Bootstrap

What is Bootstrap?

➢ Bootstrap is a free **front-end framework** for faster and easier web development

➢ Bootstrap includes HTML and CSS based design templates for

  ➢ typography, forms, buttons, tables, navigation, modals, image carousels and many other

  ➢ optional JavaScript plugins

➢ Bootstrap also gives you the ability to easily create responsive designs

Responsive web design is about creating web sites which automatically adjust themselves <u>to look good on all devices</u>, from small phones to large desktops.

Why Use Bootstrap?

Advantages of Bootstrap:

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

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

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

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

Where to Get Bootstrap?

- **Download Bootstrap from getbootstrap.com**

  Go to getbootstrap.com, and follow the instructions there.

- **Include Bootstrap from a CDN**

  If you don't want to download and host Bootstrap yourself, you can include it from a CDN (Content Delivery Network).

  MaxCDN provides CDN support for Bootstrap's CSS and JavaScript. You must also include jQuery:

```html
<!-- Latest compiled and minified CSS -->

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">

<!-- jQuery library -->

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<!-- Latest compiled JavaScript -->

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
```

Create First Web Page With Bootstrap

1. Add the HTML5 doctype

- Bootstrap uses HTML elements and CSS properties that require the HTML5 doctype.

- Always include the HTML5 doctype at the beginning of the page, along with the lang attribute and the correct character set:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
  </head>
</html>
```

Create First Web Page With Bootstrap

2. Bootstrap 3 is mobile-first

- Bootstrap 3 is designed to be responsive to mobile devices.

- Mobile-first styles are part of the core framework.

- To ensure proper rendering and touch zooming, **add the following <meta> tag inside the <head> element:**

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

- The **width=device-width** part sets the width of the page to follow the screen-width of the device (which will vary depending on the device).

- The **initial-scale=1** part sets the initial zoom level when the page is first loaded by the browser.
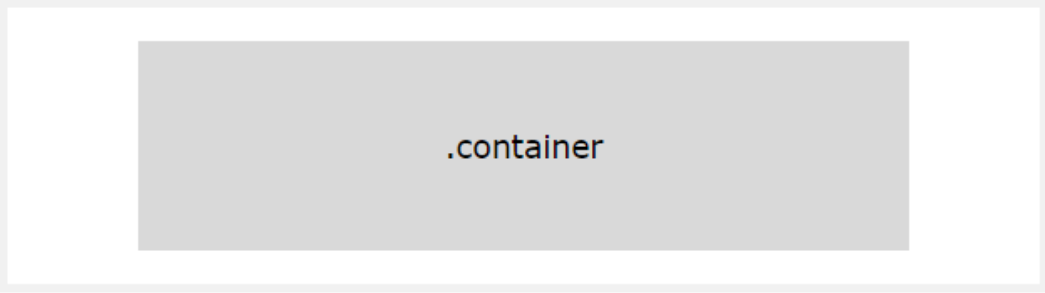
Create First Web Page With Bootstrap
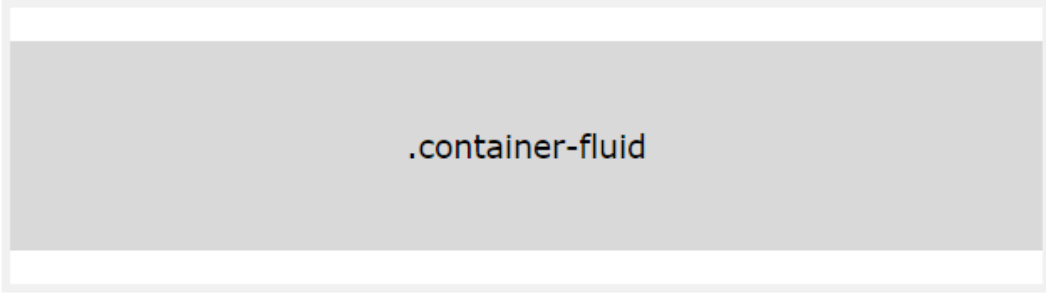
3. Containers

Bootstrap also requires a containing element to wrap site contents.

There are two container classes to choose from:

1. The **.container** class provides a responsive fixed width container

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

.container

.container-fluid

```html
<!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/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h1>My First Bootstrap Page</h1>
  <p>This part is inside a .container class.</p>
  <p>The .container class provides a responsive fixed width container.</p>
</div>

</body>
</html>
```

Examples

My First Bootstrap Page

This part is inside a .container class.

The .container class provides a responsive fixed width container.

```
<!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/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container-fluid">
  <h1>My First Bootstrap Page</h1>
  <p>This part is inside a .container class.</p>
  <p>The .container class provides a responsive fixed width container.</p>
</div>

</body>
</html>
```

Examples

My First Bootstrap Page

This part is inside a .container-fluid class.

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

Bootstrap Grid System

Bootstrap Grid System

- Bootstrap's grid system allows up to 12 columns across the page.

- If you do not want to use all 12 columns individually, you can group the columns together to create wider columns

- Bootstrap's grid system is responsive, and the columns will re-arrange automatically depending on the screen size.

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											

Grid Classes

The Bootstrap grid system has four classes:

1. **xs** (for phones - screens less than 768px wide)

2. **sm** (for tablets - screens equal to or greater than 768px wide)

3. **md** (for small laptops - screens equal to or greater than 992px wide)

4. **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.

Grid Classes

Basic Structure of a Bootstrap Grid

```
<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>
```

- First: create a row (<div class="row">).

- Add the desired number of columns (tags with appropriate .col-*-* classes).

- Note that numbers in .col-*-* should always add up to 12 for each row.

Grid Classes

Three Equal Columns

```
<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>
```

- The example shows how to get a three equal-width columns starting at tablets and scaling to large desktops.
- On mobile phones or screens that are less than 768px wide, the columns will automatically stack

.col-sm-4	.col-sm-4	.col-sm-4

```
<!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/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container-fluid">
  <h1>Hello World!</h1>
  <p>Resize the browser window to see the effect.</p>
  <p>The columns will automatically stack on top of each other when the screen is less than 768px
wide.</p>
  <div class="row">
    <div class="col-sm-4" style="background-color:lavender;">.col-sm-4</div>
    <div class="col-sm-4" style="background-color:lavenderblush;">.col-sm-4</div>
    <div class="col-sm-4" style="background-color:lavender;">.col-sm-4</div>
  </div>
</div>

</body>
</html>
```

Hello World!

Resize the browser window to see the effect.

The columns will automatically stack on top of each other when the screen is less than 768px wide.

| .col-sm-4 | .col-sm-4 | .col-sm-4 |

```html
<!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/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container-fluid">
  <h1>Hello World!</h1>
  <p>Resize the browser window to see the effect.</p>
  <p>The columns will automatically stack on top of each other when the screen is less than 768px wide.</p>
  <div class="row">
    <div class="col-sm-4" style="background-color:lavender;">.col-sm-4</div>
    <div class="col-sm-4" style="background-color:lavenderblush;">.col-sm-4</div>
    <div class="col-sm-4" style="background-color:lavender;">.col-sm-4</div>
  </div>
</div>

</body>
</html>
```

Hello World!

Resize the browser window to see the effect.

The columns will automatically stack on top of each other when the screen is less than 768px wide.

.col-sm-4   .col-sm-4   .col-sm-4

Hello World!

Resize the browser window to see the effect.

The columns will automatically stack on top of each other when the screen is less than 768px wide.

.col-sm-4
.col-sm-4
.col-sm-4

Grid Classes

Two unequal Columns

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

- The example shows how to get two various-width columns starting at tablets and scaling to large desktops

.col-sm-4	.col-sm-8

Examples

```html
<!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/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container-fluid">
  <h1>Hello World!</h1>
  <p>Resize the browser window to see the effect.</p>
  <p>The columns will automatically stack on top of each other when the screen is less than 768px wide.</p>
  <div class="row">
    <div class="col-sm-4" style="background-color:lavender;">.col-sm-4</div>
    <div class="col-sm-8" style="background-color:lavenderblush;">.col-sm-8</div>
  </div>
</div>

</body>
</html>
```

Hello World!

Resize the browser window to see the effect.

The columns will automatically stack on top of each other when the screen is less than 768px wide.

.col-sm-4	.col-sm-8

Examples

```html
<!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/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container-fluid">
  <h1>Hello World!</h1>
  <p>Resize the browser window to see the effect.</p>
  <p>The columns will automatically stack on top of each other when the screen is less than 768px
wide.</p>
  <div class="row">
    <div class="col-sm-4" style="background-color:lavender;">.col-sm-4</div>
    <div class="col-sm-8" style="background-color:lavenderblush;">.col-sm-8</div>
  </div>
</div>

</body>
</html>
```

Hello World!

Resize the browser window to see the effect.

The columns will automatically stack on top of each other when the screen is less than 768px wide.

.col-sm-4

.col-sm-8

Bootstrap Button

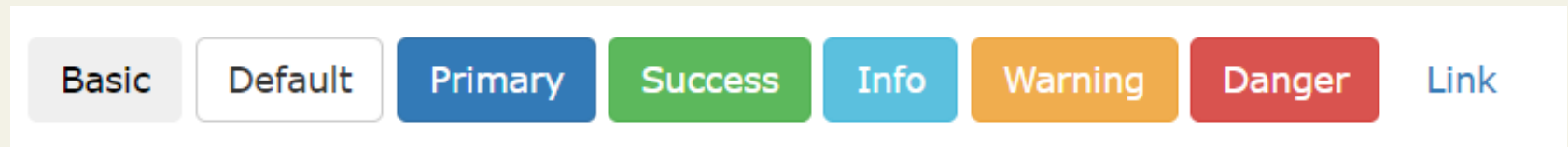# Bootstrap Buttons

Bootstrap provides different styles of buttons

To achieve the button styles above, Bootstrap has the following classes:

1. **.btn**
2. **.btn-default**
3. **.btn-primary**
4. **.btn-success**
5. **.btn-info**
6. **.btn-warning**
7. **.btn-danger**
8. **.btn-link**

Basic | Default | Primary | Success | Info | Warning | Danger | Link

Bootstrap Buttons

```html
<!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/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h2>Button Styles</h2>
  <button type="button" class="btn">Basic</button>
  <button type="button" class="btn btn-default">Default</button>
  <button type="button" class="btn btn-primary">Primary</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-link">Link</button>
</div>

</body>
</html>
```

Bootstrap Buttons

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
```

Button Styles

| Basic | Default | Primary | Success | Info | Warning | Danger | Link |

```html
<div class="container">
  <h2>Button Styles</h2>
  <button type="button" class="btn">Basic</button>
  <button type="button" class="btn btn-default">Default</button>
  <button type="button" class="btn btn-primary">Primary</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-link">Link</button>
</div>

</body>
</html>
```

Bootstrap Buttons

```html
<!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/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h2>Button Tags</h2>
  <a href="#" class="btn btn-info" role="button">Link Button</a>
  <button type="button" class="btn btn-info">Button</button>
  <input type="button" class="btn btn-info" value="Input Button">
  <input type="submit" class="btn btn-info" value="Submit Button">
</div>

</body>
</html>
```

➢ The button classes can be used on an <a>, <button>, or <input> element

➢ we do not have any page to link it to, and we do not want to get a "404" message, we put # as the link in our examples. It should be a real URL to a specific page.

Bootstrap Buttons

```
<!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/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h2>Button Tags</h2>
  <a href="#" class="btn btn-info" role="button">Link Button</a>
  <button type="button" class="btn btn-info">Button</button>
  <input type="button" class="btn btn-info" value="Input Button">
  <input type="submit" class="btn btn-info" value="Submit Button">
</div>

</body>
</html>
```

Bootstrap Buttons

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
```

Button Tags

| Link Button | Button | Input Button | Submit Button |

```
<div class="container">
  <h2>Button Tags</h2>
  <a href="#" class="btn btn-info" role="button">Link Button</a>
  <button type="button" class="btn btn-info">Button</button>
  <input type="button" class="btn btn-info" value="Input Button">
  <input type="submit" class="btn btn-info" value="Submit Button">
</div>

</body>
</html>
```

Bootstrap Button Sizes

```html
<!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/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h2>Button Sizes</h2>
  <button type="button" class="btn btn-primary btn-lg">Large</button>
  <button type="button" class="btn btn-primary">Normal</button>
  <button type="button" class="btn btn-primary btn-sm">Small</button>
  <button type="button" class="btn btn-primary btn-xs">XSmall</button>
</div>

</body>
</html>
```

Bootstrap provides four button sizes:

The classes that define the different sizes are:

➢.btn-lg

➢.btn-sm

➢.btn-xs

Bootstrap Button Sizes

```html
<!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/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h2>Button Sizes</h2>
  <button type="button" class="btn btn-primary btn-lg">Large</button>
  <button type="button" class="btn btn-primary">Normal</button>
  <button type="button" class="btn btn-primary btn-sm">Small</button>
  <button type="button" class="btn btn-primary btn-xs">XSmall</button>
</div>

</body>
</html>
```
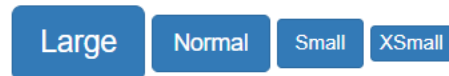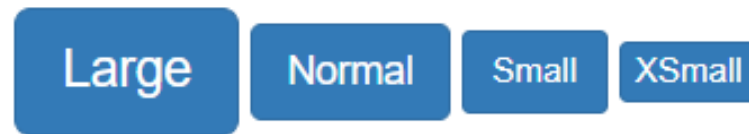
Bootstrap Button Sizes

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Bootstrap Example</title>
```



```
</head>
<body>

<div class="container">
    <h2>Button Sizes</h2>
    <button type="button" class="btn btn-primary btn-lg">Large</button>
    <button type="button" class="btn btn-primary">Normal</button>
    <button type="button" class="btn btn-primary btn-sm">Small</button>
    <button type="button" class="btn btn-primary btn-xs">XSmall</button>
</div>

</body>
</html>
```

Bootstrap Forms

Bootstrap Forms

Bootstrap Default Settings

➢ Form controls automatically receive some global styling with Bootstrap:

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

Bootstrap Form Layouts

Bootstrap provides three types of form layouts:

1. Vertical form (this is default)
2. Horizontal form
3. Inline form

Standard rules for all three form 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

```html
<!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/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h2>Vertical (basic) form</h2>
  <form action="/action_page.php">
    <div class="form-group">
      <label for="email">Email:</label>
      <input type="email" class="form-control" id="email" placeholder="Enter email" name="email">
    </div>
    <div class="form-group">
      <label for="pwd">Password:</label>
      <input type="password" class="form-control" id="pwd" placeholder="Enter password" name="pwd">
    </div>
    <div class="checkbox">
      <label><input type="checkbox" name="remember"> Remember me</label>
    </div>
    <button type="submit" class="btn btn-default">Submit</button>
  </form>
</div>

</body>
</html>
```

Vertical (basic) form

Email:

Enter email

Password:

Enter password

☐ Remember me

Submit

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</tit
  <meta charset="utf-8">
  <meta name="viewport" content
  <link rel="stylesheet" href="
  <script src="https://ajax.goo
  <script src="https://maxcdn.b
</head>
<body>

<div class="container">
  <h2>Vertical (basic) form</h2>
  <form action="/action_page.php">
    <div class="form-group">
      <label for="email">Email:</label>
      <input type="email" class="form-control" id="email" placeholder="Enter email" name="email">
    </div>
    <div class="form-group">
      <label for="pwd">Password:</label>
      <input type="password" class="form-control" id="pwd" placeholder="Enter password" name="pwd">
    </div>
    <div class="checkbox">
      <label><input type="checkbox" name="remember"> Remember me</label>
    </div>
    <button type="submit" class="btn btn-default">Submit</button>
  </form>
</div>

</body>
</html>
```

Bootstrap Inline Form

```html
<!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/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h2>Inline form</h2>
  <p>Make the viewport larger than 768px wide to see that all of the form elements are inline, left
aligned, and the labels are alongside.</p>
  <form class="form-inline" action="/action_page.php">
    <div class="form-group">
      <label for="email">Email:</label>
      <input type="email" class="form-control" id="email" placeholder="Enter email" name="email">
    </div>
    <div class="form-group">
      <label for="pwd">Password:</label>
      <input type="password" class="form-control" id="pwd" placeholder="Enter password" name="pwd">
    </div>
    <div class="checkbox">
      <label><input type="checkbox" name="remember"> Remember me</label>
    </div>
    <button type="submit" class="btn btn-default">Submit</button>
  </form>
</div>

</body>
</html>
```

✓ 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

Bootstrap Inline Form

Inline form

Make the viewport larger than 768px wide to see that all of the form elements are inline, left aligned, and the labels are alongside.

Email: [Enter email] **Password:** [Enter password] ☐ Remember me [Submit]

```
<div class="container">
  <h2>Inline form</h2>
  <p>Make the viewport larger than 768px wide to see that all of the form elements are inline, left
aligned, and the labels are alongside.</p>
  <form class="form-inline" action="/action_page.php">
    <div class="form-group">
      <label for="email">Email:</label>
      <input type="email" class="form-control" id="email" placeholder="Enter email" name="email">
    </div>
    <div class="form-group">
      <label for="pwd">Password:</label>
      <input type="password" class="form-control" id="pwd" placeholder="Enter password" name="pwd">
    </div>
    <div class="checkbox">
      <label><input type="checkbox" name="remember"> Remember me</label>
    </div>
    <button type="submit" class="btn btn-default">Submit</button>
  </form>
</div>

</body>
</html>
```

Bootstrap Horizontal Form

```html
<body>

<div class="container">
  <h2>Horizontal form</h2>
  <form class="form-horizontal" action="/action_page.php">
    <div class="form-group">
      <label class="control-label col-sm-2" for="email">Email:</label>
      <div class="col-sm-10">
        <input type="email" class="form-control" id="email" placeholder="Enter email" name="email">
      </div>
    </div>
    <div class="form-group">
      <label class="control-label col-sm-2" for="pwd">Password:</label>
      <div class="col-sm-10">
        <input type="password" class="form-control" id="pwd" placeholder="Enter password" name="pwd">
      </div>
    </div>
    <div class="form-group">
      <div class="col-sm-offset-2 col-sm-10">
        <div class="checkbox">
          <label><input type="checkbox" name="remember"> Remember me</label>
        </div>
      </div>
    </div>
    <div class="form-group">
      <div class="col-sm-offset-2 col-sm-10">
        <button type="submit" class="btn btn-default">Submit</button>
      </div>
    </div>
  </form>
</div>

</body>
```

- ✓ A horizontal form means that the labels are aligned next to the input field (horizontal) on large and medium screens.
- ✓ On small screens (767px and below), it will transform to a vertical form (labels are placed on top of each input).

Additional rules for a horizontal form:
- ✓ Add class .form-horizontal to the <form> element
- ✓ Add class .control-label to all <label> elements

- ✓ Tip: Use Bootstrap's predefined grid classes to align labels and groups of form controls in a horizontal layout.

Bootstrap Horizontal Form

```html
<body>

<div class="container">
  <h2>Horizontal form</h2>
  <form class="form-horizontal" action="/action_page.php">
    <div class="form-group">
      <label class="control-label col-sm-2" for="email">Email:</label>
      <div class="col-sm-10">
        <input type="email" class="form-control" id="email" placeholder="Enter email" name="email">
      </div>
    </div>
    <div class="form-group">
      <label class="control-label col-sm-2" for="pwd">Password:</label>
      <div class="col-sm-10">
        <input type="password" class="form-control" id="pwd" placeholder="Enter password" name="pwd">
      </div>
    </div>
    <div class="form-group">
      <div class="col-sm-offset-2 col-sm-10">
        <div class="checkbox">
          <label><input type="checkbox" name="remember"> Remember me</label>
        </div>
```

✓A horizontal form means that the labels are aligned next to the input field (horizontal) on large and medium screens.

✓On small screens (767px and below), it will transform to a vertical form (labels are placed on top of each input).

Additional rules for a horizontal form:

✓Add class .form-horizontal to the <form> element

✓Add class .control-label to all

Horizontal form

Email: Enter email

Password: Enter password

☐ Remember me

Submit

Bootstrap Navigation Bar

Bootstrap Navigation Bar

```html
<!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/3.4.1/css/bootstrap.min.css">
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<nav class="navbar navbar-default">
  <div class="container-fluid">
    <div class="navbar-header">
      <a class="navbar-brand" href="#">WebSiteName</a>
    </div>
    <ul class="nav navbar-nav">
      <li class="active"><a href="#">Home</a></li>
      <li><a href="#">Page 1</a></li>
      <li><a href="#">Page 2</a></li>
      <li><a href="#">Page 3</a></li>
    </ul>
  </div>
</nav>

<div class="container">
  <h3>Basic Navbar Example</h3>
  <p>A navigation bar is a navigation header that is placed at the top of the page.</p>
</div>


</body>
</html>
```

A navigation bar is a navigation header that is placed at the top of the page:

With Bootstrap, a navigation bar can extend or collapse, depending on the screen size.

A standard navigation bar is created with

`<nav class="navbar navbar-default">`.

WebSiteName Home Page 1 Page 2 Page 3

Basic Navbar Example

A navigation bar is a navigation header that is placed at the top of the page.

```html
<nav class="navbar navbar-default">
  <div class="container-fluid">
    <div class="navbar-header">
      <a class="navbar-brand" href="#">WebSiteName</a>
    </div>
    <ul class="nav navbar-nav">
      <li class="active"><a href="#">Home</a></li>
      <li><a href="#">Page 1</a></li>
      <li><a href="#">Page 2</a></li>
      <li><a href="#">Page 3</a></li>
    </ul>
  </div>
</nav>

<div class="container">
  <h3>Basic Navbar Example</h3>
  <p>A navigation bar is a navigation header that is placed at the top of the page.</p>
</div>

</body>
</html>
```

Bootstrap Navigation Bar

```html
<!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/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<nav class="navbar navbar-default">
  <div class="container-fluid">
    <div class="navbar-header">
      <a class="navbar-brand" href="#">WebSiteName</a>
    </div>
    <ul class="nav navbar-nav">
      <li class="active"><a href="#">Home</a></li>
      <li><a href="#">Page 1</a></li>
      <li><a href="#">Page 2</a></li>
      <li><a href="#">Page 3</a></li>
    </ul>
  </div>
</nav>

<div class="container">
  <h3>Basic Navbar Example</h3>
  <p>A navigation bar is a navigation header that is placed at the top of the page.</p>
</div>

</body>
</html>
```

WebSiteName

Home

Page 1

Page 2

Page 3

Basic Navbar Example

A navigation bar is a navigation header that is placed at the top of the page.

```html
<!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/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<nav class="navbar navbar-inverse">
  <div class="container-fluid">
    <div class="navbar-header">
      <a class="navbar-brand" href="#">WebSiteName</a>
    </div>
    <ul class="nav navbar-nav">
      <li class="active"><a href="#">Home</a></li>
      <li><a href="#">Page 1</a></li>
      <li><a href="#">Page 2</a></li>
      <li><a href="#">Page 3</a></li>
    </ul>
  </div>
</nav>

<div class="container">
  <h3>Basic Navbar Example</h3>
  <p>A navigation bar is a navigation header that is placed at the top of the page.</p>
</div>

</body>
</html>
```

Inverted Navigation Bar

If you don't like the style of the default navigation bar, Bootstrap provides an alternative, black navbar

change the .navbar-default class into .navbar-inverse

Inverted Navigation Bar

```html
<!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/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<nav class="navbar navbar-inverse">
  <div class="container-fluid">
    <div class="navbar-header">
      <a class="navbar-brand" href="#">WebSiteName</a>
    </div>
    <ul class="nav navbar-nav">
      <li class="active"><a href="#">Home</a></li>
      <li><a href="#">Page 1</a></li>
      <li><a href="#">Page 2</a></li>
      <li><a href="#">Page 3</a></li>
    </ul>
  </div>
</nav>

<div class="container">
```

If you don't like the style of the default navigation bar, Bootstrap provides an alternative, black navbar

change the .navbar-default class into .navbar-inverse

| WebSiteName | Home | Page 1 | Page 2 | Page 3 |

Inverted Navbar

An inverted navbar is black instead of gray.

Navigation Bar with drop-down

Navigation bars can also hold dropdown menus.

```
<!DOCTYPE html>
<html lang="en">
<head>
</head>
<body>

<nav class="navbar navbar-inverse">
  <div class="container-fluid">
    <div class="navbar-header">
      <a class="navbar-brand" href="#">WebSiteName</a>
    </div>
    <ul class="nav navbar-nav">
      <li class="active"><a href="#">Home</a></li>
      <li class="dropdown"><a class="dropdown-toggle" data-toggle="dropdown" href="#">Page 1 <span
class="caret"></span></a>
        <ul class="dropdown-menu">
          <li><a href="#">Page 1-1</a></li>
          <li><a href="#">Page 1-2</a></li>
          <li><a href="#">Page 1-3</a></li>
        </ul>
      </li>
      <li><a href="#">Page 2</a></li>
      <li><a href="#">Page 3</a></li>
    </ul>
  </div>
</nav>

<div class="container">
  <h3>Navbar With Dropdown</h3>
  <p>This example adds a dropdown menu for the "Page 1" button in the navigation bar.</p>
</div>

</body>
</html>
```

Navigation bars can also hold dropdown menus.

```html
<!DOCTYPE html>
<html lang="en">
<head>
</head>
<body>

<nav class="navbar navbar-inverse">
  <div class="container-fluid">
    <div class="navbar-header">
      <a class="navbar-brand" href="#">WebSiteName</a>
    </div>
    <ul class="nav navbar-nav">
      <li class="active"><a href="#">Home</a></li>
      <li class="dropdown"><a class="dropdown-toggle" data-toggle="dropdown" href="#">Page 1 <span class="caret"></span></a>
        <ul class="dropdown-menu">
          <li><a href="#">Page 1-1</a></li>
          <li><a href="#">Page 1-2</a></li>
          <li><a href="#">Page 1-3</a></li>
        </ul>
      </li>
      <li><a href="#">Page 2</a></li>
      <li><a href="#">Page 3</a></li>
    </ul>
  </div>
```

WebSiteName | Home | Page 1 ▾ | Page 2 | Page 3

Navbar With Dropdown

This example adds a dropdown menu for the "Page 1" button in the navigation bar.