

Cascaded Style Sheets

1. What is CSS?

- **CSS** stands for **Cascading Style Sheet**, CSS describes **how HTML elements are to be displayed on screen, paper, or in other media**.
- HTML was NEVER intended to contain tags for formatting a web page, it was created to **describe the content** of a web page.

Implementation: Run demo1/index.html and demo2/index.html. this for students to imagine what the subject is taking about.

2. Three Ways to Insert CSS

There are three ways of inserting a style sheet:

- External style sheet

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

like [indexExternalCSS.html](#)

- Internal style sheet

```
<head>
<style>
body {
    background-color: linen;
}
</style>
</head>
```

like [indexInternalCSS.html](#)

- Inline style

```
<h1 style="color:blue;margin-left:30px;">This is a heading.</h1>
```

Implementation: Run index.html

3. Styling using element name, selector ID, and style class.

Implementation: Run index.html, examples in internal styling paragraph.

4. Pseudo-classes.

A pseudo-class is used to define a special state of an element. For example, it can be used to: style an element when a user mouse's over it or style visited and unvisited links differently.

Implementation: Run index2.html, the example uses a link to be colored when it's active, visited and unvisited.

What are Pseudo-Elements?

A CSS pseudo-element is used to style specified parts of an element.

For example, it can be used to:

- Style the first letter, or line, of an element
- Insert content before, or after, the content of an element

```
selector::pseudo-element {  
  property:value;  
}
```

Implementation: Run index2.html, the example uses a paragraph that colors the first line.

5. CSS3: (Please note this for student knowledge only, they are not required with any coding in this point)

CSS3 is the latest standard for CSS, Some of the most important CSS3 modules are:

- Selectors, Box Model, Backgrounds and Borders, Image Values and Replaced Content, Text Effects, 2D/3D Transformations, Animations, Multiple Column Layout, User Interface.

Implementation: Run css3.html, the example uses a paragraph that colors the first line.

