

Bootstrap 4 - Quick Guide

Advertisements



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Bootstrap 4 - Overview

What is Bootstrap 4?

Bootstrap 4 is a powerful and popular mobile first front-end framework for building responsive mobile first sites on the web. It is a latest version of Bootstrap , which uses HTML, CSS and JavaScript.

History

The last stable release of Bootstrap v3.3.7 was in July 2016 and in August 2017, Bootstrap 4.0.0 beta version released.

Why to use Bootstrap?

It contains mobile first styles throughout the entire library, instead of using them in the separate files.

With just the knowledge of HTML and CSS anyone can get started with Bootstrap. Also the Bootstrap official site has a good documentation.

It is supported by all popular browsers and its responsive CSS adjusts to Desktops, Tablets and Mobiles.

Provides a clean and uniform solution for building an interface for developers.

It contains beautiful and functional built-in components which are easy to customize.

It is an open source and provides web based customization.

Bootstrap 3 v/s Bootstrap 4

Bootstrap 4 is a latest version of Bootstrap 3, who's source CSS files are converted into SCSS. It uses the flex modal for grid system and supports all the latest browsers. However, it supports Internet Explorer 9+ and iOS 7+ and dropped support for IE 8 and lesser versions, iOS 6 and lesser versions. For more information on difference between Bootstrap 3 and Bootstrap 4, checkout this chapter .

Bootstrap 4 - Environment Setup

You can start using Bootstrap 4 in your website by including it from *CDN*(Content Delivery Network) or downloading from *getbootstrap.com*.

Using CDN

The Bootstrap 4 can be used in the website by including it from Content Delivery Network .

Use the below compiled Bootstrap's CDN of CSS and JS in your project.

```
<!-- Compiled and Minified Bootstrap CSS -->
<link rel = "stylesheet"
      href = "https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
      integrity = "sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
      crossorigin = "anonymous">

<!-- jQuery Library -->
<script src = "https://code.jquery.com/jquery-3.2.1.slim.min.js"
        integrity = "sha384-KJ3o2DKtIkvYIK3UEJm7KCKRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
        crossorigin = "anonymous">
</script>

<!-- Popper -->
<script src = "https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"
        integrity = "sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
        crossorigin = "anonymous">
</script>

<!-- Compiled and Minified Bootstrap JavaScript -->
<script src = "https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"
        integrity = "sha384-JZR6Spejh4U02d8j0t6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmY1"
        crossorigin = "anonymous">
</script>
```

Include the CDN versions of *jQuery* and *Popper.js* (Bootstrap 4 uses jQuery and Popper.js to make use of JavaScript components such as modals, tooltips, popovers etc) before the *minified Bootstrap JavaScript*, if you are using the compiled version of JavaScript.

Following are some components, which require jQuery –

Used for closable alerts

Toggle the states by using buttons and checkboxes/radio buttons and collapse for toggling content

Carousel for slides, controls, and indicators

Dropdowns (uses the *Popper.js* for perfect positioning)

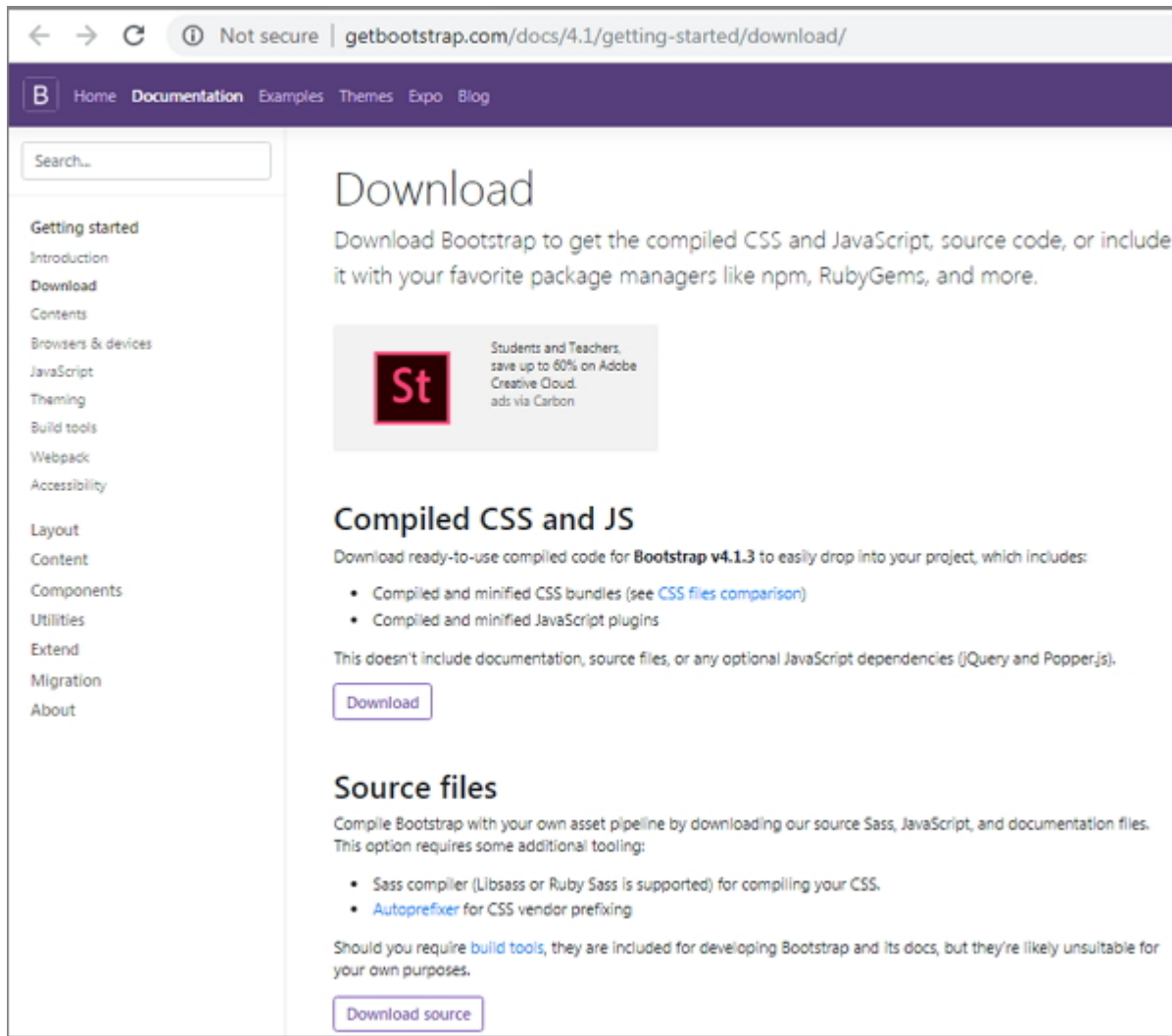
Open and close the Modals

For collapsing the Navbar

Tooltips and popovers (uses the *Popper.js* for perfect positioning)

Downloading Bootstrap 4

You can download the Bootstrap 4 from <https://getbootstrap.com/docs/4.1/getting-started/download/> . When you click on this link, you will get to see a screen as shown below –



Here you can see two buttons –

Download – Clicking this, you can download the precompiled and minified versions of Bootstrap's CSS and JavaScript. No documentation or original source

code files are included.

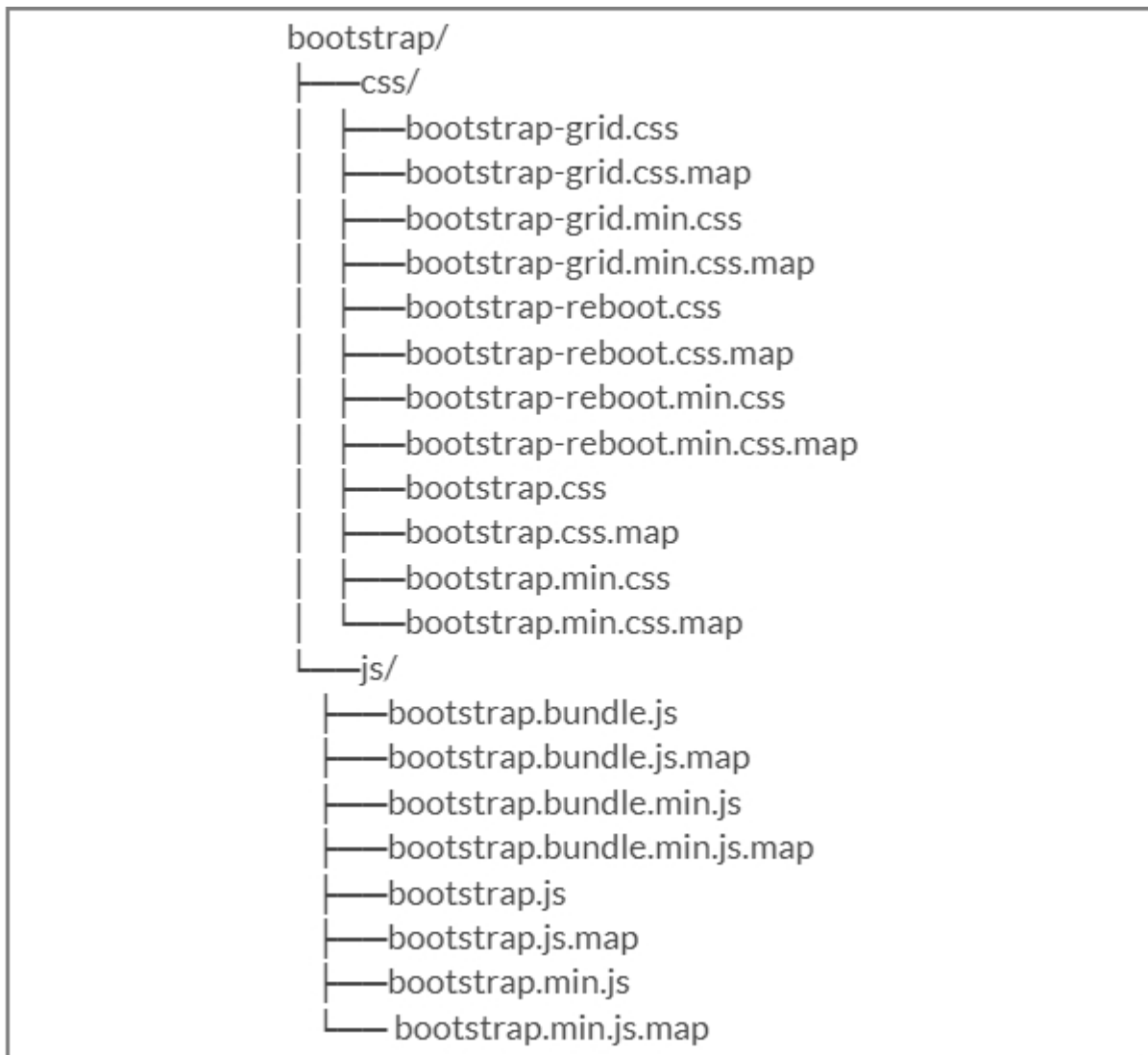
Download Source – Clicking this, you can get the latest Bootstrap SCSS, JavaScript source code and documentation files.

For better understanding and ease of use, we shall use precompiled version of Bootstrap throughout the tutorial. As the files are compiled and minified, you don't have to bother every time including separate files for individual functionality.

File Structure

Precompiled Bootstrap 4

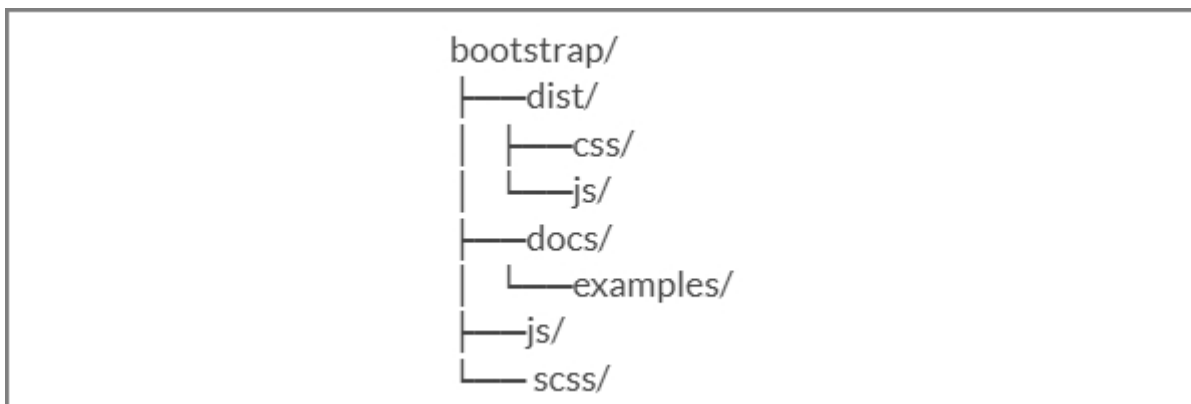
Once the compiled version Bootstrap 4 is downloaded, extract the ZIP file, and you will see the following file/directory structure –



As you can see, there are compiled CSS and JS (bootstrap.*), as well as compiled and minified CSS and JS (bootstrap.min.*).

Bootstrap 4 Source Code

If you have downloaded the Bootstrap 4 source code, then the file structure would be as follows –



The files under *js/* and *scss/* are the source code for Bootstrap CSS and JavaScript.

The *dist/* folder include everything listed in the precompiled download section above.

The *docs/examples/*, includes source code for Bootstrap documentation and examples of Bootstrap usage.

Creating First Web Page with Bootstrap 4

The below example specifies simple web page of Bootstrap 4 –

Example

[Live Demo](#)

```
<html lang = "en">
  <head>
    <!-- Meta tags -->
    <meta charset = "utf-8">
    <meta name = "viewport" content = "width=device-width, initial-scale = 1, shrink-to-fit = n

    <!-- Bootstrap CSS -->
    <link rel = "stylesheet"
    href = "https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css"
      integrity = " sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPM0"
      crossorigin = "anonymous">

    <title>Bootstrap 4 Example</title>
  </head>

  <body>
    <h2>Hello, world!!! Welcome to Tutorialspoint...</h2>

    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src = "https://code.jquery.com/jquery-3.3.1.slim.min.js"
      integrity = "sha384-q8i/X+965Dz00rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
      crossorigin = "anonymous">
    </script>

    <script src = "https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js"
      integrity = "sha384-ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/18WvCWPiPm49"
```

```
    crossorigin = "anonymous">
</script>

<script src = "https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js"
    integrity = "sha384-ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy"
    crossorigin = "anonymous">
</script>

</body>
</html>
```

It will produce the following result –

Output

Hello, world!!! Welcome to Tutorialspoint...

Bootstrap 4 - Layout

Bootstrap 4 uses container classes to wrap the page's contents. It contains two container classes –

.container – It represents a fixed width container.

.container-fluid – It represents a full width container.

Container

The *.container* class is used to wrap the page content with fixed width and content can be placed in the center easily by using the *.container* class as shown below.

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

Example

The below example specifies a simple web page with fixed width container –

```
<html lang = "en">
  <head>
    <!-- Meta tags -->
    <meta charset = "utf-8">
    <meta name = "viewport" content = "width = device-width, initial-scale = 1, shrink-to-fit =

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

[Live Demo](#)

```
    crossorigin = "anonymous">
<title>Bootstrap 4 Example</title>
<style>
  .container {
    background: #a52c644a;
    text-align: center;
    padding-top: 100px;
    padding-bottom: 100px;
  }
</style>
</head>

<body>
  <div class = "container">
    <h2>Fixed Width Container</h2>
    This is a simple web page with fixed width container by using
    <code>.container</code> class.
  </div>

  <!-- jQuery first, then Popper.js, then Bootstrap JS -->
  <script src = "https://code.jquery.com/jquery-3.3.1.slim.min.js"
    integrity = "sha384-q8i/X+965Dz00rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
    crossorigin = "anonymous">
  </script>

  <script src = "https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js"
    integrity = "sha384-ZMP7rVo3mIyKv+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPiPm49"
    crossorigin = "anonymous">
  </script>

  <script src = "https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js"
    integrity = "sha384-ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy"
    crossorigin = "anonymous">
  </script>

</body>
</html>
```

It will produce the following result –

Output

Fixed Width Container

This is a simple web page with fixed width container by using `.container`

Fluid Container

You can create a full width container by using the `.container-fluid` class as shown below.

```
<div class = "container-fluid">
  ...
</div>
```

The below example specifies a simple web page with full width container –

Example

[Live Demo](#)

```
<html lang = "en">
  <head>
    <!-- Meta tags -->
    <meta charset = "utf-8">
    <meta name = "viewport" content = "width = device-width, initial-scale = 1, shrink-to-fit =

    <!-- Bootstrap CSS -->
    <link rel = "stylesheet"
      href = "https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css"
      integrity = "sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO"
      crossorigin = "anonymous">
    <title>Bootstrap 4 Example</title>
    <style>
      .container-fluid {
        background: #a52c644a;
        text-align: center;
        padding-top: 100px;
        padding-bottom: 100px;
      }
    </style>
  </head>

  <body>
    <div class = "container-fluid">
      <h2>Full Width Container</h2>
      This is a simple web page with full width container by using
```



```
        <code>.container-fluid</code> class.
    </div>

    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src = "https://code.jquery.com/jquery-3.3.1.slim.min.js"
        integrity = "sha384-q8i/X+965Dz00rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
        crossorigin = "anonymous">
    </script>

    <script src = "https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js"
        integrity = " sha384-ZMP7rVo3mIyKv+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPiPm49"
        crossorigin = "anonymous">
    </script>

    <script src = "https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js"
        integrity = "sha384-ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy"
        crossorigin = "anonymous">
    </script>

</body>
</html>
```

It will produce the following result –

Output

Full Width Container

This is a simple web page with full width container by using `.container`

Bootstrap 4 - Grid System

Description

Bootstrap 4 grid system built with flexbox which is fully responsive and scales up to 12 columns (according to the size of device) by creating layout with rows and columns across the page. It provides responsive, mobile first fluid grid system which scales the columns as the device or viewport size increases.

Working of Grid System

Rows must be placed within a `.container` class for proper alignment and padding.

For responsive width use `.container` class and for fixed width across all viewport, use the `.container-fluid` class.

Use rows to create horizontal groups of columns.

Content should be placed within the columns, and only columns may be the immediate children of rows.

Columns contain padding for controlling the space between them.

If you place more than 12 columns in a row, then the columns will be placed in a new line.

Columns create gaps between column content via padding. Therefore, you can remove the margin from rows and padding from columns with `.no-gutters` class on the row.

You can make grid system responsive by using five grid breakpoints such as extra small, small, medium, large, and extra large.

Predefined grid classes like `.col-4` are available for quickly making grid layouts. LESS mixins can also be used for more semantic layouts.

Grid Options

The following table summarizes aspects of how Bootstrap 4 grid system works across multiple devices –

	Extra small devices (<576px)	Small devices (≥576px)	Medium devices (≥768px)	Large devices (≥992px)	Extra Large devices (≥1200px)
Grid behavior	Horizontal at all times	Collapsed to start, horizontal above breakpoints	Collapsed to start, horizontal above breakpoints	Collapsed to start, horizontal above breakpoints	Collapsed to start, horizontal above breakpoints
Max container width	None (auto)	540px	720px	960px	1140px
Class classes	.col-	.col-sm-	.col-md-	.col-lg-	.col-xl-

# of columns	12	12	12	12	12
Gutter width	30px (15px on each side of a column)	30px (15px on each side of a column)	30px (15px on each side of a column)	30px (15px on each side of a column)	30px (15px on each side of a column)
Nestable	Yes	Yes	Yes	Yes	Yes
Column ordering	Yes	Yes	Yes	Yes	Yes

Basic Grid Structure

Following is basic structure of Bootstrap 4 grid –

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

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

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

Example of Grid System

Following is an example of Bootstrap 4 grid system –

Example

[Live Demo](#)

```
<html lang = "en">
  <head>
    <!-- Meta tags -->
    <meta charset = "utf-8">
    <meta name = "viewport" content = "width = device-width, initial-scale = 1, shrink-to-fit =

    <!-- Bootstrap CSS -->
    <link rel = "stylesheet"
      href = "https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css"
      integrity = "sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO"
      crossorigin = "anonymous">
    <title>Bootstrap 4 Example</title>
```

```
</style>
.grid_system div[class^="col"] {
  border: 1px solid white;
  background: #e4dcdc;
  text-align: center;
  padding-top: 5px;
  padding-bottom: 5px
}
</style>
</head>

<body>
  <div class = "grid_system">
    <div class = "row">
      <div class = "col-sm-1">.col-sm-1</div>
      <div class = "col-sm-1">.col-sm-1</div>
      <div class = "col-sm-1">.col-sm-1</div>
      <div class = "col-sm-1">.col-sm-1</div>
      <div class = "col-sm-1">.col-sm-1</div>
      <div class = "col-sm-1">.col-sm-1</div>
      <div class = "col-sm-1">.col-sm-1</div>
      <div class = "col-sm-1">.col-sm-1</div>
      <div class = "col-sm-1">.col-sm-1</div>
      <div class = "col-sm-1">.col-sm-1</div>
      <div class = "col-sm-1">.col-sm-1</div>
      <div class = "col-sm-1">.col-sm-1</div>
    </div>

    <div class = "row">
      <div class = "col-sm-3">.col-sm-3</div>
      <div class = "col-sm-3">.col-sm-3</div>
      <div class = "col-sm-3">.col-sm-3</div>
      <div class = "col-sm-3">.col-sm-3</div>
    </div>

    <div class = "row">
      <div class = "col-sm-4">.col-sm-4</div>
      <div class = "col-sm-4">.col-sm-4</div>
      <div class = "col-sm-4">.col-sm-4</div>
    </div>

    <div class = "row">
      <div class = "col-sm-3">.col-sm-3</div>
      <div class = "col-sm-3">.col-sm-3</div>
      <div class = "col-sm-6">.col-sm-6</div>
    </div>

    <div class = "row">
      <div class = "col-sm-5">.col-sm-5</div>
      <div class = "col-sm-7">.col-sm-7</div>
    </div>

    <div class = "row">
      <div class = "col-sm-6">.col-sm-6</div>
      <div class = "col-sm-6">.col-sm-6</div>
    </div>

    <div class = "row">
      <div class = "col-sm-12">.col-sm-12</div>
    </div>
  </div>
```

```

<!-- jQuery first, then Popper.js, then Bootstrap JS -->
<script src = "https://code.jquery.com/jquery-3.3.1.slim.min.js"
  integrity = "sha384-q8i/X+965Dz00rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
  crossorigin = "anonymous">
</script>

<script src = "https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js"
  integrity = "sha384-ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPiPm49"
  crossorigin = "anonymous">
</script>

<script src = "https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js"
  integrity = "sha384-ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy"
  crossorigin = "anonymous">
</script>

</body>
</html>

```

It will produce the following result –

Output

```

.col-      .col-      .col-      .col-      .col-      .col-      .col-      .col-      .
sm-1      sm-1      sm-1      sm-1      sm-1      sm-1      sm-1      sm-1      s
      .col-sm-3      .col-sm-3      .col-sm-3
      .col-sm-4      .col-sm-4
      .col-sm-3      .col-sm-3
      .col-sm-5      .co
      .col-sm-6
      .col-sm-12

```

Creating Two Column Layouts

The following example describes creating two column layouts for small, medium and large devices. On small devices such as mobile phones, columns will automatically become horizontal as default.

Example

[Live Demo](#)

```
<html lang = "en">
  <head>
    <!-- Meta tags -->
    <meta charset = "utf-8">
    <meta name = "viewport" content = "width = device-width, initial-scale = 1, shrink-to-fit =

    <!-- Bootstrap CSS -->
    <link rel = "stylesheet" href = "https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/boo
      integrity = "sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPM0"
      crossorigin = "anonymous">
    <title>Bootstrap 4 Example</title>
  </head>

  <body>
    <div class = "grid_system">
      <div class = "row">
        <div class = "col-sm-6">.col-sm-6</div>
        <div class = "col-sm-6">.col-sm-6</div>
      </div>

      <div class = "row">
        <div class = "col-sm-7">.col-sm-7</div>
        <div class = "col-sm-5">.col-sm-5</div>
      </div>
    </div>
  </body>
</html>
```

```

<div class = "row">
  <div class = "col-sm-4">.col-sm-4</div>
  <div class = "col-sm-8">.col-sm-8</div>
</div>

<div class = "row">
  <div class = "col-sm-9">.col-sm-9</div>
  <div class = "col-sm-3">.col-sm-3</div>
</div>
</div>

<!-- jQuery first, then Popper.js, then Bootstrap JS -->
<script src = "https://code.jquery.com/jquery-3.3.1.slim.min.js"
  integrity = "sha384-q8i/X+965Dz00rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
  crossorigin = "anonymous">
</script>

<script src = "https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js"
  integrity = "sha384-ZMP7rVo3mIyKv+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPiPm49"
  crossorigin = "anonymous">
</script>

<script src = "https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js"
  integrity = "sha384-ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy"
  crossorigin = "anonymous">
</script>

</body>
</html>

```

It will produce the following result –

Output

```

                .col-sm-6
                .col-sm-7
.col-sm-4                                .col-sm-8
                .col-sm-9

```

Creating Three Column Layouts

The following example describes creating three column layouts for medium and large devices. If the screen resolution is more than or equal to 992 pixels, then it will display in landscape mode in tablets and as usual, it will display in portrait mode.

Example

[Live Demo](#)

```
<html lang = "en">
  <head>
    <!-- Meta tags -->
    <meta charset = "utf-8">
    <meta name = "viewport" content = "width = device-width, initial-scale = 1, shrink-to-fit =

    <!-- Bootstrap CSS -->
    <link rel = " stylesheet" href = " https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/b
      integrity = "sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPM0"
      crossorigin = "anonymous">
    <title>Bootstrap 4 Example</title>
  </head>

  <body>
    <div class = "grid_system">
      <div class = "row">
        <div class = "col-sm-4">.col-sm-4</div>
        <div class = "col-sm-4">.col-sm-4</div>
        <div class = "col-sm-4">.col-sm-4</div>
      </div>

      <div class = "row">
        <div class = "col-sm-3">.col-sm-3</div>
        <div class = "col-sm-4">.col-sm-4</div>
        <div class = "col-sm-5">.col-sm-5</div>
      </div>

      <div class = "row">
        <div class = "col-sm-2">.col-sm-2</div>
        <div class = "col-sm-8">.col-sm-8</div>
        <div class = "col-sm-2">.col-sm-2</div>
      </div>

      <div class = "row">
        <div class = "col-sm-2">.col-sm-2</div>
        <div class = "col-sm-3">.col-sm-3</div>
        <div class = "col-sm-7">.col-sm-7</div>
      </div>
    </div>

    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src = "https://code.jquery.com/jquery-3.3.1.slim.min.js"
      integrity = "sha384-q8i/X+965Dz00rT7abK41JStQIAqVgRvzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
      crossorigin = "anonymous">
    </script>

    <script src = "https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js"
      integrity = "sha384-ZMP7rVo3mIyKv+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/18WvCWPiPm49"
      crossorigin = "anonymous">
    </script>

    <script src = "https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js"
      integrity = "sha384-ChfqquxZUCnJ3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ60W/JmZQ5stwEULTy"
```



```
        crossorigin = "anonymous">
    </script>

</body>
</html>
```

It will produce the following result –

Output

```
        .col-sm-4                .col-sm-4
    .col-sm-3                .col-sm-4
.col-sm-2                .col-sm-8
.col-sm-2                .col-sm-3                .co
```

Bootstrap 4 - Content

Description

Bootstrap 4 uses collection of content methods for displaying the text, blocks of code, responsive images, data in a tabular format etc on the web page.

The following table lists down the content methods which you can use to manipulate the Bootstrap 4 –

S.No.	Methods & Description
1	Typography The typography feature creates headings, paragraphs, lists and other inline elements.

2	<p>Code</p> <p>It is used to display inline and multiline blocks of code in the document.</p>
3	<p>Images</p> <p>Bootstrap 4 provides support for images by using tag.</p>
4	<p>Tables</p> <p>Tables are used for displaying the data in a tabular format.</p>
5	<p>Figures</p> <p>The figure element specifies the content along with related images with an optional caption.</p>

Bootstrap 4 - Components

Description

Bootstrap 4 uses collection of content methods for displaying the text, blocks of code, responsive images, data in a tabular format etc on the web page.

The following table lists down the content methods which you can use to manipulate the Bootstrap 4 –

S.No.	Methods & Description
1	<p>Alerts</p> <p>The alert component specifies the predefined message for user actions.</p>
2	<p>Badges</p> <p>Badges are used to highlight the additional information to the content.</p>
3	<p>Breadcrumb</p> <p>It is used to show hierarchy-based information for a site.</p>
4	<p>Buttons</p> <p>Bootstrap provides clickable button to put content such as text and images.</p>

5	Button group Button groups allow multiple buttons to be stacked together on a single line.
6	Cards Card is a content container which displays a bordered box with some padding around it.
7	Carousel Carousel is a flexible, responsive way to add a slider to your site.
8	Collapse It is used to show or hide the content.
9	Dropdowns Dropdown menus can be used for displaying links in a list format.
10	Forms The form element is used to collect input from user.
11	Input group Using input groups you can easily prepend and append text or buttons to the text-based inputs.
12	Jumbotron It increases the size of headings and adds a lot of margin for landing page content.
13	Modal Modal is a child window that is layered over its parent window.
14	Navs Bootstrap provides navigation items for your site in a horizontal menu.
15	Navbar Navbar provides navigation headers for your application or site.

16	<p>Pagination</p> <p>Pagination is used to divide the related content across multiple pages.</p>
17	<p>Popovers</p> <p>Popover is similar to tooltip, offering an extended view complete with a heading.</p>
18	<p>Progress</p> <p>Progress bar shows progress of a process with stacked bars, animated backgrounds, and text labels.</p>
19	<p>Scrollspy</p> <p>Scrollspy is used to indicate currently active link in the menu based on scroll position.</p>
20	<p>Tooltips</p> <p>Tooltips are useful when you need to describe a link.</p>

Bootstrap 4 - Utilities

Description

Bootstrap 4 uses collection of utilities for displaying borders, text color, embedding video etc on the web page.

The following table lists down the utilities types which you can use to manipulate the Bootstrap 4 –

S.No.	Methods & Description
1	<p>Borders</p> <p>Border utility provides style, color and radius of an element's border.</p>
2	<p>Clearfix and Close Icon</p> <p>Clearfix is used to clear the floated content and close icon for dismissing the content.</p>
3	<p>Colors</p>

	Use the contextual classes to change the color of text, link and background color of an element.
4	Embed It is used to embed the video in a page by using <iframe> element.
5	Float It is used to float an element to left or right side.
6	Shadows and Spacing Shadow utility adds shadow to the elements and spacing utility provides margin or padding values to an element.
7	Sizing You can make the size of an element wide or tall by using width and height utilities.
8	Text Bootstrap provides text utilities to control text alignment, transform, weight and more.
9	Flex Flex utility can be used to manage the layout, alignment, grid columns, navigation and other components of the page.

Differences Between Bootstrap 3 and 4

Description

Bootstrap is a powerful and popular mobile first front-end framework for building responsive mobile first sites on the web by using HTML, CSS and JS framework.

The following table shows differences in Bootstrap 3 and Bootstrap 4 –

S.No.	Component	Bootstrap 3	Bootstrap 4
1	CSS source files	LESS	SCSS

2	Grid System	4 tier grid system (xs, sm, md, lg)	5 tier grid system (xs, sm, md, lg, xl)
3	CSS Unit	px	rem
4	Font Size	14px	16px
5	Dropdown Structure	Created with and 	Created with or <div>
6	Offsetting Columns	col-md-offset-4	offset-md-4
7	Images	<i>.img-responsive</i> class	<i>.img-fluid</i> class
8	Tables	Add <i>.table-responsive</i> class to parent <div> element	Add <i>.table-responsive</i> class to <table> element
9	Glyphicons	Supported	Not Supported
10	Media Objects	Uses classes for media objects, such as <i>.media</i> , <i>.media-body</i> , <i>.media-object</i> , <i>.media-heading</i> , <i>.media-right</i> , <i>.media-left</i> , <i>.media-list</i> and <i>.media-body</i>	Uses just <i>.media</i> class for media objects.
11	Dark/inverse Tables	Not supported	Uses <i>.table-dark</i> class to make dark/inverse tables
12	Checkboxes and Radio Buttons	Displays the checkboxes and radio buttons by using <i>.radio</i> , <i>.radio-inline</i> , <i>.checkbox</i> , or <i>.checkbox-inline</i> classes	Displays the checkboxes and radio buttons by using <i>.form-check</i> , <i>.form-check-label</i> , <i>.form-check-input</i> , or <i>.form-check-inline</i> classes
13	Form Control Size	Increase or decrease size of an input control by using <i>.input-lg</i> and <i>.input-sm</i> classes	Increase or decrease size of an input control by using <i>.form-control-lg</i> and <i>.form-control-sm</i> classes
14	Help Text	Display the help text by using <i>.help-block</i> class	Display the help text by using <i>.form-text</i> class
15	Styles	Uses the <i>.btn-default</i> and <i>.btn-info</i> classes on buttons	Uses the <i>.btn-secondary</i> , <i>.btn-light</i> and <i>.btn-dark</i> classes on buttons and dropped the <i>.btn-default</i> class.
16	Outline Buttons	Not Supported	Style the buttons with outline color by using <i>.btn-outline-*</i> class

17	Button Sizes	The <i>.btn-xs</i> class is available	Available only <i>.btn-sm</i> and <i>.btn-lg</i> classes and dropped the <i>.btn-xs</i> class
18	Menu Headers	Use <i>.dropdown-header</i> class to the <i>li</i> tag	Use <i>.dropdown-header</i> class to <i>h1 - h2</i> tags
19	Dividers	Use the <i>.divider</i> class in the <i>li</i> element	Use the <i>.dropdown-divider</i> class in the <i>div</i> element
20	Fixed Navbars	Fix the navbar to top or bottom by using <i>.navbar-fixed-top</i> and <i>.navbar-fixed-bottom</i> classes	Fix the navbar to top or bottom by using <i>.fixed-top</i> and <i>.fixed-bottom</i> classes
21	Pagers	Align the pages by using <i>.previous</i> and <i>.next</i> classes	Not supported
22	Jumbotron Full Width	It does not uses <i>.jumbotron-fluid</i> class on full-width jumbotrons	It uses <i>.jumbotron-fluid</i> class for full-width jumbotrons
23	Carousel Item	Uses <i>.item</i> class for carousel items.	Uses <i>.carousel-item</i> class for carousel items.
24	Wells, Panels and Thumbnails	Supported	Not supported. Use cards instead
25	Inline Navs	It doesn't include <i>.nav-inline</i> class	Display the navs as inline by using the <i>.nav-inline</i> class



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