Web Design



CSS Basic Introduction

Third Stage/Semester 1

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Lecture

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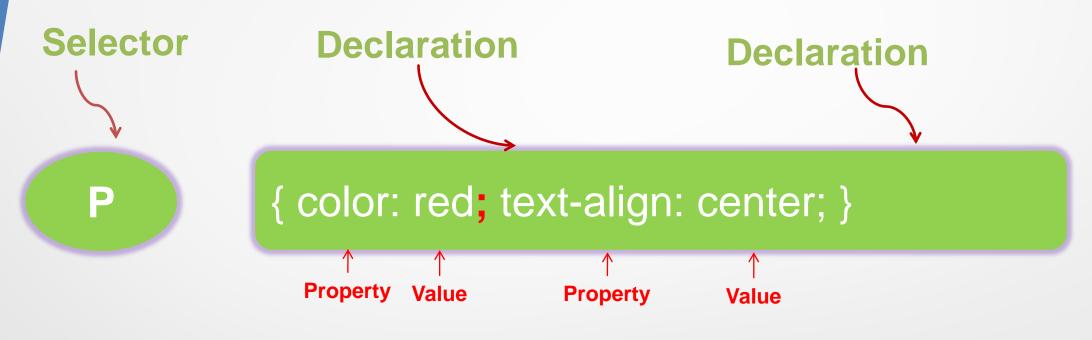
Outlines

- **CSS** Basic Introduction.
- CSS Selectors.
- ➤ Ways to apply CSS to HTML Document.
- Styling Links.
- > Styling Lists.
- Styling Tables.
- CSS Box Model(Border, Margin Padding & Content).
- CSS Display & Float Properties.

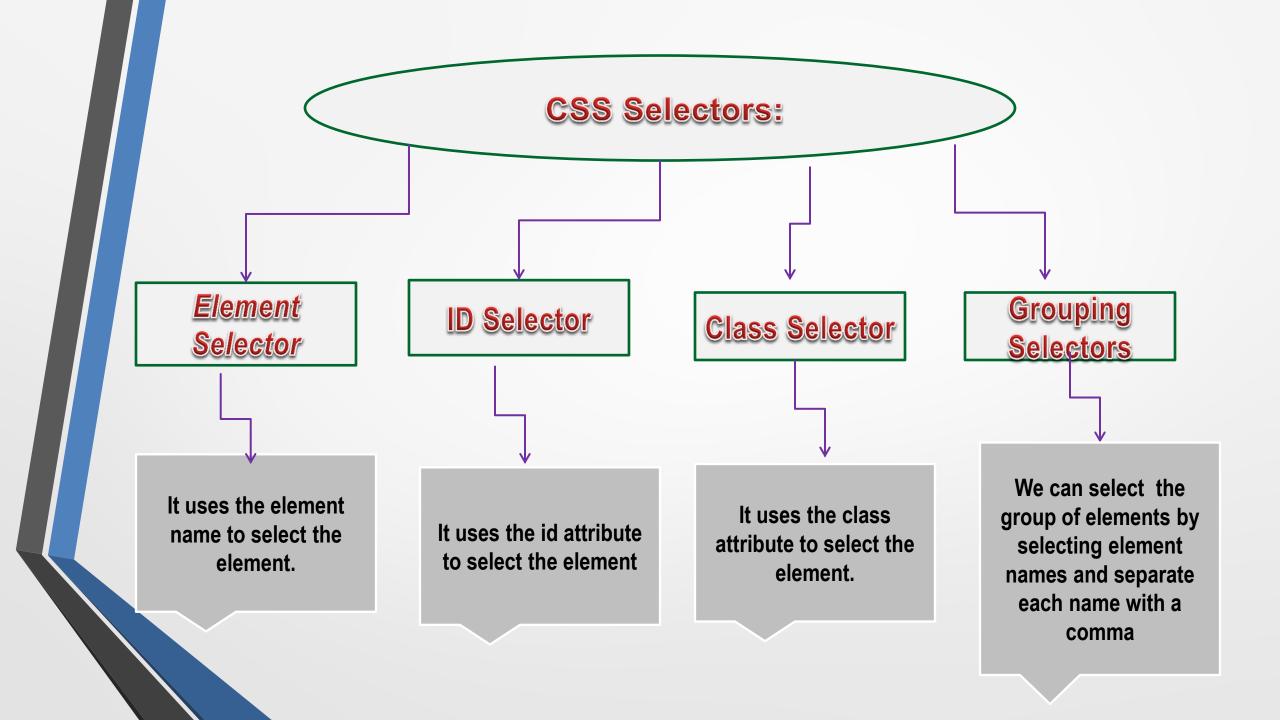
Cascading Style Sheets (CSS)

- > CSS stands for Cascading Style Sheets.
- **CSS** is a stylesheet language that styles (formats) the presentation of an HTML document.

CSS Syntax



- Selector points to element that you want to style.
- Declaration includes a property name and a value to style the selected element.



Element Selector

- The element selector selects elements depend on the element name.
- **Example1: Element selector**

</body>

```
<head>
                         p {
              <style>
                                 text-align: center;
                                  color: blue; }
               </style>
 </head > <body>
      First paragraph is affected by CSS style.
      Second paragraph is also affected by CSS style.
```

ID Selector

- The id selector uses # and the value of id attribute to select a specific elements.
- **Example2: ID selector**

```
<head>
            <style>
                      #FirstP {
                                text-align: center;
                                 color: blue; }
             </style>
</head > <body>
    First paragraph is affected by CSS style.
    Second paragraph is not affected by CSS style.
body>
```

Class Selector

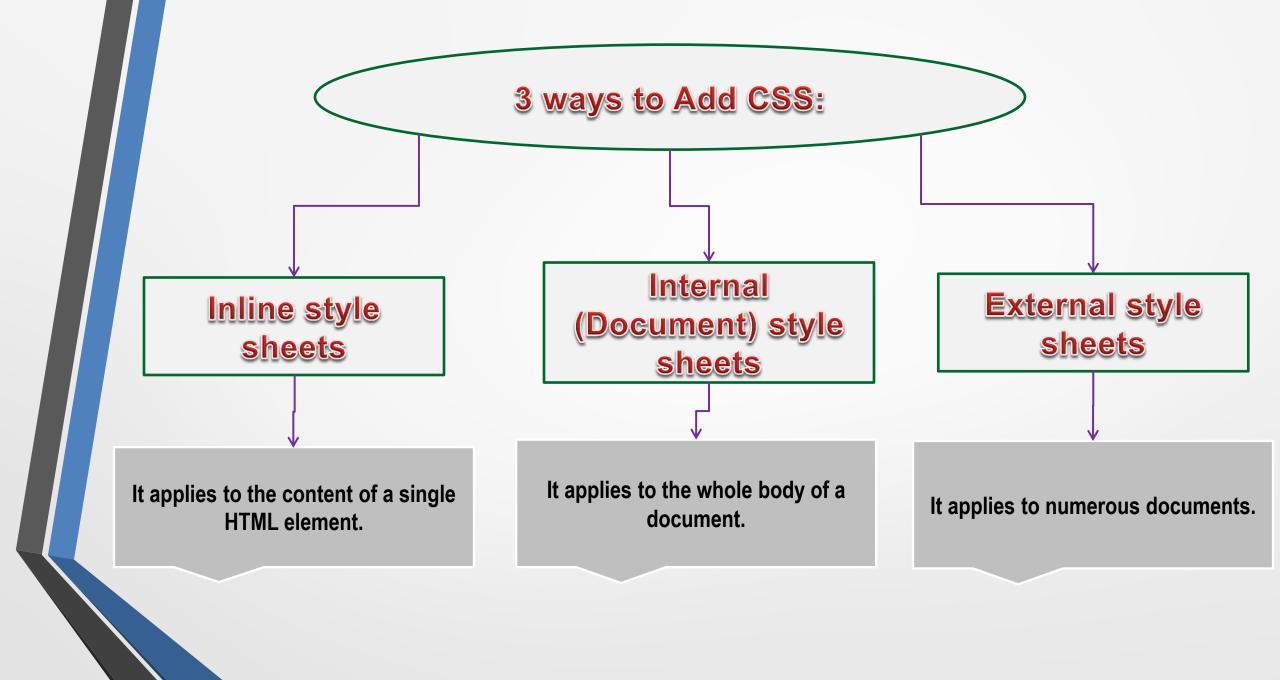
- The class selector uses dot and the value of class attribute to select the elements.
- **Example3: Class selector**

```
<head>
              .mobile {
       <style>
                    color: blue;
        </style>
</head > <body>
  lphone
                          HTC
                Nokia
                           Samsung
```

Grouping Selectors

- The grouping selector uses the group of element names to select the elements.
- **Example4: Grouping selector**

```
<head>
                         h1,p {
             <style>
                                 text-align: center;
                                  color: blue; }
              </style>
</head > <body>
    <h1> Both h1 and p are affected by CSS style.</h1>
     Both h1 and p are affected by CSS style.
</body>
```



Inline style sheets

- It applies a unique style for a single element in the page so this may lead to inconsistencies. For example similar elements maybe formatted differently.
- It mixes the content and presentation of the document.
- It can be defined within the style attribute inside an HTML element.
- **Example5: Inline Style Sheet**
- <h1 style=" text-align: center; color: red;" >This is a heading.</h1>

Internal(Document) style sheets

- It applies to one single page which has a unique style throughout the website.
- It allows for a clean separation of content and presentation.
- It can be defined within the <style> element, inside the <head> section of an HTML page.
- Example6: Internal Style Sheet

First paragraph is affected by internal CSS style.

Second paragraph is also affected by internal CSS style.

External style sheets

- It can be applied to many pages so we can change the style of an entire website by changing just one file.
- It can be defined in an external CSS file.
- Example7: External Style Sheet , 1- CSS file, which will simply look something like

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

The **style** attribute is used to change background color, text colors, text fonts, text sizes and text alignment.

External style Example: 1- CSS file, which will simply look something like

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

If this file is saved as "style.css" then it can be linked to in the HTML like this: 2-**HTML file** which looks like this.

Styling Links

> A:link:

Defines the style for normal links.

> A:active:

Defines the style for active links.

A link becomes active once you click on it.

> A:hover:

Defines the style for hovered links. A link is hovered when the mouse moves over it.

Styling Links

The **text-decoration** property adds and removes the underlines from links. e.x1: text-decoration: underline; text-decoration: none;

The background-color property specifies the background color for links.

ex2: background-color: blue;

Example8: Link style

```
<style>
            a:link {
                   text-decoration: none;
            a:hover {
                 text-decoration: underline;
            a:active {
                 background-color:blue;
</style>
<body>
      Click the following link:
       <a href="CSS_Lecture.html" alt="CSS_Lecture" > Css Lecture</a>
</body>
```

Styling Lists

- The **list-style-type** property specifies the type of list item marker. it's values are circle, square, upper-roman and lower-alpha. Ex: list-style-type: square;
- The list-style-image specifies an image as the list item marker. Ex: list-style-image: url('sqpurple.jpg');

Example9: List style

```
<style>
        ul {
          list-style-image: url('img01.jpg');
</style>
<body>
        <l
          Flower 1
          Flower 2
          Flower 3
        </body>
```

Styling Tables

- The **border** property specifies table borders.
- The **padding** property is used to control the space between the border and content in a table.

Example 10: Table style

```
<style>
        table, td, th {
                      border: 1px solid green;
        th {
             background-color: green;
             color: white;
       td {
            padding: 15px;
</style>
```

CSS Box Model(Border, Margin Padding & Content)

- The CSS box Model is usually used when talking about design and layout.
- The **Margin** is the area outside of the element. It never has color, it is always transparent.
- The **Border** extends around the element.
- The **padding** exists around the content and inherits the background color of the content area.
- The **Content** is surrounded by padding.



Figure1:CSS Box Model

Margin & Padding

We can specify different margins & padding for different sides of an element.

```
Margin example:
p{
  margin-top: 100px;
  margin-right: 100px;
  margin-bottom: 150px;
  margin-left: 50px;
}
```

```
Padding example:

p {

   padding-top: 25px;

   padding-right: 50px;

   padding-bottom: 25px;

   padding-left: 50px;
}
```

Example11: Margin & padding

```
<head>
     <style>
             p {
                   padding: 25px; // all four padding sides are 25px.
                   border: 25px solid blue;
                   width: 300px;
                   height: 300px;
                  margin: 25px; ; // all four margin sides are 25px.
     </style>
</head>
<body>
      Google .com.
</body>
```

Display & Float

- The **Display** property uses to change how the element is displayed. Ex: **Display: inline**;
- Example12: Display & Float

```
<style>
              li{
                    Display: inline;
       </style>
<body>
   <l
     <a href="#HTML" >HTML
      <a href="# CSS" > CSS
      <a href="# JAVAScript " > JAVAScript
   </body>
```

Float

- The **Float** property allows elements to be moved around in the design such that other elements wrap around them.
- The Clear property specifies which side(s) of floating elements are not allowed. It's values are: Clear: left, Clear: right, Clear: Both.