

Bootstrap

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- Sleek, intuitive and powerful mobile first front-end framework
- Bootstrap's responsive CSS adjusts to Desktops, Tablets and Mobiles.
- Open Source
- Provide functional components which are easy to customise
- Can easily get started with Bootstrap with HTML and CSS
- Bootstrap 3 is mobile first in sense that code for Bootstrap now starts by targeting smaller screens like mobile, tablets and then expands components for larger screens like laptops, desktops..

Mobile First Strategy

- Content
 - Determine what is important
- Layout
 - Design for smaller width first
 - Base css addresses mobile device first, media queries for larger devices
- Progressive Enhancement
 - Add elements as screen size increases

File Structure

```
bootstrap/  
├── css/  
│   ├── bootstrap.css  
│   ├── bootstrap.css.map  
│   ├── bootstrap.min.css  
│   ├── bootstrap-theme.css  
│   ├── bootstrap-theme.css.map  
│   └── bootstrap-theme.min.css  
├── js/  
│   ├── bootstrap.js  
│   └── bootstrap.min.js  
└── fonts/  
    ├── glyphs-halflings-regular.eot  
    ├── glyphs-halflings-regular.svg  
    ├── glyphs-halflings-regular.ttf  
    ├── glyphs-halflings-regular.woff  
    └── glyphs-halflings-regular.woff2
```

Supported browsers

	Chrome	Firefox	Internet Explorer	Opera	Safari
Android	✔ Supported	✔ Supported	N/A	✘ Not Supported	N/A
iOS	✔ Supported	N/A		✘ Not Supported	✔ Supported
Mac OS X	✔ Supported	✔ Supported		✔ Supported	✔ Supported
Windows	✔ Supported	✔ Supported	✔ Supported	✔ Supported	✘ Not Supported

List of known browser issues :

<http://getbootstrap.com/browser-bugs/>

HTML Template with Bootstrap

```
<!DOCTYPE html>
<html>
  <head>
    <title>Bootstrap 101 Template</title>
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <!-- Bootstrap -->
    <link href="css/bootstrap.min.css" rel="stylesheet">

    <!-- HTML5 Shim and Respond.js IE8 support of HTML5 elements and media
    queries -->
    <!-- WARNING: Respond.js doesn't work if you view the page
    via file:// -->
    <!--[if lt IE 9]>
      <script src="https://oss.maxcdn.com/libs/html5shiv/3.7.0/
      html5shiv.js"></script>
      <script src="https://oss.maxcdn.com/libs/respond.js/1.3.0/
      respond.min.js"></script>
    <![endif]-->
  </head>
  <body>
    <h1>Hello, world!</h1>

    <!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->
    <script src="https://code.jquery.com/jquery.js"></script>
    <!-- Include all compiled plugins (below), or include individual files
    as needed -->
    <script src="js/bootstrap.min.js"></script>
  </body>
</html>
```

Grid System

	Extra small devices Phones (<768px)	Small devices Tablets (≥768px)	Medium devices Desktops (≥992px)	Large devices Desktops (≥1200px)
Grid behavior	Horizontal at all times	Collapsed to start, horizontal above breakpoints		
Container width	None (auto)	750px	970px	1170px
Class prefix	<code>.col-xs-</code>	<code>.col-sm-</code>	<code>.col-md-</code>	<code>.col-lg-</code>
# of columns	12			
Column width	Auto	~62px	~81px	~97px
Gutter width	30px (15px on each side of a column)			
Nestable	Yes			
Offsets	Yes			
Column ordering	Yes			

Demo covers..

- Responsive Columns
- Offset Columns
- Nesting Columns
- Typography
- Codes
- Tables