



**Oum El Bouaghi University**

**Faculty of Exact Sciences, Natural and Life Science**

**Department of Mathematics and Computer Science**

**Advanced Web programming**

**CSS3**

**Cascading Style Sheets**

**Concerned students**

**Faculty**

**Department**

**Level**

**Speciality**

**ESNL**

**MI**

**B3**

**ISSE**

- CSS3 or Cascading Style Sheets Level 3 is used for styling web pages to make them more attractive and user-friendly.
- Stylesheets allow describing the presentation of HTML elements separately from the content and its structure.
- This separation easily allows for modifying a site's style by editing a single file instead of going through HTML pages and changing the style of each tag.

**There are four levels of style definition called Cascade:**

1. The default style defines by each browser or all HTML tags.
2. The style defined in a separate style sheet and included in an HTML page using the **<link rel='stylesheet' href='URL d un fichier de styles .css' />** tag.
3. Style can be defined at the page level by introducing the **<style>** **</style>** tag within the **<head>** tag. **(not supported)**
4. The global **style** attribute allows to define a style for all HTML tags. **(not supported)**

- A CSS code can be written as follows:

**Selector**

{

**property: value;**

**property: value;**

**property: value;**

}

```
p{  
    font-size: 30px;  
    font-style: oblique;  
}
```

- **Universal Selector (\*) in CSS: Select all HTML elements**
  - **Example: \* { color: blue; }**
- **Style of a elements' category**
  - **Example: h1 { color: #FF00FF; }**
- **Style for multiple categories of elements**
  - **Example: h1, h2, h3, p { color: green; }**
- **Style for nested elements**
  - **Example: p em { color: red; } /\* Italics within a paragraph \*/**

- **Selectors: Used for selecting particular HTML elements where a style has to be applied.**
- **Select all the `<p>` and `<h1>` elements:**

```
Selector{  
    property:value  
}
```
- **Select all `<p>` under two divs: `div div p`**
- **Select one element with ID: Apply a CSS style based on a specific condition being fulfilled.**

- **Select a group of elements: Select every element having the class name “newStyle”.**

index.HTML

```
<!DOCTYPE html>
<html>
  <head>
    <title>my web page</title>
    <link rel="stylesheet" type="text/css"
href="selector.css" />
  </head>
  <body>
    <h1 class="newStyle">Title 1</h1>
    <p>First paragraph</p>
    <div>
      <div>
        <p class="newStyle">Second paragraph</p>
      </div>
    </div>
  </body>
</html>
```

style.css

```
.newStyle {
  color:red;
}
```

- **background-color**

```
background-color: white;  
background-color: #FFFFFF;
```

- **background-image**

```
background-image: url("URL");
```

- **background-repeat**

```
background-repeat: no-repeat;
```

- **background-position**

```
background-position: center;
```

<https://fonts.google.com/>

<https://www.w3schools.com/css/default.asp>