

## Lab.1: HTML LINKS

### HTML Links - Syntax

The HTML <a> tag defines a hyperlink. It has the following syntax: <a href="url">link text</a>

```
<html>
```

```
<body>
```

```
<h2>HTML Links</h2>
```

```
<p>HTML links are defined with the a tag:</p>
```

```
<a href="https://www.google.com">This is a  
link</a>
```

```
</body>
```

```
</html>
```

```
<html>
```

```
<body>
```

```
<h2>HTML Links</h2>
```

```
<p>HTML links are defined with the a tag:</p>
```

```
<a href="www.google.com">This is a link</a>
```

```
</body>
```

```
</html>
```

**What is the difference?**

# HTML Links - The target Attribute

The target attribute specifies where to open the linked document.

The target attribute can have one of the following values:

\_self - Default. Opens the document in the same window/tab as it was clicked

\_blank - Opens the document in a new window or tab

\_parent - Opens the document in the parent frame

\_top - Opens the document in the full body of the window

# Absolute URLs vs. Relative URLs

```
<html>

<body>

<h2>The target Attribute</h2>

<a href="https://www.google.com/"
target="_blank">Visit google site!</a>

<p>If target="_blank", the link will open in a new
browser window or tab.</p>

</body>

</html>
```

```
<html>
<body>
<h2>Absolute URLs</h2>
<p><a href="https://www.w3.org/">W3C</a></p>
<p><a
href="https://www.google.com/">Google</a></p>
<h2>Relative URLs</h2>
<p><a href="Page_1">HTML Page</a></p>
<p><a href="/css/default.asp">CSS Tutorial</a></p>
<body>
<html>
```

**What is the difference?**

## HTML Links - Use an Image as a Link.

```
<html>
<body>
<h2>Image as a Link</h2>
<p>The image below is a link. Try to click on
it.</p>
<a href="page1.html"></a>
</body>
</html>
```

“Image saved as .png or .jpg”

## Link to an Email Address, Button as a link.

```
<a href="mailto:someone@example.com">Send
email</a>

-----

<button
onclick="document.location=page1.html">Page1
</button>
```

## Create a Bookmark in HTML

- Bookmarks can be useful if a web page is very long.
- To create a bookmark - first create the bookmark, then add a link to it.
- When the link is clicked, the page will scroll down or up to the location with the bookmark.

First, use the id attribute to create a bookmark:

- **`<a href="#C4">Jump to Chapter 4</a>`**

You can also add a link to a bookmark on another page:

- **`<a href="html_demo.html#C4">Jump to Chapter 4</a>`**

```
<html>
```

```
<body>
```

```
<p><a href="#C4">Jump to Chapter 4</a></p>
```

```
<p><a href="#C10">Jump to Chapter 10</a></p>
```

```
<h2>Chapter 1</h2>
```

```
<p>This chapter explains ba bla bla</p>
```

```
<pre>
```

```
</pre>
```

```
<h2 id="C4">Chapter 4</h2>
```

```
<p>This chapter explains ba bla bla</p>
```

```
<pre>
```

```
</pre>
```

```
<h2 id="C10">Chapter 10</h2>
```

```
<p>This chapter explains ba bla bla</p>
```

```
</body>
```

```
</html>
```

# How to create Table via Html Tags?

```
<html>  
<body>
```

```
<h2>Basic HTML Table</h2>
```

```
<table style="width:100%">
```

```
<tr>
```

```
<th>Firstname</th>
```

```
<th>Lastname</th>
```

```
<th>Age</th>
```

```
</tr>
```

```
<tr>
```

```
<td>Jill</td>
```

```
<td>Smith</td>
```

```
<td>50</td>
```

```
</tr>
```

```
<tr>
```

```
<td>Eve</td>
```

```
<td>Jackson</td>
```

```
<td>94</td>
```

```
</tr>
```

```
<tr>
```

```
<td>John</td>
```

```
<td>Doe</td>
```

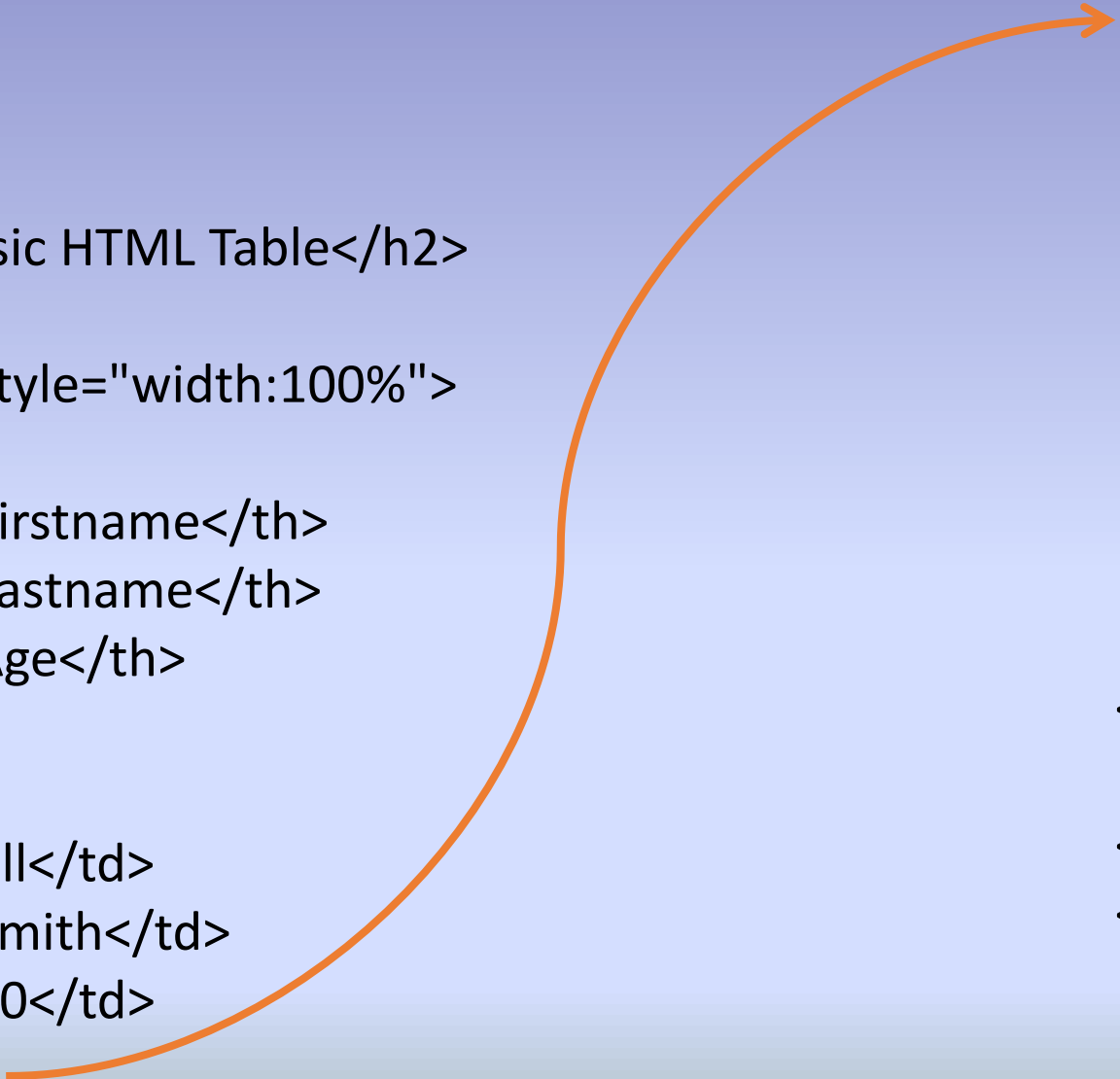
```
<td>80</td>
```

```
</tr>
```

```
</table>
```

```
</body>
```

```
</html>
```



## Lab.2: Cascading Style Sheets (CSS).

CSS is the language we use to style an HTML document.

CSS describes how HTML elements should be displayed.

web multiple pages all at .CSS **saves a lot of work**. It can control the layout of once.

External style-sheets are stored in **CSS files**

The style definitions are normally saved in external .css files.

**Note:** "An id name cannot start with a number"

# CSS Syntax

A CSS rule-set consists of a selector and a declaration block:



# The CSS id Selector

The id selector uses the id attribute of an HTML element to select a specific element.

The id of an element is unique within a page.

To select an element with a specific id, write a hash (#) character, followed by the id of the element.

```
<html>
<head>
<style>
#para1 {
  text-align: center;
  color: red; }
</style>
</head>
<body>
<p id="para1">The paragraph with “para1” id is affected by the style</p>
<p>This paragraph is not affected by the style.</p>
</body>
</html>
```

```
<html>
<head>
<style>
p {
  color: red;}
</style></head>
<body>
<h1>This is a Heading</h1>
<p>This is a paragraph.</p>
<p>This is another paragraph.</p>
</body>
</html>
```

```
<html>
<head>
<style>
#para1 {
  color: red;}
</style></head>
<body>
<h1>This is a Heading</h1>
<p id="para1">This is a para.</p>
<p>This is another paragraph.</p>
</body>
</html>
```

What is the difference?

# The CSS class Selector

- The class selector selects HTML elements with a specific class attribute.
- To select elements with a specific class, write a period (.) character, followed by the class name.
- You can also specify that only specific HTML elements should be affected by a class.
- HTML elements can also refer to more than one class.

**Note:** A class name cannot start with a number!

```
<html>
<head>
<style>
p.center {
  text-align: center;
  color: red;
}
</style>
</head>
<body>

<h1 class="center">This heading will be affected
or not?</h1>
<p class="center">This paragraph will be red
and center-aligned.</p>

</body>
</html>
```

```
<html>
<head>
<style>
.center {
  text-align: center;
  color: red;
}
</style>
</head>
<body>

<h1 class="center">This heading will be affected
or not?</h1>
<p class="center">This paragraph will be
affected or not?.</p>

</body>
</html>
```

**What is the difference?**

```
<html> <head> <style>
p.center {
  text-align: center;
  color: red; }
p.large {
  font-size: 300%; }
</style> </head>
<body>
<h1 class="center">This heading will be affected or not?</h1>
<p class="center">This paragraph what will be?.</p>
<p class="center large">Also, this paragraph what will be? </p>
</body>
</html>
```

Apply it and explain the output?

## Lab.3: The CSS Universal Selector

The universal selector (\*) selects all HTML elements on the page.

```
* {  
  text-align: center;  
  color: blue;  
}
```

-----

## The CSS Grouping Selector

The grouping selector selects all the HTML elements with the same style definitions.

```
h1, h2, p {  
  text-align: center;  
  color: red;  
}
```

# How To Add CSS?

Three Ways to Insert CSS:

- **External CSS:**

```
<link rel="stylesheet" href="mystyle.css">
```

"mystyle.css"

```
p {  
  background-color: lightblue;  
text-align:right; font-size:20px;  
}
```

```
h1 {  
  color: navy;  
  margin-left: 20px;  
}
```

- **Internal CSS:**

```
<html>  
<head>  
<style>  
p {  
  background-color: linen;  
text-align:center;  
}  
  
h1 {  
  color: maroon;  
  margin-left: 40px;  
}  
</style>  
</head>
```

# Multiple Style Sheets

Assume “mystyle.css” as **External CSS** file

```
h1 { color: orange; }
```

---

```
<head>
<link rel="stylesheet" type="text/css" href="mystyle.css">
<style>
h1 {color: pink;} /*Internal Style*/
</style>
</head>
```

---

## Inline Style

```
<body style="background-color: pink;">
<h1 style="color:green;">Heading style</h1>
<p style="background-color:yellow;">A red
paragraph.</p>
```

All the styles in a page will "cascade" into a new "virtual" style sheet by the following rules, where number one has the highest priority:

- Inline style (inside an HTML element)
- External and internal style sheets (in the head section)
- Browser default

So, an inline style has the highest priority, and will override external and internal styles and browser defaults.

# CSS-Backgrounds

```
<html>
<head>
<style>
div { background-color: green;}
div.first { opacity: 0.1;}
div.second { opacity: 0.3;}
div.third {opacity: 0.6;}
</style>
</head>

<body>
<h1>Transparent Box</h1>
```

```
<div class="first">
  <h1>opacity 0.1</h1>
</div>
<div class="second">
  <h1>opacity 0.3</h1>
</div>
<div class="third">
  <h1>opacity 0.6</h1>
</div>
<div>
  <h1>opacity 1 (default)</h1>
</div>
</body>
</html>
```

```
<html>
<head>
<style>
div { background: rgb(0, 128, 0);}
div.first { background: rgba(0, 128, 0, 0.1);}
div.second { background: rgba(0, 128, 0, 0.3);}
div.third { background: rgba(0, 128, 0, 0.6);}
</style>
</head>
<body>
<p>With RGBA color values:</p>
<div class="first">
  <h1>10% opacity</h1>
</div>
<div class="second">
  <h1>30% opacity</h1>
</div>
```

```
<div class="third">
  <h1>60% opacity</h1>
</div>
<div>
  <h1>default</h1>
</div>
<p>Notice how the text gets transparent
as well as the background color when
using the opacity property.</p>
</body>
</html>
```

# Transparent Box

With opacity:

10% opacity

30% opacity

60% opacity

opacity 1

With RGBA color values:

10% opacity

30% opacity

60% opacity

default

Activate Windows  
Go to Settings to activate Windows.

Notice how the text gets transparent as well as the background color when using the opacity property.

- **CSS Rounded Corners**

With the CSS border-radius property, you can give any element "rounded corners".

```
<html><head><style>
```

```
#rcorners1 { border-radius: 25px;
```

```
background: #73AD21;
```

```
padding: 20px;
```

```
width: 200px; height: 150px; }
```

```
#rcorners2 { border-radius: 15px 50px 30px
```

```
5px; background: #73AD21; padding: 20px;
```

```
width: 200px; height: 150px; }
```

```
#rcorners3 {
```

```
border-radius: 15px 50px;
```

```
background: #73AD21;
```

```
padding: 20px; width: 200px;
```

```
height: 150px; } </style>
```

```
<body>
```

```
<p>Four values - border-radius: 15px 50px 30px  
5px:</p>
```

```
<p id="rcorners2"></p>
```

```
<p>Two values - border-radius: 15px 50px:</p>
```

```
<p id="rcorners3"></p>
```

```
<p>One value - border-radius: 25px:</p>
```

```
<p id="rcorners1"></p>
```

- **CSS Animations**

CSS allows animation of HTML elements without using JavaScript or Flash!

In this Lab. you will learn about the following properties:

- @keyframes
- animation-name
- animation-duration
- animation-delay
- Animation-timing-function
- animation-iteration-count
- animation-direction



# What are CSS Animations?

- An animation lets an element gradually change from one style to another.
- You can change as many CSS properties you want, as many times you want.
- To use CSS animation, you must first specify some keyframes for the animation.
- Keyframes hold what styles the element will have at certain times.

## The @keyframes Rule

- When you specify CSS styles inside the `@keyframes` rule, the animation will gradually change from the current style to the new style at certain times.

```
<html>
<head><style>
div {
  width: 100px;
  height: 100px;
  background-color: red;
  animation-name: example;
  animation-duration: 4s; }
@keyframes example {
  from {background-color: red;}
  to {background-color: yellow;}
} </style></head><body>
<p><b>Note:</b> This example does not work in Internet Explorer 9 and earlier versions.</p>
<div></div>
<p><b>Note:</b> When an animation is finished, it changes back to its original style.</p>
</body> </html>
```

- **CSS Animations**

```
<html>
<head> <style>
div {
  width: 100px;
  height: 100px;
  background-color: red;
  position: relative;
  animation-name: example;
  animation-duration: 4s; }
@keyframes example {
  0% {background-color:red; left:0px; top:0px;}
  25% {background-color:yellow; left:200px; top:0px;}
  50% {background-color:blue; left:200px; top:200px;}
  75% {background-color:green; left:0px; top:200px;}
  100% {background-color:red; left:0px; top:0px;}
} </style> </head>
```

```
<body>
<p><b>Note:</b> This example does not work in
Internet Explorer 9 and earlier versions.</p>
<div></div>

</body>
</html>
```

```
<html>
<head>
<style>
div {
width: 100px;
height: 100px;
background-color: red;
position: relative;
animation-name: example;
animation-duration: 5s;
animation-timing-function: linear;
animation-delay: 2s;
animation-iteration-count: infinite;
animation-direction: alternate;
}
```

```
@keyframes example {
  0% {background-color:red; left:0px; top:0px;}
  25% {background-color:yellow; left:200px; top:0px;}
  50% {background-color:blue; left:200px; top:200px;}
  75% {background-color:green; left:0px; top:200px;}
  100% {background-color:red; left:0px; top:0px;}
}</style></head>
<body>
<p><b>Note:</b> This example does not work in Internet
Explorer 9 and earlier versions.</p>
<div></div>
</body></html>
```

## Lab.4: What is Bootstrap?

- Bootstrap is a free front-end framework for faster and easier web development.
- Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins.
- Bootstrap also gives you the ability to easily create responsive designs.

## Why Use Bootstrap? Advantages of Bootstrap:

- **Easy to use:** Anybody with just basic knowledge of HTML and CSS can start using Bootstrap
- **Responsive features:** Bootstrap's responsive CSS adjusts to phones, tablets, and desktops
- **Mobile-first approach:** In Bootstrap, mobile-first styles are part of the core framework
- **Browser compatibility:** Bootstrap is compatible with all modern browsers (Chrome, Firefox, Internet Explorer 10+, Edge, Safari, and Opera).

# What is Responsive Web Design?

Responsive web design is about creating web sites which automatically adjust themselves to look good on all devices, from small phones to large desktops.

## - Create First Web Page With Bootstrap 5

### 1. Add the HTML5 doc-type

Bootstrap uses HTML elements and CSS properties that require the HTML5 doctype.

Always include the HTML5 doctype at the beginning of the page, along with the lang attribute and the correct character set:

The `width=device-width` part sets the width of the page to follow the screen-width of the device (which will vary depending on the device).

The `initial-scale=1` part sets the initial zoom level when the page is first loaded by the browser.

### 3. Containers

Bootstrap also requires a containing element to wrap site contents.

There are two container classes to choose from:

The `.container` class provides a responsive **fixed width container**

The `.container-fluid` class provides a **full width container**, spanning the entire width of the viewport.

## Fixed Container

Use the `.container` class to create a responsive, fixed-width container.

Note that its width (max-width) will change on different screen sizes:

|           | Extra small<br><576px | Small<br>≥576px | Medium<br>≥768px | Large<br>≥992px | Extra large<br>≥1200px |
|-----------|-----------------------|-----------------|------------------|-----------------|------------------------|
| max-width | %100                  | 540px           | 720px            | 960px           | 1140px                 |

## Fluid Container

Use the `.container-fluid` class to create a full width container, that will always span the entire width of the screen (width is always 100%).

```
<!DOCTYPE html>
<html lang="en"><head><title>Bootstrap Example</title><meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
</head>
<body>
<div class="container"><h1>My First Bootstrap Page</h1>
<!-- div class="container-fluid" -->
  <p>This part is inside a .container class.</p>
  <p>The .container class provides a responsive fixed width container.</p>
  <p>Resize the browser window to see that its width (max-width) will change at different breakpoints.</p>
</div>
</body></html>
```

```
<body>
```

```
<div class="container p-3 my-3 border"><!--.p-3 means "add a top padding of 16px"-->
```

```
<h1>My First Bootstrap Page</h1>
```

```
<p>This container has a border and some extra padding and margins.</p></div>
```

```
<div class="container p-3 my-3 bg-dark text-white">
```

```
<h1>My First Bootstrap Page</h1>
```

```
<p>This container has a dark background color and a white text, and some extra padding and margins.</p></div>
```

```
<div class="container p-3 my-3 bg-primary text-white">
```

```
<h1>My First Bootstrap Page</h1>
```

```
<p>This container has a blue background color and a white text, and some extra padding and margins.</p>
```

```
</div></body>
```

```
<body>
```

```
<div class="container">
```

```
<h1>Responsive Containers</h1>
```

```
<p>Resize the browser window to see the effect.</p>
```

```
</div>
```

```
<div class="container-sm border">.container-sm</div>
```

```
<div class="container-md mt-3 border">.container-md</div>
```

```
<div class="container-lg mt-3 border">.container-lg</div>
```

```
<div class="container-xl mt-3 border">.container-xl</div>
```

```
<!--mt=margin top-->
```

```
</body>
```

```
</html>
```

# Lab.5: Bootstrap Collection1

"Carousels-BS4"

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<title>Bootstrap Example</title>
```

```
<meta charset="utf-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1"> <link rel="stylesheet"
```

```
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css"> <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
```

```
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script> </head>
```

- ```
<body> <div class="container"> <h2>Carousel Example</h2> <div id="myCarousel" class="carousel slide" data-ride="carousel">
```
- ```
<!-- Indicators -->
```
- ```
<ol class="carousel-indicators"> <li data-target="#myCarousel" data-slide-to="0" class="active"></li> <li data-target="#myCarousel" data-slide-to="1"></li> <li data-target="#myCarousel" data-slide-to="2"></li> </ol>
```
- ```
<!-- Wrapper for slides -->
```
- ```
<div class="carousel-inner"> <div class="item active">  </div>
```
- ```
<div class="item">  </div>
```
- ```
<div class="item">  </div> </div>
```
- ```
<!-- Left and right controls -->
```
- ```
<a class="left carousel-control" href="#myCarousel" data-slide="prev"> <span class="glyphicon glyphicon-chevron-left"></span> <span class="sr-only">Previous</span></a>
```
- ```
<a class="right carousel-control" href="#myCarousel" data-slide="next"> <span class="glyphicon glyphicon-chevron-right"></span> <span class="sr-only">Next</span> </a>
```
- ```
</div> </div> </body> </html>
```

- "Carousels-BS5"
- <!DOCTYPE html>
- <html lang="en">
- <head>
- <title>Bootstrap Example</title>
- <meta charset="utf-8">
- <meta name="viewport" content="width=device-width, initial-scale=1">
- <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.2/dist/css/bootstrap.min.css" rel="stylesheet">
- <script
- src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.2/dist/js/bootstrap.bundle.min.js"></script> </head>
- <body>
- <!-- Carousel --> <div id="demo" class="carousel slide" data-bs-ride="carousel">
- <!-- Indicators/dots -->
- <div class="carousel-indicators">
- <button type="button" data-bs-target="#demo" data-bs-slide-to="0" class="active"></button> <button type="button" data-bs-target="#demo" data-bs-slide-to="1"></button>
- <button type="button" data-bs-target="#demo" data-bs-slide-to="2"></button> </div>
- <!-- The slideshow/carousel --> <div class="carousel-inner"> <div class="carousel-item active">  <!--Caption-->
- <div class="carousel-caption"> <h3>Los Angeles</h3> <p>We had such a great time in LA!</p></div> </div>
- <div class="carousel-item">
-  <!--Caption--> <div class="carousel-caption"> <h3>Chicago</h3> <p>Thank you, Chicago!</p> </div> </div>
- <div class="carousel-item">  <!--Caption--> <div class="carousel-caption"> <h3>New York</h3> <p>We love the Big Apple!</p> </div> </div> </div>
- <!-- Left and right controls/icons -->
- <button class="carousel-control-prev" type="button" data-bs-target="#demo" data-bs-slide="prev"> <span class="carousel-control-prev-icon"></span> </button>
- <button class="carousel-control-next" type="button" data-bs-target="#demo" data-bs-slide="next"> <span class="carousel-control-next-icon"></span> </button> </div>
- <div class="container-fluid mt-3"> <h3>Carousel Example</h3> <p>The following example shows how to create a basic carousel with indicators and controls.</p> </div>
- </body>
- </html>

```
"Buttons Styles"
<!DOCTYPE html>
<html lang="en">
<head>
<title>Bootstrap Example</title>
<meta charset="utf-8">
visual code-Bootstrap5\css\bootstrap.min.css"> \الثالثة المرحلة<meta name="viewport" content="width=device-width, initial-scale=1"> <link rel="stylesheet" href="C:\Users\asus\Desktop\
</head>
<body> <div class="container"> <h2>Button Styles</h2>
<button type="button" class="btn">Basic</button>
<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-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-dark">Dark</button> <button type="button" class="btn btn-light">Light</button> <button type="button"
class="btn btn-link">Link</button> </div> <script src="C:\Users\asus\Desktop\visual code-Bootstrap5\js\bootstrap.min.js"></script> </body> </html>
```

-----

```
"Buttons outline Styles"
<!DOCTYPE html>
<html lang="en">
<head>
<title>Bootstrap Example</title> <meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1"> <link rel="stylesheet" href="C:\Users\asus\Desktop\visual code-Bootstrap5\css\bootstrap.min.css">
</head>
<body> <div class="container"><h2>Button Outline</h2>
<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-info">Info</button> <button type="button" class="btn btn-outline-
warning">Warning</button> <button type="button" class="btn btn-outline-danger">Danger</button> <button type="button" class="btn btn-outline-dark">Dark</button> <button
type="button" class="btn btn-outline-light text-dark">Light</button> </div>
<script src="C:\Users\asus\Desktop\visual code-Bootstrap5\js\bootstrap.min.js"></script> </body> </html>
```

-----

## Lab.6: Bootstrap Collection 2

"nav nav tabs"

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap Example</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1"> <link rel="stylesheet" href="C:\Users\asus\Desktop\visual code Bootstrap5\css\bootstrap.min.css">

</head>

<body>

<ul class="nav nav-tabs">

<li class="nav-item ">

<a class="nav-link active" aria-current="page" href="#" >Page1</a> </li>

<li class="nav-item">

<a class="nav-link " href="#" >Page2</a>

</li>

<li class="nav-item">

<a class="nav-link" href="#" >Page3</a>

</li>

<li class="nav-item">

<a class="nav-link disabled" href="#" tabindex="-1" aria-disabled="true">Disabled</a> </li>

</ul>

<script src="C:\Users\asus\Desktop\visual code-Bootstrap5\js\bootstrap.min.js"></script>

</body>

</html>

-----

"Navigation tabs with dropdown menu"

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<title>Bootstrap Example</title>
```

```
<meta charset="utf-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1"> <link rel="stylesheet"
```

```
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
```

```
</head>
```

```
<body>
```

```
<ul class="nav nav-tabs"> <li class="nav-item"> <a class="nav-link active" href="#">Active</a> </li> <li class="nav-item dropdown"> <a class="nav-link dropdown-toggle" data-  
toggle="dropdown" href="#" role="button">Dropdown</a>
```

```
<ul class="dropdown-menu">
```

```
<li><a class="dropdown-item" href="#">Action</a></li>
```

```
<li><a class="dropdown-item" href="#">Another action</a></li>
```

```
<li><a class="dropdown-item" href="#">Something else here</a></li> <li><hr class="dropdown-divider"></li>
```

```
<li><a class="dropdown-item" href="#">Separated link</a></li>
```

```
</ul>
```

```
</li>
```

```
<li class="nav-item">
```

```
<a class="nav-link" href="#">Link</a>
```

```
</li>
```

```
<li class="nav-item">
```

```
<a class="nav-link disabled" href="#" tabindex="-1">Disabled</a>
```

```
</li>
```

```
</ul>
```

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script> <script
```

```
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"></script> <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.0/js/bootstrap.min.js"></script>
```

```
</body>
```

```
</html>
```

"Toggleable Dynamic Tabs"

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap Example</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1"> <link rel="stylesheet"

href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">

</head>

<body> <div class="container"> <ul class="nav nav-tabs" id="myTab" role="tablist"> <li class="nav-item" role="presentation"> <a class="nav-link active" id="home-tab" data-toggle="tab"

href="#home" role="tab" aria-controls="home" aria-selected="true">Home</a> </li> <li class="nav-item" role="presentation"> <a class="nav-link" id="profile-tab" data-toggle="tab"

href="#profile" role="tab" aria-controls="profile" aria-selected="false">Profile</a> </li>

<li class="nav-item" role="presentation"> <a class="nav-link" id="contact-tab" data-toggle="tab" href="#contact" role="tab" aria-controls="contact" aria-selected="false">Contact</a> </li>

</ul> <div class="tab-content" id="myTabContent">

<div class="tab-pane fade show active" id="home" role="tabpanel"

aria-labelledby="home-tab">Raw denim you probably haven't heard of them jean shorts Austin. Nesciunt tofu stumptown aliqua, retro synth master cleanse. Mustache cliche tempor, williamsburg carles vegan helvetica. Reprehenderit butcher retro keffiyeh dreamcatcher synth. Cosby sweater eu banh mi, qui irure terry richardson ex squid. Aliquip placeat salvia cillum iphone. Seitan aliquip quis cardigan american apparel, butcher voluptate nisi qui.</div>

<div class="tab-pane fade" id="profile" role="tabpanel" aria-labelledby="profile-tab">Food truck fixie locavore, accusamus mcsweeney's marfa nulla single-origin coffee squid. Exercitation +1 labore velit, blog sartorial PBR leggings next level wes anderson artisan four loko farm-to-table craft beer twee. Qui photo booth letterpress, commodo enim craft beer mlkshk aliquip jean shorts ullamco ad vinyl cillum PBR. Homo nostrud organic, assumenda labore aesthetic magna delectus mollit. Keytar helvetica VHS salvia yr, vero magna velit sapiente labore stumptown. Vegan fanny pack odio cillum wes anderson 8-bit, sustainable jean shorts beard ut DIY ethical culpa terry richardson biodiesel. Art party scenester stumptown, tumblr butcher vero sint qui sapiente accusamus tattooed echo park.</div>

<div class="tab-pane fade" id="contact" role="tabpanel" aria-labelledby="contact-tab">Etsy mixtape wayfarers, ethical wes anderson tofu before they sold out mcsweeney's organic lomo retro fanny pack lo-fi farm-to-table readymade. Messenger bag gentrify pitchfork tattooed craft beer, iphone skateboard locavore carles etsy salvia banksy hoodie helvetica. DIY synth PBR banksy irony. Leggings gentrify squid 8-bit cred pitchfork. Williamsburg banh mi whatever gluten-free, carles pitchfork biodiesel fixie etsy retro mlkshk vice blog. Scenester cred you probably haven't heard of them, vinyl craft beer blog stumptown. Pitchfork sustainable tofu synth chambray yr.</div>

</div> </div><script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"></script> <script

src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.0/js/bootstrap.min.js"></script> </body>

</html>

## Lab.7: "Navbar-Collapse"

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Bootstrap Example</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1"> <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css"> <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script> <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script> </head>
<body> <nav class="navbar navbar-inverse"> <div class="container-fluid"> <div class="navbar-header"> <button type="button" class="navbar-toggle" data-toggle="collapse"
data-target="#myNavbar"> <span class="icon-bar"></span>
<span class="icon-bar"></span><span class="icon-bar"></span> </button>
<a class="navbar-brand" href="#">Web Development</a>
</div>
<div class="collapse navbar-collapse" id="myNavbar"> <ul class="nav navbar-nav"> <li class="active"><a href="#">Home</a></li><li class="dropdown">
<a class="dropdown-toggle" data-toggle="dropdown" href="#">Page 1 <span class="caret"></span></a> <ul class="dropdown-menu"> <li><a href="#">Page 1-1</a></li>
<li><a href="#">Page 1-2</a></li> <li><a href="#">Page 1-3</a></li> </ul></li>
<li><a href="#">Page 2</a></li> <li><a href="#">Page 3</a></li> </ul>
<ul class="nav navbar-nav navbar-right">
<li><a href="#"><span class="glyphicon glyphicon-user"></span> Sign Up</a></li> <li><a href="#"><span class="glyphicon glyphicon-log-in"></span> Login</a></li> </ul>
</div> </div></nav>
<div class="container"> <h3>Collapsible Navbar</h3>
<p>In this example, the navigation bar is hidden on small screens and replaced by a button in the top right corner (try to re-size this window). <p>Only when the button is clicked, the
navigation bar will be displayed.</p> </div>
</body> </html>
```

## Lab.8: "Navbar-External-Content"

```
<!DOCTYPE html> <html lang="en"> <head> <title>Bootstrap Example</title>
<meta charset="utf-8"> <meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="C:\Users\asus\Desktop\visual code-Bootstrap5\css\bootstrap.min.css">
</head>
<body> <div class="collapse" id="navbarToggleExternalContent">
<div class="bg-dark p-4"> <h5 class="text-white h4">Collapsed content</h5>
<span class="text-muted">Toggleable via the navbar brand.</span>
</div> </div>
<nav class="navbar navbar-dark bg-dark"> <div class="container-fluid"> <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarToggleExternalContent" aria-controls="navbarToggleExternalContent" aria-expanded="false" aria-label="Toggle navigation">
<span class="navbar-toggler-icon"></span>
</button> </div> </nav>
<script src="C:\Users\asus\Desktop\visual code-Bootstrap5\js\bootstrap.min.js"></script> </body> </html>
```

-----

"Container"

```
<html> <html lang="en"> <head> <title>Bootstrap Example</title>
<meta charset="utf-8"> <meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="C:\Users\asus\Desktop\visual code-Bootstrap5\css\bootstrap.min.css"> </head>
<body>
<div class="container"><h1>My First Bootstrap Page</h1> <!-- div class="container-fluid" --> <p>This part is inside a .container class.</p>
<p>The .container class provides a responsive fixed width container.</p>
<p>Resize the browser window to see that its width (max-width) will change at different break points fkk rkgr lkerj gwj'ij oijjowiejg W'J WJw jWE JGwj]tW JjEWG erre R er yWRg
</p> </div>
<script src="C:\Users\asus\Desktop\visual code-Bootstrap5\js\bootstrap.min.js"></script>
</body> </html>
```

-----

"Container-padding-bg-border"

```
<html> <html lang="en"> <head> <title>Bootstrap Example</title>
<meta charset="utf-8"> <meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="C:\Users\asus\Desktop\visual code-Bootstrap5\css\bootstrap.min.css"> </head>
<body> <div class="container p-3 my-3 border"><!--.pt-3 means "add a top padding of 16px"-->
<h1>My First Bootstrap Page</h1> <p>This container has a border and some extra padding and margins.</p></div>
<div class="container p-3 my-3 bg-dark text-white"> <h1>My First Bootstrap Page</h1>
<p>This container has a dark background color and a white text, and some extra padding and margins.</p>
</div> <div class="container p-3 my-3 bg-primary text-white"> <h1>My First Bootstrap Page</h1>
<p>This container has a blue background color and a white text, and some extra padding and margins.</p>
</div> <script src="C:\Users\asus\Desktop\visual code-Bootstrap5\js\bootstrap.min.js"></script>
</body>
</html>
```

-----

```
"Responsive Container" <!DOCTYPE html> <html lang="en"> <head> <title>Bootstrap Example</title> <meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1"> <link rel="stylesheet" href="C:\Users\asus\Desktop\visual code-
Bootstrap5\css\bootstrap.min.css"> </head>
<body> <div class="container"> <h1>Responsive Containers</h1>
<p>Resize the browser window to see the effect.</p> </div>
<div class="container-sm border">.container-sm</div>
<div class="container-md mt-3 border">.container-md</div>
<div class="container-lg mt-3 border">.container-lg</div>
<div class="container-xl mt-3 border">.container-xl</div>
<!--mt=margin top-->
<script src="C:\Users\asus\Desktop\visual code-Bootstrap5\js\bootstrap.min.js"></script>
</body> </html> -----
```

# Lab.9: JavaScript

## “Show date of your PC”

```
<!DOCTYPE html>
<html>
<body>

<h2>My First JavaScript</h2>

<button type="button" onclick="document.getElementById('demo').innerHTML =Date()">
Click me to display Date and Time.</button>

<p id="demo"></p>

</body>
</html>
```

---

## js change CSS style

```
<!DOCTYPE html>
<html>
<body>

<h2>What Can JavaScript Do?</h2>

<p id="para">JavaScript can change the style of an HTML element.</p>

<button type="button" onclick="document.getElementById('para').style.fontSize='35px'">
Click Me!</button>

</body>
</html>
```

---

## js-changeHTML attribute

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h2>What Can JavaScript Do?</h2>
```

```
<p>JavaScript can change HTML attribute values.</p>
```

```
<p>In this case JavaScript changes the  
value of the src (source) attribute of an image.</p>
```

```
<button onclick="document.getElementById('myImage').src='on-bulb.jpg'">  
Turn on the light</button>
```

```

```

```
<button onclick="document.getElementById('myImage').src='off-bulb.jpg'">  
Turn off the light</button>
```

```
</body>
```

```
</html>
```

---

### js-hide and showHTMLelements

```
<!DOCTYPE html>
<html>
<body>
<h2>What Can JavaScript Do?</h2>
<p id="para">JavaScript can hide and show HTML elements.</p>
<button type="button" onclick="document.getElementById('para').style.display='none'">
Hide!</button>
<button type="button" onclick="document.getElementById('para').style.display='block'">
Show!</button>
</body>
</html>
```

---

### Js-html change content

```
<!--Js change html content-->
<!DOCTYPE html>
<html>
<body>
<h2>What Can JavaScript Do?</h2>
<p id="para">JavaScript can change HTML content.</p>

<button type="button"
onclick='document.getElementById("para").innerHTML = "Hello JavaScript!'">
Click Me!</button>
</body>
</html>
```

---

# Lab.10: JavaScript

## Js in body

```
<!--JavaScript in <head> or <body>-->
<!DOCTYPE html>
<html>
<body>
<h2>JavaScript in Body</h2>
<p id="cp">A Paragraph will be changed on button click.</p>
<button type="button" onclick="changePara()">Try it</button>
<script>
function changePara() {
  document.getElementById("cp").innerHTML = "Paragraph changed";
}
</script>
</body>
</html>
```

---

## Js in head

```
<!--JavaScript in <head> or <body>-->
<!DOCTYPE html>
<html>
<head>
<script>
function changePara() {
  document.getElementById("cp").innerHTML = "Paragraph changed.";
}
</script>
</head>
<body>
<h2>JavaScript in Head</h2>
<p id="cp">A Paragraph will be changed on button click.</p>
<button type="button" onclick="changePara()">Try it</button>
</body>
</html>
```

---

### Js External

```
<!--External JavaScript-->
<!DOCTYPE html>
<html>
<body>
<h2>External JavaScript</h2>
<p id="cp">A Paragraph will be changed on button click.</p>
<button type="button" onclick="changePara()">Try it</button>
<script src="externalJs.js"></script>
</body>
</html>
```

---

#### “externalJs.js”

```
function changePara() {
  document.getElementById("cp").innerHTML = "Paragraph changed.";
}
```

---

### JsDomHTMLLevent

```
<!--DOM=Document Object Model-->
<!DOCTYPE html>
<html>
<body>
<div onmouseover="mOver(this)" onmouseout="mOut(this)"
style="background-color:#D94A38;width:120px;height:20px;padding:40px;">
Mouse Over Me</div>
<script>
function mOver(obj) {
  obj.innerHTML = "Thank You"
}
function mOut(obj) {
  obj.innerHTML = "Mouse Over Me"
}
</script>
</body>
</html>
```

```
<!--<!DOCTYPE html>
<html>
<body>

<div id="x" onmouseover="mOver()" onmouseout="mOut()"
style="background-color:#D94A38;width:120px;height:20px;padding:40px;">
Mouse Over Me</div>

<script>
function mOver() {
    document.getElementById('x').innerHTML = "Thank You"
}

function mOut() {
    document.getElementById('x').innerHTML = "Mouse Over Me"
}
</script>

</body>
</html>
```

Mustafa S. Abd

# Lab.11: JavaScript

## JsDomHTMLeventBy-getElement

<!--DOM=Document Object Model-->

<!DOCTYPE html>

<html>

<body>

<div id="x" onmouseover="mOver()" onmouseout="mOut()" style="background-color:#D94A38;width:120px;height:20px;padding:40px;">  
Mouse Over Me</div>

<script>

function mOver() {  
 document.getElementById("x").innerHTML = "Thank You"  
}

function mOut() {  
 document.getElementById("x").innerHTML = "Mouse Over Me"  
}

</script>

</body>

</html>

-----  
<html>

<body>

<div id="x" onmouseover="mOver()" onmouseout="mOut()" style="background-color:#D94A38;width:120px;height:20px;padding:40px;">  
Mouse Over Me</div>

<script>

function mOver() { document.getElementById('x').innerHTML = "Thank You"}

function mOut() { document.getElementById('x').innerHTML = "Mouse Over Me"}

</script>

Mustafa S. Abd

### **findItembyClassname**

```
<!DOCTYPE html>
<html>
<body>
<h2>Finding HTML Elements by Class Name</h2>
<p class="MSA">The course was very helpful.</p>
<p class="MSA">This course was not useful.</p>
<p id="para"></p>
<script>
var x = document.getElementsByClassName("MSA");
document.getElementById("para").innerHTML =
'The selected paragraph with class="MSA" was: ' + x[1].innerHTML;
</script>

</body>
</html>
```

Mustafa S. Abd

# Lab.12: JavaScript

## “JavaScript Can Validate Numeric Input”

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h2>JavaScript Validation</h2>
```

```
<p>Please input a number between 1 and 10:</p>
```

```
<input id="numb" required>
```

```
<button type="button" onclick="myFunction()">Submit</button>
```

```
<p id="demo"></p>
```

```
<script>
```

```
function myFunction() {
```

```
    // Get the value of the input field with id="numb"
```

```
    let x = document.getElementById("numb").value;
```

```
    // If x is Not a Number or less than one or greater than 10
```

```
    let text;
```

```
    if (isNaN(x) || x < 1 || x > 10) {
```

```
        text = "Input not valid";
```

```
    } else {
```

```
        text = "Input OK";
```

```
    }
```

```
    document.getElementById("demo").innerHTML = text;
```

```
}
```

```
</script>
```

```
</body>
```

```
</html>
```