



Bootstrap 4



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המכללה למקצועות הדיגיטל וההייטק

Last lecture reminder

We learned about:

- The difference between inline and block elements
- How to use positioning and what are the different options that we have (static, relative, absolute and sticky)
- What is responsive design and why it is important
- What are media queries and how to use them for responsiveness
- How to use Flexbox
- How to use CSS Grid and how it's different from Flexbox



Introduction to Bootstrap 4

Bootstrap is the world's most popular framework for building responsive, mobile-first sites, with jsDelivr and a template starter page - [Bootstrap Website](#)



Introduction to Bootstrap 4

Why we want to use Bootstrap:

- **Time-saving** - Bootstrap gives you ready-made blocks built ready for you to use them. With using Bootstrap you don't have to build everything from start but just modify
- **Easy to use** - No matter whether you are an expert or a beginner in web technologies, you can swiftly do the Bootstrap installation for yourself without any hassle
- **Responsive Grid System** - Bootstrap gives you a ready-made responsive grid system so you can easily apply it to your website for responsiveness
- **Customizable** - Every Bootstrap element is fully customizable and can be changes to your needs
- **Open-Source** - Bootstrap is 100% free, so you don't need to spend money on subscription to start using it for your projects



Bootstrap - Installation

For using Bootstrap we just need to import the Bootstrap link from the website to our project
We should put this link in the <head> section just like any other import file

CSS

Copy-paste the stylesheet <link> into your <head> before all other stylesheets to load our CSS.

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.min.css" rel="stylesheet">
```

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After we added the Bootstrap link to our file we can start using Bootstrap style by applying

classes names to our HTML elements

Basic Bootstrap Typography

Use .h1 through .h6 classes when you want to match the font styling of a heading but cannot use the associated HTML element

h1. Bootstrap heading

h2. Bootstrap heading

h3. Bootstrap heading

h4. Bootstrap heading

h5. Bootstrap heading

h6. Bootstrap heading

```
<p class="h1">h1. Bootstrap heading</p>
<p class="h2">h2. Bootstrap heading</p>
<p class="h3">h3. Bootstrap heading</p>
<p class="h4">h4. Bootstrap heading</p>
<p class="h5">h5. Bootstrap heading</p>
<p class="h6">h6. Bootstrap heading</p>
```

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Basic Bootstrap - Typography

display-1: When you need a heading to stand out, consider using the display class

Display 1

Display 2

Display 3

Display 4

Display 5

Display 6

```
<h1 class="display-1">Display 1</h1>  
<h1 class="display-2">Display 2</h1>  
<h1 class="display-3">Display 3</h1>  
<h1 class="display-4">Display 4</h1>  
<h1 class="display-5">Display 5</h1>  
<h1 class="display-6">Display 6</h1>
```

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Basic Bootstrap - Typography

list-unstyled: Remove the default list-style and left margin on list items

Note: This only applies to immediate children list items, meaning you will need to add the class for any nested lists as well

This is a list.
It appears completely unstyled.
Structurally, it's still a list.
However, this style only applies to immediate child elements.
Nested lists:

- are unaffected by this style
- will still show a bullet
- and have appropriate left margin

This may still come in handy in some situations.

```
<ul class="list-unstyled">
  <li>This is a list.</li>
  <li>It appears completely unstyled.</li>
  <li>Structurally, it's still a list.</li>
  <li>However, this style only applies to immediate child elements.</li>
  <li>Nested lists:
    <ul>
      <li>are unaffected by this style</li>
      <li>will still show a bullet</li>
      <li>and have appropriate left margin</li>
    </ul>
  </li>
  <li>This may still come in handy in some situations.</li>
</ul>
```

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Basic Bootstrap - Typography

list-inline: Remove a list's bullets and apply some light margin
Use it with combination of two classes - **.list-inline** and **.list-inline-item**

This is a list item. And another one. But they're displayed inline.

```
<ul class="list-inline">  
  <li class="list-inline-item">This is a list item.</li>  
  <li class="list-inline-item">And another one.</li>  
  <li class="list-inline-item">But they're displayed inline.</li>  
</ul>
```

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Basic Bootstrap - Typography

text-center: Use the alignment classes when you need to change the text alignment

A well-known quote, contained in a blockquote element.

— Someone famous in *Source Title*

```
<figure class="text-center">
  <blockquote class="blockquote">
    <p>A well-known quote, contained in a blockquote element.</p>
  </blockquote>
  <figcaption class="blockquote-footer">
    Someone famous in <cite title="Source Title">Source Title</cite>
  </figcaption>
</figure>
```

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A well-known quote, contained in a blockquote element.

— Someone famous in *Source Title*

```
<figure class="text-end">
  <blockquote class="blockquote">
    <p>A well-known quote, contained in a blockquote element.</p>
  </blockquote>
  <figcaption class="blockquote-footer">
    Someone famous in <cite title="Source Title">Source Title</cite>
  </figcaption>
</figure>
```

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Basic Bootstrap - Colors

text-success: Colorize text with color utilities

`.text-primary`

`.text-secondary`

`.text-success`

`.text-danger`

`.text-warning`

`.text-info`

`.text-light`

`.text-dark`

`.text-body`

`.text-muted`

`.text-white`

`.text-black-50`

`.text-white-50`

```
<p class="text-primary">.text-primary</p>
<p class="text-secondary">.text-secondary</p>
<p class="text-success">.text-success</p>
<p class="text-danger">.text-danger</p>
<p class="text-warning bg-dark">.text-warning</p>
<p class="text-info bg-dark">.text-info</p>
<p class="text-light bg-dark">.text-light</p>
<p class="text-dark">.text-dark</p>
<p class="text-body">.text-body</p>
<p class="text-muted">.text-muted</p>
<p class="text-white bg-dark">.text-white</p>
<p class="text-black-50">.text-black-50</p>
<p class="text-white-50 bg-dark">.text-white-50</p>
```

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Basic Bootstrap - Spacing

With the spacing classes we can assign responsive-friendly margin or padding values to an HTML elements

The classes are named using the format `{property}{sides}-{size}` for xs and `{property}{sides}-{breakpoint}-{size}` for sm, md, lg, xl, and xxl

Properties we can use with this format:

- m - for classes that set margin
- p - for classes that set padding
- t - for classes that set margin-top or padding-top
- b - for classes that set margin-bottom or padding-bottom
- x - set both margin/padding-left and margin/padding-right
- y - set both margin/padding-top and margin/padding-bottom
- s (start) - margin-left or padding-left
- e (end) - margin-right or padding-right
- blank - for classes that set a margin or padding on all 4 sides of the element

Basic Bootstrap - Spacing

Regarding the size - we can choose one of the options below:

- `0` - for classes that eliminate the `margin` or `padding` by setting it to `0`
- `1` - (by default) for classes that set the `margin` or `padding` to `$spacer * .25`
- `2` - (by default) for classes that set the `margin` or `padding` to `$spacer * .5`
- `3` - (by default) for classes that set the `margin` or `padding` to `$spacer`
- `4` - (by default) for classes that set the `margin` or `padding` to `$spacer * 1.5`
- `5` - (by default) for classes that set the `margin` or `padding` to `$spacer * 3`
- `auto` - for classes that set the `margin` to `auto`

Note: `$spacer` is a Bootstrap sass variable that represent 1rem (16px)

Basic Bootstrap - Spacing

Spacing Bootstrap classes - behind the scene:

```
.mt-0 {  
  margin-top: 0 !important;  
}  
  
.ms-1 {  
  margin-left: ($spacer * .25) !important;  
}  
  
.px-2 {  
  padding-left: ($spacer * .5) !important;  
  padding-right: ($spacer * .5) !important;  
}  
  
.p-3 {  
  padding: $spacer !important;  
}
```

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Basic Bootstrap - Sizing

Width and height utilities Includes support for 25%, 50%, 75%, 100%, and auto by default

The percentages are relevant to the parent element size



```
<div class="w-25 p-3" style="background-color: #eee;">Width 25%</div>  
<div class="w-50 p-3" style="background-color: #eee;">Width 50%</div>  
<div class="w-75 p-3" style="background-color: #eee;">Width 75%</div>  
<div class="w-100 p-3" style="background-color: #eee;">Width 100%</div>  
<div class="w-auto p-3" style="background-color: #eee;">Width auto</div>
```

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Basic Bootstrap - Sizing

Width and height utilities Includes support for 25%, 50%, 75%, 100%, and auto by default

The percentages are relevant to the parent element size



```
<div style="height: 100px; background-color: rgba(255,0,0,0.1);">  
  <div class="h-25 d-inline-block" style="width: 120px; background-color: rgba(0,0,255,.1)"  
  <div class="h-50 d-inline-block" style="width: 120px; background-color: rgba(0,0,255,.1)"  
  <div class="h-75 d-inline-block" style="width: 120px; background-color: rgba(0,0,255,.1)"  
  <div class="h-100 d-inline-block" style="width: 120px; background-color: rgba(0,0,255,.1)"  
  <div class="h-auto d-inline-block" style="width: 120px; background-color: rgba(0,0,255,.1)"  
</div>
```

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Basic Bootstrap - Border

Use border utilities to quickly style the border and border-radius of an element

The **border** class will add a border to a element, we can also specify the side we want to add the border to



```
<span class="border"></span>  
<span class="border-top"></span>  
<span class="border-end"></span>  
<span class="border-bottom"></span>  
<span class="border-start"></span>
```

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Basic Bootstrap - Border


Using the border utilities we can also easily add colors to our border

For example: **border-success** will add a border with green color



Basic Bootstrap - Border

Using the **border-#number** we can determine our border width



```
<span class="border border-1"></span>  
<span class="border border-2"></span>  
<span class="border border-3"></span>  
<span class="border border-4"></span>  
<span class="border border-5"></span>
```

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Basic Bootstrap - Radius

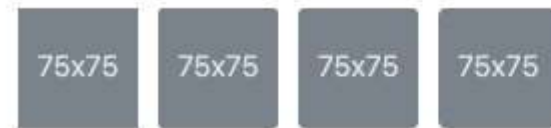
We can easily make our elements rounded by using the **rounded** classes

Use the **rounded-#number** classes for getting larger or smaller rounded corners



```
  
  
  
  
  
  

```

[Copy](#)

```
  
  
  

```

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Class Exercise - Bootstrap Basic Design

Instructions:

By using only Bootstrap design create the design shown in the next slide

Note: You can use some basic CSS style but whenever you can achieve the design with Bootstrap commands, make sure to use it instead.

This is a list.

Do not use your own CSS

Insert border in every nested list

Every border should have a different color

The second box should have *** in the middle and underline

In the last one insert image rounded border

Nested lists:



○



○



○



○



○



○



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Class Exercise - Bootstrap Basic Design



Bootstrap - Components



Bootstrap - Buttons

Bootstrap includes several predefined button styles, each serving its own semantic purpose

Each button will have its already configured hover style effect

Regular buttons:



The image displays a row of nine Bootstrap buttons: Primary (blue), Secondary (gray), Success (green), Danger (red), Warning (yellow), Info (cyan), Light (light gray), and Dark (dark gray). Below these is a 'Link' button, which is a blue underlined text link.

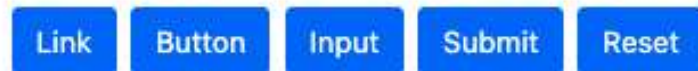
```
<button type="button" class="btn btn-primary">Primary</button>
<button type="button" class="btn btn-secondary">Secondary</button>
<button type="button" class="btn btn-success">Success</button>
<button type="button" class="btn btn-danger">Danger</button>
<button type="button" class="btn btn-warning">Warning</button>
<button type="button" class="btn btn-info">Info</button>
<button type="button" class="btn btn-light">Light</button>
<button type="button" class="btn btn-dark">Dark</button>

<button type="button" class="btn btn-link">Link</button>
```

Copy

Bootstrap - Buttons

Button tags:



```
<a class="btn btn-primary" href="#" role="button">Link</a>  
<button class="btn btn-primary" type="submit">Button</button>  
<input class="btn btn-primary" type="button" value="Input">  
<input class="btn btn-primary" type="submit" value="Submit">  
<input class="btn btn-primary" type="reset" value="Reset">
```

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Bootstrap - Buttons

Outline buttons:

Primary

Secondary

Success

Danger

Warning

Info

Light

Dark

```
<button type="button" class="btn btn-outline-primary">Primary</button>  
<button type="button" class="btn btn-outline-secondary">Secondary</button>  
<button type="button" class="btn btn-outline-success">Success</button>  
<button type="button" class="btn btn-outline-danger">Danger</button>  
<button type="button" class="btn btn-outline-warning">Warning</button>  
<button type="button" class="btn btn-outline-info">Info</button>  
<button type="button" class="btn btn-outline-light">Light</button>  
<button type="button" class="btn btn-outline-dark">Dark</button>
```

Copy



Bootstrap - Buttons

Button sizes:

Large button

Large button

```
<button type="button" class="btn btn-primary btn-lg">Large button</button>  
<button type="button" class="btn btn-secondary btn-lg">Large button</button>
```

Copy

Small button

Small button

```
<button type="button" class="btn btn-primary btn-sm">Small button</button>  
<button type="button" class="btn btn-secondary btn-sm">Small button</button>
```

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Bootstrap - Buttons

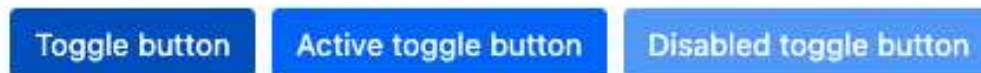
Disabled state:



```
<button type="button" class="btn btn-lg btn-primary" disabled>Primary button</button>  
<button type="button" class="btn btn-secondary btn-lg" disabled>Button</button>
```

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Toggle state:



```
<button type="button" class="btn btn-primary" data-bs-toggle="button" autocomplete="off">Toggle button</button>  
<button type="button" class="btn btn-primary active" data-bs-toggle="button" autocomplete="off">Active toggle button</button>  
<button type="button" class="btn btn-primary disabled" data-bs-toggle="button" autocomplete="off">Disabled toggle button</button>
```

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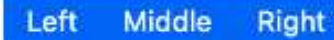


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Bootstrap - Button Group

Group a series of buttons together on a single line or stack them in a vertical column



```
<div class="btn-group" role="group" aria-label="Basic example">  
  <button type="button" class="btn btn-primary">Left</button>  
  <button type="button" class="btn btn-primary">Middle</button>  
  <button type="button" class="btn btn-primary">Right</button>  
</div>
```

[Copy](#)

```
<div class="btn-group" role="group" aria-label="Basic mixed styles example">  
  <button type="button" class="btn btn-danger">Left</button>  
  <button type="button" class="btn btn-warning">Middle</button>  
  <button type="button" class="btn btn-success">Right</button>  
</div>
```

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Class Exercise - Bootstrap Navbar

Class Exercise - Bootstrap Navbar

Instructions:

- You will be provided with basic HTML code with no styling and a documentation containing all the relevant bootstrap classes for simple navbar
- Your mission is to create a simple bootstrap navbar using the Bootstrap classes provided to you
- Your page should be responsive and fit to all devices viewport
- If you don't know / remember how to do something you should look for a solution online



Class Exercise - Bootstrap Navbar

Bootstrap navbar classes documentation:

- **.navbar** - uses to give your <nav> element the Bootstrap navbar style, this class is mandatory in order to create a proper Bootstrap navbar
- **.navbar-expand{-sm|-md|-lg|-xl|-xxl}** - uses for responsive and collapsing navbar
- **.bg-#color** - uses to give your navbar a background color
- **.navbar-brand** - uses to identify your company brand from the other navbar links
- **.navbar-nav** - uses for a full-height and lightweight navigation (use it on your navbar link list)
- **.nav-item** - uses to give the navbar item style for the navbar elements / links (use it on your navbar list items)

Note: To help you with your task you can also use the [Bootstrap navbar documentation](#), youtube videos or other websites

Class Exercise - Bootstrap Navbar

My Brand

Home About Contacts Info

My Brand

Home

About

Contacts

Info



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Class Exercise - Bootstrap navbar Solution