



# Bootstrap 4.0

The World's Most Popular Frontend Framework

# Bootstrap 4 with Material Design

## Contents

<b>Introduction</b> .....	5
<b>Open Source:</b> .....	5
Note: .....	6
<b>HTML, CSS and JS Framework.</b> .....	6
<b>Responsive Web Design (RWD):</b> .....	6
<b>Responsive Screen vs Non Responsive screen</b> .....	7
<b>Mobile first approach</b> .....	7
<b>Responsive web design vs. Mobile First Responsive web design</b> .....	8
<b>Works for any browser and any Operating System</b> .....	8
<b>History of Bootstrap:</b> .....	8
<b>Bootstrap Summary:</b> .....	9
<b>Installation of Bootstrap:</b> .....	9
Using NPM.....	9
<b>Bootstrap CDN</b> .....	10
Offline version.....	10
Note.....	10
<b>Sample Bootstrap Application (offline version)</b> .....	11
Note.....	11
<b>1. Basic Typography in Bootstrap</b> .....	12
Display classes.....	12
Paragraphs.....	12
Text Transformation .....	12
Style Classes .....	13
Block Quote classes.....	13
Un styled List.....	13
Inline list.....	13
<b>2. Text Alignment and Display</b> .....	14
To Justify the content.....	14
Text alignment .....	14
Responsive alignment.....	14

# Bootstrap 4 with Material Design

Responsive align Right.....	14
Responsive align Left .....	14
Responsive Align Center.....	15
NOTE .....	15
Vertical Alignment.....	15
Convert Block to Inline.....	16
Convert Inline to Block.....	16
Inline-Block.....	16
<b>3. Float Positions.....</b>	<b>17</b>
Float classes.....	17
Responsive float right classes .....	17
Responsive Left classes.....	17
Responsive Non classes.....	17
Clear fix .....	18
Fixed-top.....	18
Sticky Top .....	18
Fixed Bottom.....	18
<b>4. Colors &amp; Backgrounds.....</b>	<b>18</b>
Text Colors.....	18
Background color .....	19
Text Invisible.....	19
<b>5. Spacing in Bootstrap .....</b>	<b>20</b>
Margin related classes .....	20
Padding related classes .....	20
<b>6. Sizing in Bootstrap .....</b>	<b>21</b>
Width classes.....	21
Height classes.....	22
Borders.....	22
<b>7. Breakpoints .....</b>	<b>23</b>
<b>8. Buttons in Bootstrap.....</b>	<b>24</b>
Button Tags .....	24

# Bootstrap 4 with Material Design

Outline Buttons.....	25
Button Sizes.....	25
Block Level buttons .....	25
Button States.....	26
Button Drop Downs.....	26
<b>Split Dropdowns.....</b>	<b>26</b>
.....	27
<b>Button Groups.....</b>	<b>27</b>
<b>Button Toolbar.....</b>	<b>27</b>
<b>Button Group Vertical .....</b>	<b>28</b>
<b>9. Navbars.....</b>	<b>28</b>
Simple Navbar Example.....	29
Responsive Navbar.....	29
Navbar with Form inline .....	30
Navbar with Drop Down.....	31
<b>10. List Groups .....</b>	<b>32</b>
Active Items .....	32
Disabled Items.....	32
Links and Buttons .....	33
Contextual Classes.....	33
With Badges .....	33
<b>11. Forms .....</b>	<b>34</b>
Inline forms .....	36
<b>12. Input Groups.....</b>	<b>37</b>
Input groups for checkboxes and Radio buttons .....	37
<b>13. Alerts.....</b>	<b>38</b>
Link Color .....	39
Dismissible Alert messages .....	39
Progress Bars .....	40
<b>14. Tables in Bootstrap.....</b>	<b>40</b>
Pagination.....	44

# Bootstrap 4 with Material Design

<b>15.</b>	<b>Cards .....</b>	45
<b>16.</b>	<b>Media Objects.....</b>	49
<b>17.</b>	<b>Grid System in Bootstrap .....</b>	51
	<b>Nesting Grids .....</b>	54
<b>18.</b>	<b>Grid Alignments.....</b>	55
<b>19.</b>	<b>Flex Box.....</b>	60
	Direction.....	60
<b>20.</b>	<b>Auto Margins .....</b>	65
	<b>With Align Items.....</b>	65
	<b>Wrapping .....</b>	66
<b>21.</b>	<b>Carousel .....</b>	68
	<b>Simple Carousel .....</b>	68
	<b>Carousel with controls .....</b>	69
	<b>Carousel with Indicators .....</b>	70
	<b>Carousel with Captions .....</b>	71
<b>22.</b>	<b>Collapse.....</b>	73
	<b>Button with Collapse.....</b>	73
	<b>Accordion.....</b>	73
<b>23.</b>	<b>Tooltips .....</b>	75
	<b>Tooltips Examples.....</b>	76
<b>24.</b>	<b>Popovers .....</b>	76
	<b>Popovers Example .....</b>	76
<b>25.</b>	<b>Modal Component .....</b>	77
	<b>Modal Layout:.....</b>	78
	<b>Login Modal .....</b>	79
	<b>Online Resume Website.....</b>	80
	<b>UI Dashboard Website .....</b>	81
	<b>Corporate Website .....</b>	81

# Bootstrap 4 with Material Design

Bootstrap is free and open source and most popular HTML, CSS JavaScript Framework for creating responsive web applications. With the Bootstrap we can do the faster web development with responsive layouts and with mobile first approaches.

Bootstrap contains lot of CSS classes for making the web development faster, cleaner and more elegant way of developing responsive web applications. Bootstrap works with any browser and any operating system and any device.

Any developer with very less knowledge of UI Design skills can also develop an awesome websites using Bootstrap. Bootstrap is easy to learn and apply the features of it and achieve the web development faster.

Bootstrap contains HTML and CSS based design templates for typography, form , buttons , navigation and cards and other UI Components.

## Introduction

Bootstrap is a free, Open Source and Worlds most popular Front End framework for creating responsive and mobile first applications.

Bootstrap features:

- ➔ Bootstrap is an Open Source
- ➔ HTML , CSS , JS framework
- ➔ Used for creating responsive applications
- ➔ Uses Mobile first approach
- ➔ Works for any browser and any Operating System
- ➔ We can develop any kind of Web Applications without UI design knowledge
- ➔ Easy to learn

## Open Source:

Bootstrap is an open source means its original source code is made available as free of cost.

We can find the original source code in the following location:

<https://github.com/twbs/bootstrap/tree/v4>

Anyone can clone it or download it for any kind of modification and also for re distribution.

There is a redistribution of bootstrap is available as Material Design Bootstrap (MDB).

We can find the material design for bootstrap 4 is available at,

<https://mdbootstrap.com/>

# Bootstrap 4 with Material Design

Note:

As this is a licensed version, only some of the components are made available as free and we can download them as CSS files of MDB and start using them in our project for better UI look and feel.

**HTML, CSS and JS Framework.**

For any web application development the core technologies are HTML, CSS and JavaScript.

In order to develop any web applications using core technologies, requires an extensive knowledge of UI design skills and needs the best design patterns to make a web application to work more elegantly.

This also requires a lot of skeleton code base to frame any web application.

As Bootstrap is built on top of all these core technologies HTML, CSS and JavaScript and having built-in classes made available such as form , alerts , Navbars , buttons , list group , carousel and many more components with the best design patterns used in it.

By using Bootstrap, Web application development is made easy without any knowledge of UI design skills and also with the less number of lines of code.

**Responsive Web Design (RWD):**

This is one of the best approach of web design which makes web applications to render well on all kinds of devices such as large screen, laptops, tablets, mobiles.

This responsiveness can be achieved by dividing the whole screen with a responsive grid layout and certain media queries can be used.

```
// Extra small devices (portrait phones, less than 576px)
// No media query since this is the default in Bootstrap

// Small devices (landscape phones, 576px and up)
@media (min-width: 576px) { ... }

// Medium devices (tablets, 768px and up)
@media (min-width: 768px) { ... }

// Large devices (desktops, 992px and up)
@media (min-width: 992px) { ... }

// Extra large devices (large desktops, 1200px and up)
@media (min-width: 1200px) { ... }
```

Based on these media queries, the screens are divided into 4 sections in bootstrap,

Sm – small screen

Md – medium screen

Lg – large screen

Xl – extra large screen.

# Bootstrap 4 with Material Design

In Bootstrap all the components are built using the above media breakpoints.

Responsive Screen vs Non Responsive screen



## Mobile first approach

Mobile first approach is a way of designing web sites for smaller screens and then progressively adjust the design for larger screens using CSS media queries.

Luke Wroblewski first introduced the term “Mobile first” to the Web World in 2009.



Mobile first approach is important, because in the today's world everything is mobile based.

# Bootstrap 4 with Material Design

## Responsive web design vs. Mobile First Responsive web design

Responsive web design(RWD) is an approach to identify the Client device and changing the layout to fits the screen with Media Queries. In RWD, first we will design for Larger screen and Change the layout for smaller screens.

Mobile First Responsive design (Mobile First RWD) is just opposite to Responsive design. In this method, we will design for Smaller screen first, then change the layout with CSS media Queries when the screen Expands.

In Simple Words,

RWD is – Desktop -> Tablet -> Mobile

Mobile First RWD is – Mobile -> Tablet -> Desktop

Note:

The best way of designing a website suits to today's world is Mobile First RWD.

As this is an approach to reach any websites to more number of people, as 77% of the world's population has a mobile devices.

## Works for any browser and any Operating System

Any application built with Bootstrap will work the same way in all the modern browsers and all the operating systems available as to today.

Note:

Without any extensive knowledge of UI design skills we can develop any kind of websites with Mobile first RWD approach.

All the bootstrap classes are self-understandable and easy to use with HTML elements and also Bootstrap is an easy to learn framework.

## History of Bootstrap:

Twitter Employee Mark Otto and Jacob Thornton developed this Bootstrap and initially named as Twitter Blueprint.

The initial release of Bootstrap is Bootstrap 1.0 in Aug, 19, 2011.

The current version of Bootstrap is Bootstrap **4.0.0** released in **January 18, 2018**.

Before Bootstrap everyone use their own code and libraries for each components. This leads to inconsistency and high maintenance burden. In order to solve this problem Mark Otto and Jacob Together developed this Bootstrap, it took them several months and finally released the initial version in 2011. Later many other developers added to it. Later Twitter Blueprint is renamed to Bootstrap.

# Bootstrap 4 with Material Design

Bootstrap supports all most all the modern browsers like google chrome, Firefox, IE, Opera Safari etc. and it provides a set of stylesheets and enhances the default styling of HTML Elements, it is highly customizable.

There are lot of Differences between Bootstrap 3 and Bootstrap 4. In this book we will be learning Bootstrap 4 version. Bootstrap gained its popularity in the last 3 years and even all the CMS websites frameworks like WordPress, Drupal, and Joomla uses Bootstrap.

## Bootstrap Summary:

Creator	Mark Otto , Jacob Thornton
Initial Release	Bootstrap 1.0 in 2011
Current Release	Bootstrap 4.0 in Jan, 2018
License	Open Source
Official website	<a href="http://getbootstrap.com">http://getbootstrap.com</a>
Popularity	More than 1 lakh stars in Github
Core Concepts	Mobile first and Responsive in Nature
Works well in	Any Browser , Any Device , Any Operating System

## Installation of Bootstrap:

There are 3 ways we can install Bootstrap.

1. Using npm
2. Bootstrap CDN
3. Offline Version

### Using NPM

This way of installing is by using node package manager.

For this we should have already installed node JS from <http://nodejs.org> .

Once the node js is successfully installed , go to command prompt and execute the following command for bootstrap installation.

```
C:\Users\hp pc>npm install -g bootstrap
```

# Bootstrap 4 with Material Design

## Bootstrap CDN

Here in this way of installing Bootstrap we should give the CDN link to our html pages. CDN means Content Delivery Network , where the required bootstrap required files will be hosted and once we specify the links, they can be loaded very fast from CDN network and they even stored in the browser cache for faster loading.

We should give the cdn links to the following files.

<https://getbootstrap.com/docs/4.0/getting-started/download/>

1. bootstrap.min.css
2. JQuery.min.js
3. Popper.js
4. Bootstrap.min.js

## Offline version

In this we can manually download the mentioned files and add them to our HTML files. This method works even without internet also.

We can download from the url as below,

<https://getbootstrap.com/docs/4.0/getting-started/download/>

## Compiled CSS and JS

Download ready-to-use compiled code for **Bootstrap v4.0.0** to easily drop into your project, which includes:

- Compiled and minified CSS bundles (see [CSS files comparison](#))
- Compiled and minified JavaScript plugins

This doesn't include documentation, source files, or any optional JavaScript dependencies (jQuery and Popper.js).

[Download](#)

Once we click on the above download button, it downloads a zip file.

Once downloaded extract it, and got to dist folder of it to get the above files. Finally we needs to link to these files from our source code project.

## Note

1. Bootstrap.min.css should be added anywhere in the head section but before </head> tag.
2. If we have our own 'styles.css' then that should be added after bootstrap.min.css because we needs to override the existing styles of bootstrap in the styles.css.
3. Jquery.min.js, popper.min.js, bootstrap.min.js should be added in the body section just before we closing </body> tag in the HTML file.

# Bootstrap 4 with Material Design

4. While added the above JavaScript files we must follow the same order as below,
  - a. Jquery.min.js
  - b. Popper.min.js
  - c. Bootstrap.min.js
5. Why the order is important is bootstrap is depend in popper library and which is again depend on JQuery library.
6. If we have our own 'app.js' file to add some more JavaScript features, then that file should be added at the last after the bootstrap.min.js.

## Sample Bootstrap Application (offline version)

```
1  <!doctype html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <meta http-equiv="X-UA-Compatible" content="ie=edge">
7      <link rel="stylesheet" href="bootstrap/css/bootstrap.min.css">
8      <link rel="stylesheet" href="bootstrap/css/style.css">
9      <title>First App</title>
10     </head>
11     <body>
12         <h1>Hello Bootstrap</h1>
13
14
15         <!-- jQuery first, then Popper.js, then Bootstrap JS -->
16         <script src="bootstrap/js/jquery-3.2.1.min.js"></script>
17         <script src="bootstrap/js/popper.min.js"></script>
18         <script src="bootstrap/js/bootstrap.min.js"></script>
19     </body>
20 </html>
```

### Note

1. At line number 5, we have added a <meta> tag , which is responsible to provide responsiveness to any webpage.
2. *width="device-width"* This informs the bootstrap to capture the device width.
3. *Initial-scale = 1* this is the scaling information which is useful while was changing the device width and the scaling is initialized to 1.
4. *Shrink-to-fit = no* this attribute specifies, while we are on small screen devices it informs bootstrap weather or not to shrink with the content.

Let's discuss Bootstrap usage in detail as follows,

# Bootstrap 4 with Material Design

## 1. Basic Typography in Bootstrap

Bootstrap provides various typography related classes as follows,

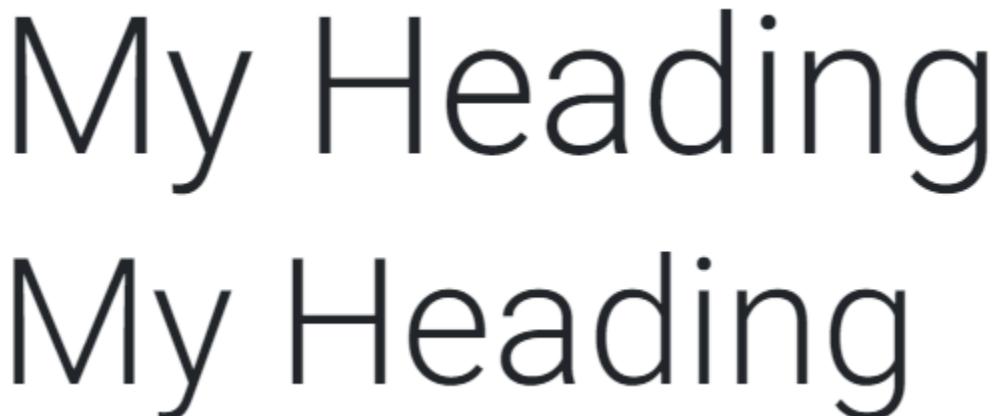
Display classes

There are 4 display classes available to use with any html elements to display the text bigger than original.

*display-1*  
*display-2*  
*display-3*  
*display-4*

All the display classes transforms the text to little more bigger text than original text, here display-1 is used for the bigger text and display-4 is the least big text.

```
<h1 class="display-1">My Heading</h1>
<h1 class="display-2">My Heading</h1>
```



My Heading

My Heading

Paragraphs

The *lead* class is used for little bigger text to the paragraph.

```
<p class="lead">Lorem ipsum dolor sit amet</p>
```

The *text-muted* is used for some dark shaded text.

```
<p class="text-muted">Lorem ipsum dolor sit amet</p>
```

Text Transformation

There are some classes available to transform the text to lowercase or uppercase or capitalize.

*text-capitalize* --> to convert from lowercase to capitalize

*text-uppercase* -> to convert from lowercase to uppercase

*text-lowercase* -> to convert from uppercase to lowercase.

# Bootstrap 4 with Material Design

```
<p class="text-lowercase">HELLO WORLD</p>
<p class="text-uppercase">hello world</p>
<p class="text-capitalize">hello world</p>
```

## Style Classes

Styles classes are used for font related styling.

*font-weight-bold* -> to display bold Text

*font-weight-normal* -> to display normal text

*font-italic* -> to display italic text

```
<p class="font-weight-bold">Bold Text</p>
<p class="font-weight-normal">Normal Text</p>
<p class="font-italic">Italic Text</p>
```

## Block Quote classes

*Blockquote* -> to display in quotations format (normally used for any quotations.)

```
<blockquote class="blockquote">
  <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Nobis, rerum!</p>
</blockquote>
```

## Un styled List

*list-unstyled* -> to removes DOTS of an un ordered list.

## Inline list

*list-inline* -> to display a list inline

*list-inline-item* -> used to specify the list item in inline

```
<ul class="list-unstyled">
  <li>Lorem ipsum dolor sit amet.</li>
  <li>Lorem ipsum dolor sit amet.</li>
  <li>Lorem ipsum dolor sit amet.</li>
  <li>Lorem ipsum dolor sit amet.</li>
</ul>
```

# Bootstrap 4 with Material Design

## 2. Text Alignment and Display

The following Bootstrap classes are used for various text alignments and display.

## To Justify the content

*Text-justify* -> to adjust or spread the content to all the lines of the paragraph equally.

*Lorem ipsum dolor sit amet, consectetur adipisicing elit. Dolor ad  
deleniti, placeat cumque, maiores fugiat tenetur ea voluptas  
voluptatem odio odit, dicta. Eaque reiciendis sed placeat omnis  
doloribus, corrupti eius.*

## Text alignment

*Text-left* -> to move align the text to left side (by default text aligned to left side).

*Text-center* -> used for center align the text

*Text-right* -> used for right alignment of text.

```
<p class="text-left">Lorem ipsum dolor sit.</p>
<p class="text-center">Lorem ipsum dolor sit.</p>
<p class="text-right">Lorem ipsum dolor sit.</p>
```

## Responsive alignment

Bootstrap comes with responsive alignment classes, which specifies to align the text with respect to the device width, whether to align the text center in small scale devices.

Responsive align Right

*text-sm-right* -> align right in small devices (mobiles)

*text-md-right* -> align right in medium devices (tabs)

*text-lg-right* -> align right in large devices (laptops & desktops)

*text-xl-right* -> align right in extra-large devices (big TV's and Projectors)

```
<p class="text-sm-right">Right aligned on small or larger</p>
<p class="text-md-right">Right aligned on medium or larger</p>
<p class="text-lg-right">Right aligned on large or larger</p>
<p class="text-xl-right">Right aligned on xl or larger</p>
```

Responsive align Left

*text-sm-left* -> align left in small devices (mobiles)

*text-md-left* -> align left in medium devices (tabs)

# Bootstrap 4 with Material Design

*text-lg-left* -> align left in large devices (laptops & desktops)

*text-xl-left* -> align left in extra large devices (big TV's and Projectors)

```
<p class="text-sm-left">Left aligned text on small or larger</p>
<p class="text-md-left">Left aligned text on medium or larger</p>
<p class="text-lg-left">Left aligned text on large or wider</p>
<p class="text-xl-left">Left aligned text on extra large or wider</p>
```

## Responsive Align Center

*text-sm-center* -> align center in small devices (mobiles)

*text-md-center* -> align center in medium devices (tabs)

*text-lg-center* -> align center in large devices (laptops & desktops)

*text-xl-center* -> align center in extra large devices (big TV's and Projectors)

```
<p class="text-sm-center">Center aligned text on small or larger</p>
<p class="text-md-center">Center aligned text on medium or larger</p>
<p class="text-lg-center">Center aligned text on large or wider</p>
<p class="text-xl-center">Center aligned text on extra large or wider</p>
```

## NOTE

Please note the following notations used for small devices to extra-large devices.

Sm – Small Devices

Md – Medium Devices

Lg – Large Devices

Xl – Extra Large Devices

## Vertical Alignment

The following Bootstrap classes are used to align the text vertically.

*align-baseline* -> to Align the text to the baseline

*align-top* -> to align the text to the top

*align-bottom* -> to align the text to the bottom

*align-middle* -> to align the text to the middle

*align-text-top* -> to align the text to the top

*align-text-bottom* -> to align the text to the bottom

```
<span class="align-baseline">baseline</span>
<span class="align-top">top</span>
<span class="align-bottom">bottom</span>
<span class="align-middle">middle</span>
<span class="align-text-top">text-top</span>
<span class="align-text-bottom">text-bottom</span>
```

# Bootstrap 4 with Material Design

Convert Block to Inline

*d-inline* - > Used to convert any block level element to Inline.

```
<h1 class="bg-success d-inline">Hello</h1>
<h1 class="bg-success d-inline">Goodbye</h1>
```



Hello Goodbye

Convert Inline to Block

*d-block* -> Used to convert any Inline element to Block level Element

```
<span class="bg-info d-block">Block</span>
```



Block

Inline-Block

*d-inline-block* -> to display an element in inline-block (used in main navigation)

```
<div class="bg-warning d-inline-block">
  <h3>Hello</h3>
  This is inline
</div>
<div class="bg-warning d-inline-block">
  <h3>Hello</h3>
  This is inline
</div>
```



Hello Hello  
This is inline This is inline

# Bootstrap 4 with Material Design

## 3. Float Positions

These classes are useful for floating of a text on the browser either right or left.

### Float classes

*Float-left* -> to float to right

*Float-right* -> to float to right

*Float-none* -> to float none

```
<div class="float-left">Float left</div><br>
<div class="float-right">Float right</div><br>
<div class="float-none">Float none</div><br>
```

### Responsive float right classes

*float-sm-right* -> to float right in small devices

*float-md-right* -> float to right in medium devices

*float-lg-right* -> float to right in large devices

*float-xl-right* -> float to right in extra-large devices

```
<div class="float-sm-right">Float right on small or wider</div><br>
<div class="float-md-right">Float right on medium or wider</div><br>
<div class="float-lg-right">Float right on large or wider</div><br>
<div class="float-xl-right">Float right on extra large or wider</div><br>
```

### Responsive Left classes

*float-sm-left* -> to float left in small devices

*float-md-left* -> float to left in medium devices

*float-lg-left* -> float to left in large devices

*float-xl-left* -> float to left in extra-large devices

```
<div class="float-sm-left">Float left on small or wider</div><br>
<div class="float-md-left">Float left on medium or wider</div><br>
<div class="float-lg-left">Float left on large or wider</div><br>
<div class="float-xl-left">Float left on extra large or wider</div><br>
```

### Responsive Non classes

*float-sm-none* -> to float none in small devices

*float-md-none* -> float to none in medium devices

*float-lg-none* -> float to none in large devices

*float-xl-none* -> float to none in extra-large devices

```
<div class="float-sm-none">Float none on small or wider</div><br>
<div class="float-md-none">Float none on medium or wider</div><br>
<div class="float-lg-none">Float none on large or wider</div><br>
<div class="float-xl-none">Float none on extra large or wider</div><br>
```

# Bootstrap 4 with Material Design

## Clear fix

When we apply any float classes, the next elements will be placed between the floated elements. To resolve this we must use clear fix to the next elements.

*Clearfix* -> to clear the floating to next elements.

```
<div class="bg-success clearfix">
  <button class="btn btn-secondary float-left">Float Left</button>
  <button class="btn btn-secondary float-right">Float Right</button>
</div>
```

## Fixed-top

To fix an element to the top section of the webpage. We normally use this class in main navigation.

*Fixed-top* -> to fix any element to top of the webpage

```
<h3 class="fixed-top">Fixed Top</h3>
```

## Sticky Top

To stick an element to the top of the webpage while scrolling the page.

*Sticky-top* -> to stick to top

```
<h3 class="sticky-top">Sticky</h3>
```

## Fixed Bottom

To fix an element to the bottom of the webpage. Normally we use this to footer section to fixed to bottom of the page.

*Fixed-bottom* -> to fix an element to bottom of the page.

```
<h3 class="fixed-bottom">Fixed Bottom</h3>
```

## 4. Colors & Backgrounds

Bootstrap comes with various classes to apply colors to the text and also apply background colors to any specific elements.

There are some primary colors specified by Bootstrap, they are as follows.

*Primary* -> blue color

*Secondary* -> gray color

*Success* -> green color

*Info* -> light blue color

*Warning* -> orange color

*Danger* -> red color

*White* -> white color

## Text Colors

Bootstrap comes with the following list of colors to apply some colors to textual information.

# Bootstrap 4 with Material Design

*Text-primary* -> to display text in blue color

*Text-secondary* -> to display text in gray color

*Text-success* -> to display text in green color

*Text-info* -> to display text in light blue color

*Text-warning* -> to display text in orange color

*Text-danger* -> to display text in red color

*Text-white* -> to display text in white color

```
<p class="text-info">Lorem ipsum dolor sit amet, consectetur.</p>
<p class="text-primary">Lorem ipsum dolor sit amet, consectetur.</p>
<p class="text-success">Lorem ipsum dolor sit amet, consectetur.</p>
<p class="text-warning">Lorem ipsum dolor sit amet, consectetur.</p>
<p class="text-danger">Lorem ipsum dolor sit amet, consectetur.</p>
<p class="text-secondary">Lorem ipsum dolor sit amet, consectetur.</p>
<p class="text-white bg-success">Lorem ipsum dolor sit amet, consectetur.</p>
```

## Background color

*Bg-primary* -> to apply blue color background to any element

*Bg-secondary* -> to apply gray color background to any element

*Bg-success* -> to apply green color background to any element

*Bg-info* -> to apply light blue color background to any element

*Bg-warning* -> to apply orange color background to any element

*Bg-danger* -> to apply red color background to any element

*Bg-white* -> to apply white color background to any element

```
<div class="bg-info">Nullam id dolor id nibh ultricies</div>
<div class="bg-primary">Duis mollis, est non commodo luctus</div>
<div class="bg-success">Maecenas sed diam eget risus varius </div>
<div class="bg-warning">Etiam porta sem malesuada </div>
<div class="bg-danger">Donec ullamcorper nulla non </div>
<div class="bg-secondary">Cras mattis consectetur</div>
<div class="bg-white">Cras mattis consectetur purus</div>
```

## Text Invisible

To hide any text we use the class name invisible.

*Invisible* -> to make the specified text invisible

```
<h1 class="invisible">Hello</h1>
```

# Bootstrap 4 with Material Design

## 5. Spacing in Bootstrap

Bootstrap comes with various class names to apply spacing between elements (margin) and spacing around the content (padding).

Margin classes are represented with a letter 'M'

Padding classes are represented with a letter 'P'

### Margin related classes

Each margin class is of 5 categories, they are (m-0, m-1, m-2, m-3, m-4, m-5)

M -> to apply margin all the sides

Mb -> to apply margin only to bottom

Mt -> to apply margin only to top

ML -> to apply margin only left

MR -> to apply margin only to right

Mx -> to apply margin to left as well as right

My -> to apply margin to top as well as bottom

```
<h1 class="bg-success mb-0">Lorem ipsum.</h1>
<h1 class="bg-success mb-1">Lorem ipsum.</h1>
<h1 class="bg-success mb-2">Lorem ipsum.</h1>
<h1 class="bg-success mb-3">Lorem ipsum.</h1>
<h1 class="bg-success mb-4">Lorem ipsum.</h1>
<h1 class="bg-success mb-5">Lorem ipsum.</h1>
```

Lorem ipsum.

Lorem ipsum.

Lorem ipsum.

Lorem ipsum.

Lorem ipsum.

Lorem ipsum.

Note: each of the above margin classes are again of 6 categories as from (mb-0 to mb-5)

### Padding related classes

Each padding class is of 5 categories, they are (p-0, p-1, p-2, p-3, p-4, p-5)

p -> to apply padding all the sides

pb -> to apply padding only to bottom

pt -> to apply padding only to top

pl -> to apply padding only left

## Bootstrap 4 with Material Design

pr -> to apply padding only to right

px -> to apply padding to left as well as right

py -> to apply padding to top as well as bottom

```
<h1 class="bg-warning pb-0">Lorem ipsum.</h1>
<h1 class="bg-warning pb-1">Lorem ipsum.</h1>
<h1 class="bg-warning pb-2">Lorem ipsum.</h1>
<h1 class="bg-warning pb-3">Lorem ipsum.</h1>
<h1 class="bg-warning pb-4">Lorem ipsum.</h1>
<h1 class="bg-warning pb-5">Lorem ipsum.</h1>
```

Lorem ipsum.

Lorem ipsum.

Lorem ipsum.

Lorem ipsum.

Lorem ipsum.

Lorem ipsum.

Note: each of the above padding classes are again of 6 categories as from (pb-0 to pb-5)

## 6. Sizing in Bootstrap

Bootstrap comes with several width and height classes as follows, normally we use these classes to apply width and height classes for displaying images and other elements.

### Width classes

w-25 -> 25% percent of actual width

w-50 -> 50% percent of actual width

w-75 -> 75% percent of actual width

w-100 -> 100% percent of actual width

# Bootstrap 4 with Material Design

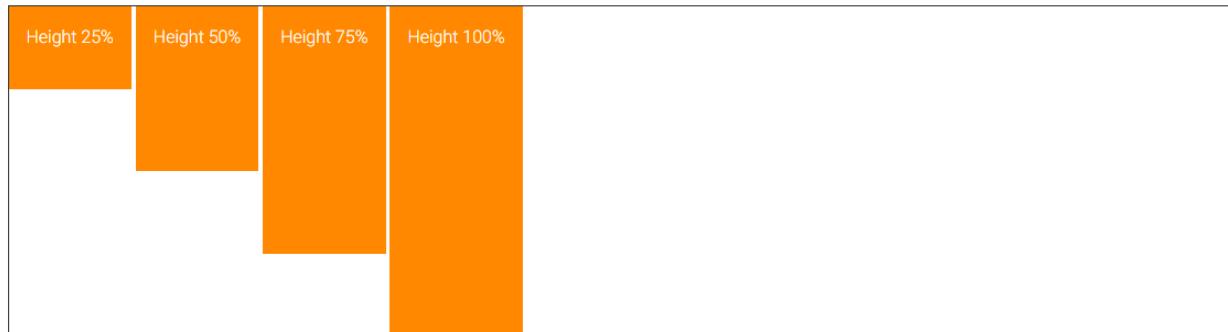
```
<div class="bg-success p-3 m-1 w-25 text-white">Width 25%</div>
<div class="bg-success p-3 m-1 w-50 text-white">Width 50%</div>
<div class="bg-success p-3 m-1 w-75 text-white">Width 75%</div>
<div class="bg-success p-3 m-1 w-100 text-white">Width 100%</div>
```



## Height classes

h-25 -> 25% percent of actual Height  
h-50 -> 50% percent of actual Height  
h-75 -> 75% percent of actual Height  
h-100 -> 100% percent of actual Height

```
<div style="height:300px; border:1px solid #333;">
  <div class="bg-warning d-inline-block p-3 h-25 text-white">Height 25%</div>
  <div class="bg-warning d-inline-block p-3 h-50 text-white">Height 50%</div>
  <div class="bg-warning d-inline-block p-3 h-75 text-white">Height 75%</div>
  <div class="bg-warning d-inline-block p-3 h-100 text-white">Height 100%</div>
</div>
```



## Borders

These Borders classes can be applied to text , images , or any other elements.  
In order to apply any border, we must use the base class "border"  
And the sub classes are as follows,

## Bootstrap 4 with Material Design

```
<span class="border border-primary">Lorem ipsum.</span>
<span class="border border-secondary">Lorem ipsum.</span>
<span class="border border-success">Lorem ipsum.</span>
<span class="border border-danger">Lorem ipsum.</span>
<span class="border border-warning">Lorem ipsum.</span>
<span class="border border-info">Lorem ipsum.</span>
<span class="border border-light">Lorem ipsum.</span>
<span class="border border-dark">Lorem ipsum.</span>
<span class="border border-white">Lorem ipsum.</span>
```

We can even apply some border radius to specified sides as well.

```







```

## 7. Breakpoints

Since Bootstrap is developed to be mobile first, we use a handful of media queries to create sensible breakpoints for our layouts and interfaces. These breakpoints are mostly based on minimum viewport widths and allow us to scale up elements as the viewport changes.

Bootstrap primarily uses the following media query ranges—or breakpoints—in our source Sass files for our layout, grid system, and components.

```
// Extra small devices (portrait phones, less than 576px)
// No media query since this is the default in Bootstrap
```

## Bootstrap 4 with Material Design

```
// Small devices (landscape phones, 576px and up)
@media (min-width: 576px) { ... }

// Medium devices (tablets, 768px and up)
@media (min-width: 768px) { ... }

// Large devices (desktops, 992px and up)
@media (min-width: 992px) { ... }

// Extra large devices (large desktops, 1200px and up)
@media (min-width: 1200px) { ... }
```

Device	Browser width
Small devices (mobiles)	576px
Medium devices (tablets)	768px
Large devices (laptops , Desktops)	992px
Extra Large Devices (large desktops ,tv's)	1200px

## 8. Buttons in Bootstrap

Bootstrap includes several predefined button styles, each serving its own semantic purpose, with a few extras thrown in for more control.

```
<button type="button" class="btn btn-primary">Primary</button>
<button type="button" class="btn btn-secondary">Secondary</button>
<button type="button" class="btn btn-success">Success</button>
<button type="button" class="btn btn-info">Info</button>
<button type="button" class="btn btn-warning">Warning</button>
<button type="button" class="btn btn-danger">Danger</button>
<button type="button" class="btn btn-dark">Dark</button>
```



### Button Tags

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).

# Bootstrap 4 with Material Design

```
<a href="#" role="button" class="btn btn-success">Link</a>
<button type="submit" class="btn btn-success">Button</button>
<input type="button" class="btn btn-success" value="Input">
<input type="submit" class="btn btn-success" value="Submit">
<input type="reset" class="btn btn-success" value="Reset">
```

LINK

BUTTON

INPUT

SUBMIT

RESET

## 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.

```
<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-info">Info</button>
<button type="button" class="btn btn-outline-warning">Warning</button>
<button type="button" class="btn btn-outline-danger">Danger</button>
```

PRIMARY

SECONDARY

SUCCESS

INFO

WARNING

DANGER

## Button Sizes

Fancy larger or smaller buttons? Add .btn-lg or .btn-sm for additional sizes.

```
<button type="button" class="btn btn-success btn-lg">Large button</button>
<button type="button" class="btn btn-success btn-sm">Small button</button>
<br><br>
<button type="button" class="btn btn-secondary btn-lg btn-block">Block level button</button>
```

LARGE BUTTON

SMALL BUTTON

BLOCK LEVEL BUTTON

## Block Level buttons

Create block level buttons—those that span the full width of a parent—by adding .btn-block.

```
<button type="button" class="btn btn-primary btn-lg btn-block">Block level button</button>
<button type="button" class="btn btn-secondary btn-lg btn-block">Block level button</button>
```

# Bootstrap 4 with Material Design



## Button States

Each button contains mainly three states as follows,

```
<button type="button" class="btn btn-warning">Regular Button</button>
<button type="button" class="btn btn-warning active">Active Button</button>
<button type="button" class="btn btn-warning disabled">Disabled Button</button>
```

REGULAR BUTTON

ACTIVE BUTTON

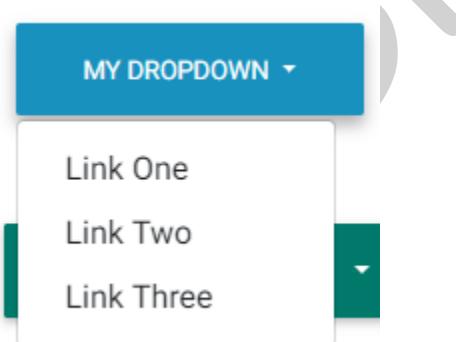
DISABLED BUTTON

TOGGLE STATE

## Button Drop Downs

Buttons are also can be used to display dropdowns as below.

```
<div class="dropdown">
  <button type="button" class="btn btn-info dropdown-toggle"
         data-toggle="dropdown">
    My Dropdown
  </button>
  <div class="dropdown-menu">
    <a href="#" class="dropdown-item">Link One</a>
    <a href="#" class="dropdown-item">Link Two</a>
    <a href="#" class="dropdown-item">Link Three</a>
  </div>
</div>
```



## Split Dropdowns

# Bootstrap 4 with Material Design

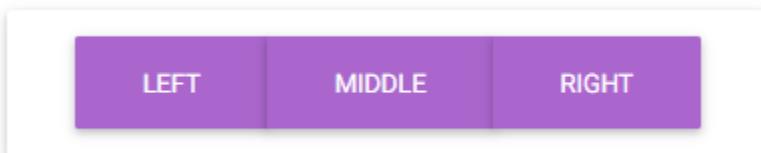
```
<div class="btn-group">
  <button type="button" class="btn btn-teal">My Button</button>
  <button type="button" class="btn btn-teal dropdown-toggle"
    data-toggle="dropdown">
  </button>
  <div class="dropdown-menu">
    <a href="#" class="dropdown-item">Link One</a>
    <a href="#" class="dropdown-item">Link Two</a>
    <a href="#" class="dropdown-item">Link Three</a>
    <div class="dropdown-divider"></div>
    <a href="#" class="dropdown-item">Link Four</a>
  </div>
</div>
```



## Button Groups

We can display number of buttons in a group as follows,

```
<div class="btn btn-group">
  <button type="button" class="btn btn-secondary">Left</button>
  <button type="button" class="btn btn-secondary">Middle</button>
  <button type="button" class="btn btn-secondary">Right</button>
</div>
```

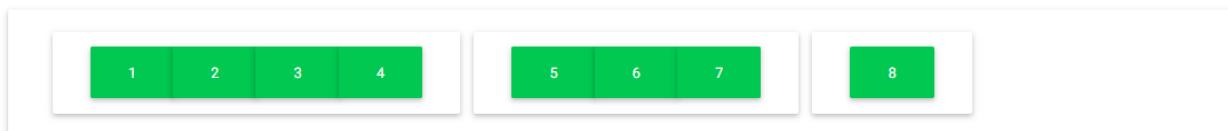


## Button Toolbar

A group of button groups is denoted as button toolbar.

# Bootstrap 4 with Material Design

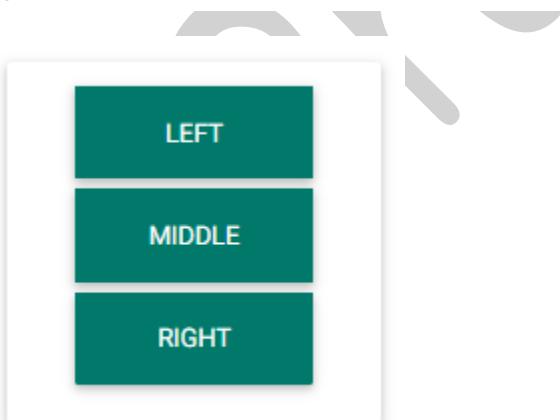
```
<div class="btn btn-toolbar">
  <div class="btn btn-group">
    <button type="button" class="btn btn-success">1</button>
    <button type="button" class="btn btn-success">2</button>
    <button type="button" class="btn btn-success">3</button>
    <button type="button" class="btn btn-success">4</button>
  </div>
  <div class="btn btn-group">
    <button type="button" class="btn btn-success">5</button>
    <button type="button" class="btn btn-success">6</button>
    <button type="button" class="btn btn-success">7</button>
  </div>
  <div class="btn btn-group">
    <button type="button" class="btn btn-success">8</button>
  </div>
</div>
```



## Button Group Vertical

We can even display a vertical button group as follows,

```
<div class="btn btn-group-vertical">
  <button type="button" style="display: none" class="btn btn-teal">Left</button>
  <button type="button" class="btn btn-teal">Left</button>
  <button type="button" class="btn btn-teal">Middle</button>
  <button type="button" class="btn btn-teal">Right</button>
</div>
```



## 9. Navbars

Navbars are used to display the main navigation for any websites.

Basically each Navbar comes with the following classes,

# Bootstrap 4 with Material Design

.navbar -> is the base class for navigation  
.navbar-expand{-sm|-md|-lg|-xl} -> for Responsive Navbar collapse  
.navbar-dark -> for dark Navbar  
.navbar-brand for your company, product, or project name.  
.navbar-nav for a full-height and lightweight navigation (including support for dropdowns).  
.nav-item -> for each navigation item like (home , news , contact etc)  
.nav-link -> each nav item contains a nav link  
.navbar-toggler for use with our collapse plugin and other navigation toggling behaviors.  
.form-inline for any form controls and actions.  
.navbar-text for adding vertically centered strings of text.  
.collapse.navbar-collapse for grouping and hiding navbar contents by a parent breakpoint.

## Simple Navbar Example



```
<nav class="navbar navbar-expand-sm navbar-dark bg-dark">
  <div class="container">
    <a href="#" class="navbar-brand">
      Navbar Brand </a>
    <div class="collapse navbar-collapse" id="simpleNavbar">
      <ul class="navbar-nav">
        <li class="nav-item">
          <a class="nav-link" href="#">Home</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">About</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Services</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Contact</a>
        </li>
      </ul>
    </div>
  </div>
</nav>
```

SIMPLE NAVBAR

Navbar Brand Home About Services Contact

## Responsive Navbar

# Bootstrap 4 with Material Design

```
<nav class="navbar navbar-expand-sm navbar-dark bg-dark">
  <div class="container">
    <a href="#" class="navbar-brand">
      Navbar Brand </a>
    <button class="navbar-toggler" data-toggle="collapse" data-target="#responsiveNavbar">
      <span class="navbar-toggler-icon"></span>
    </button>

    <div class="collapse navbar-collapse" id="responsiveNavbar">
      <ul class="navbar-nav">
        <li class="nav-item">
          <a class="nav-link" href="#">Home</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">About</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Services</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Contact</a>
        </li>
      </ul>
    </div>
  </div>
</nav>
```

## NAVBAR WITH RESPONSIVE TOGGLE

Navbar Brand Home About Services Contact

## Navbar with Form inline

```
<nav class="navbar navbar-expand-lg navbar-dark bg-dark">
  <div class="container">
    <a href="#" class="navbar-brand">
      Navbar Brand </a>
    <button class="navbar-toggler" data-toggle="collapse" data-target="#formNavbar">
      <span class="navbar-toggler-icon"></span>
    </button>

    <div class="collapse navbar-collapse" id="formNavbar">
      <ul class="navbar-nav">
        <li class="nav-item">
          <a class="nav-link" href="#">Home</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">About</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Services</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Contact</a>
        </li>
      </ul>
      <form class="form-inline ml-auto">
        <input class="form-control" type="text" placeholder="Search..."/>
        <button type="submit" class="btn btn-outline-success btn-sm">Search</button>
      </form>
    </div>
  </div>
</nav>
```

# Bootstrap 4 with Material Design

## NAVBAR WITH FORM



## Navbar with Drop Down

```
<nav class="navbar navbar-expand-lg navbar-dark bg-dark">
  <div class="container">
    <a href="#" class="navbar-brand">
      Navbar Brand </a>
    <button class="navbar-toggler" data-toggle="collapse" data-target="#dropdownNavbar">
      | <span class="navbar-toggler-icon"></span>
    </button>

    <div class="collapse navbar-collapse" id="dropdownNavbar">
      <ul class="navbar-nav">
        <li class="nav-item">
          <a class="nav-link" href="#">Home</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">About</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Services</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Contact</a>
        </li>
        <li class="nav-item dropdown">
          <a class="nav-link dropdown-toggle"
             data-toggle="dropdown" href="#">Courses</a>
          <div class="dropdown-menu">
            <a class="dropdown-item" href="#">HTML</a>
            <a class="dropdown-item" href="#">JavaScript</a>
            <a class="dropdown-item" href="#">CSS</a>
            <a class="dropdown-item" href="#">Bootstrap</a>
          </div>
        </li>
      </ul>
      <form class="form-inline ml-auto">
        <input class="form-control" type="text" placeholder="Search..."/>
        <button type="submit" class="btn btn-outline-success btn-sm">Search</button>
      </form>
    </div>
  </div>
</nav>
```

## NAVBAR WITH DROPODOWN



# Bootstrap 4 with Material Design

## 10. List Groups

List groups are a flexible and powerful component for displaying a series of content. Modify and extend them to support just about any content within. The most basic list group is an unordered list with list items and the proper classes. Build upon it with the options that follow, or with your own CSS as needed.

```
<ul class="list-group">
  <li class="list-group-item list-group-item-action">My List Item One</li>
  <li class="list-group-item list-group-item-action">My List Item Two</li>
  <li class="list-group-item list-group-item-action">My List Item Three</li>
  <li class="list-group-item list-group-item-action">My List Item Four</li>
  <li class="list-group-item list-group-item-action">My List Item Five</li>
</ul>
```

My List Item One
My List Item Two
My List Item Three
My List Item Four
My List Item Five

### Active Items



Add `.active` to a `.list-group-item` to indicate the current active selection.

```
<ul class="list-group">
  <a class="list-group-item list-group-item-action" href="#">My List Item One</a>
  <a class="list-group-item list-group-item-action" href="#">My List Item Two</a>
  <a class="list-group-item list-group-item-action" href="#">My List Item Three</a>
  <a class="list-group-item list-group-item-action" href="#">My List Item Four</a>
  <a class="list-group-item list-group-item-action" href="#">My List Item Five</a>
</ul>
```

### Disabled Items



Add `.disabled` to a `.list-group-item` to make it *appear* disabled. Note that some elements with `.disabled` will also require custom JavaScript to fully disable their click events (e.g., links).

```
<ul class="list-group">
  <li class="list-group-item disabled">Cras justo odio</li>
  <li class="list-group-item">Dapibus ac facilisis in</li>
  <li class="list-group-item">Morbi leo risus</li>
  <li class="list-group-item">Porta ac consectetur ac</li>
  <li class="list-group-item">Vestibulum at eros</li>
</ul>
```

# Bootstrap 4 with Material Design

## Links and Buttons

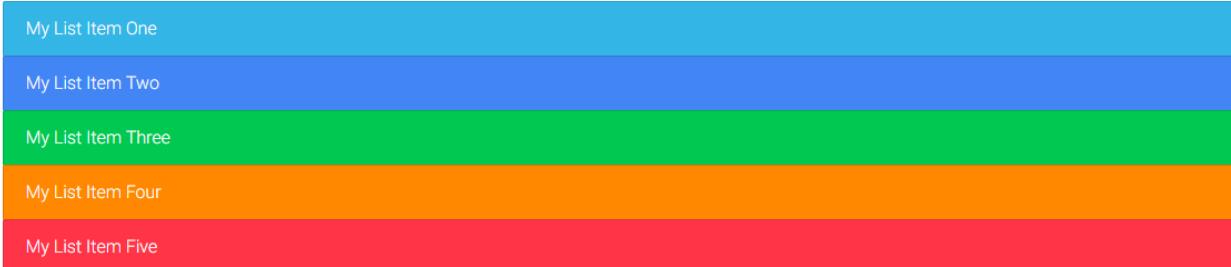
Use `<a>`s or `<button>`s to create *actionable* list group items with hover, disabled, and active states by adding `.list-group-item-action`. We separate these pseudo-classes to ensure list groups made of non-interactive elements (like `<li>`s or `<div>`s) don't provide a click or tap affordance.

```
<div class="list-group">
  <a href="#" class="list-group-item list-group-item-action active">
    Cras justo odio
  </a>
  <a href="#" class="list-group-item list-group-item-action">Dapibus ac facilisis in</a>
  <a href="#" class="list-group-item list-group-item-action">Morbi leo risus</a>
  <a href="#" class="list-group-item list-group-item-action">Porta ac consectetur ac</a>
  <a href="#" class="list-group-item list-group-item-action disabled">Vestibulum at eros</a>
</div>
```

## Contextual Classes

Use contextual classes to style list items with a background and color.

```
<ul class="list-group">
  <li class="list-group-item bg-info text-white ">My List Item One</li>
  <li class="list-group-item bg-primary text-white">My List Item Two</li>
  <li class="list-group-item bg-success text-white">My List Item Three</li>
  <li class="list-group-item bg-warning text-white">My List Item Four</li>
  <li class="list-group-item bg-danger text-white">My List Item Five</li>
</ul>
```



## With Badges

Add badges to any list group item to show unread counts, activity, and more with the help of some utilities.

## Bootstrap 4 with Material Design

```
<ul class="list-group">
  <li class="list-group-item">My List Item One</li>
  <li class="list-group-item">My List Item Two
    <span class="badge badge-danger badge-pill">23</span></li>
  <li class="list-group-item">My List Item Three
    <span class="badge badge-success badge-pill">43</span></li>
  <li class="list-group-item">My List Item Four</li>
  <li class="list-group-item">My List Item Five</li>
</ul>
```



## 11. Forms

Bootstrap comes with various classes for each form elements.

.form-group -> each form element should be in this class.

.form-control -> each form element is represented with this class.

```
<form>
  <div class="form-group">
    <label for="name">Name</label>
    <input class="form-control" type="text" id="name" placeholder="Enter name">
  </div>
  <div class="form-group">
    <label for="email">Email address</label>
    <input class="form-control" type="email" id="email" placeholder="Enter email">
    <small class="text-muted">Your email will not be shared with anyone</small>
  </div>
  <div class="form-group">
    <label for="password">Password</label>
    <input class="form-control" type="password" id="password" placeholder="Password" readonly>
  </div>
  <div class="form-group">
    <label for="gender">Gender</label>
    <select class="form-control" id="gender">
      <option>Male</option>
      <option>Female</option>
    </select>
  </div>
</form>
```

# Bootstrap 4 with Material Design

```
<div class="form-group">
    <label for="message">Message</label>
    <textarea class="form-control" id="message" rows="3"></textarea>
</div>
<div class="form-group">
    <label for="file">File input</label>
    <input class="form-control-file" type="file" id="file">
    <small id="fileHelp" class="text-muted">Max 3mb size</small>
</div>

<fieldset>
    <legend>What are you using this service for?</legend>
    <div class="form-check">
        <label class="form-check-label">
            <input class="form-check-input" type="radio" value="option1" checked>
            Personal
        </label>
    </div>
    <div class="form-check">
        <label class="form-check-label">
            <input class="form-check-input" type="radio" value="option2">
            Commercial Use
        </label>
    </div>
    <div class="form-check">
        <label class="form-check-label">
            <input class="form-check-input" type="radio" value="option3" disabled>
            Testing
        </label>
    </div>
</fieldset>
<div class="form-check">
    <label class="form-check-label">
        <input class="form-check-input" type="checkbox">
        Sign up for newsletter
    </label>
</div>
<button class="btn btn-success" type="submit">Submit</button>
</form>
```

# Bootstrap 4 with Material Design

Name

Email address

Your email will not be shared with anyone

Password

Gender

Male

Message

File input

No file chosen  
Max 3mb size

What are you using this service for?

Personal  
 Commercial Use  
 Testing  
 Sign up for newsletter

**SUBMIT**

## Inline forms

Forms can be displayed inline as follows,

```
<form class="form-inline">
    <input class="form-control mr-3" type="text" id="username" placeholder="Enter username">
    <input class="form-control mr-3" type="text" id="password" placeholder="Password">
    <div class="form-check mr-3">
        <label class="form-check-label">
            <input class="form-check-input" type="checkbox"> Remember me
        </label>
    </div>

    <button class="btn btn-success" type="submit">Submit</button>
</form>
```

Enter username

Password

Remember me

**SUBMIT**

# Bootstrap 4 with Material Design

## 12. Input Groups

Input groups are used to extend the form controls by adding text , buttons , button groups on either side of the textual inputs.

Place one add-on or button on either side of an input. You may also place one on both sides of an input.

```
<div class="input-group mb-3">
  <div class="input-group-prepend">
    <span id="basic-addon1" class="input-group-text bg-danger text-white">@</span>
  </div>
  <input class="form-control bg-dark text-white" type="text" placeholder="Username" aria-label="Username" aria-describedby="basic-addon1">
</div>

<div class="input-group mb-3">
  <input class="form-control bg-dark text-white" type="text" placeholder="Recipient's username" aria-label="Recipient's username" aria-describedby="basic-addon2">
  <div class="input-group-append">
    <span class="input-group-text bg-danger text-white" id="basic-addon2">@example.com</span>
  </div>
</div>
```



### Input groups for checkboxes and Radio buttons

We can add input groups for checkboxes and radio buttons as follows,

```
<div class="input-group mt-3">
  <div class="input-group-prepend">
    <span class="input-group-text bg-danger text-white">$</span>
  </div>
  <input class="form-control bg-dark text-white" type="text" aria-label="Amount (to the nearest dollar)">
  <div class="input-group-append">
    <span class="input-group-text bg-danger text-white">.00</span>
  </div>
</div>
```

# Bootstrap 4 with Material Design

```
$ .00  
<div class="input-group">  
  <div class="input-group-prepend">  
    <div class="input-group-text bg-danger text-white">  
      <input type="checkbox">  
    </div>  
  </div>  
  <input class="form-control bg-dark text-white" type="text" aria-label="Text input with checkbox">  
</div>
```

```
□ .00  
<div class="input-group mt-3">  
  <div class="input-group-prepend">  
    <div class="input-group-text bg-danger text-white">  
      <input type="radio">  
    </div>  
  </div>  
  <input class="form-control bg-dark text-white" type="text" aria-label="Text input with checkbox">  
</div>
```

```
● .00
```

## 13. Alerts

Alerts messages are used to provide contextual feedback messages for typical user actions with the handful of available and flexible alert messages.

Alerts are available for any length of text, as well as an optional dismiss button. For proper styling, use one of the eight **required** contextual classes (e.g., .alert-success).

```
<div class="alert alert-success">  
  <strong>Success</strong> Blog post added <a href="#" class="alert-link">Check it out</a>  
</div>  
<div class="alert alert-primary">  
  <strong>Attention</strong> You have a new message <a href="#" class="alert-link">Check it out</a>  
</div>
```

Success Blog post added [Check it out](#)

Attention You have a new message [Check it out](#)

```
<div class="alert alert-warning">  
  <strong>Warning</strong> Please check the log files <a href="#" class="alert-link">Check it out</a>  
</div>  
<div class="alert alert-danger">  
  <h4>There's a Problem</h4>  
  <strong>Error</strong> Database update failed <a href="#" class="alert-link">Check it out</a>  
</div>
```

# Bootstrap 4 with Material Design

Warning Please check the log files [Check it out](#)

There's a Problem

Error Database update failed [Check it out](#)

## Link Color

To display the link color as per the alert messages we use the class called '.alert-link'. Use the .alert-link utility class to quickly provide matching colored links within any alert.

```
<div class="alert alert-primary" role="alert">
  This is a primary alert with <a href="#" class="alert-link">an example link</a>. Give it a click if you like.
</div>
<div class="alert alert-secondary" role="alert">
  This is a secondary alert with <a href="#" class="alert-link">an example link</a>. Give it a click if you like.
</div>
<div class="alert alert-success" role="alert">
  This is a success alert with <a href="#" class="alert-link">an example link</a>. Give it a click if you like.
</div>
<div class="alert alert-danger" role="alert">
  This is a danger alert with <a href="#" class="alert-link">an example link</a>. Give it a click if you like.
</div>
```

This is a primary alert with [an example link](#). Give it a click if you like.

This is a secondary alert with [an example link](#). Give it a click if you like.

This is a success alert with [an example link](#). Give it a click if you like.

This is a danger alert with [an example link](#). Give it a click if you like.

## Dismissible Alert messages

We can make a dismissible alert messages by adding .alert-dismissible class.

```
<!-- DISMISSABLE -->
<div class="alert alert-dismissible alert-success">
  <button type="button" class="close">
    <i class="fa fa-window-close" data-dismiss="alert"></i>
  </button>
  <strong>Success</strong> Blog post added <a href="#">Check it out</a>
</div>
```

Success Blog post added [Check it out](#) 

# Bootstrap 4 with Material Design

## Progress Bars

Progress bars are used to display a progressing information.

Progress components are built with two HTML elements, some CSS to set the width, and a few attributes. We don't use the HTML5 <progress> element, ensuring you can stack progress bars, animate them, and place text labels over them.

- We use the .progress as a wrapper to indicate the max value of the progress bar.
- We use the inner .progress-bar to indicate the progress so far.
- The .progress-bar requires an inline style, utility class, or custom CSS to set their width.
- The .progress-bar also requires some role and aria attributes to make it accessible.

```
<div class="progress">
    <div class="progress-bar bg-success" style="width: 25%;height: 20px;">25%</div>
</div>
<br>
<div class="progress">
    <div class="progress-bar bg-warning" style="width: 50%;height: 20px;">25%</div>
</div>
<br>
<div class="progress">
    <div class="progress-bar bg-danger" style="width: 75%;height: 20px;">25%</div>
</div>
```

---

---

---

## 14. Tables in Bootstrap

Tables can be displayed with the default styling by adding the class name '.table'.

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.

## Bootstrap 4 with Material Design

```
<table class="table">
  <thead>
    <tr>
      <th>#</th>
      <th>First Name</th>
      <th>Last Name</th>
      <th>Email</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th scope="row">1</th>
      <td>John</td>
      <td>Doe</td>
      <td>jdoe@gmail.com</td>
    </tr>
  </tbody>
</table>
```

#	First Name	Last Name	Email
1	John	Doe	jdoe@gmail.com
2	Will	Johnson	will@yahoo.com
3	Shannon	Williams	shannon@yahoo.com

We use the following classes for table

- .table -> base class to display table
- .table-dark -> to display Inverse table
- .table-bordered -> to display a bordered table
- .table-hover -> to display Hoverable table
- .table-responsive-sm -> for responsive table

## Bootstrap 4 with Material Design

```
<table class="table table-dark">
  <thead>
    <tr>
      <th>#</th>
      <th>First Name</th>
      <th>Last Name</th>
      <th>Email</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th scope="row">1</th>
      <td>John</td>
      <td>Doe</td>
      <td>jdoe@gmail.com</td>
    </tr>
  </tbody>
</table>
```

#	First Name	Last Name	Email
1	John	Doe	jdoe@gmail.com
2	Will	Johnson	will@yahoo.com
3	Shannon	Williams	shannon@yahoo.com

UiB's

# Bootstrap 4 with Material Design

```
<table class="table">
  <thead class="table-dark">
    <tr>
      <th>#</th>
      <th>First Name</th>
      <th>Last Name</th>
      <th>Email</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th scope="row">1</th>
      <td>John</td>
      <td>Doe</td>
      <td>jdoe@gmail.com</td>
    </tr>
  </tbody>
</table>
```

#	First Name	Last Name	Email
1	John	Doe	jdoe@gmail.com
2	Will	Johnson	will@yahoo.com
3	Shannon	Williams	shannon@yahoo.com

```
<table class="table table-bordered">
  <thead class="table-dark">
    <tr>
      <th>#</th>
      <th>First Name</th>
      <th>Last Name</th>
      <th>Email</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th scope="row">1</th>
      <td>John</td>
      <td>Doe</td>
      <td>jdoe@gmail.com</td>
    </tr>
  </tbody>
</table>
```

# Bootstrap 4 with Material Design

#	First Name	Last Name	Email
1	John	Doe	jdoe@gmail.com
2	Will	Johnson	will@yahoo.com
3	Shannon	Williams	shannon@yahoo.com

```
<table class="table table-hover text-center">
  <thead class="bg-success text-white ">
    <tr>
      <th>#</th>
      <th>First Name</th>
      <th>Last Name</th>
      <th>Email</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th scope="row">1</th>
      <td>John</td>
      <td>Doe</td>
      <td>jdoe@gmail.com</td>
    </tr>
  </tbody>
</table>
```

#	First Name	Last Name	Email
1	John	Doe	jdoe@gmail.com
2	Will	Johnson	will@yahoo.com
3	Shannon	Williams	shannon@yahoo.com

## Pagination

We use a large block of connected links for our pagination, making links hard to miss and easily scalable—all while providing large hit areas. Pagination is built with list HTML elements so screen readers can announce the number of available links. Use a wrapping `<nav>` element to identify it as a navigation section to screen readers and other assistive technologies.

# Bootstrap 4 with Material Design

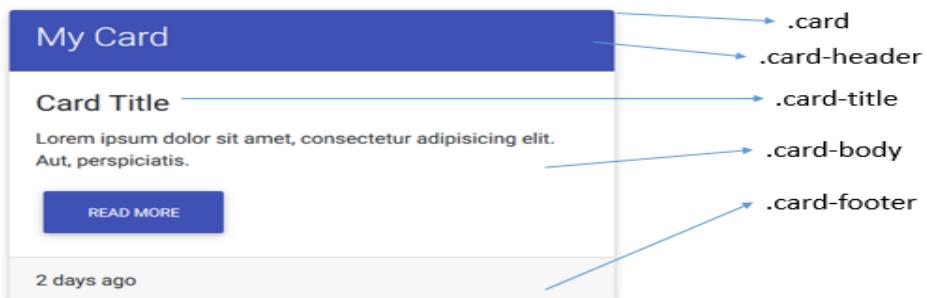
In addition, as pages likely have more than one such navigation section, it's advisable to provide a descriptive aria-label for the `<nav>` to reflect its purpose. For example, if the pagination component is used to navigate between a set of search results, an appropriate label could be `aria-label="Search results pages"`.

```
<nav>
  <ul class="pagination pagination-lg justify-content-start">
    <li class="page-item disabled"><a class="page-link" href="#">Previous</a></li>
    <li class="page-item active"><a class="page-link" href="#">1</a></li>
    <li class="page-item"><a class="page-link" href="#">2</a></li>
    <li class="page-item"><a class="page-link" href="#">3</a></li>
    <li class="page-item"><a class="page-link" href="#">Next</a></li>
  </ul>
</nav>
```

Previous 1 2 3 Next

## 15. Cards

A **card** is a flexible and extensible content container. It includes options for headers and footers, a wide variety of content, contextual background colors, and powerful display options. If you're familiar with Bootstrap 3, cards replace our old panels, wells, and thumbnails. Similar functionality to those components is available as modifier classes for cards.



```
<!-- CARD BODY -->
<div class="card">
  <div class="card-body">
    Lorem ipsum dolor sit amet, consectetur adipisicing elit. Delectus, voluptate.
  </div>
</div>
```

# Bootstrap 4 with Material Design

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Delectus, voluptate.

```
<div class="card">
  <div class="card-body">
    <h4 class="card-title">Card Title</h4>
    <h6 class="card-subtitle">Card subtitle</h6>
    <p class="card-text">Lorem ipsum dolor sit amet, consectetur adipisicing elit. Illo, quas.</p>
    <a class="btn btn-secondary" href="#">Read More</a>
  </div>
</div>
```

## Card Title

Card subtitle

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Illo, quas.

[READ MORE](#)

```
<div style="width:20rem" class="card">
  
  <div class="card-body">
    <h4 class="card-title">Card Title</h4>
    <p class="card-text">Lorem ipsum dolor sit amet, consectetur adipisicing elit. Illo, quas.</p>
    <a class="btn btn-success" href="#">Read More</a>
  </div>
</div>
```



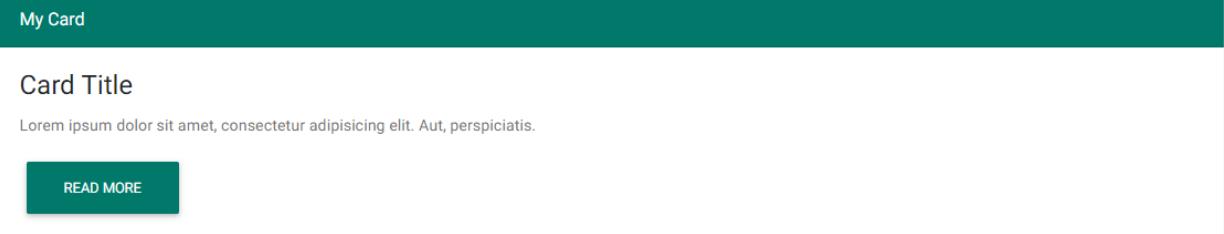
## Card Title

Lorem ipsum dolor sit amet, consectetur  
adipisicing elit. Illo, quas.

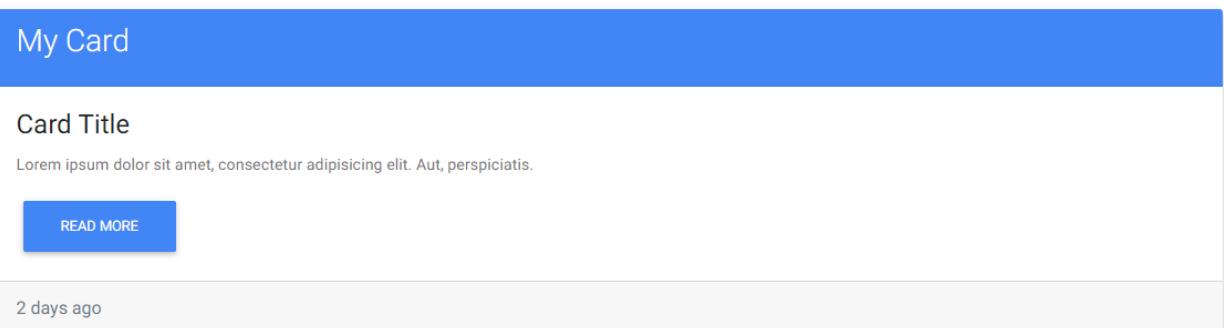
[READ MORE](#)

# Bootstrap 4 with Material Design

```
<div class="card">
  <div class="card-header bg-teal text-white">
    My Card
  </div>
  <div class="card-body">
    <h4 class="card-title">Card Title</h4>
    <p class="card-text">Lorem ipsum dolor sit amet, consectetur adipisicing elit.</p>
    <a class="btn btn-teal" href="#">Read More</a>
  </div>
</div>
```

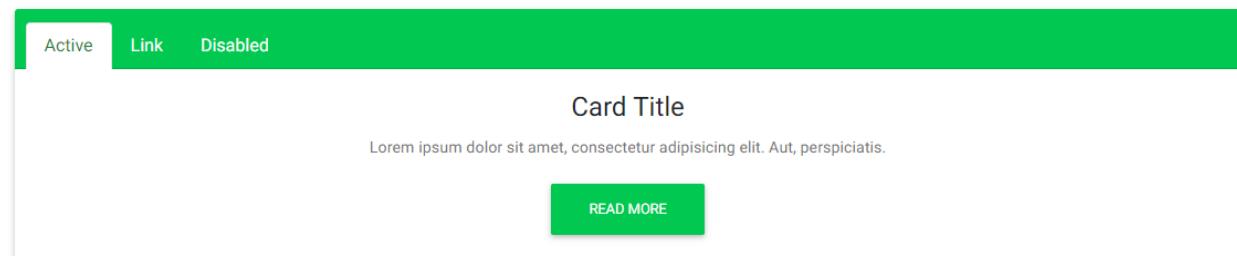


```
<div class="card">
  <div class="card-header bg-primary text-white">
    <h3 class="card-title">My Card</h3>
  </div>
  <div class="card-body">
    <h4 class="card-title">Card Title</h4>
    <p class="card-text">Lorem ipsum dolor sit amet, consectetur adipisicing elit</p>
    <a class="btn btn-primary" href="#">Read More</a>
  </div>
  <div class="card-footer text-muted">
    2 days ago
  </div>
</div>
```

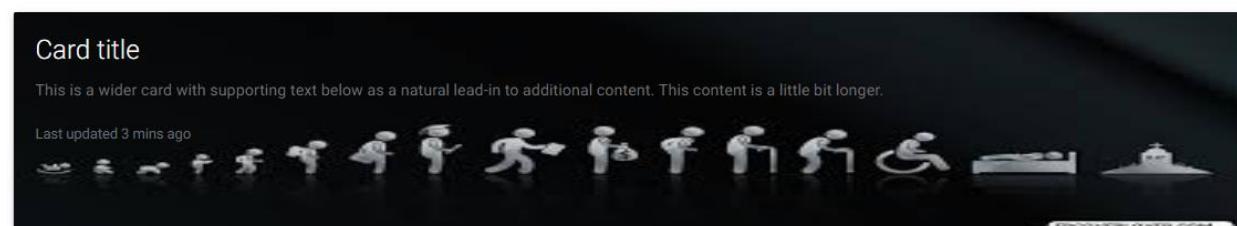


# Bootstrap 4 with Material Design

```
<div class="card text-center">
  <div class="card-header bg-success ">
    <ul class="nav nav-tabs card-header-tabs ">
      <li class="nav-item">
        <a class="nav-link active text-success" href="#">Active</a>
      </li>
      <li class="nav-item">
        <a class="nav-link text-white" href="#">Link</a>
      </li>
      <li class="nav-item">
        <a class="nav-link text-white disabled" href="#">Disabled</a>
      </li>
    </ul>
  </div>
  <div class="card-body">
    <h4 class="card-title">Card Title</h4>
    <p class="card-text">Lorem ipsum dolor sit amet, consectetur adipisicing elit</p>
    <a class="btn btn-success" href="#">Read More</a>
  </div>
</div>
```



```
<div class="card">
  
  <div class="card-img-overlay">
    <h4 class="card-title text-white">Card title</h4>
    <p class="card-text">This is a wider card with supporting text below as a natural This content is a little bit longer.</p>
    <p class="text-muted"><small>Last updated 3 mins ago</small></p>
  </div>
</div>
```



```
<div class="card bg-info text-white">
  <div class="card-body">
    <h4 class="card-title">Card Title</h4>
    <p class="card-text">Lorem ipsum dolor sit amet, consectetur adipisicing elit. Illo, quas.</p>
  </div>
</div>
```

# Bootstrap 4 with Material Design

## Card Title

  Lorem ipsum dolor sit amet, consectetur adipisicing elit. Illo, quas.

## 16. Media Objects

The media object helps build complex and repetitive components where some media is positioned alongside content that doesn't wrap around said media. Plus, it does this with only two required classes thanks to flexbox.

Below is an example of a single media object. Only two classes are required—the wrapping .media and the .media-body around your content. Optional padding and margin can be controlled through spacing utilities.

```
<div class="media">
  
  <div class="media-body">
    <h5>Media heading</h5>
    Cras sit amet nibh libero, in gravida nulla. Nulla vel metus scelerisque ante sollicitudin.
    Cras purus odio, vestibulum in vulputate at, tempus viverra turpis. Fusce condimentum nunc ac nisi
    vulputate fringilla. Donec lacinia congue felis in faucibus.
  </div>
</div>
```

 Media heading  
Cras sit amet nibh libero, in gravida nulla. Nulla vel metus scelerisque ante sollicitudin. Cras purus odio, vestibulum in vulputate at, tempus viverra turpis. Fusce condimentum nunc ac nisi vulputate fringilla. Donec lacinia congue felis in faucibus.

```
<div class="media">
  
  <div class="media-body">
    <h5>Media heading</h5>
    Cras sit amet nibh libero, in gravida nulla. Nulla vel metus scelerisque ante sollicitudin.
    Cras purus odio, vestibulum in vulputate at, tempus viverra turpis. Fusce condimentum nunc ac nisi
    vulputate fringilla. Donec lacinia congue felis in faucibus.

    <div class="media mt-3">
      <a href="#" class="d-flex mr-2">
        
      </a>
      <div class="media-body">
        <h5>Media heading</h5>
        Cras sit amet nibh libero, in gravida nulla. Nulla vel metus scelerisque ante
        sollicitudin. Cras purus odio, vestibulum in vulputate at, tempus viverra turpis. Fusce condimentum
        nunc ac nisi vulputate fringilla. Donec lacinia congue felis in faucibus.
      </div>
    </div>
  </div>
</div>
```

# Bootstrap 4 with Material Design



## Media heading

Cras sit amet nibh libero, in gravida nulla. Nulla vel metus scelerisque ante sollicitudin. Cras purus odio, vestibulum in vulputate at, tempus viverra turpis. Fusce condimentum nunc ac nisi vulputate fringilla. Donec lacinia congue felis in faucibus.



## Media heading

Cras sit amet nibh libero, in gravida nulla. Nulla vel metus scelerisque ante sollicitudin. Cras purus odio, vestibulum in vulputate at, tempus viverra turpis. Fusce condimentum nunc ac nisi vulputate fringilla. Donec lacinia congue felis in faucibus.

```
<div class="media">
  
  <div class="media-body">
    <h5>Top aligned media</h5>
    <p>Cras sit amet nibh libero, in gravida nulla. Nulla vel metus scelerisque ante sollicitudin. Cras purus odio, vestibulum in vulputate at, tempus viverra turpis. Fusce condimentum nunc ac nisi vulputate fringilla. Donec lacinia congue felis in faucibus.</p>
    <p>Donec sed odio dui. Nullam quis risus eget urna mollis ornare vel eu leo. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus.</p>
  </div>
</div>
```



## Top aligned media

Cras sit amet nibh libero, in gravida nulla. Nulla vel metus scelerisque ante sollicitudin. Cras purus odio, vestibulum in vulputate at, tempus viverra turpis. Fusce condimentum nunc ac nisi vulputate fringilla. Donec lacinia congue felis in faucibus.

Donec sed odio dui. Nullam quis risus eget urna mollis ornare vel eu leo. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus.

```
<div class="media">
  
  <div class="media-body">
    <h5>Center aligned media</h5>
    <p>Cras sit amet nibh libero, in gravida nulla. Nulla vel metus scelerisque ante sollicitudin. Cras purus odio, vestibulum in vulputate at, tempus viverra turpis. Fusce condimentum nunc ac nisi vulputate fringilla. Donec lacinia congue felis in faucibus.</p>
    <p>Donec sed odio dui. Nullam quis risus eget urna mollis ornare vel eu leo. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus.</p>
  </div>
</div>
```

## Center aligned media

Cras sit amet nibh libero, in gravida nulla. Nulla vel metus scelerisque ante sollicitudin. Cras purus odio, vestibulum in vulputate at, tempus viverra turpis. Fusce condimentum nunc ac nisi vulputate fringilla. Donec lacinia congue felis in faucibus.

Donec sed odio dui. Nullam quis risus eget urna mollis ornare vel eu leo. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus.

```
<div class="media">
  
  <div class="media-body">
    <h5>Bottom aligned media</h5>
    <p>Cras sit amet nibh libero, in gravida nulla. Nulla vel metus scelerisque ante sollicitudin. Cras purus odio, vestibulum in vulputate at, tempus viverra turpis. Fusce condimentum nunc ac nisi vulputate fringilla. Donec lacinia congue felis in faucibus.</p>
    <p>Donec sed odio dui. Nullam quis risus eget urna mollis ornare vel eu leo. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus.</p>
  </div>
</div>
```

## Bottom aligned media

Cras sit amet nibh libero, in gravida nulla. Nulla vel metus scelerisque ante sollicitudin. Cras purus odio, vestibulum in vulputate at, tempus viverra turpis. Fusce condimentum nunc ac nisi vulputate fringilla. Donec lacinia congue felis in faucibus.

Donec sed odio dui. Nullam quis risus eget urna mollis ornare vel eu leo. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus.



# Bootstrap 4 with Material Design

```
<ul class="list-unstyled">
  <li class="media bg-success p-3 text-white">
    
    <div class="media-body">
      <h5>List based media object</h5>
      Cras sit amet nibh libero, in gravida nulla. Nulla vel metus scelerisque ante sollicitudin.
      Cras purus odio, vestibulum in vulputate at, tempus viverra turpis. Fusce condimentum nunc ac nisi
      vulputate fringilla. Donec lacinia congue felis in faucibus.
    </div>
  </li>
  <li class="media bg-warning p-3 text-white">
    
    <div class="media-body">
      <h5>List based media object</h5>
      Cras sit amet nibh libero, in gravida nulla. Nulla vel metus scelerisque ante sollicitudin.
      Cras purus odio, vestibulum in vulputate at, tempus viverra turpis. Fusce condimentum nunc ac nisi
      vulputate fringilla. Donec lacinia congue felis in faucibus.
    </div>
  </li>
</ul>
```



List based media object

Cras sit amet nibh libero, in gravida nulla. Nulla vel metus scelerisque ante sollicitudin. Cras purus odio, vestibulum in vulputate at, tempus viverra turpis. Fusce condimentum nunc ac nisi vulputate fringilla. Donec lacinia congue felis in faucibus.



List based media object

Cras sit amet nibh libero, in gravida nulla. Nulla vel metus scelerisque ante sollicitudin. Cras purus odio, vestibulum in vulputate at, tempus viverra turpis. Fusce condimentum nunc ac nisi vulputate fringilla. Donec lacinia congue felis in faucibus.



List based media object

Cras sit amet nibh libero, in gravida nulla. Nulla vel metus scelerisque ante sollicitudin. Cras purus odio, vestibulum in vulputate at, tempus viverra turpis. Fusce condimentum nunc ac nisi vulputate fringilla. Donec lacinia congue felis in faucibus.

## 17. Grid System in Bootstrap

Bootstrap grid system comes with 12 column layout built with flexboxes to allow responsiveness.

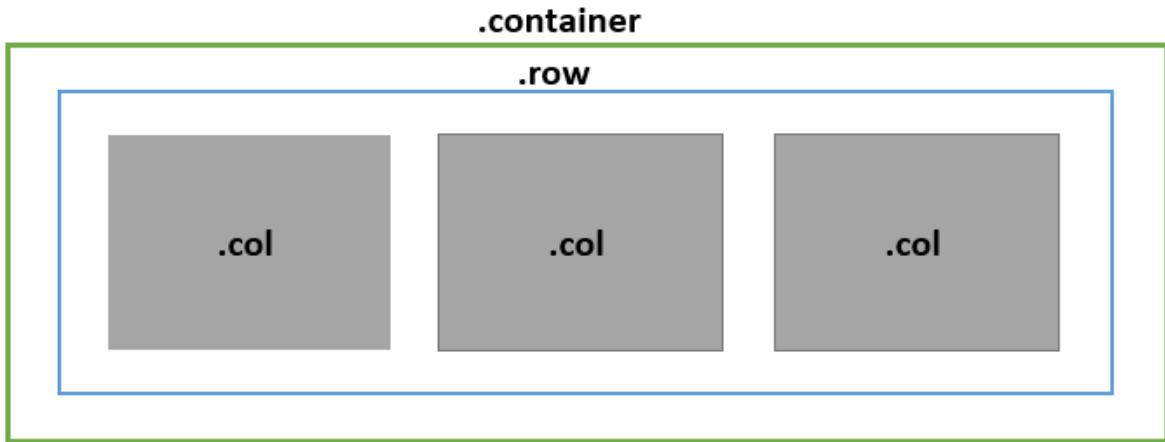
The content should be within the container for fixed width or container-fluid for full width pages.

We should use '.row' class to line up the content in one line, and the content should be inside a '.col' class.

# Bootstrap 4 with Material Design

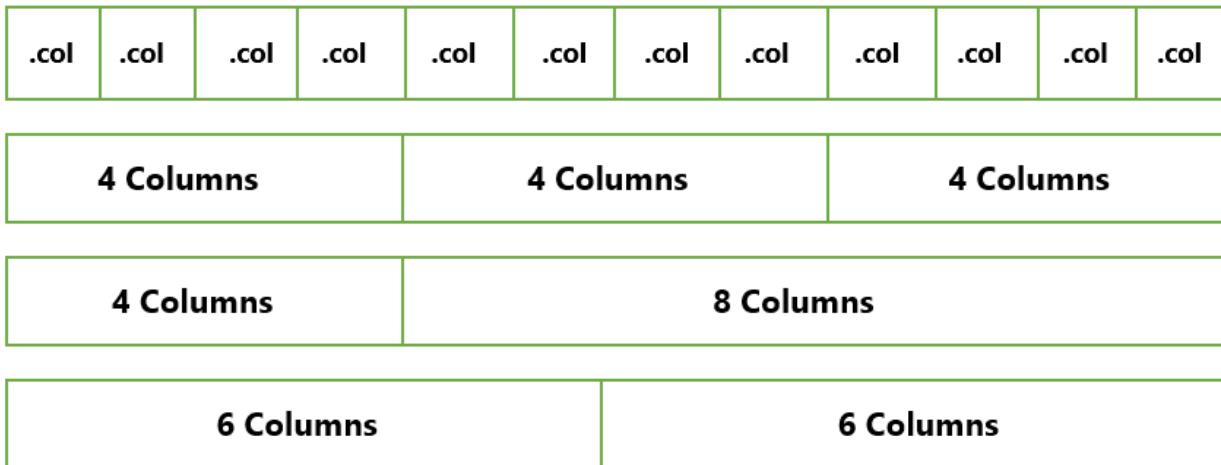
```
<div class="container">
  <div class="row">
    <div class='col-4'>
      <h3>Heading col-4</h3>
      <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Aperiam asperiores blanditiis distinctio dolor</p>
    </div>
    <div class='col-4'>
      <h3>Heading col-4</h3>
      <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Aperiam asperiores blanditiis distinctio dolor</p>
    </div>
    <div class='col-4'>
      <h3>Heading col-4</h3>
      <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Aperiam asperiores blanditiis distinctio dolor</p>
    </div>
  </div>
</div>
```

Heading col-4 Lorem ipsum dolor sit amet, consectetur adipisicing elit. Aperiam asperiores blanditiis distinctio dolor, ea expedita iusto libero, molestiae nemo nulla numquam optio porro quae rerum sequi sunt, temporal! Amet delectus doloremque error eveniet itaque nostrum officia quasi, temporibus ullam voluptatem?	Heading col-4 Lorem ipsum dolor sit amet, consectetur adipisicing elit. Aperiam asperiores blanditiis distinctio dolor, ea expedita iusto libero, molestiae nemo nulla numquam optio porro quae rerum sequi sunt, temporal! Amet delectus doloremque error eveniet itaque nostrum officia quasi, temporibus ullam voluptatem?	Heading col-4 Lorem ipsum dolor sit amet, consectetur adipisicing elit. Aperiam asperiores blanditiis distinctio dolor, ea expedita iusto libero, molestiae nemo nulla numquam optio porro quae rerum sequi sunt, temporal! Amet delectus doloremque error eveniet itaque nostrum officia quasi, temporibus ullam voluptatem?
--	--	--



In Bootstrap the width of the browser is divided into 12 col layout.

## Bootstrap 4 with Material Design

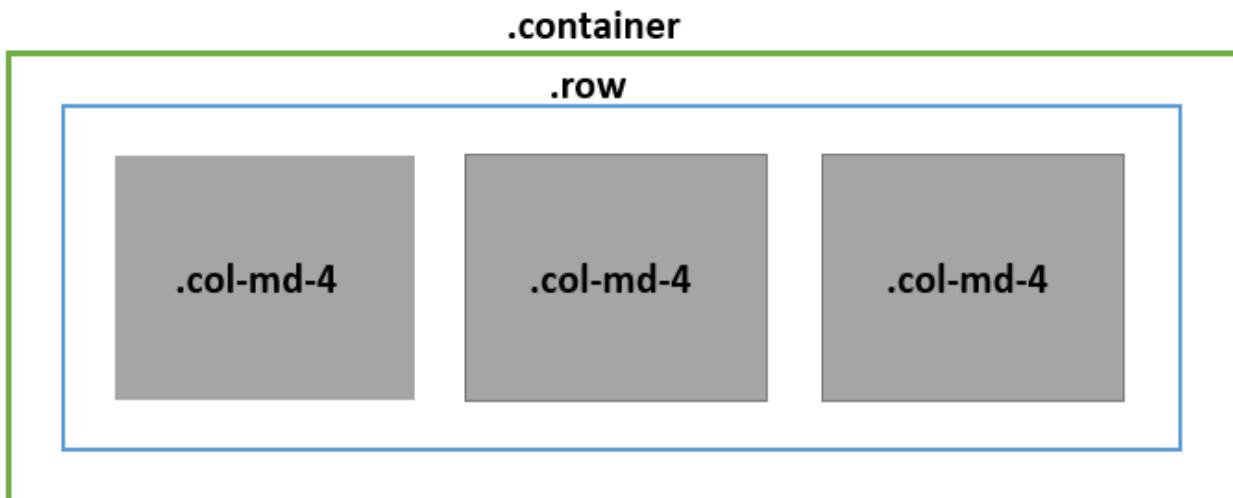


### Responsive classes

Bootstrap comes with responsive classes such as,

**Col - { sm / md / lg / xl } - { number }**

To display 3-cols in medium screen,

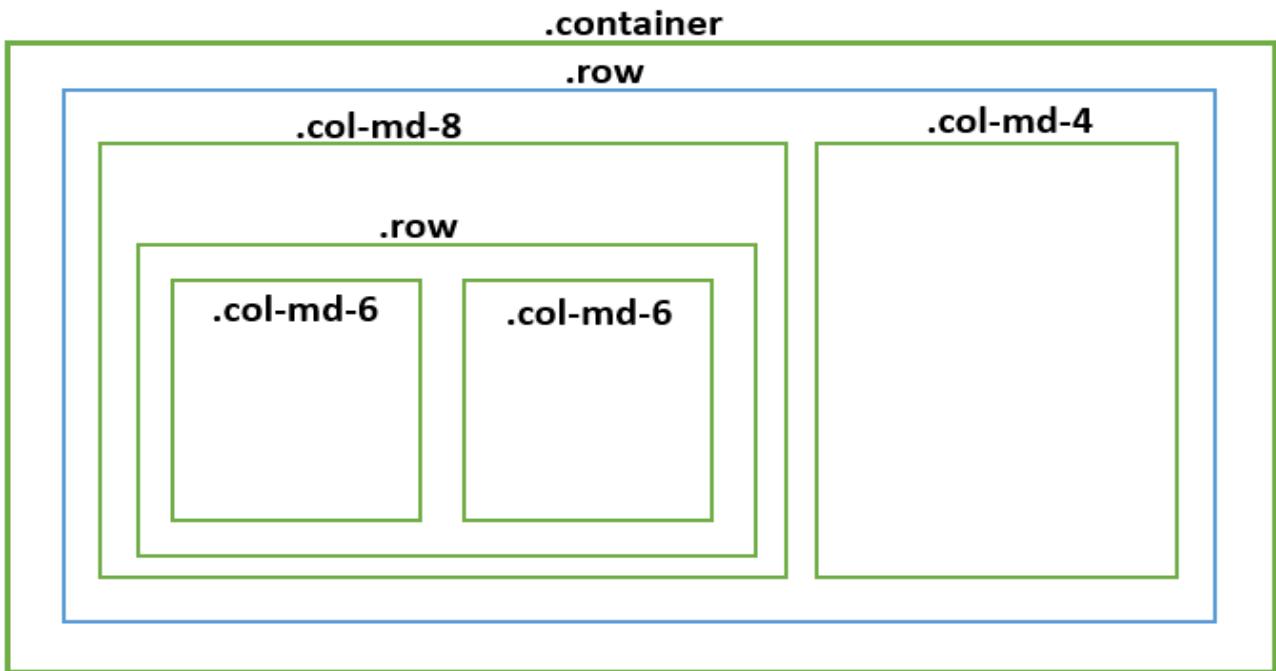


# Bootstrap 4 with Material Design

```
<div class="container">
  <div class="row">
    <div class="col-md-4">
      ....
    </div>
    <div class="col-md-4">
      ....
    </div>
    <div class="col-md-4">
      ....
    </div>
  </div>
</div>
```

## Nesting Grids

We can even do the nesting of grid elements on inside the other. Each nested grid also have the width of 12 column layout.



# Bootstrap 4 with Material Design

```
<!-- NESTING GRIDS -->
<div class="container">
  <div class="row">
    <div class="col-md-8">
      .....
      <div class="row">
        <div class="col-md-6">
          .....
        </div>
        <div class="col-md-6">
          .....
        </div>
      </div>
      <div class="col-md-4">
        .....
      </div>
    </div>
  </div>
</div>
```

## 18. Grid Alignments

Bootstrap uses flexbox alignment utilities to align the columns vertically or horizontally in the grid.

### Vertical Alignment

The following are the vertical alignment classes

- .*align-items-start* -> to align all the items in the grid to start of the grid
- .*align-items-center* -> to align all the items in the grid to center of the grid
- .*align-items-end* -> to align all the items in the grid to end of the grid

We can even align individual columns using the following classes.

- .*align-self-start* -> to align to the start of the grid.
- .*align-self-center* -> to align to the center of the grid
- .*align-self-end* -> to align to the end of the grid

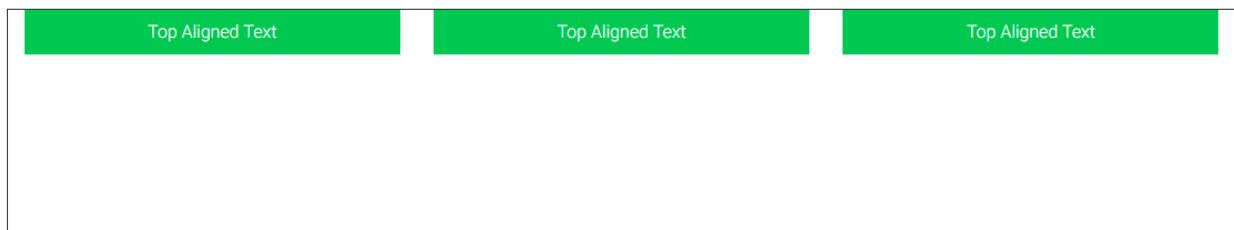
### Horizontal alignment

The following Bootstrap classes are used to align items horizontally.

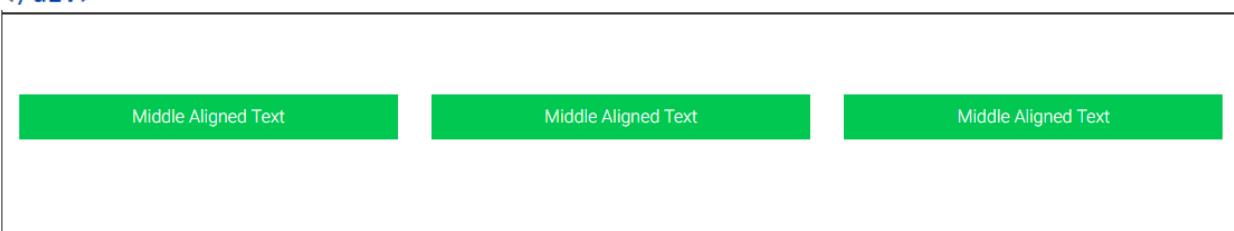
- .*justify-content-start* -> to align all the items to left side of the grid.
- .*justify-content-center* -> to align all the items to center of the grid.
- .*justify-content-end* -> to align all the items to end of the grid.
- .*justify-content-around* -> to align the items in the grid with some space around them.
- .*justify-content-between* -> to align the items in the grid with some space between them.

## Bootstrap 4 with Material Design

```
<div class="row align-items-start" style="height:200px; border:1px #333 solid">
  <div class="col">
    <p class="bg-success p-2 text-white text-center">Top Aligned Text</p>
  </div>
  <div class="col">
    <p class="bg-success p-2 text-white text-center">Top Aligned Text</p>
  </div>
  <div class="col">
    <p class="bg-success p-2 text-white text-center">Top Aligned Text</p>
  </div>
</div>
```



```
<div class="row align-items-center" style="height:200px; border:1px #333 solid">
  <div class="col">
    <p class="bg-success p-2 text-white text-center">Middle Aligned Text</p>
  </div>
  <div class="col">
    <p class="bg-success p-2 text-white text-center">Middle Aligned Text</p>
  </div>
  <div class="col">
    <p class="bg-success p-2 text-white text-center">Middle Aligned Text</p>
  </div>
</div>
```



```
<div class="row align-items-end" style="height:200px; border:1px #333 solid">
  <div class="col">
    <p class="bg-success p-2 text-white text-center">Bottom Aligned Text</p>
  </div>
  <div class="col">
    <p class="bg-success p-2 text-white text-center">Bottom Aligned Text</p>
  </div>
  <div class="col">
    <p class="bg-success p-2 text-white text-center">Bottom Aligned Text</p>
  </div>
</div>
```

# Bootstrap 4 with Material Design

Bottom Aligned Text

Bottom Aligned Text

Bottom Aligned Text

```
<div class="container">
  <div class="row" style="height:200px; border:1px #333 solid">
    <div class="col align-self-start">
      <p class="bg-warning text-center text-white p-2">Top Aligned</p>
    </div>
    <div class="col align-self-center">
      <p class="bg-warning text-center text-white p-2">Middle Aligned</p>
    </div>
    <div class="col align-self-end">
      <p class="bg-warning text-center text-white p-2">Bottom Aligned</p>
    </div>
  </div>
</div>
```

Top Aligned

Middle Aligned

Bottom Aligned

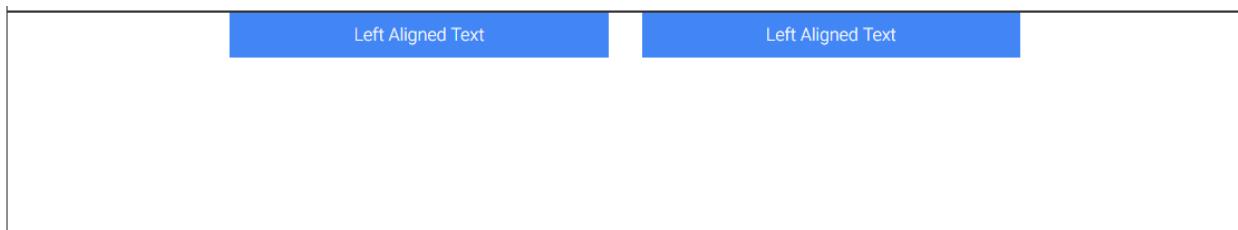
```
<div class="row justify-content-start" style="height:200px; border:1px #333 solid">
  <div class="col-4">
    <p class="bg-primary text-white text-center p-2">Left Aligned Text</p>
  </div>
  <div class="col-4">
    <p class="bg-primary text-white text-center p-2">Left Aligned Text</p>
  </div>
</div>
```

Left Aligned Text

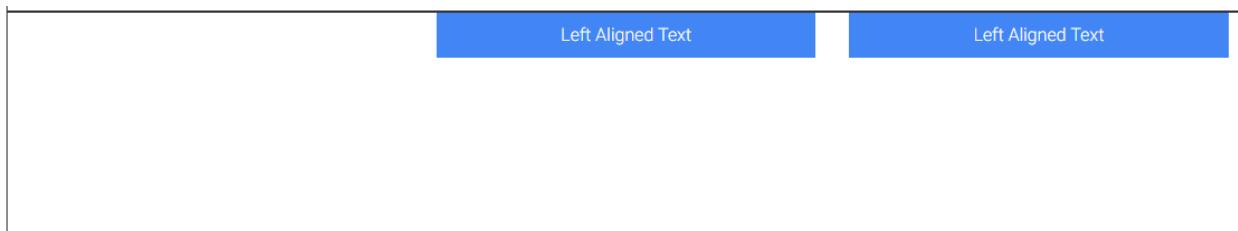
Left Aligned Text

## Bootstrap 4 with Material Design

```
<div class="row justify-content-center" style="height:200px; border:1px #333 solid">
  <div class="col-4">
    <p class="bg-primary text-white text-center p-2">Left Aligned Text</p>
  </div>
  <div class="col-4">
    <p class="bg-primary text-white text-center p-2">Left Aligned Text</p>
  </div>
</div>
```



```
<div class="row justify-content-end" style="height:200px; border:1px #333 solid">
  <div class="col-4">
    <p class="bg-primary text-white text-center p-2">Left Aligned Text</p>
  </div>
  <div class="col-4">
    <p class="bg-primary text-white text-center p-2">Left Aligned Text</p>
  </div>
</div>
```



```
<div class="row justify-content-around" style="height:200px; border:1px #333 solid">
  <div class="col-4">
    <p class="bg-primary text-white text-center p-2">Left Aligned Text</p>
  </div>
  <div class="col-4">
    <p class="bg-primary text-white text-center p-2">Left Aligned Text</p>
  </div>
</div>
```



# Bootstrap 4 with Material Design

```
<div class="row justify-content-between" style="height:200px; border:1px #333 solid">
  <div class="col-4">
    <p class="bg-primary text-white text-center p-2">Left Aligned Text</p>
  </div>
  <div class="col-4">
    <p class="bg-primary text-white text-center p-2">Left Aligned Text</p>
  </div>
</div>
```



```
<div class="row no-gutters">
  <div class="col-4">
    <div class="card">
      <div class="card-body">
        <h3 class="card-title">Card Title</h3>
        <p class="card-text">Lorem</p>
      </div>
    </div>
  </div>
  <div class="col-4">
    <div class="card">
      <div class="card-body">
        <h3 class="card-title">Card Title</h3>
        <p class="card-text">Lorem </p>
      </div>
    </div>
  </div>
  <div class="col-4">
    <div class="card">
      <div class="card-body">
        <h3 class="card-title">Card Title</h3>
        <p class="card-text">Lorem </p>
      </div>
    </div>
  </div>
</div>
```



# Bootstrap 4 with Material Design

## 19. Flex Box

Bootstrap Flexbox classes are used to quickly manage the layout, alignment, and sizing of grid columns, navigation, components, and more with a full suite of responsive flexbox utilities. For more complex implementations, custom CSS may be necessary.

To create a flex-box container , we have to use a base class called 'd-flex'

```
<div class="d-flex p-2">I'm a flexbox container!</div>
```

Direction



We can set the direction of flex-items in the flex container with the direction utilities.

In most cases you can omit the horizontal class here as the browser default is row. However, you may encounter situations where you needed to explicitly set this value (like responsive layouts).

Use .flex-row to set a horizontal direction (the browser default), or .flex-row-reverse to start the horizontal direction from the opposite side.

```
<h3>FLEX ROW & FLEX ITEMS</h3>
<div class="row-hl d-flex flex-row">
  <div class="item-hl p-1 display-4">1</div>
  <div class="item-hl p-1 display-4">2</div>
  <div class="item-hl p-1 display-4">3</div>
</div>
```

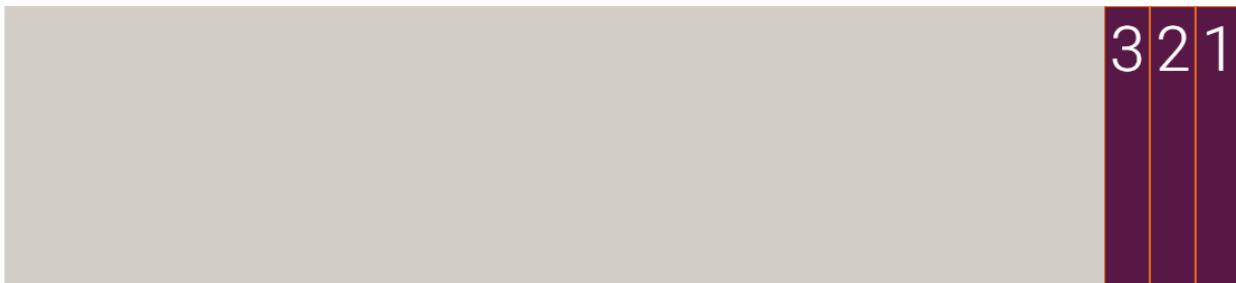
FLEX ROW & FLEX ITEMS



```
<h3>FLEX ROW REVERSE</h3>
<div class="row-hl d-flex flex-row-reverse">
  <div class="item-hl p-1 display-4">1</div>
  <div class="item-hl p-1 display-4">2</div>
  <div class="item-hl p-1 display-4">3</div>
</div>
```

# Bootstrap 4 with Material Design

FLEX ROW REVERSE



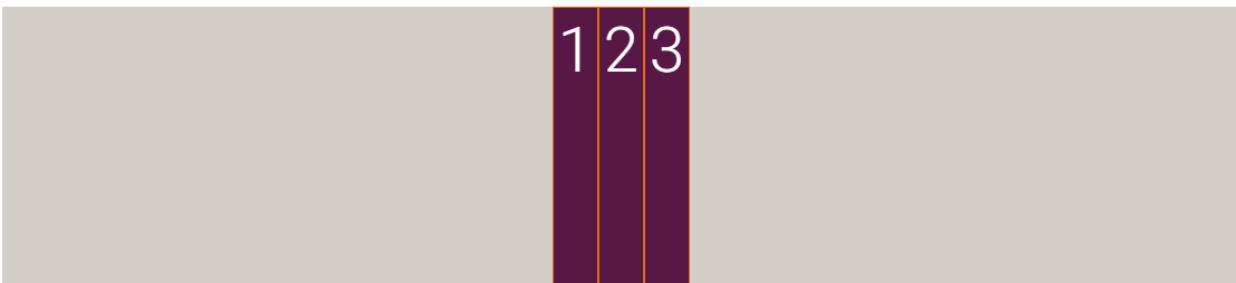
```
<h3>JUSTIFY CONTENT START</h3>
<div class="row-hl d-flex flex-row justify-content-start">
  <div class="item-hl p-1 display-4">1</div>
  <div class="item-hl p-1 display-4">2</div>
  <div class="item-hl p-1 display-4">3</div>
</div>
```

JUSTIFY CONTENT START



```
<h3>JUSTIFY CONTENT CENTER</h3>
<div class="row-hl d-flex flex-row justify-content-center">
  <div class="item-hl p-1 display-4">1</div>
  <div class="item-hl p-1 display-4">2</div>
  <div class="item-hl p-1 display-4">3</div>
</div>
```

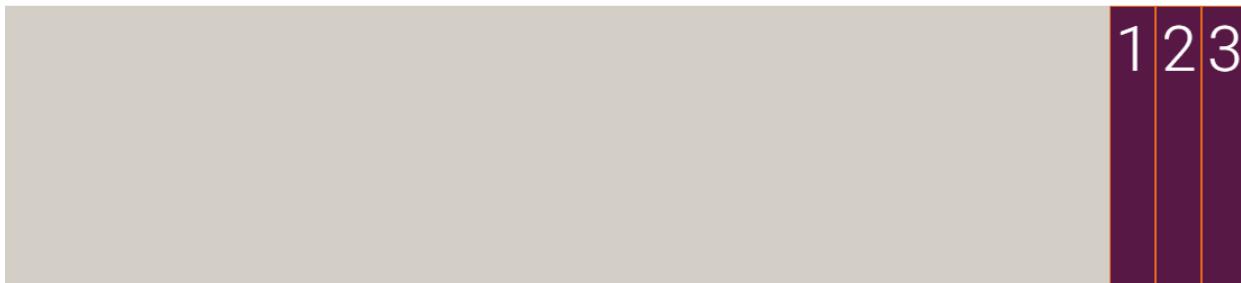
JUSTIFY CONTENT CENTER



```
<h3>JUSTIFY CONTENT END</h3>
<div class="row-hl d-flex flex-row justify-content-end">
  <div class="item-hl p-1 display-4">1</div>
  <div class="item-hl p-1 display-4">2</div>
  <div class="item-hl p-1 display-4">3</div>
</div>
```

# Bootstrap 4 with Material Design

JUSTIFY CONTENT END



```
<h3>JUSTIFY CONTENT AROUND</h3>
<div class="row-hl d-flex flex-row justify-content-around">
  <div class="item-hl p-1 display-4">1</div>
  <div class="item-hl p-1 display-4">2</div>
  <div class="item-hl p-1 display-4">3</div>
</div>
```

JUSTIFY CONTENT AROUND



```
<h3>JUSTIFY CONTENT BETWEEN</h3>
<div class="row-hl d-flex flex-row justify-content-between">
  <div class="item-hl p-1 display-4">1</div>
  <div class="item-hl p-1 display-4">2</div>
  <div class="item-hl p-1 display-4">3</div>
</div>
```

JUSTIFY CONTENT BETWEEN



```
<h3>FLEX CONTAINER / FLEX COLUMN</h3>
<div class="row-hl d-flex flex-column">
  <div class="item-hl p-1 display-4">1</div>
  <div class="item-hl p-1 display-4">2</div>
  <div class="item-hl p-1 display-4">3</div>
</div>
```

# Bootstrap 4 with Material Design

## FLEX CONTAINER / FLEX COLUMN

1

2

3

```
<h3>FLEX COLUMN REVERSE</h3>
<div class="row-hl d-flex flex-column-reverse">
  <div class="item-hl p-1 display-4">1</div>
  <div class="item-hl p-1 display-4">2</div>
  <div class="item-hl p-1 display-4">3</div>
</div>
```

## FLEX COLUMN REVERSE

3

2

1

```
<h3>VERTICAL ALIGN ITEMS START</h3>
<div class="row-hl d-flex flex-column align-items-start">
  <div class="item-hl p-1 display-4">1</div>
  <div class="item-hl p-1 display-4">2</div>
  <div class="item-hl p-1 display-4">3</div>
</div>
```

## VERTICAL ALIGN ITEMS START

1

2

3

```
<div class="row-hl d-flex flex-column align-items-center">
  <div class="item-hl p-1 display-4">1</div>
  <div class="item-hl p-1 display-4">2</div>
  <div class="item-hl p-1 display-4">3</div>
</div>
```

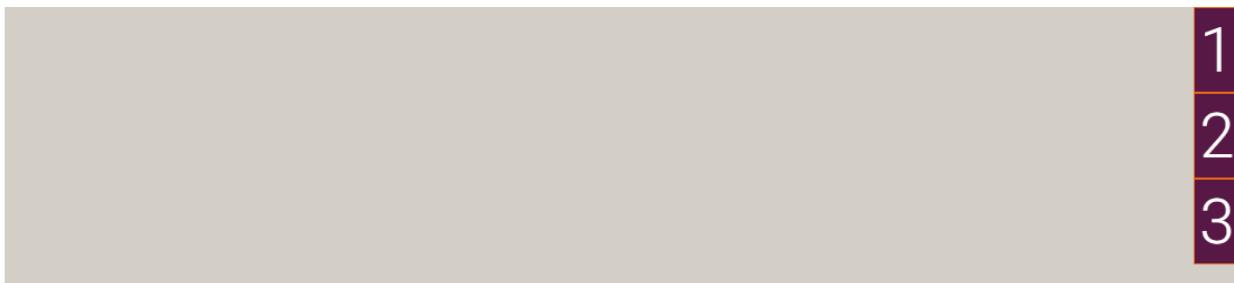
# Bootstrap 4 with Material Design

## VERTICAL ALIGN ITEMS CENTER



```
<h3>VERTICAL ALIGN ITEMS END</h3>
<div class="row-hl d-flex flex-column align-items-end">
  <div class="item-hl p-1 display-4">1</div>
  <div class="item-hl p-1 display-4">2</div>
  <div class="item-hl p-1 display-4">3</div>
</div>
```

## VERTICAL ALIGN ITEMS END



```
<h3>ALIGN SELF</h3>
<div class="row-hl d-flex flex-row">
  <div class="item-hl p-4 align-self-start">Flex-item</div>
  <div class="item-hl p-4 align-self-center">Flex-item</div>
  <div class="item-hl p-4 align-self-end">Flex-item</div>
  <div class="item-hl p-4 align-self-baseline">Flex-item</div>
  <div class="item-hl p-4 align-self-stretch">Flex-item</div>
</div>
```

## ALIGN SELF



# Bootstrap 4 with Material Design

## 20. Auto Margins

Flexbox can do some pretty awesome things when you mix flex alignments with auto margins. Shown below are three examples of controlling flex items via auto margins: default (no auto margin), pushing two items to the right (.mr-auto), and pushing two items to the left (.ml-auto).

Note: **Unfortunately, IE10 and IE11 do not properly support auto margins on flex items whose parent has a non-default justify-content value.**

```
<div class="d-flex row-h1 flex-row">
  <div class="p-2 item-h1">Flex item</div>
  <div class="p-2 item-h1 mr-auto">Flex item</div>
  <div class="p-2 item-h1">Flex item</div>
</div>
```



```
<!-- ML-AUTO -->
<div class="d-flex row-h1 flex-row">
  <div class="p-2 item-h1">Flex item</div>
  <div class="p-2 item-h1 ml-auto">Flex item</div>
  <div class="p-2 item-h1 ">Flex item</div>
</div>
```



### With Align Items

Vertically move one flex item to the top or bottom of a container by mixing align-items, flex-direction: column, and margin-top: auto or margin-bottom: auto.

## Bootstrap 4 with Material Design

```
<!-- MB-AUTO -->
<div class="d-flex row-hl flex-column">
  <div class="p-2 item-hl">Flex item</div>
  <div class="p-2 item-hl mb-auto">Flex item</div>
  <div class="p-2 item-hl">Flex item</div>
</div>
```



```
<!-- MT-AUTO -->
<div class="d-flex row-hl flex-column">
  <div class="p-2 item-hl">Flex item</div>
  <div class="p-2 item-hl mt-auto">Flex item</div>
  <div class="p-2 item-hl">Flex item</div>
</div>
```



### Wrapping

Change how flex items wrap in a flex container. Choose from no wrapping at all (the browser default) with `.flexnowrap`, wrapping with `.flex-wrap`, or reverse wrapping with `.flex-wrap-reverse`.

## Bootstrap 4 with Material Design

```
<!-- NO WRAP -->
<div class="d-flex row-hl flex-row flexnowrap">
    <div class="p-2 item-hl display-2">1</div>
    <div class="p-2 item-hl display-2">2</div>
    <div class="p-2 item-hl display-2">3</div>
    <div class="p-2 item-hl display-2">4</div>
    <div class="p-2 item-hl display-2">5</div>
    <div class="p-2 item-hl display-2">6</div>
    <div class="p-2 item-hl display-2">7</div>
    <div class="p-2 item-hl display-2">8</div>
</div>

1 2 3 4 5 6 7 8 9 1 2 3

<!-- WRAP -->
<div class="d-flex row-hl flex-row flex-wrap">
    <div class="p-2 item-hl display-2">1</div>
    <div class="p-2 item-hl display-2">2</div>
    <div class="p-2 item-hl display-2">3</div>
    <div class="p-2 item-hl display-2">4</div>
    <div class="p-2 item-hl display-2">5</div>
    <div class="p-2 item-hl display-2">6</div>
    <div class="p-2 item-hl display-2">7</div>
    <div class="p-2 item-hl display-2">8</div>
    <div class="p-2 item-hl display-2">9</div>
</div>
```

## Bootstrap 4 with Material Design

1	2	3	4	5	6	7	8	9	1
2	3	4	5	1	2	3			

### 21. Carousel



A slideshow component for cycling through elements—images or slides of text—like a carousel.

The carousel is a slideshow for cycling through a series of content, built with CSS 3D transforms and a bit of JavaScript. It works with a series of images, text, or custom markup. It also includes support for previous/next controls and indicators.

Be sure to set a unique id on the .carousel for optional controls, especially if you're using multiple carousels on a single page.

Here's a carousel with slides only. Note the presence of the .d-block and .img-fluid on carousel images to prevent browser default image alignment.

#### Simple Carousel

```
<h3>SIMPLE SLIDER</h3>
<div class="carousel slide" id="simpleSlider" data-ride="carousel">
  <div class="carousel-inner">
    <div class="carousel-item active">
      
    </div>
    <div class="carousel-item">
      
    </div>
    <div class="carousel-item">
      
    </div>
  </div>
</div>
```

# Bootstrap 4 with Material Design

## SIMPLE SLIDER



## Carousel with controls

```
<h3>SLIDER WITH CONTROLS</h3>
<div class="carousel slide" id="controlSlider" data-ride="carousel">
  <div class="carousel-inner">
    <div class="carousel-item active">
      
    </div>
    <div class="carousel-item">
      
    </div>
    <div class="carousel-item">
      
    </div>
  </div>
  <a href="#controlSlider" class="carousel-control-prev" data-slide="prev">
    <span class="carousel-control-prev-icon"></span>
  </a>
  <a href="#controlSlider" class="carousel-control-next" data-slide="next">
    <span class="carousel-control-next-icon"></span>
  </a>
</div>
```



# Bootstrap 4 with Material Design

## SLIDER WITH CONTROLS



## Carousel with Indicators



```
<h3>SLIDER WITH INDICATORS</h3>


<ol class="carousel-indicators">
        <li data-target="#indicatorSlider"
            data-slide-to="0" class="active"></li>

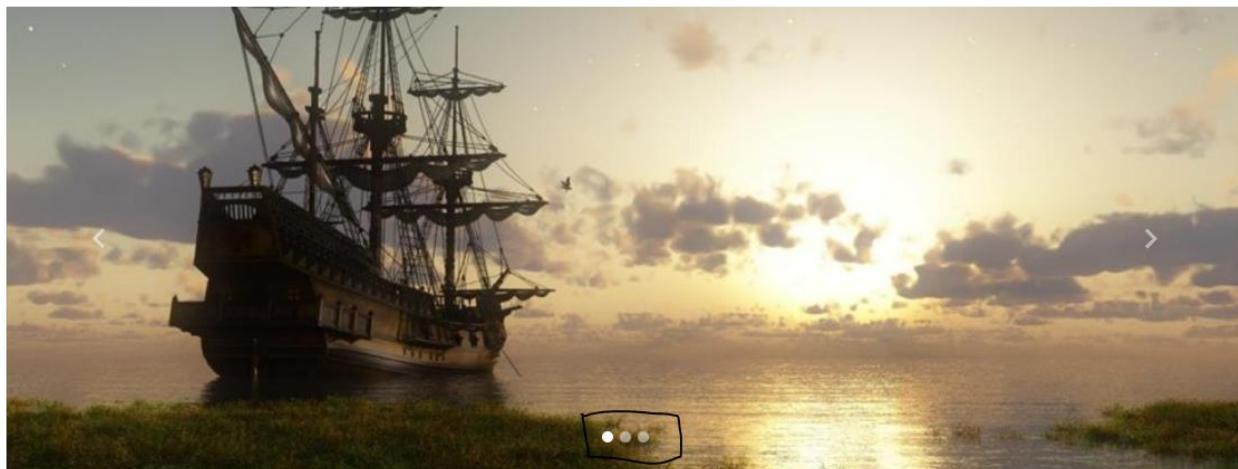
        <li data-target="#indicatorSlider"
            data-slide-to="1"></li>

        <li data-target="#indicatorSlider"
            data-slide-to="2"></li>
    </ol>
    <div class="carousel-inner">
        <div class="carousel-item active">
            
        </div>
        <div class="carousel-item">
            
        </div>
        <div class="carousel-item">
            
        </div>
    </div>
    <a href="#indicatorSlider" class="carousel-control-prev" data-slide="prev">
        <span class="carousel-control-prev-icon"></span>
    </a>
    <a href="#indicatorSlider" class="carousel-control-next" data-slide="next">
        <span class="carousel-control-next-icon"></span>
    </a>
</div>


```

# Bootstrap 4 with Material Design

## SLIDER WITH INDICATORS



## Carousel with Captions

```
<h3>SLIDER WITH CAPTIONS</h3>
<div class="carousel slide" id="captionSlider" data-ride="carousel">
  <ol class="carousel-indicators">
    <li data-target="#captionSlider"
        data-slide-to="0" class="active"></li>

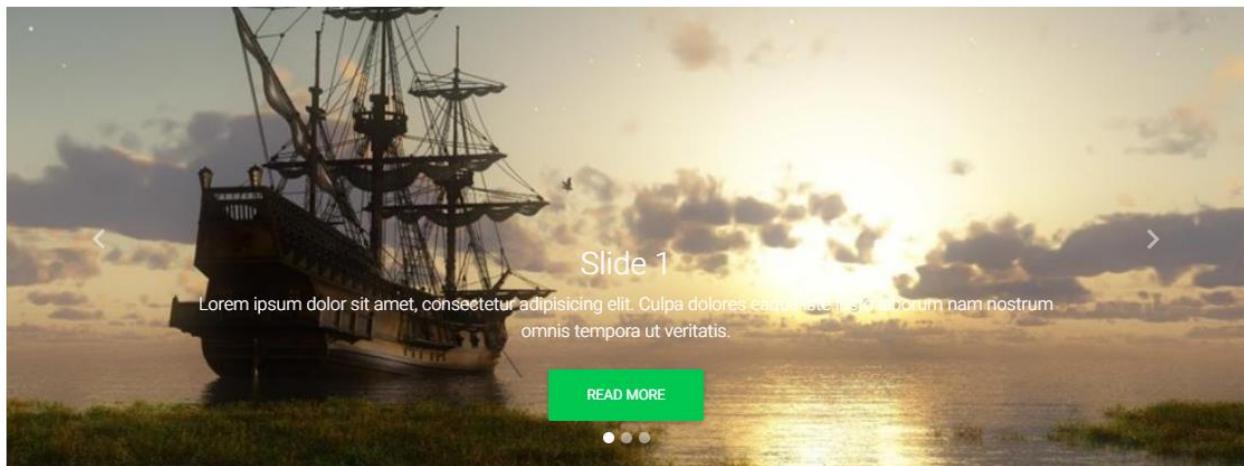
    <li data-target="#captionSlider"
        data-slide-to="1"></li>

    <li data-target="#captionSlider"
        data-slide-to="2"></li>
  </ol>
  <div class="carousel-inner">
    <div class="carousel-item active">
      
      <div class="carousel-caption">
        <h3>Slide 1</h3>
        <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit</p>
        <a class="btn btn-success">Read More</a>
      </div>
    </div>
    <div class="carousel-item">
      
      <div class="carousel-caption">
        <h3>Slide 2</h3>
        <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit</p>
        <a class="btn btn-warning">Read More</a>
      </div>
    </div>
  </div>
</div>
```

# Bootstrap 4 with Material Design

```
<div class="carousel-item">
  
  <div class="carousel-caption">
    <h3>Slide 3</h3>
    <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit</p>
    <a class="btn btn-danger">Read More</a>
  </div>
</div>
<a href="#captionSlider" class="carousel-control-prev" data-slide="prev">
  <span class="carousel-control-prev-icon"></span>
</a>
<a href="#captionSlider" class="carousel-control-next" data-slide="next">
  <span class="carousel-control-next-icon"></span>
</a>
</div>
```

SLIDER WITH CAPTIONS



UiB

# Bootstrap 4 with Material Design

## 22. Collapse

Toggle the visibility of content across your project with a few classes and our JavaScript plugins.

- .collapse hides content
- .collapsing is applied during transitions
- .collapse.show shows content

You can use a link with the href attribute, or a button with the data-target attribute. In both cases, the data-toggle="collapse" is required.

### Button with Collapse

```
<!-- BUTTON WITH COLLAPSE -->
Click Me</a>



<div class="card bg-success text-white">
    <div class="card-body">
      <h3 class="card-title">Heading</h3>
      <p class="card-text">Lorem ipsum dolor sit amet, consectetur adipisicing elit. Culpa distinctio dolores laudantium non quo, unde! Aperiam consequatur dolorem nemo nostrum voluptatum. Alias dolor explicabo iusto natus, officia quae repellendus reprehenderit.</p>
    </div>
  </div>
</div>


```

CLICK ME

CLICK ME

Heading

Alias dolor explicabo iusto natus, officia quae repellendus reprehenderit.

### Accordion

Using the card component, you can extend the default collapse behavior to create an accordion.

# Bootstrap 4 with Material Design

```
<div class="accordion mt-3">
  <div class="card">
    <div class="card-header bg-success">
      <a class="btn btn-success" data-toggle="collapse" href="#heading1">Heading 1</a>
    </div>
    <div class="collapse" id="heading1">
      <div class="card-body">
        <h3 class="card-title">Heading</h3>
        <p class="card-text">Lorem ipsum dolor sit amet, consectetur adipisicing elit. Aperiam dolorem eum excepturi expedita facere fuga molestiae necessitatibus nemo officia omnis optio preferendis quas quisquam ratione reprehenderit repudiandae, sapiente suscipit tempora?</p>
      </div>
    </div>
  </div>
  <div class="card">
    <div class="card-header bg-warning">
      <a class="btn btn-warning" data-toggle="collapse" href="#heading2">Heading 2</a>
    </div>
    <div class="collapse" id="heading2">
      <div class="card-body">
        <h3 class="card-title">Heading</h3>
        <p class="card-text">Lorem ipsum dolor sit amet, consectetur adipisicing elit. Aperiam dolorem eum excepturi expedita facere fuga molestiae necessitatibus nemo officia omnis optio preferendis quas quisquam ratione reprehenderit repudiandae, sapiente suscipit tempora?</p>
      </div>
    </div>
  </div>
  <div class="card">
    <div class="card-header bg-secondary">
      <a class="btn btn-secondary" data-toggle="collapse" href="#heading3">Heading 3</a>
    </div>
    <div class="collapse" id="heading3">
      <div class="card-body">
        <h3 class="card-title">Heading</h3>
        <p class="card-text">Lorem ipsum dolor sit amet, consectetur adipisicing elit. Aperiam dolorem eum excepturi expedita facere fuga molestiae necessitatibus nemo officia omnis optio preferendis quas quisquam ratione reprehenderit repudiandae, sapiente suscipit tempora?</p>
      </div>
    </div>
  </div>
</div>
```



# Bootstrap 4 with Material Design

HEADING 1

## Heading

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Aperiam dolorem eum excepturi expedita facere fuga molestiae necessitatibus nemo officia omnis optio perferendis quas quisquam ratione reprehenderit repudiandae, sapiente suscipit tempora?

HEADING 2

## Heading

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Aperiam dolorem eum excepturi expedita facere fuga molestiae necessitatibus nemo officia omnis optio perferendis quas quisquam ratione reprehenderit repudiandae, sapiente suscipit tempora?

HEADING 3

## 23. Tooltips

Bootstrap comes with tooltips with a third party plugin called 'popper.js' for positioning.

- Tooltips rely on the 3rd party library [Popper.js](#) for positioning. You must include [popper.min.js](#) before bootstrap.js or use bootstrap.bundle.min.js / bootstrap.bundle.js which contains Popper.js in order for tooltips to work!
- If you're building our JavaScript from source, it [requires util.js](#).
- Tooltips are opt-in for performance reasons, so **you must initialize them yourself**.
- Tooltips with zero-length titles are never displayed.

To Enable tooltip, we must use the following snippet,

```
$(function () {  
    $('[data-toggle="tooltip"]').tooltip()  
})
```

# Bootstrap 4 with Material Design

## Tooltips Examples

```
<!-- TOOLTIPS -->
<button type="button" class="btn btn-secondary" data-toggle="tooltip" data-placement="top"
title="Tooltip on top">
    Tooltip on top
</button>
<button type="button" class="btn btn-secondary" data-toggle="tooltip" data-placement="right"
title="Tooltip on right">
    Tooltip on right
</button>
<button type="button" class="btn btn-secondary" data-toggle="tooltip" data-placement="bottom"
title="Tooltip on bottom">
    Tooltip on bottom
</button>
<button type="button" class="btn btn-secondary" data-toggle="tooltip" data-placement="left"
title="Tooltip on left">
    Tooltip on left
</button>
<button type="button" class="btn btn-secondary" data-toggle="tooltip" data-html="true" title="
<em>Tooltip</em> <u>with</u> <b>HTML</b>">
    Tooltip with HTML
</button>
```



- Popovers rely on the 3rd party library [Popper.js](#) for positioning. You must include `popper.min.js` before bootstrap.js or use `bootstrap.bundle.min.js` / `bootstrap.bundle.js` which contains Popper.js in order for popovers to work!
- Popovers require the [tooltip plugin](#) as a dependency.
- If you're building our JavaScript from source, it [requires util.js](#).
- Popovers are [opt-in](#) for performance reasons, so **you must initialize them yourself**.

To Enable popovers,

One way to initialize all popovers on a page would be to select them by their `data-toggle` attribute:

```
$(function () {
    $('[data-toggle="popover"]').popover()
})
```

## Popovers Example

# Bootstrap 4 with Material Design

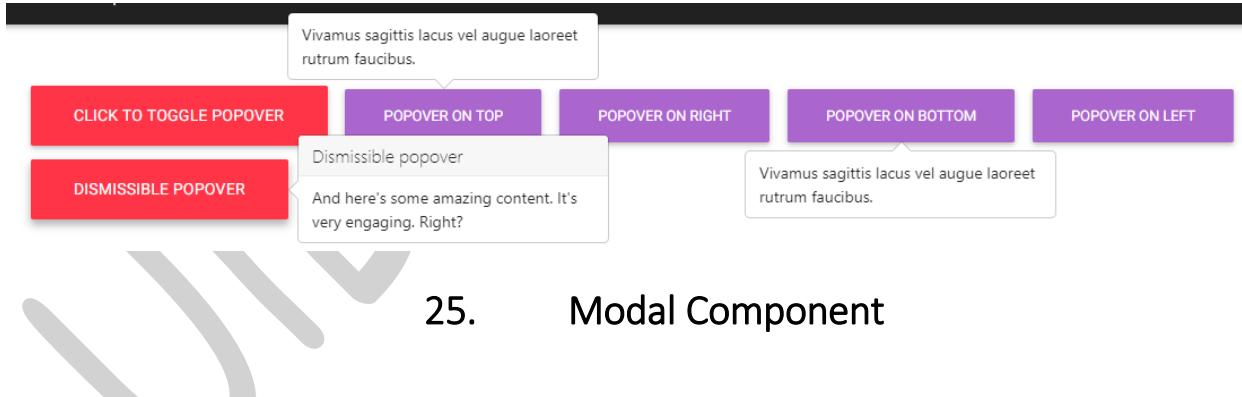
```
<!-- POPOVER -->
<button type="button" class="btn btn-lg btn-danger" data-toggle="popover" title="Popover title"
data-content="And here's some amazing content. It's very engaging. Right?">Click to toggle
popover</button>

<button type="button" class="btn btn-secondary" data-container="body" data-toggle="popover" data-
placement="top" data-content="Vivamus sagittis lacus vel augue laoreet rutrum faucibus.">
    Popover on top
</button>

<button type="button" class="btn btn-secondary" data-container="body" data-toggle="popover" data-
placement="right" data-content="Vivamus sagittis lacus vel augue laoreet rutrum faucibus.">
    Popover on right
</button>
<button type="button" class="btn btn-secondary" data-container="body" data-toggle="popover" data-
placement="right" data-content="Vivamus sagittis lacus vel augue laoreet rutrum faucibus.">
    Popover on right
</button>

<button type="button" class="btn btn-secondary" data-container="body" data-toggle="popover" data-
placement="bottom" data-content="Vivamus
gittis lacus vel augue laoreet rutrum faucibus.">
    Popover on bottom
</button>

<button type="button" class="btn btn-secondary" data-container="body" data-toggle="popover" data-
placement="left" data-content="Vivamus sagittis lacus vel augue laoreet rutrum faucibus.">
    Popover on left
</button>
<!-- DISMISSIBLE POPOVER -->
<a tabindex="0" class="btn btn-lg btn-danger popover-dismiss" role="button" data-toggle="popover"
data-trigger="focus" title="Dismissible popover" data-content="And here's some amazing content. It's
very engaging. Right?">Dismissible popover</a>
</div>
```



## 25. Modal Component

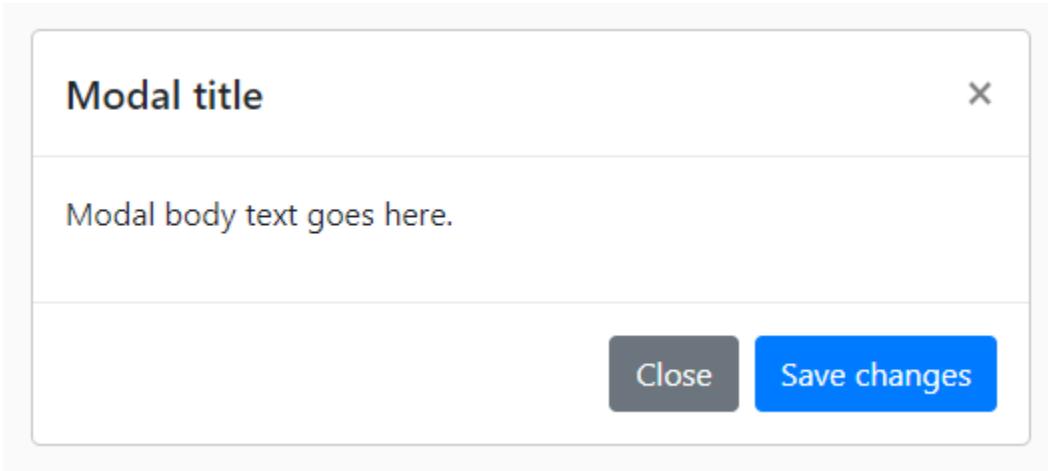
This is one of the most used bootstraps JavaScript component used for login and other purposes.

- Modals are built with HTML, CSS, and JavaScript. They're positioned over everything else in the document and remove scroll from the <body> so that modal content scrolls instead.
- Clicking on the modal "backdrop" will automatically close the modal.
- Bootstrap only supports one modal window at a time. Nested modals aren't supported as we believe them to be poor user experiences.

# Bootstrap 4 with Material Design

- Modals use position: fixed, which can sometimes be a bit particular about its rendering. Whenever possible, place your modal HTML in a top-level position to avoid potential interference from other elements. You'll likely run into issues when nesting a .modal within another fixed element.

Modal Layout:



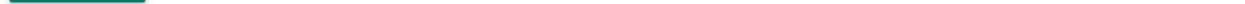
```
<div class="modal" tabindex="-1" role="dialog">
  <div class="modal-dialog" role="document">
    <div class="modal-content">
      <div class="modal-header">
        <h5 class="modal-title">Modal title</h5>
        <button type="button" class="close" data-dismiss="modal" aria-label="Close">
          <span aria-hidden="true">&times;</span>
        </button>
      </div>
      <div class="modal-body">
        <p>Modal body text goes here.</p>
      </div>
      <div class="modal-footer">
        <button type="button" class="btn btn-primary">Save changes</button>
        <button type="button" class="btn btn-secondary" data-dismiss="modal">Close</button>
      </div>
    </div>
  </div>
</div>
```

# Bootstrap 4 with Material Design

## Login Modal

```
<!-- LOGIN MODAL TRIGGER -->
<a class="btn btn-teal"
    data-toggle="modal" href="#loginModal">Login</a>

<div id="loginModal" class="modal fade show">
    <div class="modal-dialog">
        <div class="modal-content">
            <form>
                <div class="modal-header bg-teal text-white">
                    <h3>Login Here</h3>
                    <span class="close" data-dismiss="modal">
                        <i class="fa fa-window-close"></i>
                    </span>
                </div>
                <div class="modal-body">
                    <div class="form-group">
                        <input type="text" class="form-control"
                            placeholder="Enter Your Name">
                    </div>
                    <div class="form-group">
                        <input type="email" class="form-control"
                            placeholder="Enter Email">
                    </div>
                    <div class="form-group">
                        <input type="password" class="form-control"
                            placeholder="Enter Password">
                    </div>
                </div>
                <div class="modal-footer">
                    <a class="btn btn-secondary" data-dismiss="modal">Close</a>
                    <a class="btn btn-success">Login</a>
                </div>
            </form>
        </div>
    </div>
</div>
```



LOGIN

## Bootstrap 4 with Material Design

### Login Here

Enter Your Name

---

Enter Email

---

Enter Password

---

[CLOSE](#) [LOGIN](#)

Online Resume Website

The screenshot shows a modern, responsive resume website. On the left, there is a large profile picture of a man with dark hair, a beard, and glasses. To the right of the photo, the name "Naveen Saggam" is displayed in a large, white, sans-serif font. Below the name is a black horizontal bar containing the text "Experienced Full Stack Web Developer". Underneath this bar is a navigation menu with four colored boxes: teal (Home), orange (Resume), green (Work), and red (Contact). Each box contains an icon and the corresponding section name. At the bottom left, there is a purple button with the text "DOWNLOAD RESUME" and a small cloud icon.

# Bootstrap 4 with Material Design

## UI Dashboard Website

The screenshot shows a dashboard interface for 'UiBrains'. The top navigation bar includes links for 'Dashboard', 'Posts', 'Categories', and 'Users', along with user information for 'Naveen' and a 'LogOut' button. Below the navigation is a teal header bar with the title 'Dashboard'. Three primary action buttons are displayed: 'ADD POST' (blue), 'ADD CATEGORY' (green), and 'ADD USER' (orange). The main content area features a purple header 'Latest Posts' followed by a table listing four posts, all titled 'Post One' and categorized under 'Web Development' on 18th, Feb, 2018. To the right, there are two summary cards: one showing '07 Posts' with a list icon and another showing '04 Categories' with a tree icon.

#	Title	Category	Date Posted	Action
1	Post One	Web Development	18th, Feb, 2018	<a href="#">DETAILS</a>
2	Post One	Web Development	18th, Feb, 2018	<a href="#">DETAILS</a>
3	Post One	Web Development	18th, Feb, 2018	<a href="#">DETAILS</a>
4	Post One	Web Development	18th, Feb, 2018	<a href="#">DETAILS</a>

## Corporate Website

The screenshot displays a corporate website for 'UiBrains Technologies'. The header features the company logo and navigation links for 'Home', 'About', 'Services', and 'Contact'. The main content area is dominated by a large, scenic image of a three-masted sailing ship at sunset on the ocean. Navigation controls for the image (arrows and a progress bar) are visible at the bottom of the image.

# Bootstrap 4 with Material Design



## Best Faculty Members

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Distinctio dolore dolores explicabo omnis provident quae, quod quo sapiente sit temporibus.



## Best Coding Skills

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Consequuntur facilis fugit, iusto nam nemo odio repudiandae sint voluptatibus.  
Alias, distinctio?



## Best Course Material

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Animi beatae corporis dolores impedit laborum minus natus officiis quae recusandae tempore?

## We Provide Best Training for Frontend and Java

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Consequuntur corporis dolorem, eum, facere maiores necessitatibus nesciunt nisi quaerat quis quo recusandae, rem rerum unde. A iste laudantium numquam quasi tenetur!

### Please find the courses we offer as below

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Ab, molestiae.



UiBRI