

BOOTSTRAP BASICS

Introduction to Bootstrap



ABOUT

Build responsive, mobile-first projects on the web with the world's most popular front-end component library.

Bootstrap is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful plugins built on jQuery. Bootstrap allows for faster and easier web development.

WHY USE BOOTSTRAP?

Bootstrap is "the most popular HTML, CSS, and JS framework in the world for building responsive, mobile-first projects on the web." Over 7 million apps and sites across the web are built using Bootstrap. Many web designers, front-end developers, and programmers use Bootstrap to help them build projects faster and easier.

Bootstrap is a front end framework. A framework is a reusable platform that helps you build higher level projects without having to worry about the lower level, repetitive details. For example, when you're building a website, you want it to be presentable on most devices and screens. Your layout will have many components like nav bars, buttons, headers, forms, etc. They will appear in different places of the site or app. Instead of creating your own custom solution for each of these, you can use a framework like Bootstrap that has an out of the box solution for implementing your layout and components in little time.

To view the latest documentation, go to www.getbootstrap.com. Knowing your way around the Bootstrap documentation will give you a head start when building projects because the docs contain information and examples on everything in Bootstrap.

ADVANTAGES

ADVANTAGES

Easy to use: Anybody with just basic knowledge of HTML and CSS can start using Bootstrap

Responsive features: Bootstrap's responsive CSS adjusts to phones, tablets, and desktops

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

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

GETTING STARTED

DOWNLOADING BOOTSTRAP FILES / IN CLASS EXERCISE

STEP 1: Create a folder called “Bootstrap Exercise”

STEP 2: Go to www.getbootstrap.com and go to ‘Download’

STEP 3: Download the files under ‘Compiled CSS and JS’ and put these files into your “Bootstrap Exercise” folder

STEP 4: Create an index.html file in your “Bootstrap Exercise” folder

STEP 5: In the head tags, include `<link href="css/bootstrap.css" rel="stylesheet">`

STEP 6: At the bottom, before your closing body tag, include `<script src="js/bootstrap.min.js"></script>`

STARTER CODE EXAMPLE

```
<!DOCTYPE html>
<head>
<title>My Bootstrap Site – Home</title>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link href="css/bootstrap.css" rel="stylesheet">
</head>
<body>
<div class="container">
<h1>Hello World!</h1>
</div>
<script src="js/bootstrap.min.js"></script>
</body>
</html>
```


HTML5 DOCTYPE

HTML5 DOCTYPE

Bootstrap makes use of certain HTML elements and CSS properties that require the use of the HTML5 doctype. Include it at the beginning of all your projects.

```
<!DOCTYPE html>
```

```
</html>
```

MOBILE FIRST

MOBILE FIRST CODE

With Bootstrap 3, we've rewritten the project to be mobile friendly from the start. Instead of adding on optional mobile styles, they're baked right into the core. In fact, Bootstrap is mobile first. Mobile first styles can be found throughout the entire library instead of in separate files. To ensure proper rendering and touch zooming, add the viewport meta tag to your head

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

CONTAINERS

BOOTSTRAP CONTAINERS

Bootstrap requires a container element to wrap site contents and house our grid system. You may choose one of two containers to use in your projects. Note that, due to padding and more, neither container is nestable.

Use `.container` for a responsive fixed width container:

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

Use `.container-fluid` for a full width container, spanning the entire width of your viewport:

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

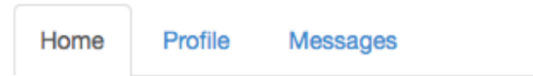
NAVIGATION

NAVIGATION: CODE EXAMPLE

There are many different options for your Bootstrap navigation. A simple navigation using an unordered list will first require the nav class. For example, it will look like this

```
<ul class="nav nav-tabs">  
<li><a href="index.html">Home</a></li>  
<li><a href="profile.html">Profile</a></li>  
<li><a href="messages.html">Messages</a></li>  
</ul>
```

EXAMPLE



```
<ul class="nav nav-pills">  
<li><a href="index.html">Home</a></li>  
<li><a href="profile.html">Profile</a></li>  
<li><a href="messages.html">Messages</a></li>  
</ul>
```

EXAMPLE



THE GRID SYSTEM

WHAT IS IT?

Bootstrap includes a responsive, mobile first fluid grid system that appropriately scales up to 12 columns as the device or viewport size increases. It includes predefined classes for easy layout options, as well as powerful mixins for generating more semantic layouts.

SIZING

.col-xs-12 (extra small devices / phones)

.col-sm-12 (small devices / tablets)

.col-md-12 (medium devices / laptops)

.col-lg-12 (large devices / desktops)

GRID RULES

Rows must be placed within a `.container` or `.container-fluid` for proper alignment and padding

Use rows to create horizontal groups of columns

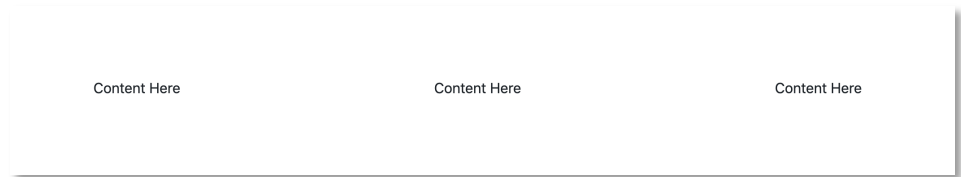
Content should be placed within columns, and only columns may be immediate children of rows

Grid columns are created by specifying the number of twelve available columns you wish to span. For example, three equal columns would use three `.col-xs-4`

BOOTSTRAP GRID: CODE EXAMPLE

The main Bootstrap layout is based on a fluid grid system that appropriately scales up to 12 columns, depending on the size of the user's screen. This grid system is shown in the code below:

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



TEMPLATES

WHERE CAN I GET FREE TEMPLATES?

www.startbootstrap.com/themes/

CHECK OUT AN EXAMPLE

www.saramshields.com/p3