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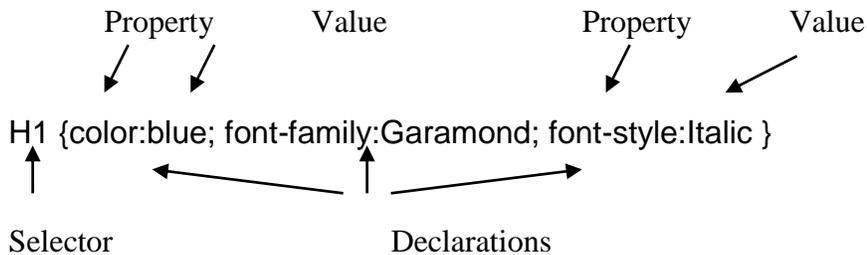
**Web Designing – Cascading Style Sheets**

## Cascading Style Sheets (CSS)

CSS stands for Cascading Style Sheets. It defines **how to display** HTML elements in a web page. CSS commands can be written internally or as an External Style Sheet. External Style Sheets saved a lot of work and they are saved as "css" file.

### CSS Syntax

Two main parts of CSS are selector, and one or more declarations.



### Style Sheets with HTML File

#### Example 1:

Change the properties of "H1" Tag. These properties are changing all the "<H1>" tags of this HTML Page.

```
<html>
<head>
<style type="text/css">
H1{color:blue; font-family:Garamond; font-style:Italic }
</style>
</head>
<Body>
<H1>Hello</h1>
<H2>Hello</h2>
<H3>Hello</h3>
</body>
</html>
```

#### Example 2:

Change the properties of "Paragraph" Tag. These properties are changing all the "<P>" tags of this HTML Page.

```
<html>
<head>
<style type="text/css">
P{text-align:center; text-transform:uppercase; color:red;font-size:30pt; font-style:Italic;
font-family:Garamond }
</style>
</head>
<Body>
<p>Hello Sri Lanka</p>
<br>
<h2>Hello</h2>
</body>
</html>
```

**Example 3 :**  
**Change the properties of "<TH>" and "<TD>" Tags of this HTML file.**

```
<html>
<head>
<style type="text/css">
TH{background:yellow }
TD{background:#cc66cc; text-align:center; color:blue}
</style>
</head>
<Body>
<table border="2" width="20%">
<Tr><th>Name</th><th>Age</th></tr>
<Tr><td>Ravi</td><td>23</td></tr>
<Tr><td>Saman</td><td>45</td></tr>
</table>
</body>
</html>
```

**Example 4**  
**Change the properties of "<Body>" Tag of this HTML file.**

```
<html>
<head>
<style type="text/css">
body{background:yellow; color:red; }
a:link{color:red; background:green}
a:visited{color:blue; background:green}
a:active{color:pink; background:white}
</style>
</head>
<Body>
<table border="2" width="20%">
<Tr><th>Name</th><th>Age</th></tr>
<Tr><td>Ravi</td><td>23</td></tr>
<Tr><td>Saman</td><td>45</td></tr><br>
<font size=6>
<a href="les1.html">Lesson1</a>
</font>
</table>
</body>
</html>
```

## CSS Comments

You can write Comments of your CSS Codes for future usage. Comments are ignored by browsers.

CSS comments are begins with "/\*", and ends with "\*/", like this:

### The “id” and “class” Selectors in CSS

You can specify your own selectors called "id" and "class" in CSS in order to setting a style in HTML element.

### The id Selector

This selector is used to specify a style for a single, unique element. This id attribute of the HTML element is defined with a "#". We will be applied to the element with id="firstpara" as follows.

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

Eg.

```
<html>
<head>
<style type="text/css">
#firstpara
{
text-align:center;
color:red;
}
</style>
</head>

<body>
<p id="firstpara">Hello World! *** This paragraph is affected by the style ***.</p>
<p>This paragraph is not affected by the style.</p>
</body>

</html>
```

### The class Selector

This selector is used to specify a style for a group of elements. This allows you to set a particular style for any HTML elements with the same class.

The class selector is defined with a "."

Eg.

all HTML elements with class="centergreen" will be center-aligned and text colour is green.

```
.centergreen {text-align:center;}
```

```

<html>
<head>
<style type="text/css">
.centergreen
{
text-align:center; color:green;
}
</style>
</head>

<body>
<h1 class="centergreen">Center-aligned heading</h1>
<p class="centergreen">Center-aligned paragraph.<br> Sri Lanka is very beautiful Country. Sinhalese are
the majority and Muslims, Tamils and other people are lived in our country. They are having different
religions such as Buddhism, Christian, Muslim. </p>
Welcome to the Pearl of the Indian Ocean Sri Lanaka.
</body>
</html>

```

## Three Ways to Insert CSS

There are three ways of inserting a style sheet.

- External style sheet
- Internal style sheet
- Inline style

### External Style Sheet

Save an external style sheet and each page must link to the style sheet using the <link> tag. The <link> tag goes inside the head section.

```

<head>
<link rel="stylesheet" type="text/css" href="style.css" />
</head>

```

You can use text editor to write an external style sheet and it should be saved with a .css extension.  
Eg.

```

H3 {text-align:center;}
p {margin-left:20px;}
body { background-color: #33cc66;}

```

## Internal Style Sheet

You can define internal styles in the head section of an HTML page, by using the <style> tag.

```
<head>
<style type="text/css">
H3 {text-align:center;}
p {margin-left:20px;}
body { background-color: #33cc66;}
</style>
</head>
```

## Inline Styles

An inline style loses many of the advantages of style sheets by mixing content with presentation.

Use this method sparingly!

To use inline styles you use the style attribute in the relevant tag. The style attribute can contain any CSS property. The example shows how to change the color and the left margin of a paragraph:

```
<p style="color:green;margin-left:25px">This is a paragraph.</p>
```

## How to use Background Effect in CSS

CSS background properties are used to define the background effects of an element.

**Following CSS properties are used for background effects.**

background-color, background-image, background-repeat, background-attachment, background-position

The background color can be specified by a color name, like "red" or RGB value or like "rgb(255,0,0)" or a hexadecimal value, like "#dd2205"

### Examples

```
Body {background-color:#33cc66}
```

```
H1 {background-color:#66AA34}
```

```
P {background-color:#BB4412}
```

```
DIV {background-color:#b1c6de}
```

### Background Image

```
body {background-image:url('sunset.jpg')}
```

## How to use Text Effect in CSS

### Text Color

```
body {color:blue;}
h1 {color:#00ff00;}
h2 {color:rgb(255,0,0);}
```

### Text Alignment

```
<html>
<head>
<style type="text/css">
h1 {text-align:center;}
p.date {text-align:right;}
p.main {text-align:left;}
</style>
</head>
<body>
<h1>CSS text-align Example</h1>
<p class="date">May, 2009</p>
<p class="main">Web development is very interesting!</p>
<p><b>Note:</b> Resize the browser window to see how the value "justify" works.</p>
</body>
</html>
```

### Text Decoration

```
<html>
<head>
<style type="text/css">
a {text-decoration:none;}
</style>
</head>
<body>
<p>Link to: <a href="http://www.pilicrc.sch.lk">Piliyandala Zonal CRC</a></p>
</body>
</html>
```

```
h1 {text-decoration:overline;}
h2 {text-decoration:line-through;}
h3 {text-decoration:underline;}
h4 {text-decoration:blink;}
```

## Text Transformation

```
<html>
<head>
<style type="text/css">
p.uppercase {text-transform:uppercase;}
p.lowercase {text-transform:lowercase;}
p.capitalize {text-transform:capitalize;}
p{ word-spacing:30px;}
</style>
</head>
<body>
<p class="uppercase">This is some text.</p>
<p class="lowercase">This is some text.</p>
<p class="capitalize">This is some text.</p>
</body>
</html>
```

## Text Indentation

```
p {text-indent:50px;}
```

## All CSS Text Properties

| Property                        | Description   |
|---------------------------------|---|
| <a href="#">color</a>           | Sets the color of text  |
| <a href="#">direction</a>       | Specifies the text direction/writing direction                |
| <a href="#">letter-spacing</a>  | Increases or decreases the space between characters in a text |
| <a href="#">line-height</a>     | Sets the line height  |
| <a href="#">text-align</a>      | Specifies the horizontal alignment of text                    |
| <a href="#">text-decoration</a> | Specifies the decoration added to text                        |
| <a href="#">text-indent</a>     | Specifies the indentation of the first line in a text-block   |
| text-shadow                     | Specifies the shadow effect added to text                     |
| <a href="#">text-transform</a>  | Controls the capitalization of text                           |
| unicode-bidi                    |   |
| <a href="#">vertical-align</a>  | Sets the vertical alignment of an element                     |
| <a href="#">white-space</a>     | Specifies how white-space inside an element is handled        |
| <a href="#">word-spacing</a>    | Increases or decreases the space between words in a text      |

## CSS Font

### Font Family

```
p{font-family:"Times New Roman", Times, serif;}
```

### Font Style

```
p.normal {font-style:normal;}
p.italic {font-style:italic;}
p.oblique {font-style:oblique;}
```

### Font Size

```
h1 {font-size:40px;}
h2 {font-size:30px;}
p {font-size:14px;}
h1 {font-size:2.5em;} /* 40px/16=2.5em */
h2 {font-size:1.875em;} /* 30px/16=1.875em */
p {font-size:0.875em;} /* 14px/16=0.875em */
```

### All CSS Font Properties

| Property                     | Description  |
|------------------------------|--|
| <a href="#">font</a>         | Sets all the font properties in one declaration                          |
| <a href="#">font-family</a>  | Specifies the font family for text                                       |
| <a href="#">font-size</a>    | Specifies the font size of text  |
| <a href="#">font-style</a>   | Specifies the font style for text  |
| <a href="#">font-variant</a> | Specifies whether or not a text should be displayed in a small-caps font |
| <a href="#">font-weight</a>  | Specifies the weight of a font   |

## CSS Links

### Styling Links

```
a:link {color:#FF0000;} /* unvisited link */
a:visited {color:#00FF00;} /* visited link */
a:hover {color:#FF00FF;} /* mouse over link */
a:active {color:#0000FF;} /* selected link */
```

### Text Decoration

```
<html>
<head>
<style type="text/css">
a:link {text-decoration:none;} /* unvisited link */
a:visited {text-decoration:none;} /* visited link */
a:hover {text-decoration:underline;} /* mouse over link */
a:active {text-decoration:underline;} /* selected link */
```

```

</style>
</head>
<body>
<p><b><a href="default.asp" target="_blank">This is a link</a></b></p>
<p><b>Note:</b> a:hover MUST come after a:link and a:visited in the CSS
definition in order to be effective.</p>
<p><b>Note:</b> a:active MUST come after a:hover in the CSS definition in order
to be effective.</p>
</body>
</html>

```

## Background Color

```

a:link {background-color:#B2FF99;}
a:visited {background-color:#FFFF85;}
a:hover {background-color:#FF704D;}
a:active {background-color:#FF704D;}

```

## CSS Tables

```

<html><head>
<style type="text/css">
table,th,td
{
border:1px solid black;
}
table {width:100%;}
th{height:50px; background-color:blue; color:white;}
td{text-align:center;}
</style>
</head>
<body>
<table>
<tr>
<th>First Name</th>
<th>Last Name</th>
</tr>
<tr>
<td>Pasan</td>
<td>Silva</td>
</tr>
<tr>
<td>Isuru</td>
<td>Ranasingha</td>
</tr>
</table>
</body></html>

```

## What is CSS Float?

With CSS float, an element can be pushed to the left or right, allowing other elements to wrap around it. It is useful technique.

### How Elements Float

Element can only be floated left or right. A floated element will move as far to the left or right as it can. The elements after the floating element will flow around it. The elements before the floating element will not be affected. If an image is floated to the right, a following text flows around it, to the left.

Eg1

```
<html><head>
<style type="text/css">
img
{
float:right;
}
</style>
</head>

<body>
<p>Image will float to the right </p>
<p>

I love my Country Sri Lanka. I love my Country Sri Lanka. I love my Country Sri Lanka.
I love my Country Sri Lanka. I love my Country Sri Lanka. I love my Country Sri Lanka.
I love my Country Sri Lanka. I love my Country Sri Lanka.
</p></body>
</html>
```

Image will float to the right

I love my Country Sri Lanka. I love my Country  
Sri Lanka. I love my Country Sri Lanka. I love  
my Country Sri Lanka. I love my Country Sri  
Lanka. I love my Country Sri Lanka. I love my  
Country Sri Lanka. I love my Country Sri Lanka.

