

# JS for Front-End

## Introduction to Bootstrap



**SoftUni Team**  
Technical Trainers



**Software  
University**



**SoftUni  
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**Software University**

<http://softuni.bg>

1. Introduction to Bootstrap
  - How to import Bootstrap?
2. Grid System
3. Theming Bootstrap
4. Components
5. Plugins



# Have a Question?

sli.do

**#JS-CORE**



# **Introduction to Bootstrap**

## **Build Responsive, Mobile-first Projects**

- World's **most popular** front-end component library
- **Open source** toolkit for developing with **HTML**, **CSS**, and **JS**
- Works with:
  - Responsive **grid system**
  - Extensive prebuilt **components**
  - Powerful plugins built on **jQuery**

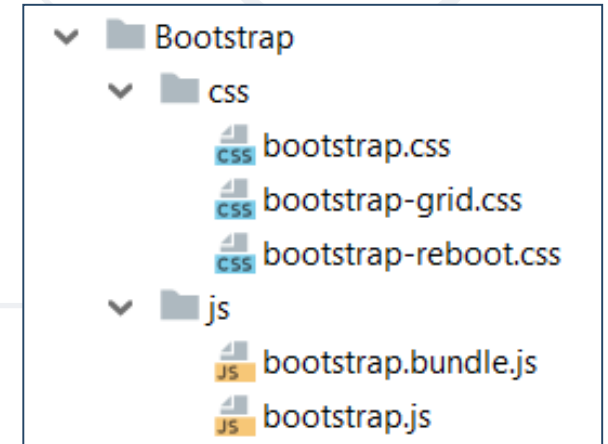
# How To Import Bootstrap

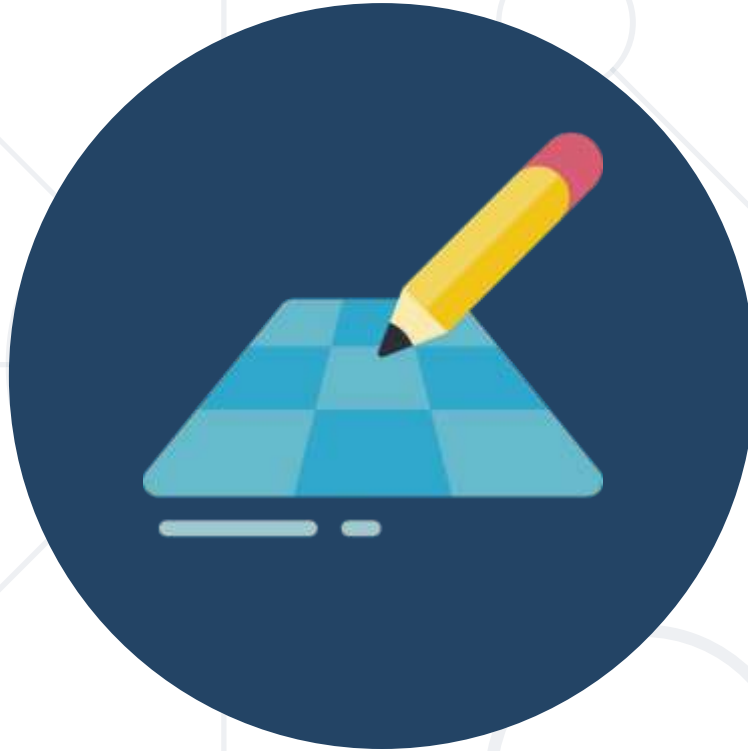
- Include from a [BootstrapCDN](#)
- Download Resources

```
<link rel="stylesheet"
href="../../../bootstrap/css/bootstrap.min.css"/>
```

```
<script src="../../../jquery/jquery.3.2.1.min.js">
</script>
```

```
<script src="../../../bootstrap/js/bootstrap.min.js">
</script>
```





# **Bootstrap Grid System**

## **Build Layouts with Grid**

# Bootstrap Grid System - Demo

index.html

Container

```
...  
<div class="container">  
  <div class="row">  
    <div class="col-xs m-3">Column one</div>  
    <div class="col-xs m-3">Column two</div>  
    <div class="col-xs m-3">Column three</div>  
  </div>  
</div>
```

Row

Columns

Column one    Column two    Column three



- Rows must be placed in **containers**
  - **.container** has one fixed width for each screen size (**xs, sm, md, lg**)
  - **.container-fluid** expands to fill the available width





# Theming Bootstrap

**Enable the Built-in Theme to Add Components**

- Bootswatch is a collection of open source themes for Bootstrap
- Usage
  - Download the **bootstrap.min.css** file
  - Replace Bootstrap's default stylesheet
  - Still include Bootstrap's JavaScript file to have functional dropdowns, modals, etc.

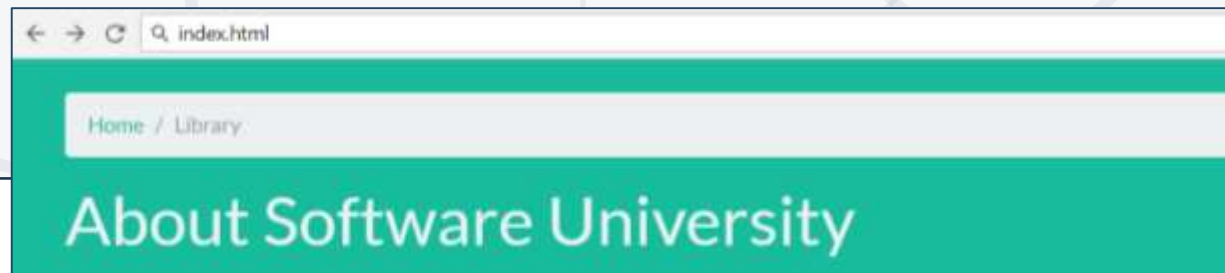


# **Bootstrap Components**

## **Over a Dozen Reusable Components**

- Indicate the current page's location within a navigational hierarchy

```
<body class="bg-success">
<div class="container m-4">
  <div class="page-header">
    <ol class="breadcrumb">
      <li class="breadcrumb-item"><a href="#">Home</a></li>
      <li class="breadcrumb-item active">Library</li>
    </ol>
    <h1 class="h1 text-light">About Software University</h1>
  </div>
</div>
</body>
```



- Custom button styles with support for multiple sizes, states, and more

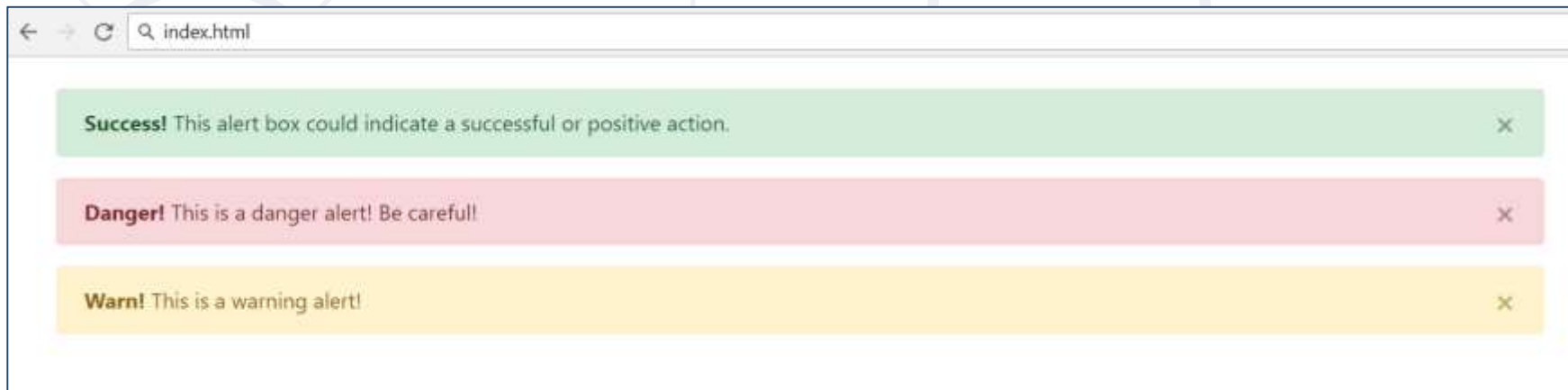
index.html

```
<button type="button" class="btn btn-primary">Primary</button>  
<button type="button" class="btn btn-secondary">Secondary</button>  
<button type="button" class="btn btn-success">Success</button>  
<button type="button" class="btn btn-danger">Danger</button>
```

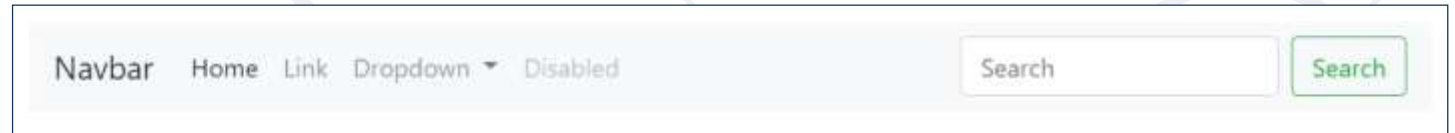


- Provide contextual feedback messages for typical user actions with the handful of **flexible alert messages**

```
<div class="alert alert-success alert-dismissible">  
  <a class="close" data-dismiss="alert" aria-label="close">x</a>  
  <strong>Success!</strong>  
  This alert box could indicate a successful or positive action.  
</div>  
...
```



- Require a wrapping **.navbar**
- Responsive by default
- Come with built-in support for a handful of **sub-components**
  - **.navbar-brand** for your company, product, or project name
  - **.navbar-nav** for a full-height and lightweight navigation
  - **.nav-item** for every item in navigation



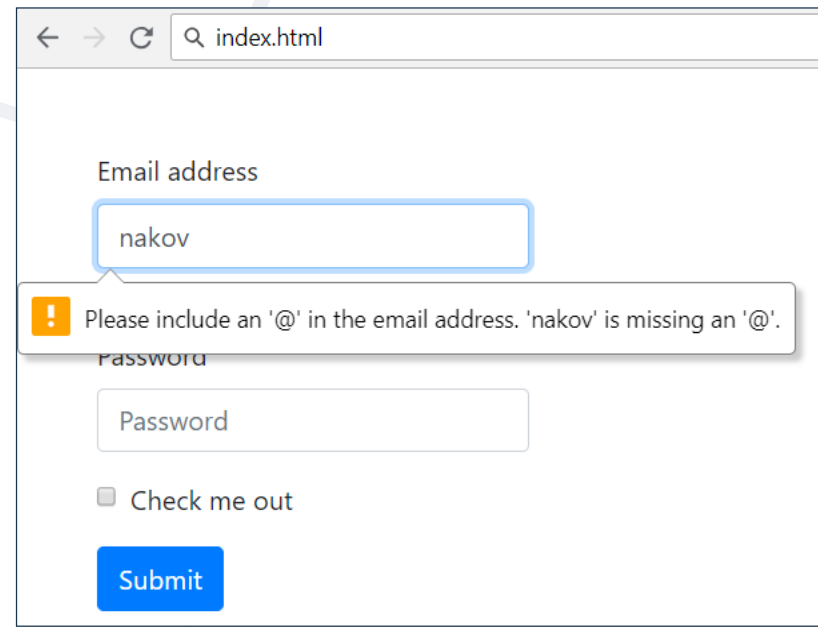
See more at: <https://getbootstrap.com/docs/4.1/components/navbar/>



```
<nav class="navbar navbar-expand-lg navbar-light bg-light">
  <div class="collapse navbar-collapse">
    <a class="navbar-brand">Logo</a>
    <ul class="navbar-nav mr-auto">
      <li class="nav-item">
        <a class="nav-link" href="#">Home</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">About</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Contact</a>
      </li>
    </ul>
  </div>
</nav>
```

Logo Home About Contact

- Control **styles**, **layout options** and custom components
- Use **type** attribute on all inputs to take advantage of newer input controls
- Email **verification**
- Number **selection**

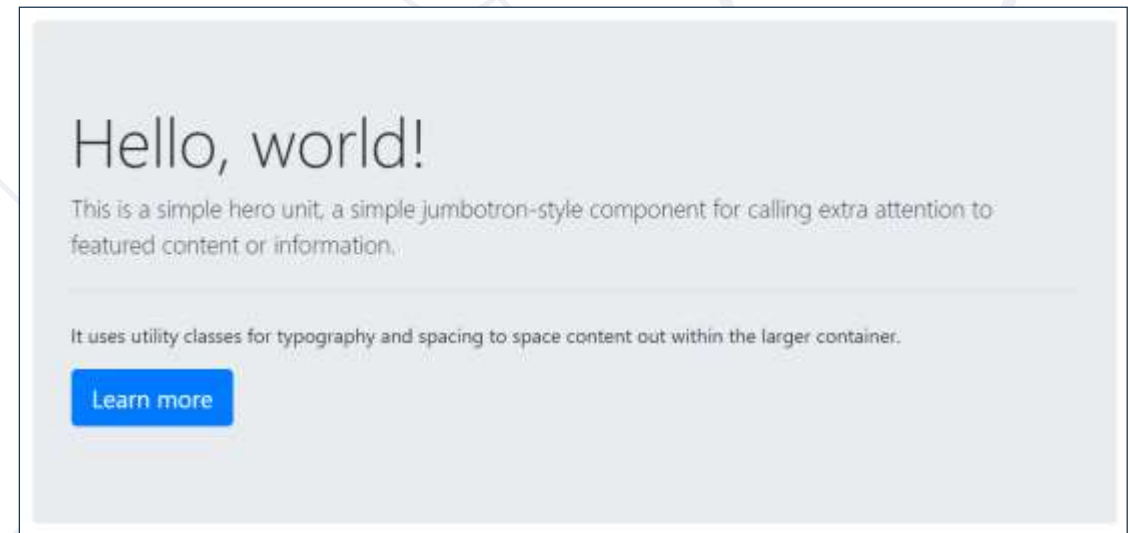


A screenshot of a web browser window showing a form titled "index.html". The form contains the following elements:

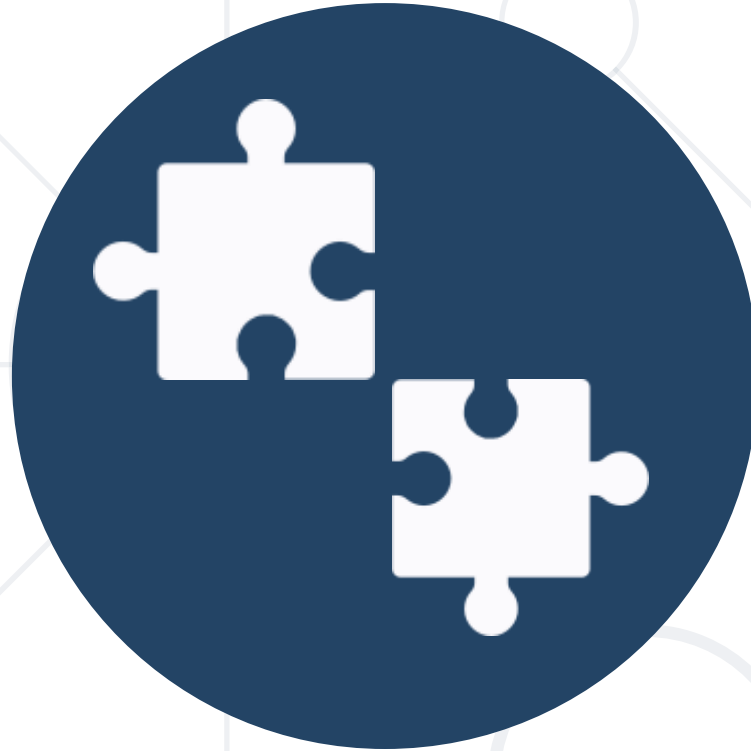
- An "Email address" label above a text input field containing the text "nakov".
- A red error message box with an exclamation mark icon, stating: "Please include an '@' in the email address. 'nakov' is missing an '@'."
- A "Password" label above a password input field.
- A checkbox labeled "Check me out".
- A blue "Submit" button.

- Lightweight, flexible component for showcasing hero unit style content

```
<div class="jumbotron">
  <h1 class="display-4">Hello,
world!</h1>
  <p class="lead">This is a ...</p>
  <hr class="my-4"><p>It uses ...</p>
  <p class="lead">
    <a class="btn btn-primary btn-lg">
      Learn more</a>
    </p>
</div>
```



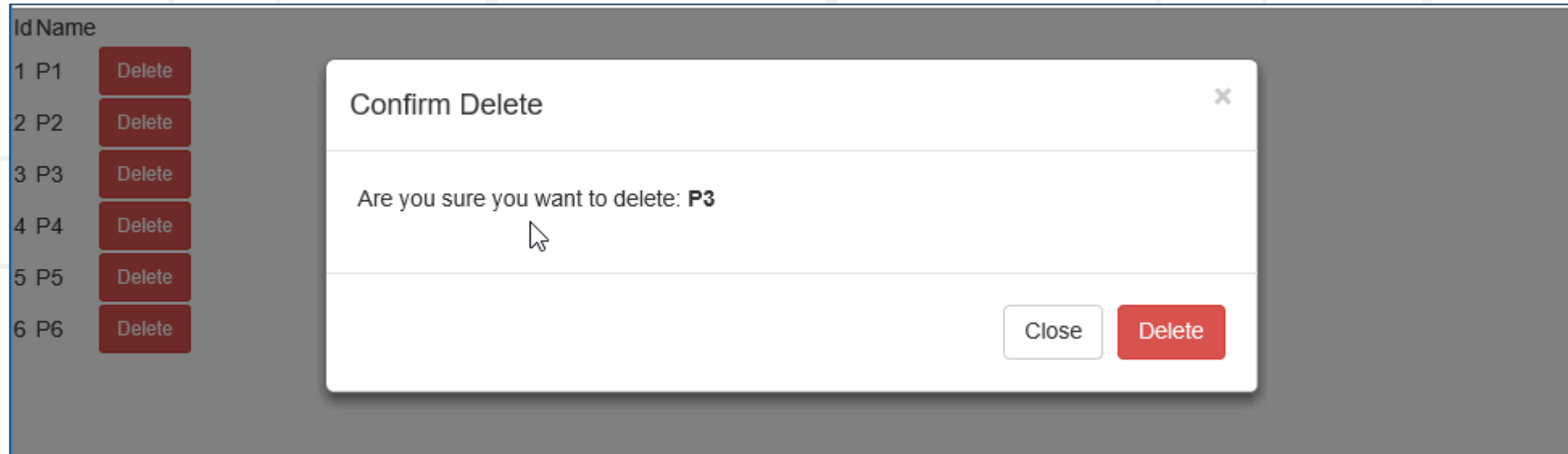
See more at: <https://getbootstrap.com/docs/4.0/components/jumbotron/>



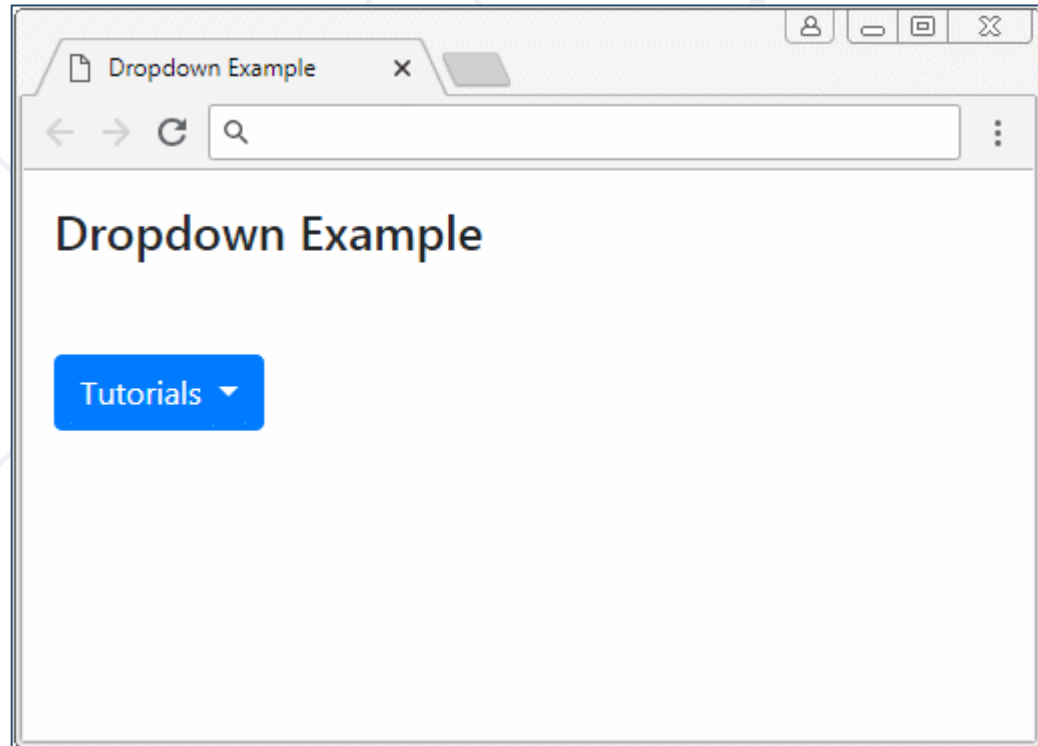
# **Bootstrap Plugins**

## **Components for Extending Bootstrap**

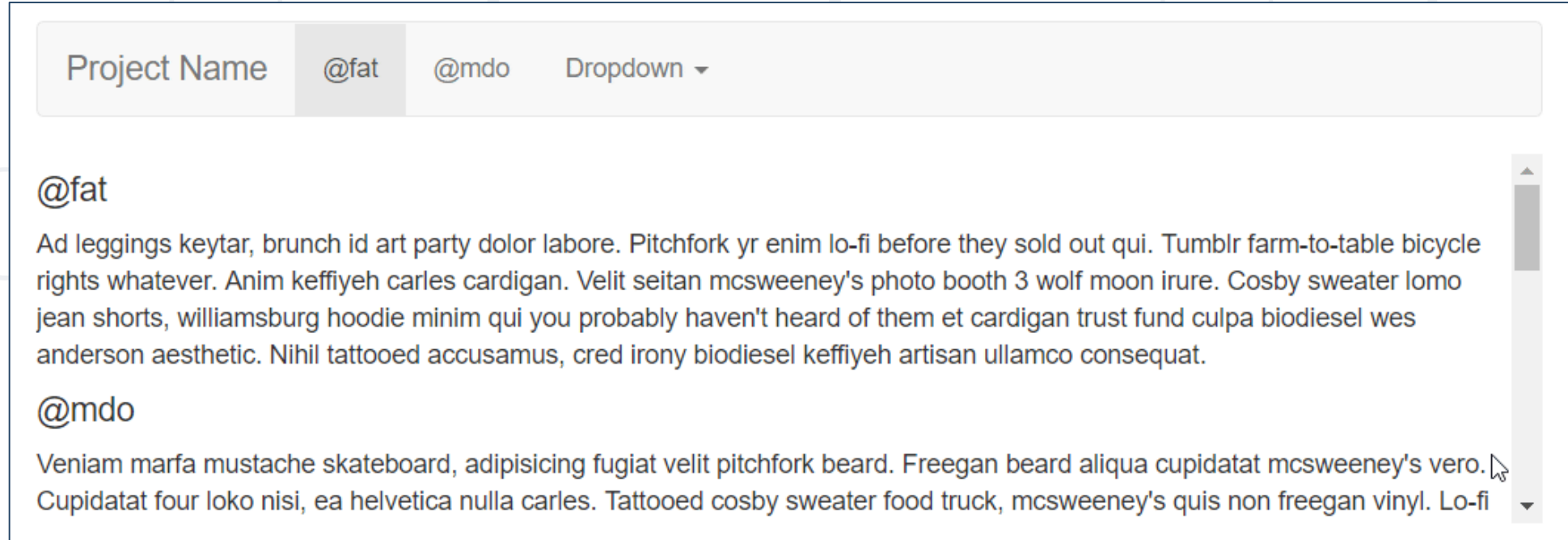
- Dialog **box/popup** window that is displayed on top of the current page



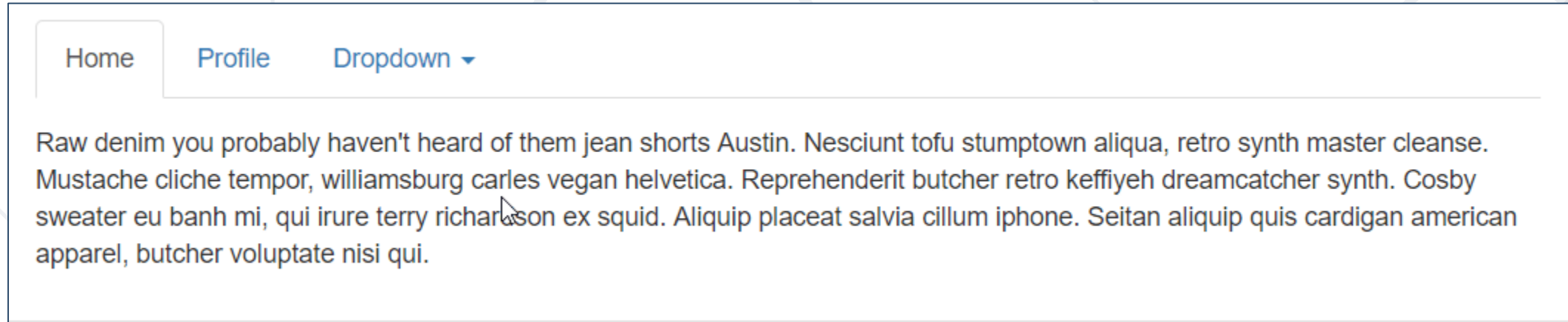
- **Graphical control element**, similar to a list box, that allows the user to choose one **value from a list**



- Automatically **updating** nav targets based on **scroll position**
  - Scroll the area below the navbar and watch the active class change



- Dynamic tab functionality to **transition** through tabs





- Utilizes a handful of classes for easy **toggle behavior**

Collapsible Group Item #1

Collapsible Group Item #2

Collapsible Group Item #3

Anim pariatur cliche reprehenderit, enim eiusmod high life accusamus terry richardson ad squid. 3 wolf moon officia aute, non cupidatat skateboard dolor brunch. Food truck quinoa nesciunt laborum eiusmod. Brunch 3 wolf moon tempor, sunt aliqua put a bird on it squid single-origin coffee nulla assumenda shoreditch et. Nihil anim keffiyeh helvetica, craft beer labore wes anderson cred nesciunt sapiente ea proident. Ad vegan excepteur butcher vice lomo. Leggings occaecat craft beer farm-to-table, raw denim aesthetic synth nesciunt you probably haven't heard of them accusamus labore sustainable VHS.

- Slideshow component for **cycling** through elements



- **Bootstrap** - the most popular HTML, CSS and JS **front-end** framework
- Responsive, mobile-first, prevailing
- Easy to use and to learn it
- Free and open source
- Simple Integration
- 12-column responsive grid
- **Cheatsheet** to Bootstrap components



# Questions?



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