

Today on Web Development

- What is bootstrap?
- Features
- How to start
- The Grid layout
- Components
- Customization

What is Bootstrap?

- Bootstrap is a free and open source front-end framework-collection of tools.
- Bootstrap includes HTML and CSS based design templates.
- Responsive design

History

- Was developed by Mark Otto and Jacob Thornton at Twitter
- Twitter Blueprint -> Twitter Bootstrap -> Bootstrap
- First release on August 19, 2011.
- Last release - Bootstrap 4 on August 19, 2015
- As of June 2013 1% of all websites are powered by Bootstrap

Features

- CSS resetting for cross browser compability
- Grid scaffolding for design
- Multi-screen support (responsive design)
- Good looking UI framework

How to add Bootstrap?

- Download .css file -> <http://getbootstrap.com>
- Use CDN (content delivery network) -> <https://www.bootstrapcdn.com/>

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page title</title>
    <link href="//netdna.bootstrapcdn.com/bootstrap/3.0.0/css/bootstrap.min.css" rel="stylesheet">
    <script src="//netdna.bootstrapcdn.com/bootstrap/3.0.0/js/bootstrap.min.js"></script>
    <meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=no">
  </head>
  <body>
    <!-- page content goes here -->
  </body>
</html>
```

Explanation

- **Better use CDN**
- The `<link>` tag loads the CSS
- The `<script>` tag loads additional JavaScript capabilities of the Bootstrap framework
- The `<meta>` tag is for smaller devices which have a viewport, and it disables zooming so that the responsive features of Bootstrap will kick in

Important!

- Add the HTML5 doctype
- `<meta name="viewport" content="width=device-width, initial-scale=1">`
- Container

The grid layout



					col-md-12					
		col-md-6					col-md-6			
	col-md-4			col-md-4				col-md-4		
col-md-2	col-md-2	col-md-2	col-md-2	col-md-2	col-md-2	col-md-2	col-md-2	col-md-2	col-md-2	
	col-md-4					col-md-8				

The Grid

How to write pages using grid:

<!-- every row must have 12 columns -->

<div class="row">

<div class="col-md-4">

<!-- content -->

</div>

<!-- need to complete 8 more columns -->

</div>

The Grid

Saturs 1

Saturs 2

Saturs 3

```
<div class="row">  
  <div class="col-md-4">Saturs 1</div>  
  <div class="col-md-4">Saturs 2</div>  
  <div class="col-md-4">Saturs 3</div>  
</div>
```

The Grid

Bootstrap 3 features an always-responsive grid with a maximum size:

- `.col-xs-[num]` grids have no maximum size (fluid)
- `.col-sm-[num]` grids resize up to 750px
- `.col-md-[num]` grids resize up to 970px
- `.col-lg-[num]` grids resize up to 1170px

You should choose `col-md` or `col-lg` for desktop sites.

Components

Normal text field

Focused text field



Normal

Primary

Info

Success

Warning

Danger


Inverse



Bennie Moran

Developer



 Login Panel

 Register Panel

 Forgot Password

 Contact

 Login Here

 Social

Username

Password

[? Forgot Password](#)

☒ Remember Me



glyphicon
glyphicon-
headphones



glyphicon
glyphicon-
volume-off



glyphicon
glyphicon-
volume-down



glyphicon
glyphicon-
volume-up

Components

- Glyphicons
- Dropdowns
- Button Groups
- Button Dropdowns
- Input groups
- Navs
- Navbar
- Pagination
- Progress bars
- ... Paraugs tabula, Paraugs poga, Paraugs Dropdown, Paraugs Karuselis

Tables

```
<table class="table table-striped table-bordered">  
<thead>  
<th><td>Name</td><td>Age</td></th>  
</thead>  
<tbody>  
<tr><td>Alice</td><td>20</td></tr>  
<tr><td>Bob</td><td>25</td></tr>  
</tbody>  
</table>
```

Forms

```
<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>
```

Buttons

- Buttons can either be button elements, links or input elements. They will all look like buttons.
- For simple links, use the <a> element and add button styling if needed.
- For forms or dynamic buttons, use the button element.

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

```
<h2>Buttons</h2>
```

```
<a href="http://www.va.lv" class="btn btn-info btn-lg" role="button">Link Button</a>
```

```
<button type="button" class="btn btn-warning btn-md">Button</button>
```

```
<input type="button" class="btn btn-danger btn-sm" value="Input Button">
```

```
<input type="submit" class="btn btn-default btn-xs" value="Submit Button">
```

```
</div>
```


Glyphicons

- Bootstrap provides 260 glyphicons
- Glyphicons can be used in text, buttons, toolbars, navigation, forms, etc.

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

```
<h2>Glyphicon Examples</h2>
```

```
<p>Print icon: <span class="glyphicon glyphicon-print"></span></p>
```

```
<p>Print icon on a styled link button:
```

```
<a href="#" class="btn btn-success btn-lg">
```

```
<span class="glyphicon glyphicon-print"></span> Print
```

```
</a>
```

```
</p>
```

```
</div>
```

Glyphicon Examples

Print icon: 

Print icon on a styled link button:

 Print

Customization

- You can customize the CSS yourself (not recommended)
- You can use LESS to compile bootstrap CSS version on your own -> <http://getbootstrap.com/customize/>
- You can just download a customized version <http://bootswatch.com>

GO TO THE MISSION No.3

