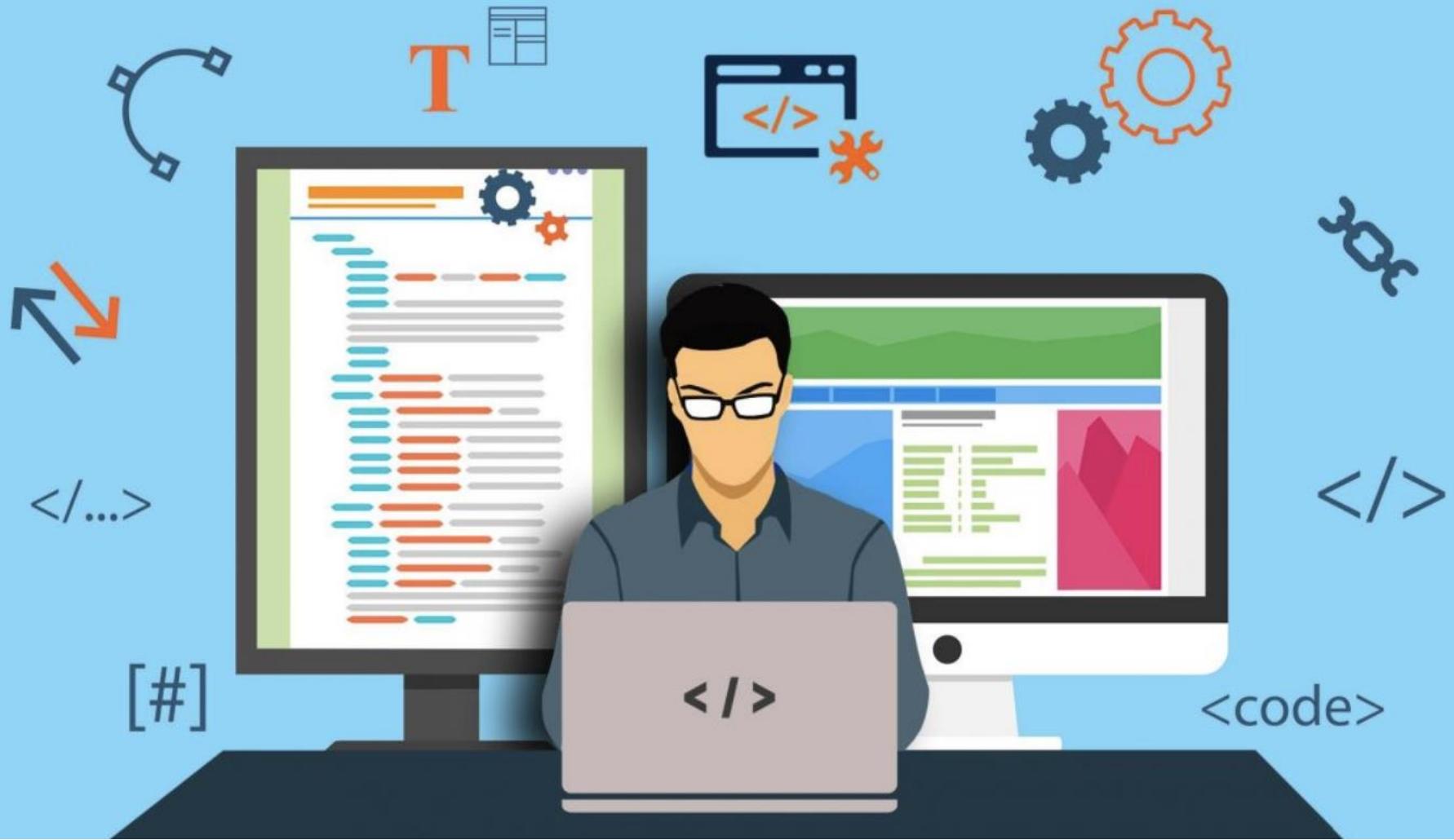
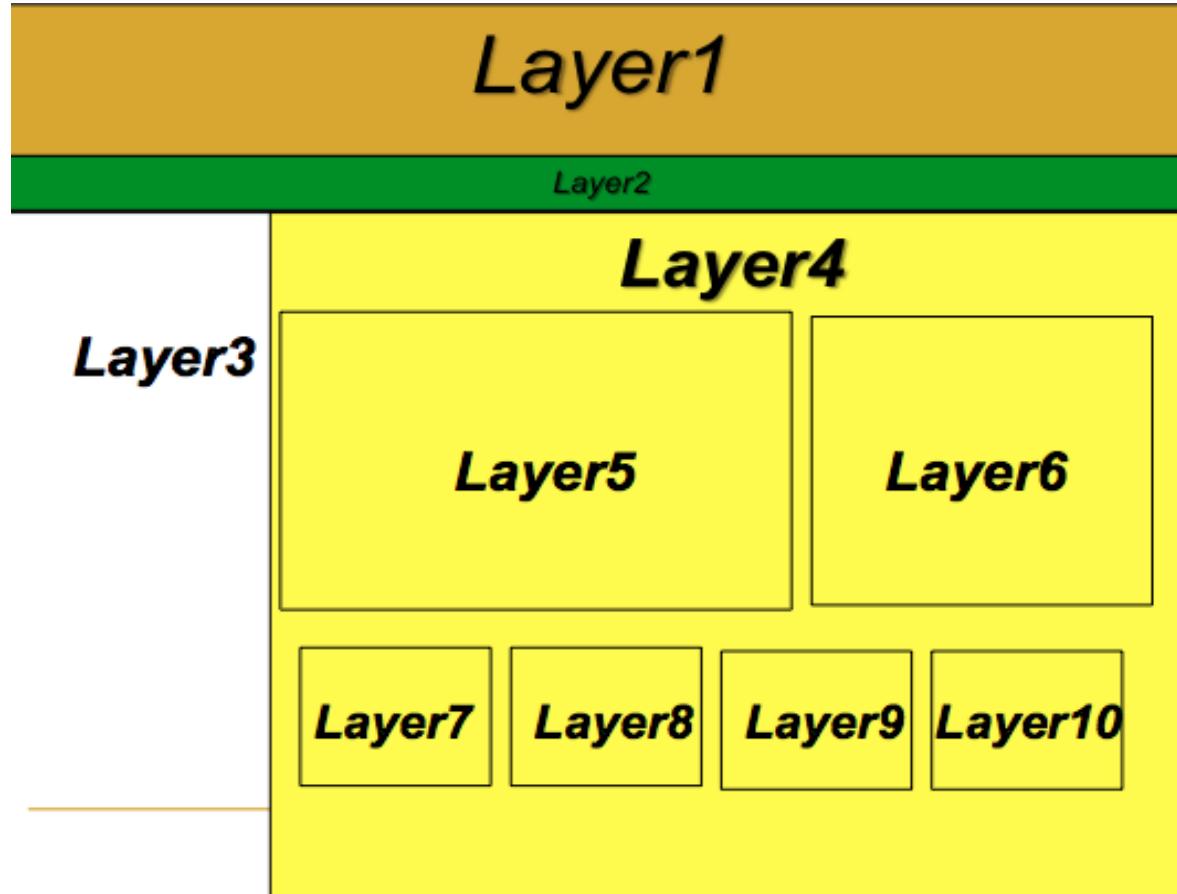


Cascading Style Sheets (CSS)



Introduction to CSS



Introduction to CSS

- Content and formatting are 2 separate parts
- The CSS concept separates content from presentation
- Editing content becomes easy and formatting becomes much more consistent

Independent website with CSS

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GARDAI launch investigation after cash from raid disappears from evidence bag.



Lose health cover and second car to get bank debt deal

Drastic lifestyle changes under new proposals.

Liquidators for IBRC sue

€43,000 dole fraud woman gets week to pay it all back

Probe into 'horrific' fox killing

RTE spends €1,000 per day on taxis despite

Breaking News National World Sport

08:21 Militants fire rockets at Israel

08:06 Flights hit by Lufthansa strike

07:51 Pearce - United move hasn't changed Zaha

07:51 Poyet in frame for Royals post

07:46 Bollywood star jailed on gun charge

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```
<?xml version="1.0" encoding="iso-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
 "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title></title>
</head>
<body style="background-color: #FFFF99">
<center></center>

<center><div style="position: absolute; top: 150px; width: 100%; height: 100px;
background-color: blue;">
<h1><font color="white">DT228-1 2nd Semester Subjects</font></h1>
</div></center>

<center><div style="position: absolute; top: 250px; width: 100%;
height: 100px;"><ul>
    <li> C Programming</li>
    <li> Web Development</li>
</ul></div></center>
</body>
</html>
```

These are all style attributes

CSS Syntax

- A **rule** is the fundamental syntactic unit of CSS
- A **CSS rule** is a statement that follows a specific syntax

```
p { margin : 0; padding : 0;}
```

CSS Syntax

- A **CSS style sheet** consists of a list of rules (statements)

```
/** Global Settings ****/
body {font : normal 12px/1.6em Arial, Helvetica, sans-serif;color : black;margin : 0;padding : 0;background:#000000; display:block;}
p { margin : 0;padding : 0;}
a:visited, a:link {color : black;text-decoration : underline;background:none;}
a:hover {color : #009933;text-decoration : none;background:none;}
h1 { color : black;margin: 0px 0px 0px 0px;font : normal 17px Arial, Helvetica, sans-serif;border-bottom : 1px solid #eфеce7;}
h2 {color : #918d8d;;margin : 0px 0 0px;font : normal 2.5em Arial, Helvetica, sans-serif;}
ul {padding:0;margin:0 0 0 17px;list-style: square url(images/bullet.gif);}
/** Layout ****/
#total {background : url(images/stars.jpg); position: fixed; bottom:0%;}
#wrapper {background : white; margin : 0 auto;width : 76%; border-top: 5px solid #009933;}
#header {margin : 0 1px;}
#bg {height : 36px;background : url(images/bg.gif) repeat-x;}
#title-image {padding-left:10%; padding-right:5%;margin-right:auto;display:block;}
#navcontainer{text-align: center;}
a.navlist:link,a.navlist:visited {
    text-decoration:none;
    border-top:0.4em solid;
    border-top-color:#FF33CC;    }
a.navlist:hover {
    text-decoration:none;
    border-bottom:0.4em;
    border-top:0;
    border-bottom-style:solid;
    border-bottom-color:#009933;
    color:#4A4849;}
#main-content {margin : 0 auto; width: 100%;}
#bold-list {font-weight : bold;}
#italic-list {font-style : italic;}
```

CSS Selectors & Declarations

■ CSS style rule selector:

- HTML element name
- class
- Id

h2 {color : #918d8d;;margin : 0px 0 0px;font : normal 2.5em Arial, Helvetica, sans-serif;}



CSS Selectors & Declarations

■ CSS style rule selector:

- HTML element name
- Class
- id

```
a.navlist:link,a.navlist:visited {  
    text-decoration:none;  
    border-top:0.4em solid;  
    border-top-color:#FF33CC; }
```

CSS Selectors & Declarations

■ CSS style rule selector:

- HTML element name
- Class
- id

① #wrapper {background : white; margin : 0 auto; width : 76%; border-top: 5px solid #009933;}

CSS Selectors & Declarations

■ CSS style rule selector:

- HTML element name
- class
- id

■ CSS style rule declaration:

- Indicates the CSS property that you are setting

```
#wrapper {background : white; margin : 0 auto; width : 76%; border-top: 5px solid #009933;}  
h2 {color : #918d8d;;margin : 0px 0 0px;font : normal 2.5em Arial, Helvetica, sans-serif;}  
a.navlist:link,a.navlist:visited {  
    text-decoration:none;  
    border-top:0.4em solid;  
    border-top-color:#FF33CC;    }
```

CSS Selectors & Declarations

Selector

*Declaration
Value*

```
body {color: blue;}
```

*Declaration
Property*

Linking CSS to HTML5

- Options for linking CSS to HTML:
 - **Inline CSS**: Used to apply style to one HTML tag only using the style attribute inside the tag
 - **Embedded CSS**: Used to apply style to an entire web page using the `<style>` tag inside the `<head>` tag
 - **External CSS**: Used to apply style to an entire website by saving the CSS code in its own external file and using the `<link>` tag in the `<head>` section
 - **Import CSS**: Works the same way as external CSS but uses the `@import` statement inside the `<style>` tag

CSS Option 1

■ Inline

- Affects individual HTML tag

```
<html>  
    ...  
  
    <body>  
        ...  
        <p style="font-family: Arial, sans-serif;">some text</p>  
    </body>  
</html>
```

Inline CSS

index.html

```
<html...>
<head>
...
</head>
<body>
Background is red
Font is blue
...
</body>
</html>
```

services.html

```
<html...>
<head>
...
</head>
<body>
Background is red
Font is blue
...
</body>
</html>
```

contact.html

```
<html...>
<head>
...
</head>
<body>
Background is red
Font is blue
...
</body>
</html>
```

Inline CSS

- Included (inline) in an HTML tag via the style attribute – in the **body**

```
<b style="color:blue; font-size:16;"> text goes  
here </b>
```

CSS Option 2

■ Embedded (in the head)

- Affects individual document

```
<html>
  <head>
    <style>
      p {font-family: Arial, sans-serif; }
    </style>
  </head>

  <body>
    ...
    <p>some text</p>
  </body>
</html>
```

Embedded CSS

index.html

```
<html...>
<head>
Background is red
Font is blue
</head>
<body>
....
</body>
</html>
```

services.html

```
<html...>
<head>
Background is red
Font is blue
</head>
<body>
....
</body>
</html>
```

contact.html

```
<html...>
<head>
Background is red
Font is blue
</head>
<body>
....
</body>
</html>
```

Embedded CSS

- Included in the HTML code of a web page via the `<style>` tag

```
<head>
```

```
...
```

```
<style>
```

```
  body {color: blue; background-color: #FFFF00;}
```

```
</style>
```

```
...
```

```
<head>
```

CSS Option 3

■ Separate text file (.css)

- e.g. styles.css

```
p {  
    font-family: Arial,  
    Sans-serif;  
}
```

```
<html>  
    <head>  
        ...  
        <link href="styles.css"  
              rel="stylesheet" type="text/css" />  
    </head>  
    <body>  
        ...  
        <p>some text</p>  
    </body>  
</html>
```

External CSS

style.css

*Background is red
Font is blue*

ONLY ONE STYLESHEET!!!

index.html

```
<html...>
<head>
<link ....>
</head>
<body>
...
</body>
</html>
```

services.html

```
<html...>
<head>
<link ....>
</head>
<body>
...
</body>
</html>
```

contact.html

```
<html...>
<head>
<link ....>
</head>
<body>
...
</body>
</html>
```



External CSS

- CSS code is stored in its own file that the HTML code of any web page can reference and use

```
<head>
```

```
....
```

```
<link rel="stylesheet" href="cssFile.css">
```

```
....
```

```
</head>
```

CSS Option 4

■ Imported

Into HTML file

```
<head>
  ...
<style>
  @import url("styles.css");
</style>
</head>
```

Into another style sheet

- @import instruction must be first line of file!

```
@import url("styles.css");

/*other stylesheet starts here*/
```

```
h1 {
  font-size: 200%;
  color: #6b84b5
}
```

Import CSS

- A style sheet may be imported with the at-rule - @import

<head>

.....

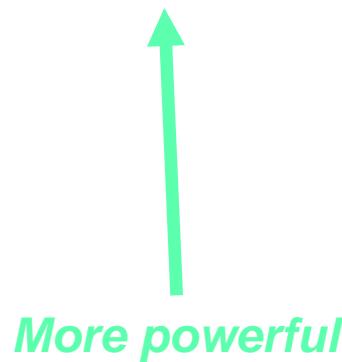
```
<style type="text/css">
@import url("myStyle.css");
@import url("http://www.aa.bb.cc/dd.css");
body {color: blue; background: yellow}
</style>
```

....

</head>

Order of Precedence

1. HTML formatting instructions (e.g. tags)
2. Inline styles
3. Embedded styles
4. Linked styles
5. Imported styles
6. Default browser styles



Code this web page using inline and embedded CSS

DT265

[Home](#) [Modules](#) [Contact](#)

There are two entries for this programme:

- *DT265: September entry*
- *DT8265: January entry*

Contact us on (01) 402800

Now, we want to use an external stylesheet..

1. Look at the short video on Brightspace – “Connecting a CSS Stylesheet”.
2. If the style sheet is not working, check the following:
 1. Are all files in the same folder – both html and css files
 2. In the <link> tag, is the name of the .css file spelt correctly (capital letters are taken into consideration)
 3. Is the syntax of the css rule correct? :, ;, {}

Now use an external stylesheet to style this page

```
<!doctype html>
<html>
<head>
<meta charset="UTF-8">
<title>Untitled Document</title>

</head>

<body>
    <header>
        <h1>DT265</h1>
    </header>

    <nav>
        <a href="home.html">Home</a>
        <a href="module.html">Modules</a>
        <a href="contact.html">Contact</a>
    </nav>

    <section>
        There are two entries for this programme:
        <ul>
            <li>DT265: September entry</li>
            <li>DT8265: January entry</li>
        </ul>
    </section>
    <br>
    <br>

    <footer>
        Contact us on (01) 4028000
    </footer>

</body>
</html>
```

DT265

[Home](#) [Modules](#) [Contact](#)

There are two entries for this programme:

- *DT265: September entry*
- *DT8265: January entry*

Contact us on (01) 4028000

Classes & IDs

Types of CSS styles

- Styles assigned to a HTML element
- Class selector styles
 - Define different styles for one or more HTML elements
 - Assigned to the class attribute within an HTML element
- ID selector styles
 - Define different styles for one and the same HTML element
 - Assigned to the ID attribute within an HTML element

Class Selector Styles

■ CSS:

```
...  
.blue {color: #082984}  
.red {color: #de2131}
```

■ HTML:

```
...  
<h1 class="red">Headline</h1>  
<p class="red">a summary</p>  
<p class="blue">some text</p>  
...
```

ID Selector styles

■ CSS

...

```
#red_heading {color: red}  
#summary {color: red}  
p#conclusion {color: blue}
```

■ HTML

...

```
<h1 id="red_heading">Headline</h1>  
<p id="summary">Summary</p>  
<p id="conclusion">Conclusion</p>
```

...

What is the Difference between **class** & **id**?

The difference between an **ID** and a **class** is that an ID can be used to identify one element, whereas a class can be used to identify more than one.

If you have a style that you want to apply several times throughout the document, you need to use a **Class**. However, if you only want to apply the style once (for instance, to position a particular element, such as a banner) you should use the **ID**.

Introduce classes or ids to the
DT265 website....

Reference

- Terry Felke-Morris (2013), *Web Development and Design Foundations with HTML*
- Ibrahim Zeid (2004), *Mastering the Internet, XHTML, and Javascript*