

The background features abstract, overlapping green geometric shapes, primarily triangles and polygons, in various shades of green, creating a modern and dynamic visual effect. The word "Bootstrap" is centered in a green, sans-serif font.

Bootstrap

What is Bootstrap?

- ▶ Bootstrap is the most popular HTML, CSS, and JavaScript framework for developing responsive, mobile-first projects.

It contains HTML, CSS, and JavaScript-based design templates.

- ▶ Quick styling of your website. Bootstrap lets us skip writing CSS and focus instead on HTML.

What is Bootstrap?

CSS

- ▶ Grid system
- ▶ Typography
- ▶ Forms
- ▶ Navbar
- ▶ Responsive utilities
- ▶ ...

Using Bootstrap

Download from the official Bootstrap website and include in your project files.

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

Using Bootstrap

Bootstrap CDN

The folks over at [MaxCDN](#) graciously provide CDN support for Bootstrap's CSS and JavaScript. Just use these [Bootstrap CDN](#) links.

```
<!-- Latest compiled and minified CSS -->
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css">

<!-- Optional theme -->
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap-theme.min.css">

<!-- Latest compiled and minified JavaScript -->
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/js/bootstrap.min.js"></script>
```

Copy

Mobile Friendly

- ▶ Bootstrap 3 is mobile friendly by default.
 - ▶ Responsive to screen size
 - ▶ Touch screen zooming
- ▶ Add following to your <head> to enable touch zooming.

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

- ▶ width=device-width: sets width of page to screen width of the device
- ▶ initial-scale=1: sets initial zoom level when the page is first loaded

.Container

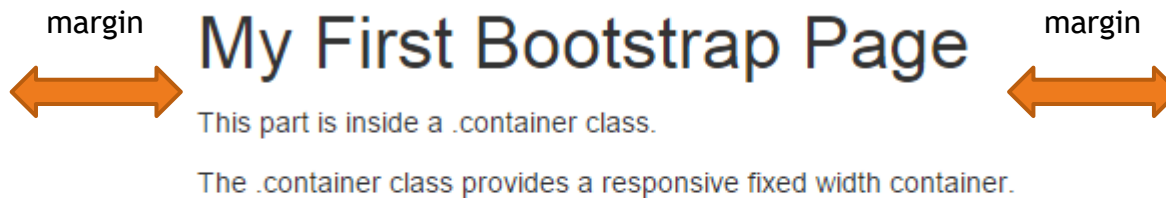
```
<div class="container">  
  ...  
</div>
```

- Responsively add margins, center, and wrap your content.

.Container

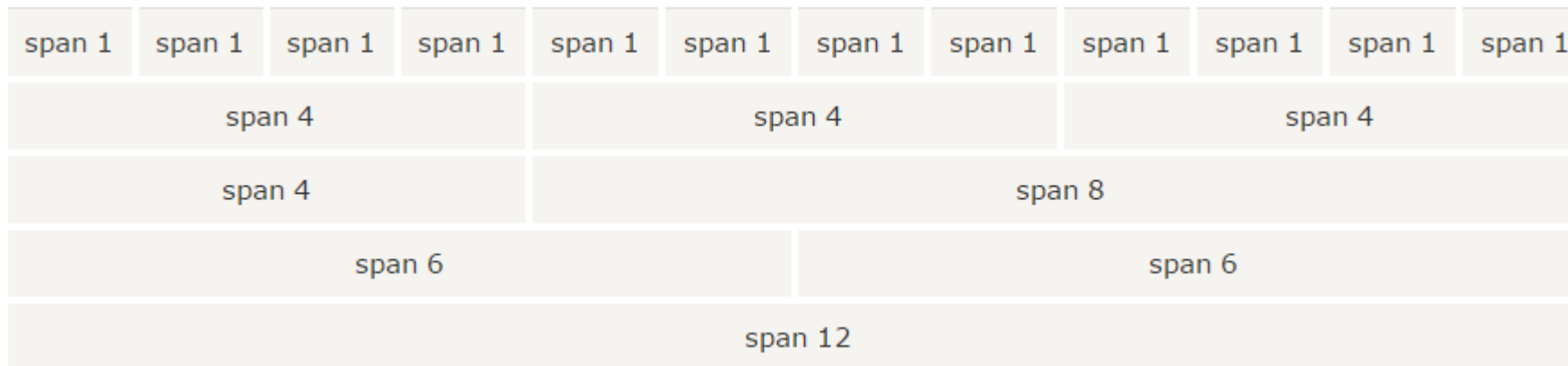
► Example

```
<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>
```



Grid System

- ▶ Bootstrap divides a page into a grid of 12 columns and multiple rows for easier positioning of elements.
- ▶ Grid system is responsive and columns will rearrange automatically depending on the screen size.



Grid System - Basics

- ▶ Place columns inside `<div class="row"></div>` for each row.
- ▶ Set each column width using class prefixes:
 - ▶ `.col-xs-*`, `.col-sm-*`, `.col-md-*`, `.col-lg-*`

Example

Create a row of columns of width 3, 4, and 5.

```
<div class="row show-grid">  
  <div class="col-md-3">.col-md-3</div>  
  <div class="col-md-4">.col-md-4</div>  
  <div class="col-md-5">.col-md-5</div>  
</div>  
....
```

.col-md-3	.col-md-4	.col-md-5
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Example

Allow 2 columns in a row for mobile, 3 for desktop

```
<div class="row show-grid">  
  <div class="col-xs-6 col-md-4">.col-xs-6 .col-md-4</div>  
  <div class="col-xs-6 col-md-4">.col-xs-6 .col-md-4</div>  
  <div class="col-xs-6 col-md-4">.col-xs-6 .col-md-4</div>  
</div>
```

On Desktop:

.col-xs-6 .col-md-4	.col-xs-6 .col-md-4	.col-xs-6 .col-md-4
---------------------	---------------------	---------------------

On Mobile:

.col-xs-6 .col-md-4	.col-xs-6 .col-md-4
.col-xs-6 .col-md-4	

Typography - Headings

Supports `<h1>` to `<h6>`, same as HTML

EXAMPLE

h1. Bootstrap heading	Semibold 36px
-----------------------	---------------

h2. Bootstrap heading	Semibold 30px
-----------------------	---------------

h3. Bootstrap heading	Semibold 24px
-----------------------	---------------

h4. Bootstrap heading	Semibold 18px
-----------------------	---------------

h5. Bootstrap heading	Semibold 14px
-----------------------	---------------

h6. Bootstrap heading	Semibold 12px
-----------------------	---------------

Typography - Alignment

EXAMPLE

Left aligned text.

Center aligned text.

Right aligned text.

Justified text.

```
<p class="text-left">Left aligned text.</p>  
<p class="text-center">Center aligned text.</p>  
<p class="text-right">Right aligned text.</p>  
<p class="text-justify">Justified text.</p>
```

Typography - Description

EXAMPLE

Description lists

A description list is perfect for defining terms.

Euismod

Vestibulum id ligula porta felis euismod semper eget lacinia odio sem nec elit.

Donec id elit non mi porta gravida at eget metus.

Malesuada porta

Etiam porta sem malesuada magna mollis euismod.

```
<dl>
  <dt>...</dt>
  <dd>...</dd>
</dl>
```

Forms

- ▶ Automatically applies some global styling with Bootstrap.

Layouts supported by Bootstrap

- ▶ Vertical Form
- ▶ Horizontal Form
- ▶ Inline Form

- ▶ Tips on using forms with Bootstrap

- ▶ `<form role="form">`
- ▶ `<div class="form-group">`
- ▶ `.form-control`

Improves accessibility

Improves spacing of form elements

Give width of 100% to text form elements

Forms - Vertical Layout

Email:

Password:

☐ Remember me

```
<form role="form">
  <div class="form-group">
    <label for="email">Email address:</label>
    <input type="email" class="form-control" id="email">
  </div>
  <div class="form-group">
    <label for="pwd">Password:</label>
    <input type="password" class="form-control" id="pwd">
  </div>
  <div class="checkbox">
    <label><input type="checkbox"> Remember me</label>
  </div>
  <button type="submit" class="btn btn-default">Submit</button>
</form>
```

Forms - Inline Layout

Email: Password: ☐ Remember me

```
<form class="form-inline" role="form">
  <div class="form-group">
    <label for="email">Email address:</label>
    <input type="email" class="form-control" id="email">
  </div>
  <div class="form-group">
    <label for="pwd">Password:</label>
    <input type="password" class="form-control" id="pwd">
  </div>
  <div class="checkbox">
    <label><input type="checkbox"> Remember me</label>
  </div>
  <button type="submit" class="btn btn-default">Submit</button>
</form>
```

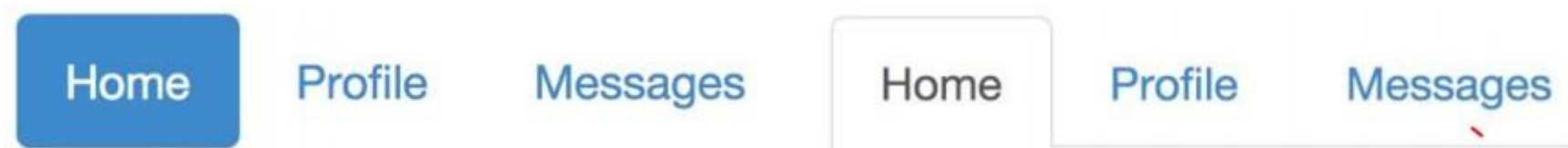
Forms - Controls

Supports HTML form elements

- ▶ `<input>`
- ▶ `<textarea>`
- ▶ `<input type="checkbox">`
- ▶ `<input type="radio">`
- ▶ `<select>`
- ▶ ...

Navigation & Navigation Bars

- Navigation (nav)



- Navigation Bar (navbar)



Navigation (nav)

- ▶ Use unordered list and give `.nav` class attribute.
- ▶ Example

Page 1 Page 2 Page 3

Makes navigation inline, horizontal

```
<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 Modifiers

```
<ul class='nav nav-pills'>...</ul>
```

Tickets

Stations

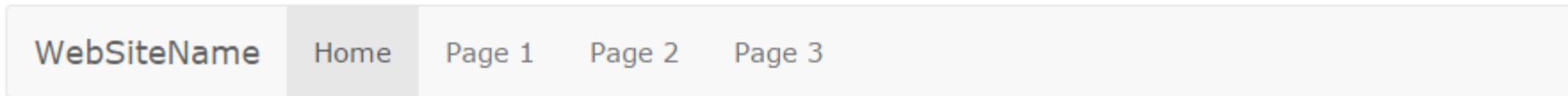
```
<ul class='nav nav-tabs'>...</ul>
```

Tickets

Stations

Navigation Bar (.navbar)

- ▶ Creates a visible bar with navigation elements.
- ▶ Example



```
<body>
<nav class="navbar navbar-default">
  <div class="container-fluid">
    <div class="navbar-header">
      <a class="navbar-brand" href="#">WebSiteName</a>
    </div>
    <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>
  </div>
</nav>
```

Resources

- ▶ Go over <http://getbootstrap.com/getting-started/#examples>
- ▶ Playground for bootstrap <http://www.bootply.com/>