BOOTSTRAP

o Bootstrap is a front-end web framework for designing websites and web application. It is free for use and open-sourced.

Pro	Contra
Standardized platform	Styles are verbose and can lead to lots of HTML output that's not perfectly semantic
With all the basic styles and components needed	Javascript is tied to jQuery
Can save a lot of time	Can require lots of overriding styles or rewriting their files
Support for all major browsers	Websites can start to look the same if you don't customize the styles and colors much
Lightweight and customizable files	
Mobiles first: Designed with responsive structures and styles for mobile devices	
Several javascript plugins available	
Good documentation and community support	
Lots of free and professional templates, themes and plugins available	
Works with media-queries	

How to use:

o Download source on website
o OR use CDN

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta.2/css/bootstrap.min.css"
        integrity="sha384-PsH8R72JQ3SOdhVi3uxftmaW6Vc51MKb0q5P2rRUpPvrszuE4W1povHYgTpBfshb"
        crossorigin="anonymous">
</head>
<body>

</body>
</html>
```
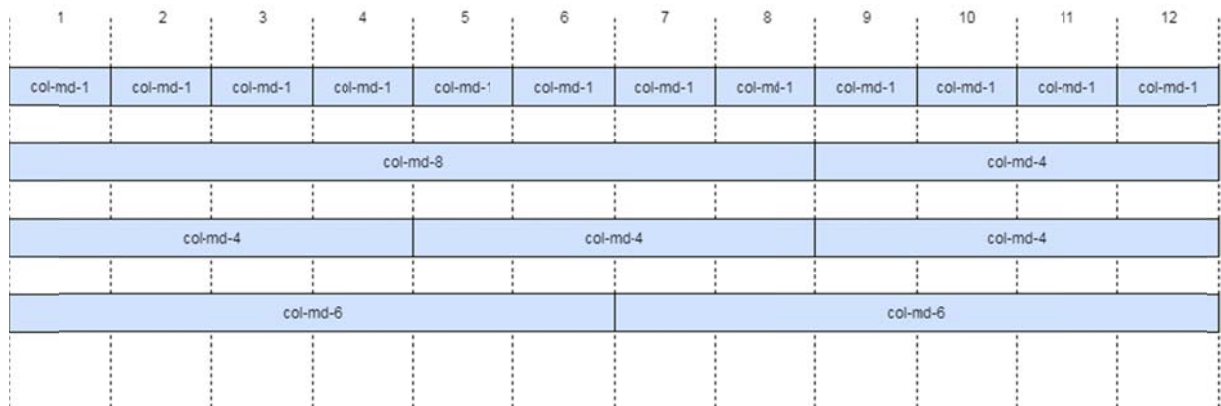
➔ Then just add classes to your objects

```html
<p class="align-left">Lorem ipsum dolor sit amet</p>

<button class="btn-default">press me</button>

<span class="label label-primary">label</span>
```

Grid System

➔ Used for creating page layouts through a series of rows and columns
➔ Scales up to 12 columns as the device or viewport size increases


```
<div class="row">
    <div class="col-md-6">col-md-6</div>
    <div class="cold-md-6">col-md-6</div>
</div>
```

➔ Different breakpoints for different devices

Breakpoints:

- col-xs: phones, less than 768px

- col-sm: tablets, 768px and up

- col-md: desktops, 992px and up

- col-lg: large desktops, 1200px and up

➔ Can be nested


```
<div class="row">
    <div class="col-sm-9">
        <div class="row">
            <div class="col-xs-8 col-sm-6">content</div>
            <div class="col-xs-4 col-sm-6">content</div>
        </div>
    </div>
</div>
```

➔ Offsets can be set

.col-md-4		.col-md-4 .col-md-offset-4
	.col-md-3 .col-md-offset-3	.col-md-3 .col-md-offset-3
	.col-md-6 .col-md-offset-3	

```
<div class="row">
    <div class="col-md-4">content</div>
    <div class="col-md-4 col-md-offset-4">content</div>
</div>
```

CSS – Samples

o Tables

EXAMPLE

#	First Name	Last Name	Username
1	Mark	Otto	@mdo
2	Jacob	Thornton	@fat
3	Larry the Bird		@twitter

```
<table class="table table-condensed">
  ...
</table>
```

o Buttons

btn btn-default	btn btn-primary	btn btn-success	btn btn-info	btn btn-warning	btn btn-danger

```
<button type="button" class="btn btn-default">btn btn-default</button>
<button type="button" class="btn btn-primary">btn btn-primary</button>
<button type="button" class="btn btn-success">btn btn-success</button>
<button type="button" class="btn btn-info">btn btn-info</button>
<button type="button" class="btn btn-warning">btn btn-warning</button>
<button type="button" class="btn btn-danger">btn btn-danger</button>
```
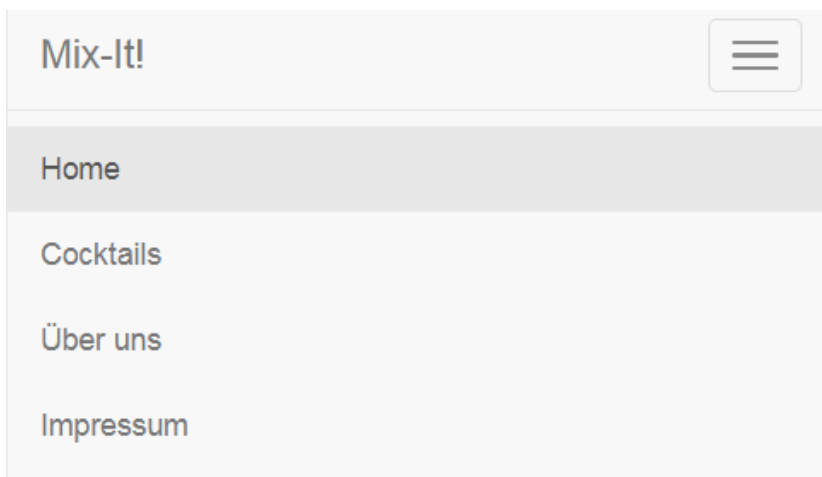
o Forms

| Email | | Email |
| Password | | Password |

☐ Remember me

Sign in

```html
<form class="form">
    <div class="form-group">
        <label for="mail" class="control-label">Email</label>
        <input type="email" class="form-control" id="mail" placeholder="Email">
    </div>
    <div class="form-group">
        <label for="password" class="control-label">Password</label>
        <input type="password" class="form-control" id="password" placeholder="Password">
    </div>
    <div class="form-group">
        <div class="checkbox"> <label> <input type="checkbox"> Remember me </label> </div>
    </div>
    <div class="form-group">
        <button type="submit" class="btn btn-default">Sign in</button>
    </div>
</form>
```
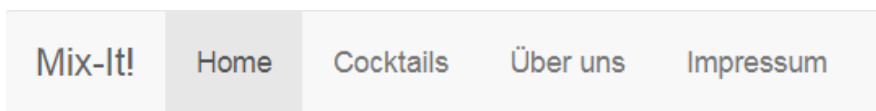
Components – Samples

o   Navbars

| Mix-It! | Home | Cocktails | Über uns | Impressum |

Mix-It!   ☰

Home

Cocktails

Über uns

Impressum

o Alerts

EXAMPLE

Well done! You successfully read this important alert message.

Heads up! This alert needs your attention, but it's not super important.

Warning! Better check yourself, you're not looking too good.

Oh snap! Change a few things up and try submitting again.

```
<div class="alert alert-success" role="alert">...</div>
<div class="alert alert-info" role="alert">...</div>
<div class="alert alert-warning" role="alert">...</div>
<div class="alert alert-danger" role="alert">...</div>
```

o Navs
    o Tabs:

    Home   Profile   Messages

```
<ul class="nav nav-tabs">
  <li role="presentation" class="active"><a href="#">Home</a></li>
  <li role="presentation"><a href="#">Profile</a></li>
  <li role="presentation"><a href="#">Messages</a></li>
</ul>
```

    o Pills:

    Home   Profile   Messages

```
<ul class="nav nav-pills">
  <li role="presentation" class="active"><a href="#">Home</a></li>
  <li role="presentation"><a href="#">Profile</a></li>
  <li role="presentation"><a href="#">Messages</a></li>
</ul>
```
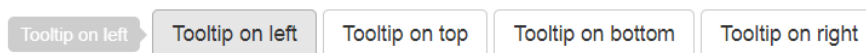
JavaScript-Samples

o Tooltips

    Tooltip on left   Tooltip on left   Tooltip on top   Tooltip on bottom   Tooltip on right

```
<button type="button" class="btn btn-default" data-toggle="tooltip" data-placement="left" title="Tooltip on
left">Tooltip on left</button>
```

o Carousel
o Alerts (can be closed)

Holy guacamole! Best check yo self, you're not looking too good.

✕

Oh snap! You got an error!

✕

Change this and that and try again. Duis mollis, est non commodo luctus, nisi erat porttitor ligula, eget lacinia odio sem nec elit. Cras mattis consectetur purus sit amet fermentum.

Take this action   Or do this

o   Tabs (Content can be switched)