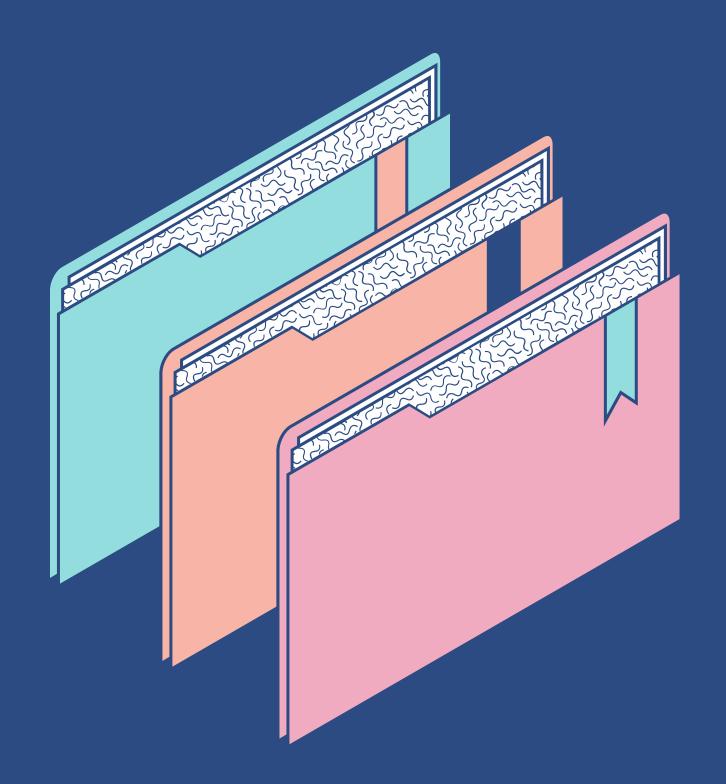


## Web programming

Week 4



## Lesson plan:

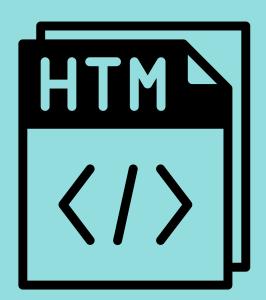
- HTML Styles CSS
- Class, ID
- HTML Layout

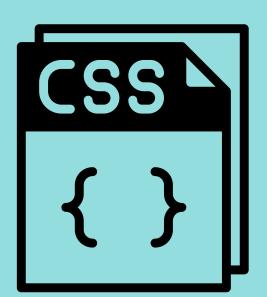
## Using CSS

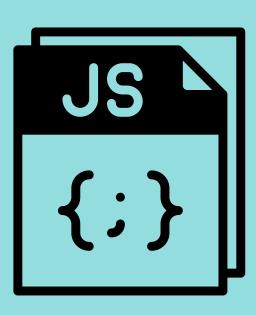


- Inline by using the style attribute inside HTML elements
- Internal by using a <style> element in the <head> section
- External by using a link> element to link to an external CSS file

The most common way to add CSS, is to keep the styles in external CSS files.



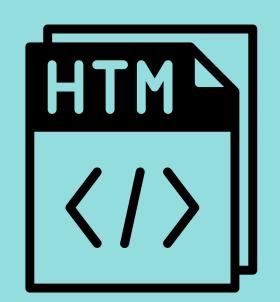


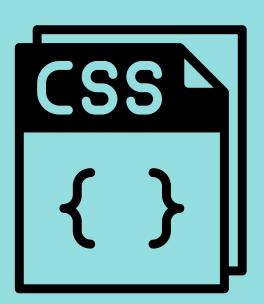


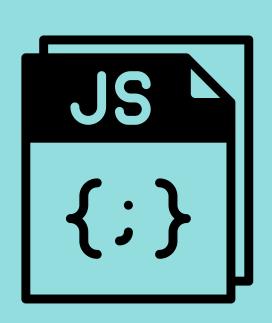
## Inline CSS

- An inline CSS is used to apply a unique style to a single HTML element.
- An inline CSS uses the style attribute of an HTML element.
- The following example sets the text color of the <h1> element to blue, and the text color of the element to red:

```
<h1 style="color:blue;">A Blue Heading</h1>
A red paragraph.
```







## Internal CSS

- An internal CSS is used to define a style for a single HTML page.
- An internal CSS is defined in the <head>
  section of an HTML page, within a <style>
  element.
- The following example sets the text color of ALL the <h1> elements (on that page) to blue, and the text color of ALL the elements to red. In addition, the page will be displayed with a "powderblue" background color:

```
<!DOCTYPE html>
<html>
<head>
<style>
body {background-color: powderblue;}
    {color: blue;}
h1
    {color: red;}
</style>
</head>
<body>
<h1>This is a heading</h1>
This is a paragraph.
</body>
</html>
```

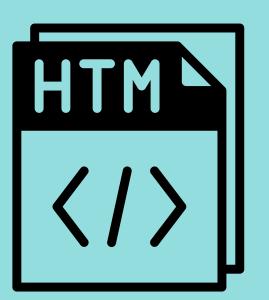
## **External CSS**

- An external style sheet is used to define the style for many HTML pages.
- To use an external style sheet, add a link to it in the <head> section of each HTML page:

- The external style sheet can be written in any text editor. The file must not contain any HTML code, and must be saved with a .css extension.
- Here is what the "styles.css" file looks like:

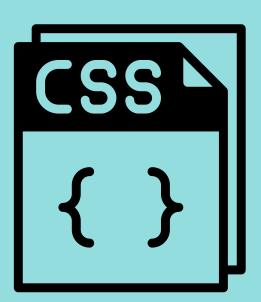
```
body {
  background-color: powderblue;
}
h1 {
  color: blue;
}
p {
  color: red;
}
```

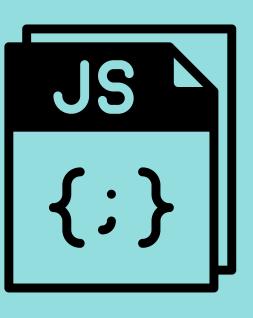
## CSS Colors, Fonts and Sizes



We have already considered how to change colors, fonts and sizes

Please see the file lab3.pdf





#### HTML class Attribute

The HTML class attribute is used to specify a class for an HTML element.

Multiple HTML elements can share the same class.

To create a class; write a period (.) character, followed by a class name. Then, define the CSS properties within curly braces {}:

#### London

London is the capital of England.

#### **Paris**

Paris is the capital of France.

#### Tokyo

Tokyo is the capital of Japan.

Create a class named "city":

```
<!DOCTYPE html>
<html>
<head>
<style>
.city {
 background-color: tomato;
 color: white;
 padding: 10px;
</style>
</head>
<body>
<h2 class="city">London</h2>
London is the capital of England.
<h2 class="city">Paris</h2>
Paris is the capital of France.
<h2 class="city">Tokyo</h2>
Tokyo is the capital of Japan.
</body>
</html>
```

### **Multiple Classes**

HTML elements can belong to more than one class. To define multiple classes, separate the class names with a space, e.g. <div class="city main">.

The element will be styled according to all the classes specified.

# Multiple Classes London Paris Tokyo

```
<!DOCTYPE html>
<html>
<head>
<style>
.city {
  background-color: tomato;
  color: white;
  padding: 10px;
.main {
 text-align: center;
</style>
</head>
<body>
<h2>Multiple Classes</h2>
<h2 class="city main">London</h2>
<h2 class="city">Paris</h2>
<h2 class="city">Tokyo</h2>
</body>
</html>
```

#### Different Elements Can Share Same Class

Different HTML elements can point to the same class name.

In the following example, both <h2> and point to the "city" class and will share the same style:

#### **Different Elements Can Share Same Class**

#### **Paris**

Paris is the capital of France.

```
<!DOCTYPE html>
<html>
<head>
<style>
.city {
  background-color: tomato;
 color: white;
  padding: 10px;
</style>
</head>
<body>
<h2>Different Elements Can Share Same Class</h2>
<h2 class="city">Paris</h2>
Paris is the capital of France.
</body>
</html>
```

#### HTML id Attribute

The HTML id attribute is used to specify a unique id for an HTML element.

You cannot have more than one element with the same id in an HTML document.

The syntax for id is: write a hash character (#), followed by an id name. Then, define the CSS properties within curly braces {}.

In the following example we have an <h1> element that points to the id name "myHeader". This <h1> element will be styled according to the #myHeader style definition in the head section:

#### My Header

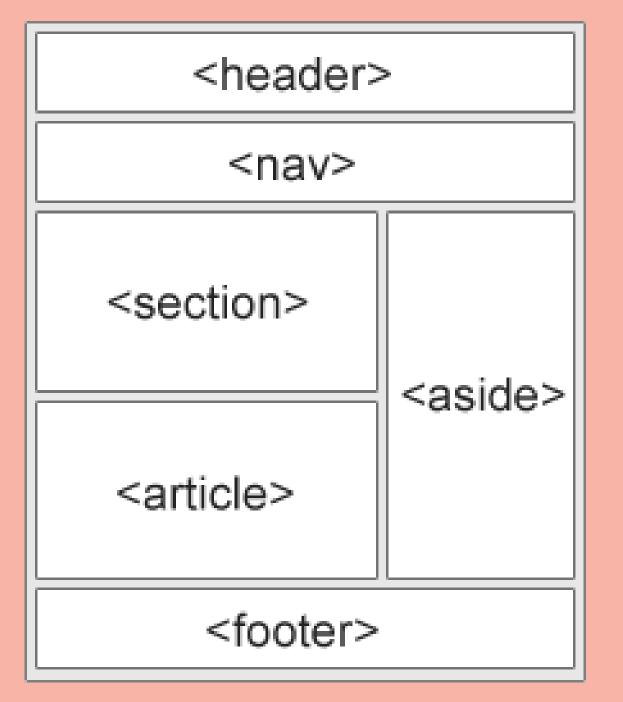
```
<!DOCTYPE html>
<html>
<head>
<style>
#myHeader {
  background-color: lightblue;
  color: black;
  padding: 40px;
 text-align: center;
</style>
</head>
<body>
<h1 id="myHeader">My Header</h1>
</body>
</html>
```

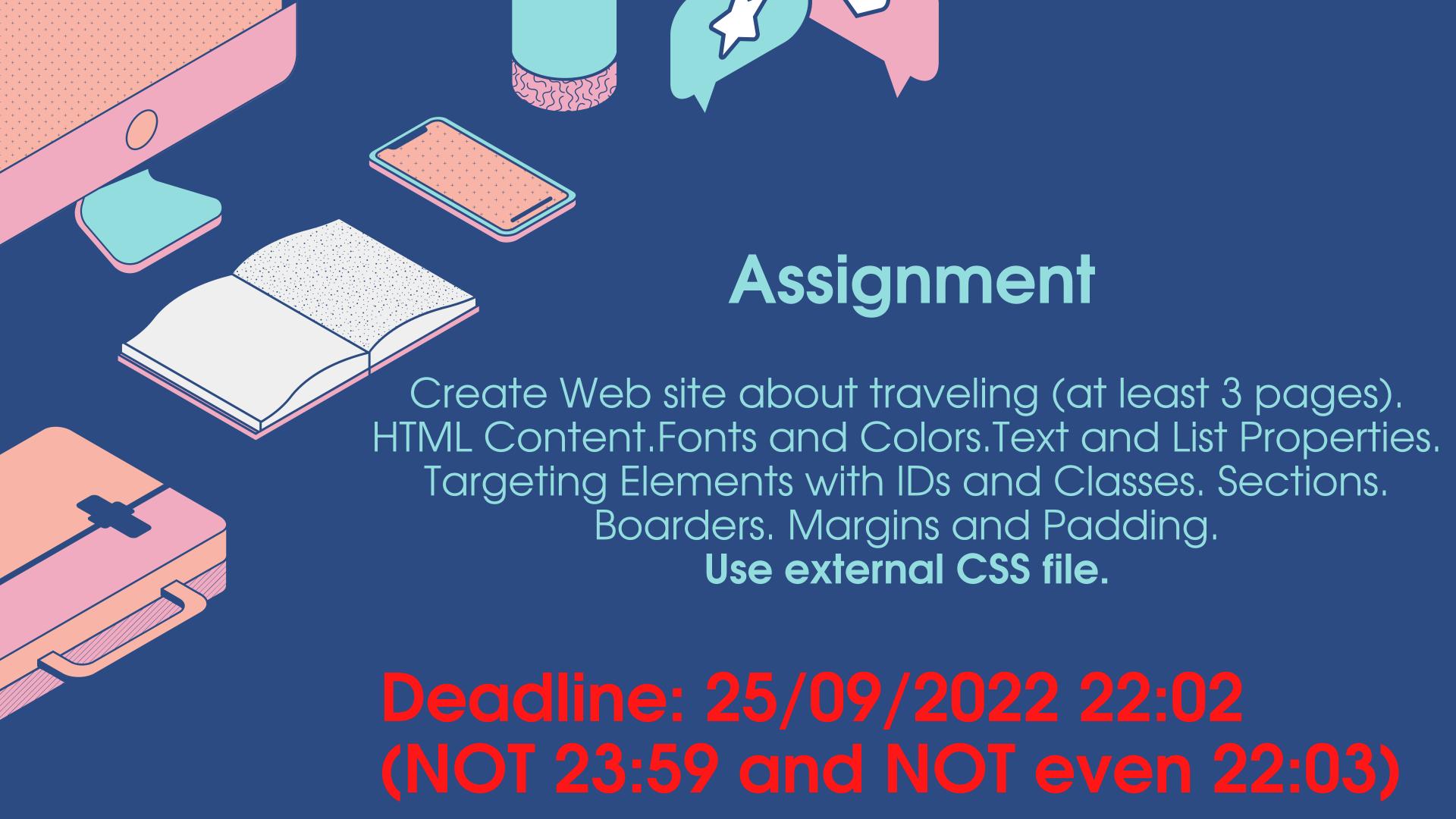
## HTML Layout Elements

HTML has several semantic elements that define the different parts of a web page:

- <header> Defines a header for a document or a section
- <nav> Defines a set of navigation links
- <section> Defines a section in a document
- <article> Defines an independent, self-contained content
- <aside> Defines content aside from the content (like a sidebar)
- <footer> Defines a footer for a document or a section







## HINT:

SOME ADDITIONAL INFORMATION ABOUT CSS: HTTPS://WWW.W3SCHOOLS.COM/CSS/DEFAULT.ASP

