

Bootstrap 3

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Alliance with  Education

1. What is Bootstrap?
2. How to import it?
3. How grid system works
4. Styling for the most used elements.

HTML Table

Alliance with  Education
index.html

```
<table>
  <tr>
    <th>Id</th>
    <th>Name</th>
    <th>Major</th>
  </tr>
  <tr>
    <td>1</td>
    <td>Bozhidar</td>
    <td>C# Web</td>
  </tr>
  ...
</table>
```

Table row

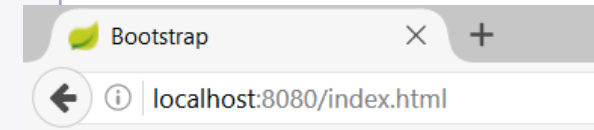
Table header

Table data

index.css

```
table {
  margin: 10px;
}

table, th, td {
  border: 1px
    solid
    black;
  border-collapse: collapse;
  padding: 2px;
}
```



Id	Name	Major
1	Bozhidar	C# Web
2	Teodor	Java Web

Bootstrap

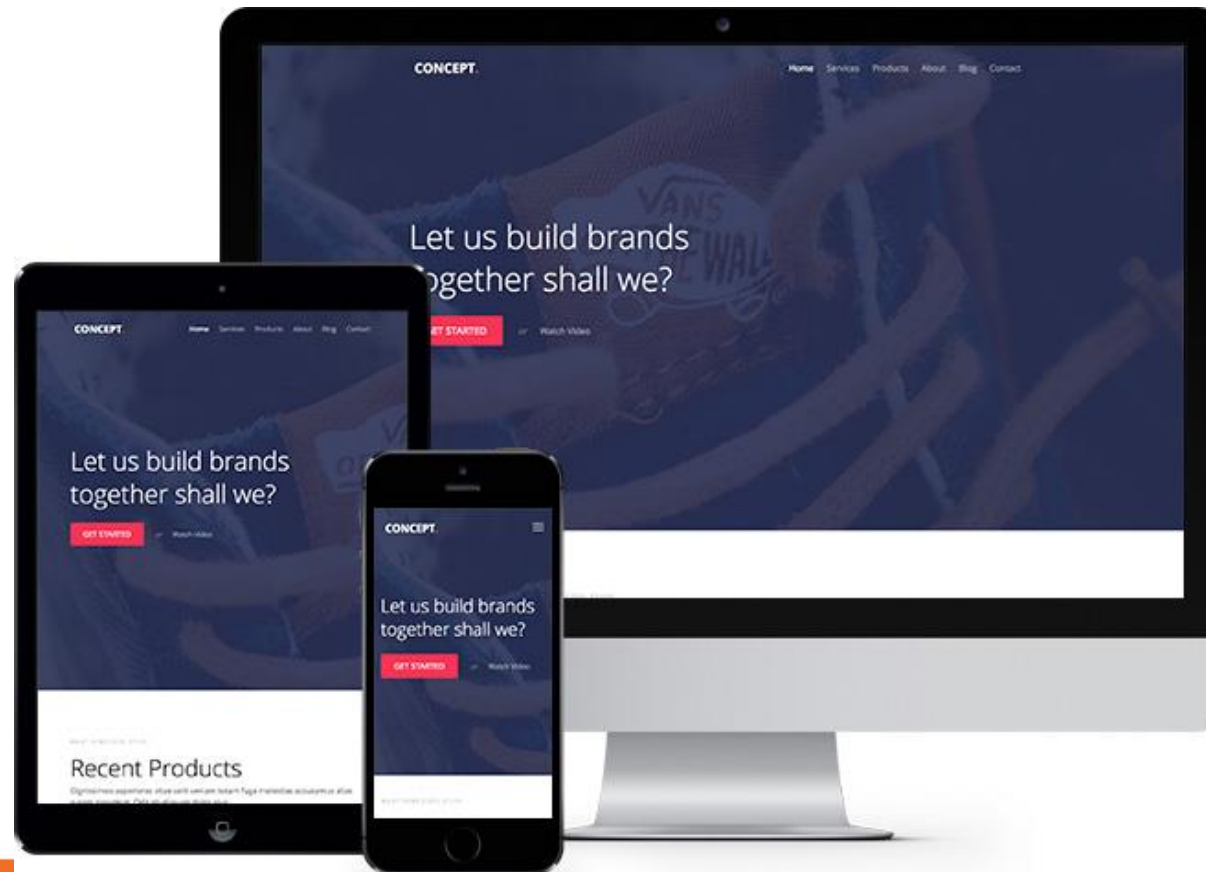


What is a Responsive Design?

- Presentation layers that adjust according to the screen size of the different devices



- Free front-end framework that provides capabilities to ensure responsive design



Bootstrap Import Option 1

```
<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" />
```

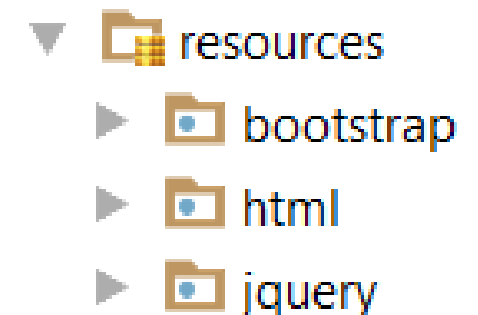
```
<script  
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/j  
s/bootstrap.min.js" />
```

Bootstrap Import Option 2

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

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

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



Grid System

- Bootstrap includes a responsive, mobile first fluid grid system that appropriately scales up to 12 columns

	Col 1	Col 2										Col 12
Row 1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1
Row 2	.col-md-8								.col-md-4			
Row 3	.col-md-4				.col-md-4				.col-md-4			
Row 4	.col-md-6						.col-md-6					

Grid System Demo

index.html

```
...
<div class="container-fluid">
  <div class="row">
    <div class="col-sm-4">Column one</div>
    <div class="col-sm-4">Column two</div>
    <div class="col-sm-4">Column three</div>
  </div>
</div>
...
```

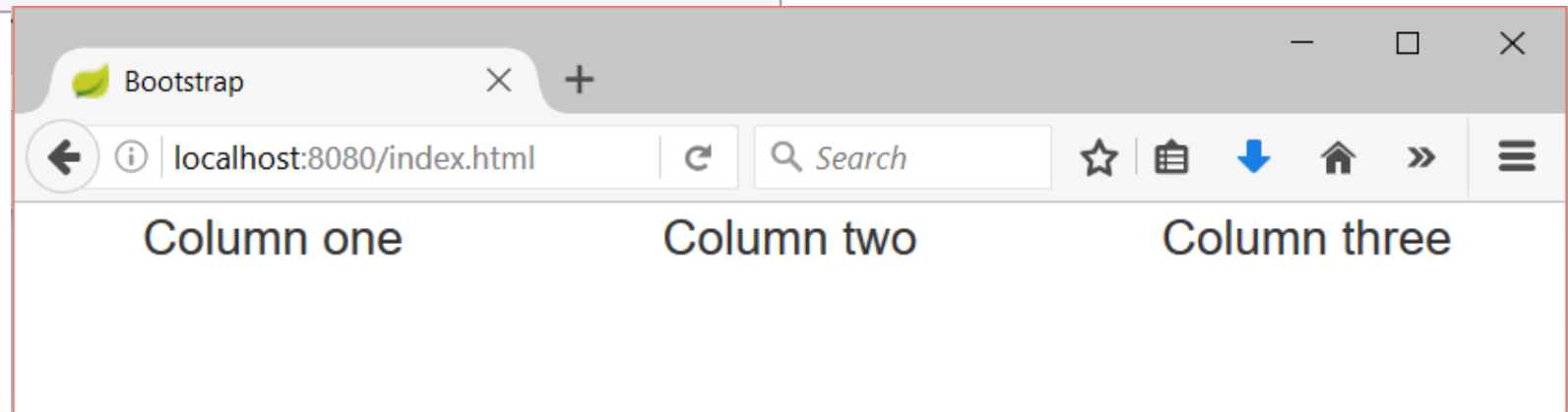
Container

Row

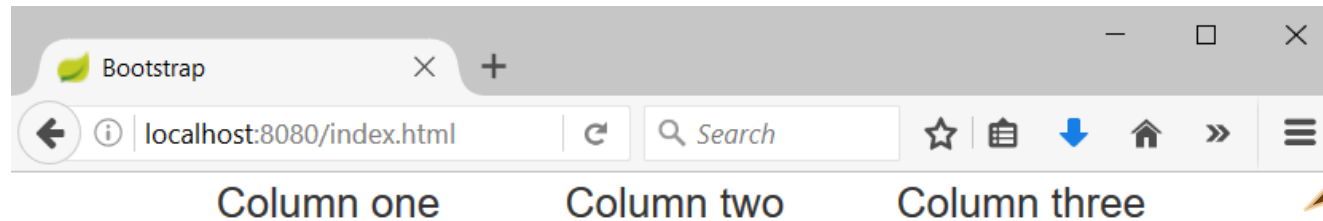
Columns

index.css

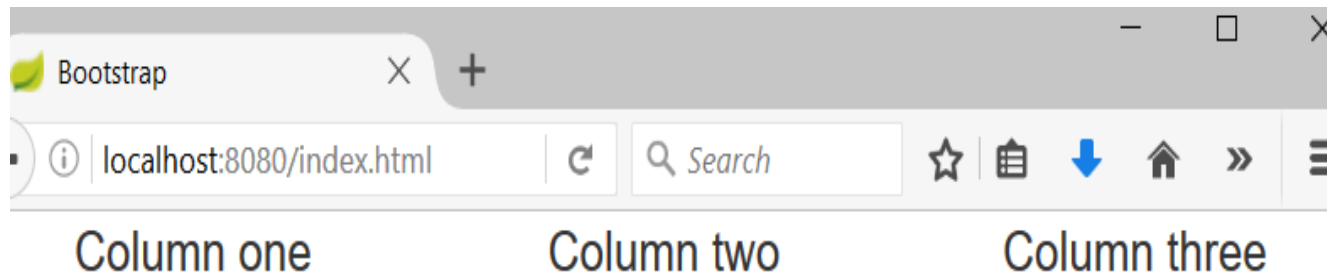
```
div {
  text-align: center;
}
```



- Rows must be placed in containers
 - .container is fixed-width



Leaves
margin



Full width,
no margins

- **Determines** how many columns **to use on** different screen

sizes

index.html

```
<div class="col-sm-8 col-lg-4">Column one</div>  
<div class="col-sm-2 col-lg-4">Column two</div>  
<div class="col-sm-2 col-lg-4">Column three</div>
```

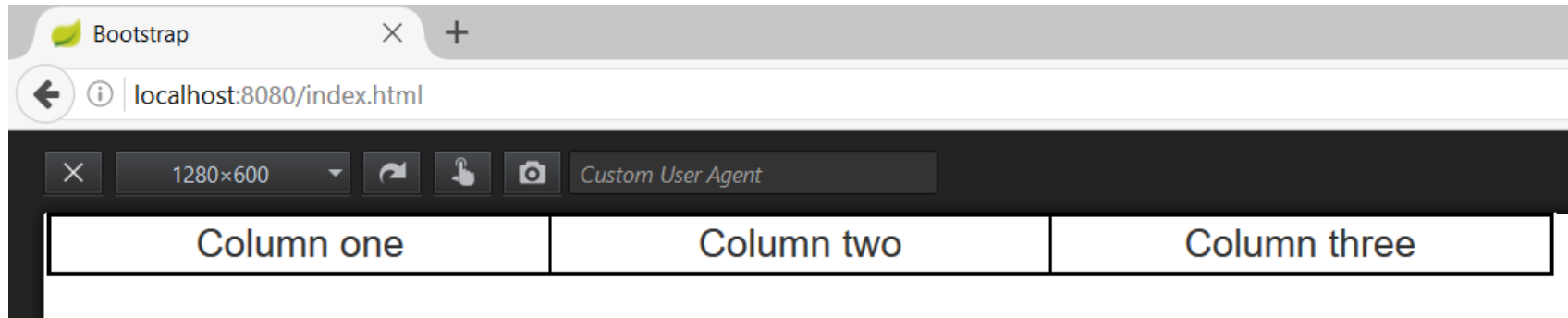
- .col-xs: Width Less than 768px
- .col-sm: Width Between 768px and 992px
- .col-md: Width Between 992px and 1200px
- .col-lg: Width Over 1200px

Column Classes (2)

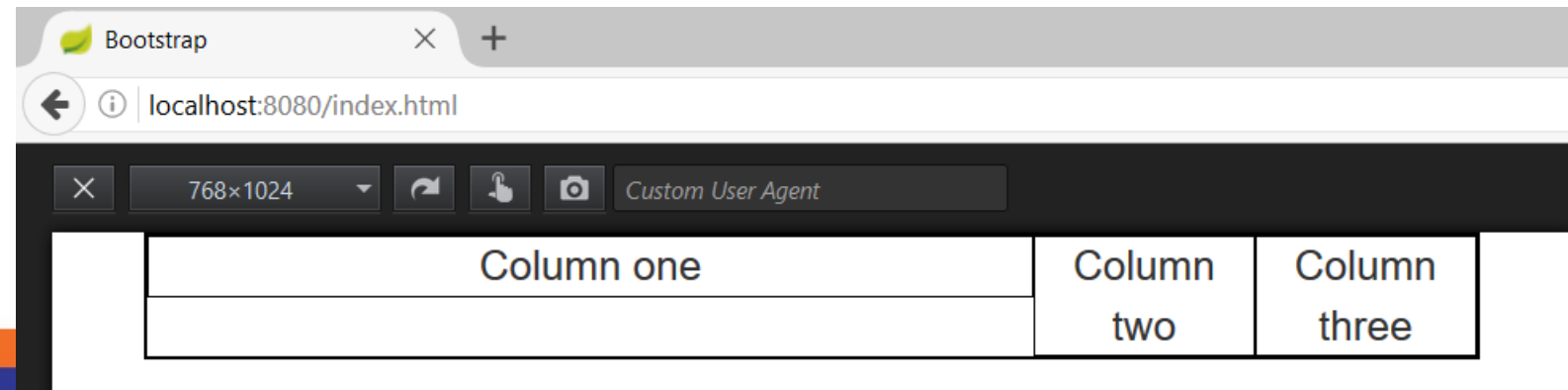
index.html

```
<div class="col-sm-8 col-lg-4">Column one</div>
<div class="col-sm-2 col-lg-4">Column two</div>
<div class="col-sm-2 col-lg-4">Column three</div>
```

Width
1280px



Width
768px



- Provide information about the role of the text

index.html

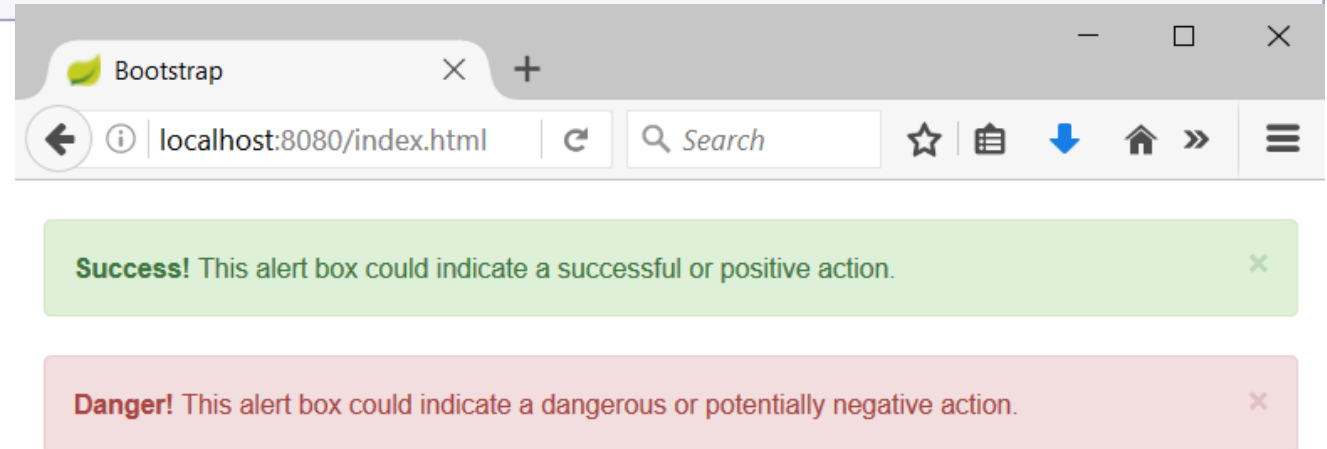
```
<p class="text-primary">This text is important.</p>
<p class="text-success">This text indicates success.</p>
<p class="text-muted">This text is muted.</p>
<p class="text-info">This text represents some information.</p>
<p class="text-warning">This text represents a warning.</p>
<p class="text-danger">This text represents danger.</p>
```

Alerts with Bootstrap

- Provide information about the outcome of an event

index.html

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



Buttons – coloring with Bootstrap

- Provide information about the role of the button

index.html

```
<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-link">Link</button>
```



Buttons – sizing with Bootstrap

- Provide information about the size of the button

index.html

```
<button type="button" class="btn btn-primary btn-lg">Large</button>  
<button type="button" class="btn btn-primary btn-md">Medium</button>  
<button type="button" class="btn btn-primary btn-sm">Small</button>  
<button type="button" class="btn btn-primary btn-xs">XSmall</button>
```

- More on [buttons](#)



Icons with Bootstrap

- Visualize a given icon from the standard bootstrap icons-sheet

index.html

```
<span class="glyphicon glyphicon-cloud"></span>
```



- If you want to use a different icon, simply change “glyphicon-cloud” to “glyphicon-iconName”
- Bootstrap’s [icons](#)

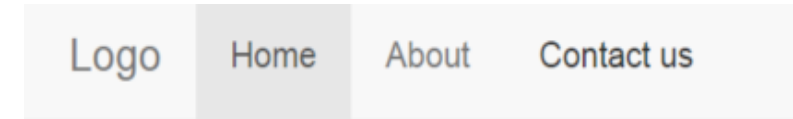
Nav and Navbar with Bootstrap

index.html

```
<div class="navbar navbar-default">
  <div class="container-fluid">
    <div class="navbar-header">
      <a class="navbar-brand">Logo</a>
    </div>
    <ul class="nav navbar-nav">
      <li class="active"><a href="">Home</a></li>
      <li><a href="">About</a></li>
      <li><a href="">Contact us</a></li>
    </ul>
  </div>
</div>
```

Nav and Navbar with Bootstrap(2)

- The code from the previous slide shows the following:



- There can be many ways to modify and position the navbar, so you may want to [check out the other options](#)

- Provide information about the size of the button

index.html

```
<ul class="list-group">  
  <li class="list-group-item">First item</li>  
  <li class="list-group-item">Second item</li>  
  <li class="list-group-item">Third item</li>  
</ul>
```

First item

Second item

Third item

- More on lists

Form with Bootstrap

index.html

```
<form class="form-horizontal">
  <div class="form-group">
    <label class="control-label col-sm-2">Username:</label>
    <div class="col-sm-4">
      <input class="form-control" type="text"/>
    </div>
  </div>
  ...
</form>
```



Username:

Password:

Submit

HTML Table with Bootstrap

index.html

Hover effect

```
<table class="table table-hover">
```

```
<tr>
```

```
<th>Id</th>
```

```
<th>Name</th>
```

```
<th>Major</th>
```

```
</tr>
```

```
<tr>
```

```
<td>1</td>
```

```
<td>Bozhidar</td>
```

```
<td>C# Web</td>
```

```
</tr>
```

```
...
```

```
</table>
```

Bootstrap table

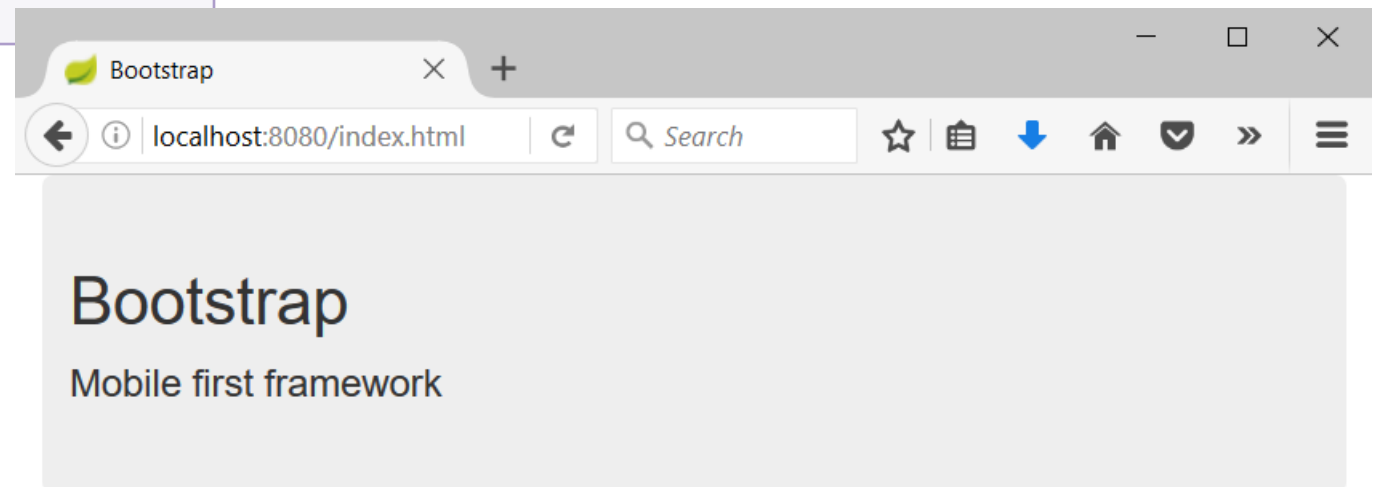


Id	Name	Major
1	Bozhidar	C# Web
2	Teodor	Java Web

- Big box that provides information

index.html

```
<div class="container">
  <div class="jumbotron">
    <h1>Bootstrap</h1>
    <p>Mobile first framework</p>
  </div>
</div>
```



Summary

- Bootstrap provides an easy way to create responsive design that fits on all screens