VIA University College



Web Development 1

Basic CSS

Agenda

- Recap
- Introduction to CSS
- Types of styling
- CSS Syntax
- Class and ID selectors
- <div> and elements
- CSS Box

What is CSS?

- CSS is an acronym for Cascading Style Sheets
- CSS is a style language that defines appearance of HTML documents
- **HTML** is used to **structure** content
- **CSS** is used for **styling** structured content

CSS Example

```
h1 {
    color:blue;
h2
    font-style: italic;
h3 {
    font-family: monospace;
    background-color: aqua;
li
    margin-top: 15px;
```

Types of styling

Inline Styles

- Configured in the body of the Web page
- Use the style attribute of an HTML tag
- Apply only to the specific element'

Embedded Styles

- Configured in the head section of a Web page.
- Use the HTML <style> element
- Apply to the entire Web page document

External Styles/Imported styles

- Configured in a separate text file with .css file extension
- The HTML link /> element in the head section of a Web page associates it with the .css file

Inline Styling

- An inline CSS is used to apply a unique style to a single HTML element
- Can quickly become difficult to maintain

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

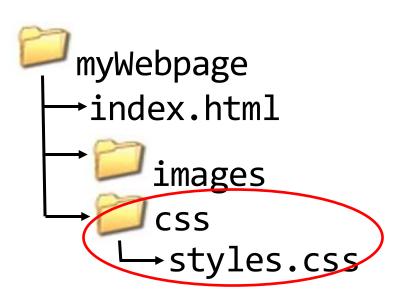
Embedded Styling

- Defined in header
- Can lead to bloated header

```
<head>
 <title>Some page title</title>
 <style type="text/css">
   body {
      background-image: url("background.jpg");
      color: #FFFFFF;
    h1 {
      background-color: #ccccc;
      color: #FF0000;
 </style>
</head>
```

External Styling

- Separate file(s) with the .css extension
- Often placed in dedicated subdirectory
- Linked from the header of document
- Easy to maintain, no bloat



```
<head>
<title>Some page title</title>
<link href="css/styles.css" type="text/css" rel="stylesheet" />
</head>
```

```
font-size: 1.2em;
body {
  background-image: url("background.jpg");
  color: #FFFFFF;
  background-color: #ccccc;
  color: #FF0000;
```

```
Selectors
  font-size: 1.2em;
body 1
  background-image: url("background.jpg");
  color: #FFFFFF;
  background-color: #ccccc;
  color: #FF0000;
```

```
font-size: 1.2em;
body {
                                                       Properties
  background-image: <url ("background.jpg")
  color: ⁴#FFFFF;
h1
  background-color: #ccccc;
  color: #FF0000;
```

```
font-size: 1.2em;
body {
  background-image: url("background.jpg");
  color: #FFFFFF
h1
  background-color: #ccccc ;←
                                                    Values
  color: #FF0000 →
```

Selectors

- Defines the elements that the styling applies to
- There are MANY selectors, some very advanced

Common ones:

```
    * {...}
    body {...}
    div {...}
    .myClass {...}
    #myId {...}
    Style applies to all elements within body.
    Style applies to all divisions and elements within.
    Style applies to all elements with the given class name.
    #myId {...}
    Style applies to the element with the unique id.
```

Class and ID selectors

Class

- Applies a CSS rule to a certain "class" of elements on a Webpage
- Does not associate the style to a particular HTML element
- Configure with .classname in CSS file
- Use when multiple elements should have same rules applied to them

ID

- A class name can be used by multiple HTML elements, while an id name must only be used by one
- The most specific CSS selector!
- Configure with # idName in CSS file
- Use when a single element should have a rule applied to it

ID example

```
<body>
    This is an ordinary paragraph
    This is a paragraph with a different style
</body>
```

```
#myId {
  color: #0000FF;
  background-color: lemonchiffon;
  width: 100px;
  height: 100px;
}
```

Class example

```
<body>
 <div>
 This is an ordinary paragraph
 This is a paragraph with the myClass style
 </div>
</body>
div {
height: 300px;
width: 400px;
background-color: #EE3E80;
.myClass {
 background-color: #CCCCCC;
p.myClass {
 color: #FF0000;
```

<div> and elements

- What if there's no "natural" tag (, <h1>...)?
- You can use <div> or
- <div> is for block/paragraph-like selections
- is for parts of text like <i>...</i></i>

Examples:

- <div id="myId">All Inside a division.</div>
- This is onlya part of the text

"Cascading" Style Sheet

- CSS Cascading Style Sheets
- Styling cascades (is carried through to sub-elements)

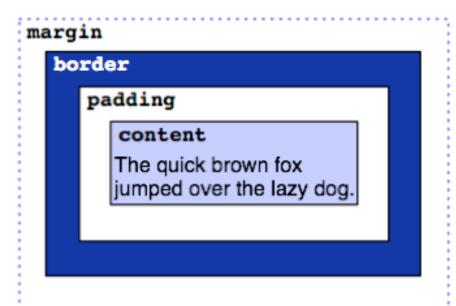
```
* {font-family: Arial, sans-serif;}

div {background-color: red;}

p {text-align: center;}

#myId {border: solid, 10px;}
```

CSS Box



Configure empty space around the content

Configure visible borders around the element

Configure transparent space around the border