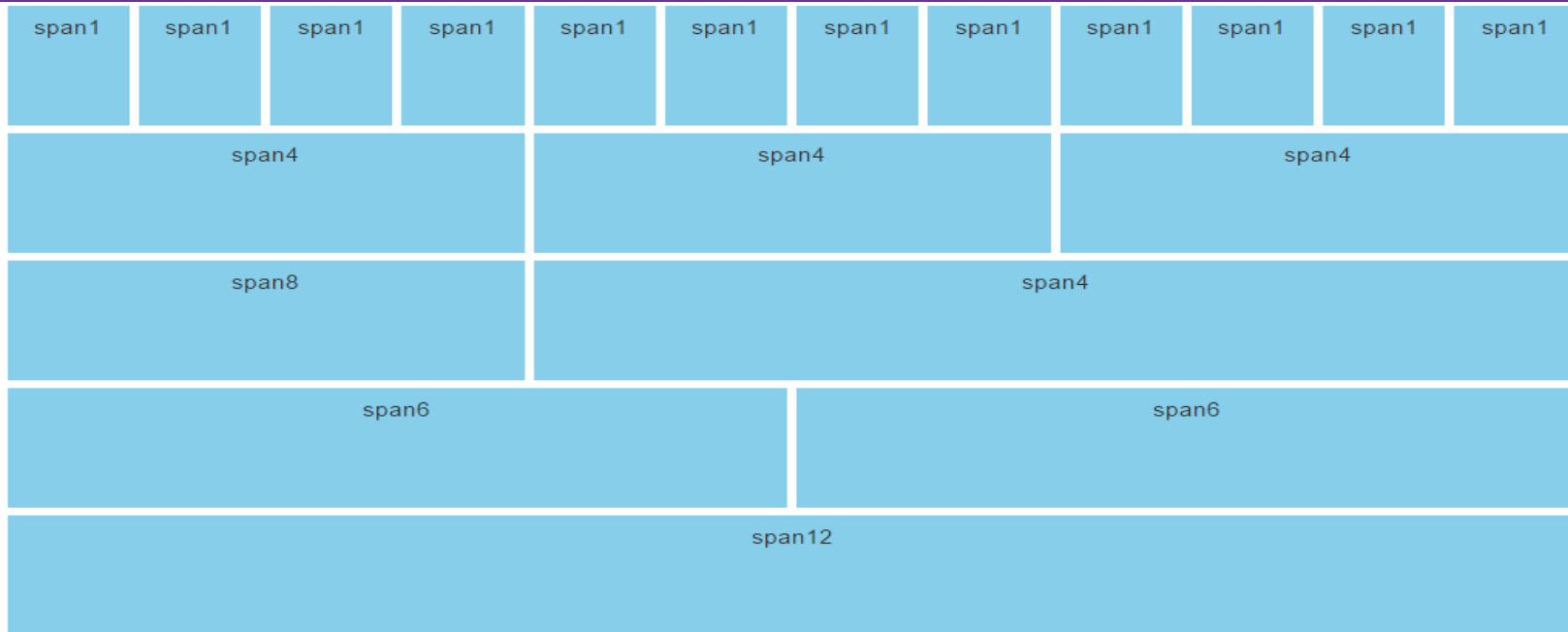
**Let's Try this Out!**

**To Checkout Difference in Both You Guys Can refer:-**

<https://www.jquery-az.com/bootstrap-container-and-container-fluid-what-is-the-difference/>

# Bootstrap Grid System

In a Row There are Total 12 no of columns.



## Bootstrap 4 Grid System

- Bootstrap's grid system is built with flexbox and allows up to 12 columns across the page.
- If you do not want to use all 12 columns individually, you can group the columns together to create wider columns:
- The grid system is responsive, and the columns will re-arrange automatically depending on the screen size.
- Make sure that the sum adds up to 12 or fewer (it is not required that you use all 12 available columns).

## Grid Classes

The Bootstrap 4 grid system has five classes:

- .col- (extra small devices - screen width less than 576px)
- .col-sm- (small devices - screen width equal to or greater than 576px)
- .col-md- (medium devices - screen width equal to or greater than 768px)
- .col-lg- (large devices - screen width equal to or greater than 992px)
- .col-xl- (xlarge devices - screen width equal to or greater than 1200px)

The classes above can be combined to create more dynamic and flexible layouts.

# Basic Structure of a Bootstrap 4 Grid

<!-- Control the column width, and how they should appear on different devices -->

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

<!-- Or let Bootstrap automatically handle the layout -->

```
<div class="row">
  <div class="col"></div>
  <div class="col"></div>
  <div class="col"></div>
</div>
```

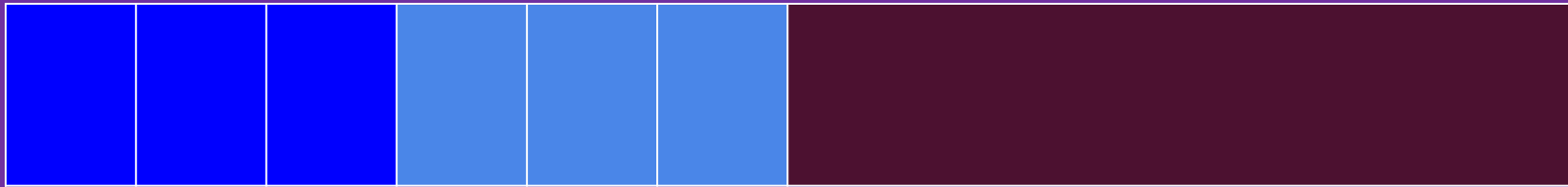
■ create a row (<div class="row">). Then, add the desired number of columns (tags with appropriate .col-\*-\* classes). The first star (\*) represents the responsiveness: sm, md, lg or xl, while the second star represents a number, which should add up to 12 for each row.

■ instead of adding a number to each col, let bootstrap handle the layout, to create equal width columns: two "col" elements = 50% width to each col. three cols = 33.33% width to each col. four cols = 25% width, etc. You can also use .col-sm|md|lg|xl to make the columns responsive.

Visit Here :- [https://www.w3schools.com/bootstrap4/bootstrap\\_grid\\_basic.asp](https://www.w3schools.com/bootstrap4/bootstrap_grid_basic.asp)

# Popular





```
<div class="row">  
  <div class="col-xs-6">  
    <div class='row'>  
      <div class="col-xs-6">  
        Col 1  
      </div>  
      <div class="col-xs-6">  
        Col 2  
      </div>  
    </div>  
  </div>  
  <div class="col-xs-6">  
    Col 3  
  </div>  
</div>
```

# Bootstrap Visibility Classes

## visible summary

Class	Extra small	Small	Medium	Large
visible-xs	Displayed			
visible-sm		Displayed		
visible-md			Displayed	
visible-lg				Displayed

## hidden summary

Class	Extra small	Small	Medium	Large
hidden-xs		Displayed	Displayed	Displayed
hidden-sm	Displayed		Displayed	Displayed
hidden-md	Displayed	Displayed		Displayed
hidden-lg	Displayed	Displayed	Displayed	



The Bootstrap grid behaves like a table. There are rows and columns. However, unlike tables, Bootstrap uses CSS to manage the layout of the pages. In addition, Bootstrap offers support for mobile browsers and different sized screens by providing different grids for different screen sizes

# Typography Classes

[https://www.w3schools.com/bootstrap4/bootstrap\\_typography.asp](https://www.w3schools.com/bootstrap4/bootstrap_typography.asp)

# Bootstrap Colors

## Text Colors

- Bootstrap 4 has some contextual classes that can be used to provide "meaning through colors".
- The classes for text colors are: `.text-muted`, `.text-primary`, `.text-success`, `.text-info`, `.text-warning`, `.text-danger`, `.text-secondary`, `.text-white`, `.text-dark`, `.text-body` (default body color/often black) and `.text-light`:

## Background Colors

- The classes for background colors are: `.bg-primary`, `.bg-success`, `.bg-info`, `.bg-warning`, `.bg-danger`, `.bg-secondary`, `.bg-dark` and `.bg-light`.
- Note that background colors do not set the text color, so in some cases you'll want to use them together with a `.text-*` class.

For Demo Visit Here:- [https://www.w3schools.com/bootstrap4/bootstrap\\_colors.asp](https://www.w3schools.com/bootstrap4/bootstrap_colors.asp)

# Bootstrap tables:-

## • Bootstrap 4 Tables

- Bootstrap 4 Basic Table (.table class)
- Striped Rows (.table-striped class)
- Bordered Table (.table-bordered class)
- Hover Rows (.table-hover class)
- Black/Dark Table (.table-dark class)
- Dark Striped Table ( Combine table-dark table-striped together)
- Hoverable Dark Table (.table-hover class)
- Borderless Table
- To find out More and to find demo visit here : - [https://www.w3schools.com/bootstrap4/bootstrap\\_tables.asp](https://www.w3schools.com/bootstrap4/bootstrap_tables.asp)
- We are also using Bootstrap Tables in Our Projects.

# Images, Jumbotron, Buttons

- Images- Rounded Corners (.rounded), Circle (.rounded-circle), Thumbnail (.img-thumbnail), Centered & Responsive
- Jumbotron- Jumbotron (.jumbotron), Full Width Jumbotron (.jumbotron-fluid) and adjust the content using .container or .container-fluid inside of it:
- Buttons- ButtonStyles(basic,Primary,secondary,success,info,warning,danger,link,dark,light), Button Outline(outline class will provide bordered outline), Button-Sizes(large,medium,small), Active/Disabled Buttons (.active, .disabled)
- [https://www.w3schools.com/bootstrap4/bootstrap\\_images.asp](https://www.w3schools.com/bootstrap4/bootstrap_images.asp)
- [https://www.w3schools.com/bootstrap4/bootstrap\\_jumbotron.asp](https://www.w3schools.com/bootstrap4/bootstrap_jumbotron.asp)
- [https://www.w3schools.com/bootstrap4/bootstrap\\_buttons.asp](https://www.w3schools.com/bootstrap4/bootstrap_buttons.asp)

# Bootstrap forms

## Bootstrap 4 Form Layouts

Bootstrap provides two types of form layouts:

- Stacked (full-width) form (the class `.form-group`, around each form control, is there to ensure proper margins)
- Inline form ( in an inline form, all of the elements are inline and left-aligned.)

**Note: This only applies to forms within viewports that are at least 576px wide. On screens smaller than 576px, it will stack horizontally.**

(Additional rule for an inline form: Add class `.form-inline` to the `<form>` element)

- All textual `<input>`, `<textarea>`, and `<select>` elements with class `.form-control` have a width of 100%.

- [https://www.w3schools.com/bootstrap4/bootstrap\\_forms.asp](https://www.w3schools.com/bootstrap4/bootstrap_forms.asp)

- [https://www.w3schools.com/bootstrap4/bootstrap\\_forms\\_inputs.asp](https://www.w3schools.com/bootstrap4/bootstrap_forms_inputs.asp)

# Navbar

- Basic Navbar
- Vertical Navbar
- Centered Navbar
- Colored Navbar
- Brand / Logo
- Collapsing The Navigation Bar
- Navbar With Dropdown
- Navbar Forms and Buttons
- Navbar Text
- Fixed Navigation Bar
- Bottom Fixed Navbar
- Sticky Navbar

**For Demo Visit Here :-** [https://www.w3schools.com/bootstrap4/bootstrap\\_navbar.asp](https://www.w3schools.com/bootstrap4/bootstrap_navbar.asp)

navbar

Base class to create

**navbar**



```
<navclass="navbar">
```

```
    <!--Contents here-->
```

```
</nav>
```

navbar-default

Class to define type  
of **navbar**

navbar-inverse

Class to define type  
of **navbar**

```
<nav class="navbar navbar-inverse">
```

```
  <!--Contents here-->
```

```
</nav>
```

# Remember Page Layout Classes

container

Fixed width layout

container-fluid

Full width layout

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

```
    <!--Contents here-->
```

```
</div>
```



# Add Content To Navbar

navbar-brand

Styling website name  
or logo

```
<a class="navbar-brand" href="#">
```

*Website Logo*

```
</a>
```

# Login Form

navbar-form

Styling forms inside  
**navbar**

```
<form class="navbar-form">
```

```
  <!--Form elements here-->
```

```
</form>
```

form-group

Grouping form  
elements inside form.

```
<form class="navbar-form">  
  <div class="form-group">  
    <input type="text">  
    . . .  
  </div>  
</form>
```



form-control

Styling form elements  
inside form-group.

```
<form class="navbar-form">  
  <div class="form-group">  
    <input type="text" class="form-control">  
  </div>  
</form>
```

**Make it Responsive**

collapse

navbar-collapse

```
<div class="collapse navbar-collapse">
```

```
  <!--Contents here-->
```

```
</div>
```

# Navbar Positioning

navbar-left

navbar-right

```
<form class="navbar-form navbar-right">  
  <div class="form-group">  
    <input type="text" class="form-control">  
  </div>  
</form>
```



# Toggle Button

**Footer**

Milap

Log In

Milap



Copyright 2017 Acadview Inc.

navbar-text

text-center

```
<footer>
```

```
<!--navbar start-->
```

```
<nav class="navbar navbar-inverse">
```

```
<!--fixed width navbar contents-->
```

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

```
<p class="navbar-text text-center">
```

```
Copyright &copy; 2017 Acadview Inc.
```

```
</p>
```

```
</div>
```

```
<!--fixed width end-->
```

```
</nav>
```

```
<!--navbar end-->
```

```
</footer>
```

Sign Up

Milap

Log In

**Milap helps you connect and  
share with the people in your life.**



**Create an account  
It's free and always will be.**

Create an account



**Milap helps you connect and share with the people in your life.**



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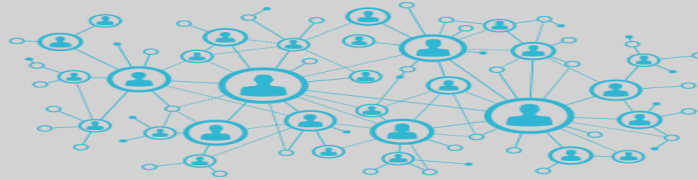
**Create an account  
It's free and always will be.**

Create an account

# Milap



**Milap helps you connect and share with the people in your life.**



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**It's free and always will be.**

**Create an account**

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# Your Today's Task

- Design a Responsive Template By using Bootstrap which does the Following task.
- Login/Sign-up Page (Contains Responsive Navbar and Footer )
- Using bootstrap tables to show some static data

# Free Bootstrap Themes

Official Themes-

<https://themes.getbootstrap.com/>

Sample Templates-

<https://startbootstrap.com/template-categories/all/>

# References

<https://www.w3schools.com/bootstrap4/default.asp>

<https://getbootstrap.com/>

*Thank You !!!!*

*That's All For Today.*