

ISS | Monsoon 2021

### 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
}
```

### First Bootstrap Page

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

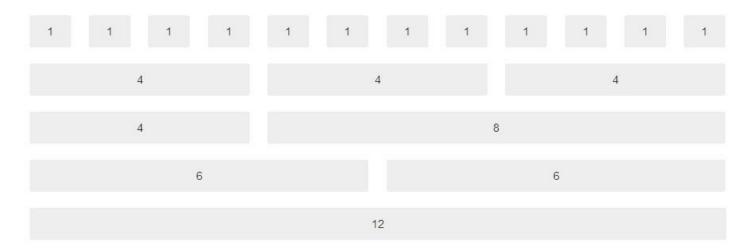
### First Bootstrap Page

- 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

```
<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
```

### **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



# **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 17
<a href="https://div.class="container">
<a href="https://div.class="col-sm-4">
<a href="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.class="https://div.c
```

# **Bootstrap Grids**

Responsive Bootstrap's grid system with 3

Comamscreens

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**

```
<div class="container">
    <h1>Bootstrap Button</h1>

    <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-danger">Danger</button>
        <button type="button" class="btn btn-link">Link</button>
</div>
</div>
```

#### **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 Glyphicons4r5

```
<div class="container">
 <h1>Bootstrap glyphicon</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: Play ▶

Search icon on a styled button: Q Search

Link with icon: Print

### **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, .label
  - primary, .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, .panel- success, .panel-info, .panel-warning, or .panel- danger)

### **Bootstrap Panels**

#### **Bootstrap Panel**

Panel Heading

Panel Content

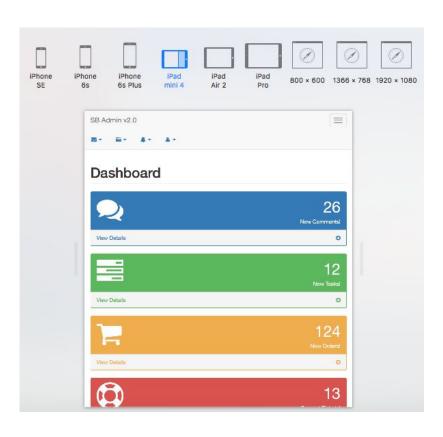
Panel Footer

- 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/al

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



- 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



#### References

w3schools. Bootstrap 3 Tutorial. https://

www.w3schools.com/bootstrap/