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# What is Bootstrap?

- Bootstrap is a free front-end framework (HTML and CSS) for faster and easier web development
- Bootstrap is famous for being developed with components that have the ability to follow the property of responsive designs
  - Responsive Design is about using CSS and HTML to resize, hide, shrink, enlarge, or move the content to make it look good on any screen
  - Responsive Design allow your page works for computer, tablets and mobile phones.

# What is Bootstrap?

 In other words, bootstrap is a collection of CSS classes and JavaScript functions the you get ready to use and will not worry about write code like this:

```
.glyphicon {
    position: relative;
    top: 1px:
    display: inline-block;
    font-family: 'Glyphicons Halflings';
    font-style: normal;
    font-weight: 400;
    line-height: 1;
    -webkit-font-smoothing: antialiased;
    -moz-osx-font-smoothing: grayscale
}
(jQuery), +function(a) {
   "use strict";
   function b(b) {
        return this.each(function() {
            var c = a(this),
                 e = c.data("bs.alert");
            e || c.data("bs.alert", e = new d(this)), "string" == typeof b && e[b].call(c)
        })
   }
   var c = '[data-dismiss="alert"]',
        d = function(b) {
            a(b).on("click", c, this.close)
        };
```

# First Bootstrap Page

 Include the HTML5 doctype at the beginning of the page, along with the lang attribute and the correct character set

# First Bootstrap Page

- Meta viewport tag ensure proper rendering and touch zooming
- Width of the page to follow the screen-width of the device and initial zoom level to default zoom level of device
- User will have a better experience, thus will not need zoom the page to view page information

# First Bootstrap Page

- You will need to include three files:
  - bootstrap.min.css
  - jquery.min.js
  - bootstrap.min.js
- You must download it and include in you page
- For this example, we include from the Internet

```
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.1.1/jquery.min.js"></script>
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></scr
```

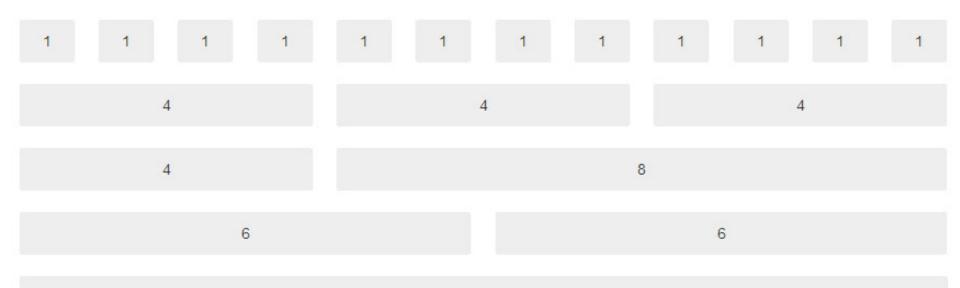
# First Bootstrap Page

 Bootstrap has a concept of containing element to wrap site contents

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

# **Bootstrap Grids**

- Bootstrap's grid system allows up to 12 columns across the page
- You can divide the container in rows and each row in columns with space multiple of the 12



12

# **Bootstrap Grids**

- In the bellow example, we divide the space inside the container in 1 row and this row in 3 columns with the same side. 4+4+4=12
- You can use any combination that the sum be equal to 12.

```
<div class="container">
    <h1>Bootstrap Grid</h1>
    <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 class="col-sm-4">.col-sm-4</div>
        </div>
    </div>
</div>
```

# **Bootstrap Grids**

Responsive Bootstrap's grid system with 3 columns

small screens

**Bootstrap Grid** 

.col-sm-4

.col-sm-4

.col-sm-4

big screens

**Bootstrap Grid** 

.col-sm-4

.col-sm-4

.col-sm-4

# **Bootstrap Table**

- 4 main classes:
  - · .table
  - .table-striped
  - .table-bordered
  - .table-hover
- 5 contextual classes:
  - .active
  - .success
  - .info
  - .warning
  - .danger

#### **Bootstrap Tables**

```
<div class="container">
<h1>Bootstrap Table</h1>
<thead>
  Firstname
   Lastname
   Email
  </thead>
 John
   Doe
   john@example.com
  Joseph
   Saints
   joseph@example.com
  Mary Help
   Saints
   mary@example.com
  </div>
```

### **Bootstrap Tables**

# **Bootstrap Table**

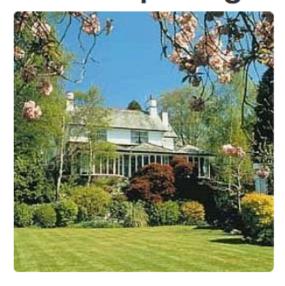
Firstname	Lastname	Email
John	Doe	john@example.com
Joseph	Saints	joseph@example.com
Mary Help	Saints	mary@example.com

# **Bootstrap Images**

- 3 main classes:
  - . img-rounded
  - . img-circle
  - . img-thumbnail

# **Bootstrap Images**

#### **Bootstrap Images**







### **Bootstrap Alerts**

- Bootstrap provides an easy way to create predefined alert messages
- Alerts are created with the .alert class, followed by one of the four contextual classes
- alert-success
- · .alert-info
- .alert-warning
- .alert-danger

# **Bootstrap Alerts**

```
<div class="container">
 <h1>Bootstrap Alerts</h1>
 <div class="alert alert-success">
     <strong>Success!</strong> Indicates a successful or positive action.
   </div>
   <div class="alert alert-info">
     <strong>Info!</strong> Indicates a neutral informative change or action.
   </div>
   <div class="alert alert-warning">
     <strong>Warning!</strong> Indicates a warning that might need attention.
   </div>
   <div class="alert alert-danger">
     <strong>Danger!</strong> Indicates a dangerous or potentially negative action.
   </div>
</div>
```

# **Bootstrap Alerts**

# **Bootstrap Alerts**

Success! Indicates a successful or positive action.

Info! Indicates a neutral informative change or action.

Warning! Indicates a warning that might need attention.

Danger! Indicates a dangerous or potentially negative action.

#### **Bootstrap Buttons**

- Bootstrap provides seven styles of buttons:
- To achieve the button styles above, Bootstrap has the following contextual classes:
  - .btn-default
  - .btn-primary
  - .btn-success
  - .btn-info
  - .btn-warning
  - .btn-danger
  - .btn-link

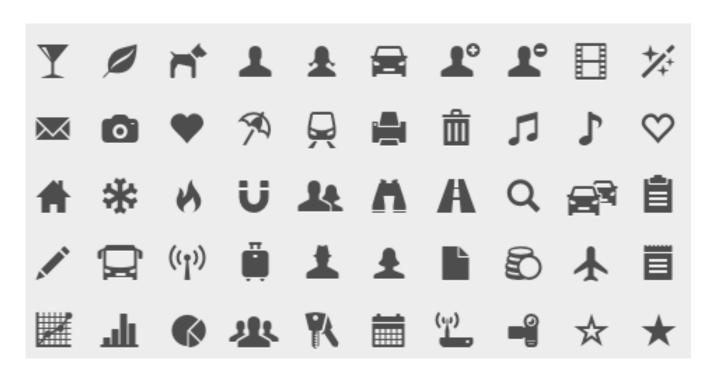
#### **Bootstrap Buttons**

#### **Bootstrap Button**

Default Primary Success Info Warning Danger Link

# **Bootstrap Glyphicons**

- Bootstrap provides 260 glyphicons from the Glyphicons Halflings set
- (http://getbootstrap.com/components/)



### **Bootstrap Glyphicons**

```
<div class="container">
  <h1>Bootstrap qlyphicon</h1>
    Simple Span:
       <span class="glyphicon glyphicon-check"></span>
   Default button with icon:
       <button type="button" class="btn btn-default"> Play
           <span class="glyphicon glyphicon-play"></span>
       </button>
   Search icon on a styled button:
       <button type="button" class="btn btn-info">
           <span class="glyphicon glyphicon-search"></span> Search
       </button>
   Link with icon:
       <a href="#" class="btn btn-success btn-lq">
           <span class="glyphicon glyphicon-print"></span> Print
       </a>
   </div>
```

# **Bootstrap Glyphicons**

# Bootstrap glyphicon

Simple Span: 🗹

Default button with icon:



Search icon on a styled button:



Link with icon:



#### **Bootstrap Labels**

- Labels are used to provide information about something
- Bootstrap create labels with colorful backgrounds to highlight the text inside de label
- Use the .label class, followed by one of the six contextual classes .label-default, .labelprimary, .label-success, .label-info, .label-warning or .label-danger

#### **Bootstrap Labels**

```
<div class="container">
   <h1>Bootstrap Label</h1>
    <span class="label label-default">Default Label</span>
    <span class="label label-primary">Primary Label</span>
    <span class="label label-success">Success Label</span>
    <span class="label label-info">Info Label</span>
    <span class="label label-warning">Warning Label</span>
    <span class="label label-danger">Danger Label</span>
```

#### Bootstrap Label

Default Label

Primary Label Success Label

Info Label

Warning Label Danger Label

### **Bootstrap Panels**

- A panel in bootstrap is a bordered box with some padding around its content that can be use to highlight or separated some information
- Like other bootstrap elements panel has contextual classes also (.panel-default, .panel-primary, .panelsuccess, .panel-info, .panel-warning, or .paneldanger)

#### **Bootstrap Panels**

#### **Bootstrap Panel**

Panel Heading

Panel Content

Panel Footer

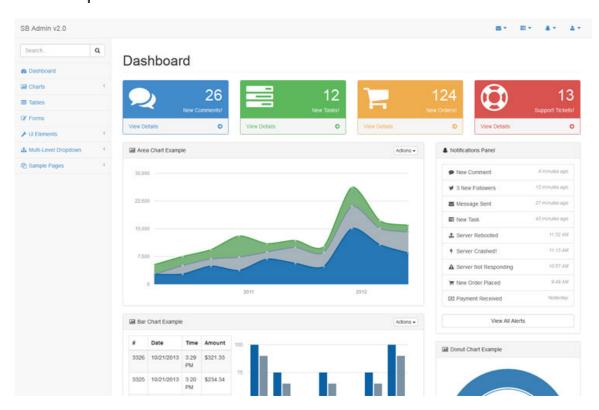
# **Bootstrap Themes and Templates**

- You can find several templates e themes free to download
  - A theme consists of customized CSS
  - A template consists of one or more predesigned HTML pages, which often make use of a theme
- Both are collection of bootstrap elements (grids, buttons, panels), put together for someone, until have a fully functional website or web application.
- You can find some free templates here:

https://startbootstrap.com/template-categories/all/

#### **Bootstrap Themes and Templates**

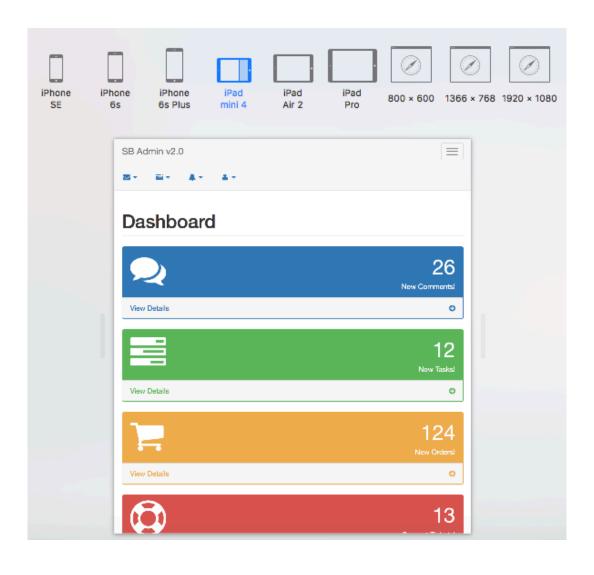
 For web application SB Admin 2 template is appropriate. It has forms, tables, charts and other useful components



### **Bootstrap Themes and Templates**

- Download SB Admin 2 template for your computer and open the /pages/index.html in your web browser
- Start to customize it, instead write you application design from scratch

# **Bootstrap Themes and Templates**



#### References

 w3schools. Bootstrap 3 Tutorial. https:// www.w3schools.com/bootstrap/

#### Source Code

https://github.com/jadsonjs/bootstrap