Bootstrap





Bootstrap

• **CSS** framework



Web layout and design made easy

Predefined CSS classes

Bootstrap - Import

- 4 files need to be imported
- Import in the <head> tag

```
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.1/css/bootstrap.min.css">
<link rel="stylesheet" href="bootstrap.min.css">
```

- Import before </body> tag
- In this specifically order

```
<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.1/js/bootstrap.min.js"></script>
<script src="jquery.min.js"></script>
<script src="jquery.min.js"></script>
<script src="popper.min.js"></script>
<script src="bootstrap.min.js"></script>
</script src="bootstrap.min.js"></script>
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```

Built with Flexbox

• Fully **responsive** layout system

Needs to be inside .container

```
<div class="container-fluid">
   <div class="row">
        <div class="col">
           1/2
       <div class="col">
           2/2
   <div class="row">
        <div class="col">
           1/3
       <div class="col">
           2/3
       <div class="col">
           3/3
```

```
    1/2
    2/2

    1/3
    2/3
    3/3
```

- Each row is separated in 12 fractions
- You can define the column width

2/12 8/12 2/12

• Column width depending on the viewport width

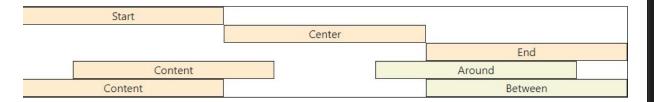
	49	200
auto	8/12 in ≥992px - 3/12 in ≥576px	auto

auto	8/12 in ≥992px - 3/12 in	auto
	≥576px	

For more information -> https://getbootstrap.com/docs/4.1/layout/grid/

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px
Max container width	None (auto)	540px	720px	960px	1140px
Class prefix	.col-	.col-sm-	.col-md-	.col-lg-	.col-xl-

Set column position



```
<div class="row justify-content-start">
      <div class="col-4">
          Start
   <div class="row justify-content-center">
      <div class="col-4">
          Center
   <div class="row justify-content-end">
      <div class="col-4">
          End
   <div class="row justify-content-around">
      <div class="col-4">
          Content
      <div class="col-4">
          Around
   <div class="row justify-content-between">
      <div class="col-4">
          Content
      <div class="col-4">
          Between
```

Set column offset

.col-md-4		16		.col-md-4 .offset-md-4	
	.col-m	d-3 .offset-md-3			.col-md-3 .offset-md-3

Bootstrap - Buttons

- Basic web component
- 3 sizes

For more information -> https://getbootstrap.com/docs/4.1/components/buttons/

Bootstrap - Carousel

- Important
 - o data-slide = "{prev | next}"
 - id = href of controls
 - set 1 active item



```
<div id="carouselControl" class="carousel slide" >
   <div class="carousel-inner">
       <div class="carousel-item active">
           <img class="d-block w-100" src="350x150.png">
       <div class="carousel-item">
           <img class="d-block w-100" src="350x150.png">
       <div class="carousel-item">
           <img class="d-block w-100" src="350x150.png">
   <a class="carousel-control-prev" href="#carouselControl" data-slide="prev">
       <span class="carousel-control-prev-icon"></span>
   <a class="carousel-control-next" href="#carouselControl" data-slide="next">
       <span class="carousel-control-next-icon"></span>
```

Bootstrap - Dropdown

- Important
 - data-toggle = "dropdown"

Dropdown ▼

Menu direction can be changed {dropdown | dropright | ... }

Dropright >

For more information -> https://getbootstrap.com/docs/4.1/components/dropdowns/

Bootstrap - Navbar

- Important
 - Inside <nav> tag
 - . navbar-expand-{sm | md | lg | xl}
 - collapse
 - .navbar-toggler
 - data-target = navbar-collapse id
 - data-toggle = "collapse"

```
<nav class="navbar navbar-expand-lg navbar-light">
   <a class="navbar-brand" href="#">Navbar</a>
  <button class="navbar-toggler" data-toggle="collapse" data-target="#navbarNav">
      <span class="navbar-toggler-icon"></span>
   </button>
  <div class="navbar-collapse collapse" id="navbarNav">
      <a class="nav-link" href="#">Link 1 /a
          <a class="nav-link" href="#">Link 2</a>
          class="nav-item">
             <a class="nav-link" href="#">Link 3</a>
          <a class="nav-link dropdown-toggle" data-toggle="dropdown" href="#">Dropdown</a>
             <div class="dropdown-menu">
                 <a href="#" class="dropdown-item">Dp 1</a>
                 <a href="#" class="dropdown-item">Dp 2</a>
                 <a href="#" class="dropdown-item">Dp 3</a>
      <form class="form-inline ml-auto">
          <input class="form-control" type="search" placeholder="Search">
          <button class="btn btn-outline" type="submit">Search/button>
```

Bootstrap - Navbar

Navbar Link 1 Link 2 Link 3 Dropdown ▼ Search

Navbar



More components in

https://getbootstrap.com/docs/4.1/components

Bootstrap - Utilities

Spacing

- o m -> margin
- o p -> padding
- O -
- I -> left
- o r -> right
- o b -> bottom
- t -> top
- x -> horizontal
- o y -> vertical
- o values: 1 | 2 | 3 | 4 | 5 | auto
- O -
- Examples: ml-3/mx-auto/py-4/ mr-0/p-4/m-0

Sizing

- o w -> width
- o h -> height
- o mw -> max-width
- o mh -> max-height
- 0 -
- o values: 25 | 50 | 75 | 100
- O -
- Examples: h-50 / w-25 / h-auto / mw-100

Bulma.io

- Bootstrap alternative
- No JS
- NoJQ
- Minimalistic
- Easy to understand
- Grid System

```
Small Normal Medium Large
```

```
<a class="button is-small">Small</a>
<a class="button">Normal</a>
<a class="button is-medium">Medium</a>
<a class="button is-large">Large</a>
```

```
<div class="dropdown is-active">
  <div class="dropdown-trigger">
    <button class="button" aria-haspopup="true" aria-</pre>
controls="dropdown-menu">
      <span>Dropdown button</span>
      <span class="icon is-small">
        <i class="fas fa-angle-down" aria-hidden="true"></i></i></or>
      </span>
   </button>
  </div>
  <div class="dropdown-menu" id="dropdown-menu" role="menu">
    <div class="dropdown-content">
      <a href="#" class="dropdown-item">
        Dropdown item
      </a>
      <a class="dropdown-item">
        Other dropdown item
      </a>
      <a href="#" class="dropdown-item is-active">
        Active dropdown item
      </a>
      <a href="#" class="dropdown-item">
       Other dropdown item
      </a>
      <hr class="dropdown-divider">
      <a href="#" class="dropdown-item">
       With a divider
      (/a)
   </div>
  </div>
</div>
```

```
var dropdown = document.getElementsByClassName('dropdown');
for(var i = 0; i < dropdown.length; i++){
    dropdown[i].addEventListener('click', function(event) {
        this.classList.toggle('is-active');
    });
}</pre>
```

Dropdown button Dropdown item Other dropdown item Other dropdown item Other dropdown item

With a divider