

Bootstrap

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Bootstrap

An illustration of a woman with brown hair, wearing a dark blue business suit and a white collared shirt. She has her arms crossed and is looking towards the right. A large, dark blue thought bubble is positioned above her head, containing the text "What is Bootstrap?".

**What is
Bootstrap?**

- Bootstrap is a free front-end framework developed by Twitter for faster and easier web development
- Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables.
- Bootstrap also gives you the ability to easily create responsive designs

Responsive Web Design



What is
Responsive
web design ?

Responsive web design is about creating web sites

which automatically adjust themselves to look good on
all devices, from small phones to large desktops.



Advantages of Bootstrap



Anybody with just basic knowledge of HTML and CSS can start using Bootstrap

Easy to use



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

Responsive Features



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

Mobile-first Approach



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

Browser Compatibility



Prerequisites



Where to get
Bootstrap?

There are three ways to start using Bootstrap on your own web site:

Download Bootstrap
from
getbootstrap.com

Include Bootstrap
from a CDN

Download using npm

Create first page using Bootstrap

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

1. Bootstrap 3 is mobile-first

2. Containers

Bootstrap also requires a containing element to wrap site contents.

There are two container classes to choose from:

- The `.container` class provides a responsive **fixed width container**
- The `.container-fluid` class provides a **full width container**, spanning the entire width of the viewport

First Page using Bootstrap



```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"
  >
</head>
<body>

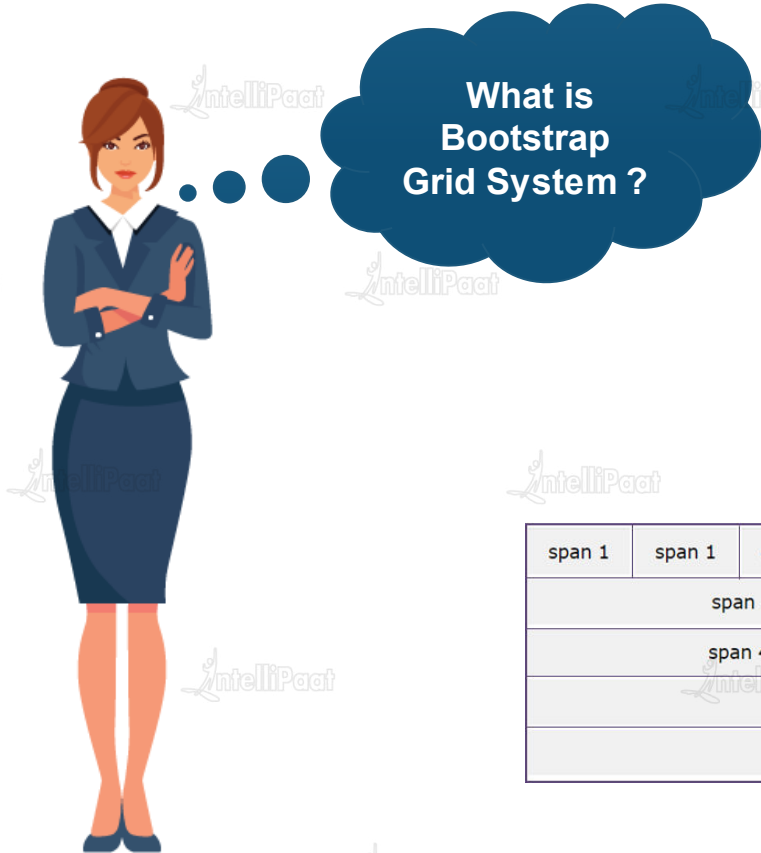
<div class="container">
  <h1>My First Bootstrap Page</h1>
  <p>This is some text.</p>
</div>

</body>
</html>
```


Grid System



Bootstrap Grid System



What is
Bootstrap
Grid System ?

- It is used for creating page layouts through a series of rows and columns.
- Bootstrap's grid system allows up to 12 columns across the page.
- Bootstrap's grid system is responsive, and the columns will re-arrange automatically depending on the screen size.
- If you do not want to use all 12 columns individually, you can group the columns together to create wider columns:

span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1
span 4				span 4				span 4			
span 4				span 8							
span 6						span 6					
span 12											

Bootstrap Grid Classes



The Bootstrap grid system has four classes:

1.xs

- for phones
- screens less than 768px wide

sm

for tablets
screens equal to or
greater than 768px
wide

md

for small laptops
screens equal to or
greater than 992px
wide

lg

for laptops and
desktops
screens equal to or
greater than
1200px wide

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



Basic Structure of Grid System

```
<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>
```

Bootstrap different Supported classes



Typography

We will look at some HTML elements that will be styled a little bit differently by Bootstrap than browser defaults.

Like : <h1> to <h6>, <p> etc.

The classes for text colors are

`.text-muted`, `.text-primary`, `.text-success`, `.text-info`, `.text-warning`, and `.text-danger`.

The classes for background colors are

`.bg-primary`, `.bg-success`, `.bg-info`, `.bg-warning`, and `.bg-danger`

The classes for text content are

`.text-left` (Indicates left-aligned text) , `.text-center`(Indicates center-aligned text), `.text-right`(Indicates right-aligned text), `.text-justify` (Indicates justified text), `.text-lowercase` (Indicates lowercased text) , `.text-uppercase` (Indicates uppercased text) , `.text-capitalize`(Indicates capitalized text)

Table



The **.table-striped** class adds zebra-stripes to a table

The **.table-bordered** class adds borders on all sides of the table and cells

The **.table-hover** class adds a hover effect (grey background color) on table rows

The **.table-condensed** class makes a table more compact by cutting cell padding in half

A basic Bootstrap table has a light padding and only horizontal dividers

- The **.table** class adds basic styling to a table

List and List Group



To create a basic list group, use an `` element with class `.list-group`, and `` elements with class `.list-group-item`:

```
<ul class="list-group">  
  <li class="list-group-item">First item</li>  
  <li class="list-group-item">Second item</li>  
  <li class="list-group-item">Third item</li>  
</ul>
```

```
<ul class="list-group">  
  <li class="list-group-item list-group-item-success">First item</li>  
  <li class="list-group-item list-group-item-info">Second item</li>  
  <li class="list-group-item list-group-item-warning">Third item</li>  
  <li class="list-group-item list-group-item-danger">Fourth item</li>  
</ul>
```


Bootstrap Forms

Buttons

To achieve the different background color for button, Bootstrap has the following classes:

- `.btn`
- `.btn-default`
- `.btn-primary`
- `.btn-success`
- `.btn-info`
- `.btn-warning`
- `.btn-danger`
- `.btn-link`

Bootstrap provides different button sizes. The classes that define the different sizes are:

- `.btn-lg`
- `.btn-md`
- `.btn-sm`
- `.btn-xs`

Buttons



A block level button spans the entire width of the parent element.

```
<button type="button" class="btn btn-primary btn-block">Button 1</button>
```

A button can be set to an active (appear pressed) or a disabled (unclickable) state. The class `.active` makes a button appear pressed, and the class `.disabled` makes a button unclickable:

```
<button type="button" class="btn btn-primary active">Active Primary</button>  
  
<button type="button" class="btn btn-primary disabled">Disabled Primary</button>
```

Bootstrap Forms



Bootstrap provides two types of form layouts:

Vertical form
(this is default)

Inline form

Types of Bootstrap Forms

Vertical Form

Inline Form

Rules for Bootstrap Forms



Standard rules for all layouts:

Wrap labels and form controls in `<div class="form-group">` (needed for optimum spacing)

Add class `.form-control` to all textual `<input>`, `<textarea>`, and `<select>` elements

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

Bootstrap Inline Forms



In an inline form, all of the elements are inline, left-aligned, and the labels are alongside.

Note: This only applies to forms within viewports that are at least 768px wide!

Additional rule for an inline form:

Add class `.form-inline` to the `<form>` element

```
<form class="form-inline" action="/action_page.php">
  <div class="form-group">
    <label>Email address:</label>
    <input type="email" class="form-control" id="email">
  </div>
</form>
```



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