

Lab 11: CSS

CLO 3:

Introducing CSS and CSS Styling: CSS selectors, inline, external, and internal, colors, background, border, margins, paddings, table styles, forms

Website development



HTML & CSS

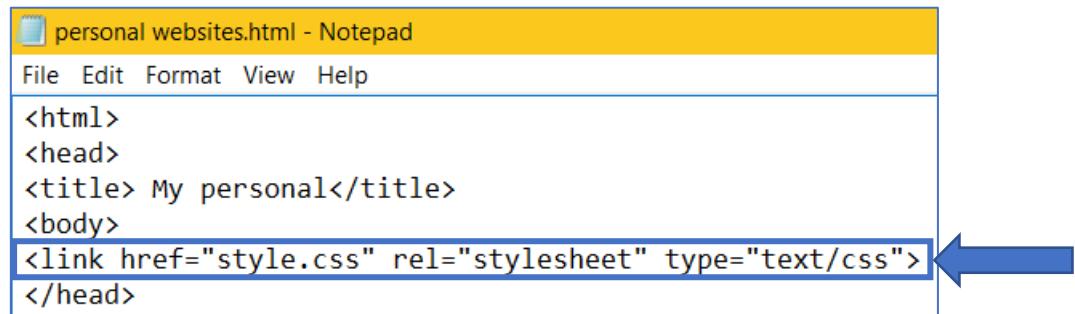
Introduction to CSS

- **CSS** stands for **Cascading Style Sheets**
- CSS describes **how HTML elements are to be displayed on screen, paper, or in other media**
- CSS **saves a lot of work**. It can control the layout of multiple web pages all at once
- External style sheets are stored in **CSS files**

1. Linking CSS style sheet with HTML

Link the css style sheet with html.

The “rel” stands for relationship. It denotes that, we connect an external CSS with the HTML page.



A screenshot of a Windows Notepad window titled "personal websites.html - Notepad". The window contains an HTML document structure. A blue arrow points from the text "Figure 120-linkin css style sheet with htm file" to the line of code: <link href="style.css" rel="stylesheet" type="text/css">. The entire code block is highlighted in blue.

```
<html>
<head>
<title> My personal</title>
<body>
<link href="style.css" rel="stylesheet" type="text/css">
</head>
```

Figure 120-linkin css style sheet with htm file

2. CSS Selectors

- Element Selector
- Id Selector
- Class Selector
- Universal Selector
- Grouping Selector

Element Selector

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

Id Selector

```
#para1 {  
    text-align: center;  
    color: red;  
}
```

Class Selector

```
.center {  
    text-align: center;  
    color: red;  
}
```

Universal Selector

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

Group Selector

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

3. Three Ways to Insert CSS

There are three ways of inserting a style sheet:

- External CSS
- Internal CSS
- Inline CSS

4. Css Colors

- Background color
- Text color
- Border Color
- Color Values

5. Background

- Background Color
- Background Image
- Background Repeat
- Background Position

- Background attachment
- Background Shorthand

```
body {
  background-color: #ffffff;
  background-image: url("img_tree.png");
  background-repeat: no-repeat;
  background-position: right top;
}

body {
  background: #ffffff url("img_tree.png") no-repeat right top;
}
```

When using the shorthand property the order of the property values is:

- `background-color`
- `background-image`
- `background-repeat`
- `background-attachment`
- `background-position`

6. Border

```
p.dotted {border-style: dotted;}
p.dashed {border-style: dashed;}
p.solid {border-style: solid;}
p.double {border-style: double;}
p.groove {border-style: groove;}
p.ridge {border-style: ridge;}
p.inset {border-style: inset;}
p.outset {border-style: outset;}
p.none {border-style: none;}
p.hidden {border-style: hidden;}
p.mix {border-style: dotted dashed solid double;}
```

- Round Boarder

```
p {
  border: 2px solid red;
  border-radius: 5px;
}
```

7. Margin

Margins are used to create space around elements, outside of any defined borders.

All the margin properties can have the following values:

- auto - the browser calculates the margin
- length - specifies a margin in px, pt, cm, etc.
- % - specifies a margin in % of the width of the containing element

8. Padding

The CSS padding properties are used to generate space around an element's content, inside of any defined borders.

```
div {  
    padding-top: 50px;  
    padding-right: 30px;  
    padding-bottom: 50px;  
    padding-left: 80px;  
}
```

9. Table

- Table Border
- Table Size
- Table Alignment
- Table style
- Table Responsive

```
table, th, td {  
    border: 1px solid;  
}  
  
table {  
    border-collapse: collapse;  
}  
  
table {  
    width: 100%;  
}
```

Table Alignment

- Horizontal Alignment (like left, right, or center)

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

- Vertical Alignment (like top, bottom, or middle)

```
td {  
    height: 50px;  
    vertical-align: bottom;  
}
```

Table Style

- Table padding(To control the space between the border and the content in a table, use the padding property on <td> and <th> elements)

```
th, td {  
    padding: 15px;  
    text-align: left;  
}
```

- Horizontal Dividers(Add the border-bottom property to <th> and <td> for horizontal dividers)

- Hover able Table(Use the :hover selector on <tr> to highlight table rows on mouse over)

```
tr:hover {background-color: coral;}
```

- Striped Table(For zebra-striped tables, use the nth-child() selector and add a background color to all even (or odd) table rows)

- Table Color

```
th {  
    background-color: #04AA6D;  
    color: white;  
}
```

Table Responsive

A responsive table will display a horizontal scroll bar if the screen is too small to display the full content. Add a container element (like <div>) with **overflow-x:auto** around the <table> element to make it responsive.

```
<div style="overflow-x:auto;">  
  
<table>  
... table content ...  
</table>  
  
</div>
```