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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.

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>

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

https://getbootstrap.com/docs/4.4/examples/grid/#containers

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 Grid Classes

The Bootstrap grid system has four classes:

- xs (for phones)
- sm (for tablets)
- md (for desktops)
- Ig (for larger desktops)
- The classes above can be combined to create more dynamic and flexible layouts.

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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

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

3ootstrap 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
  F-8-5
```

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 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

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

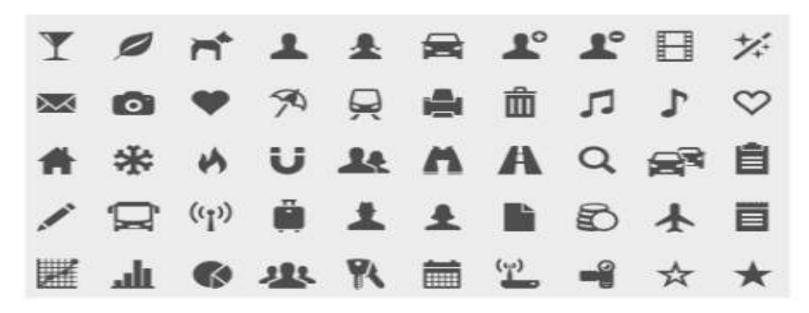
Bootstrap Buttons

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 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="qlyphicon glyphicon-search"></span> Search
       </button>
   Link with icon:
       <a href="#" class="btn btn-success btn-lg">
           <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, .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 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/