# **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 -> <a href="http://getbootstrap.com">http://getbootstrap.com</a>
- Use CDN (content delivery network) -> <u>https://www.bootstrapcdn.com/</u>

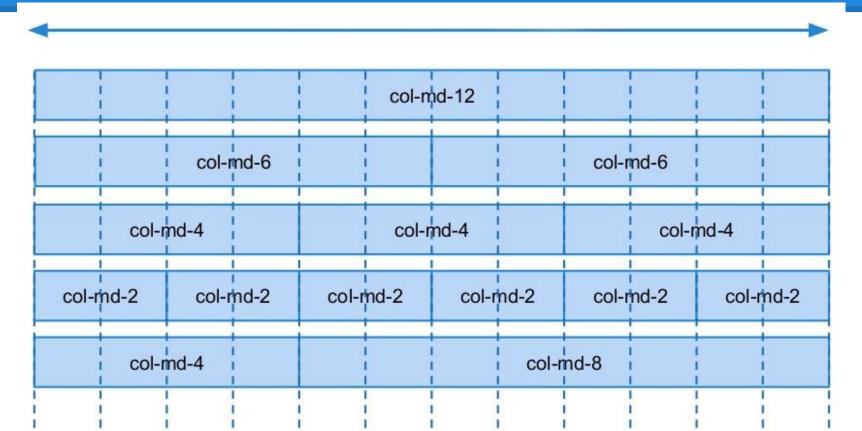
### **Explanation**

- 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 responsivefeatures of Bootstrap will kick in

### Important!

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

# The grid layout



#### 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>

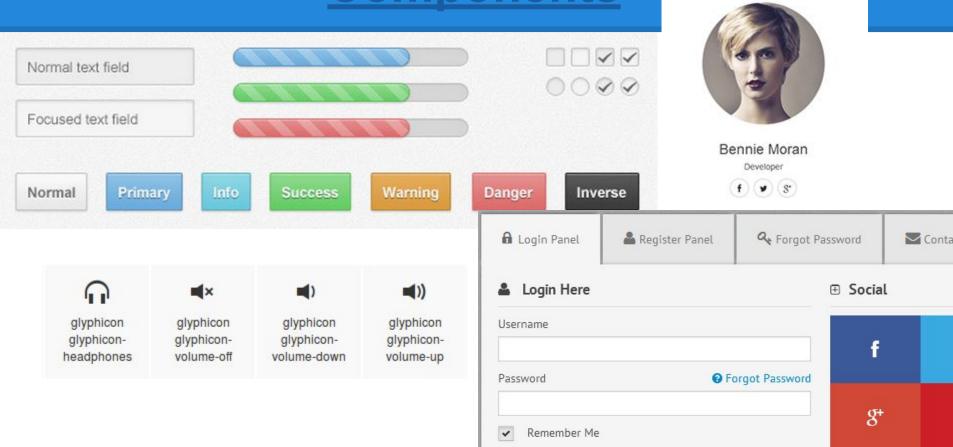
#### The Grid

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**



### **Components**

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

#### **Tables**

```
<thead>
NameAge
</thead>
Alice20
Bob
```

#### **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

</div>

Glyphicons can be used in text, buttons, toolbars, navigation, forms, etc.

```
<div class="container">
 <h2>Glyphicon Examples</h2>
 Print icon: <span class="glyphicon glyphicon-print"></span>
 Print icon on a styled link button:
    <a href="#" class="btn btn-success btn-lg">
    <span class="glyphicon glyphicon-print"></span> Print
    </a>
```

Glyphicon Examples

Print icon:

Print Print icon on a styled link button:

#### Customization

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

http://bootswatch.com

### GO TO THE MISSION No.3

