## Week Two: CSS Anatomy

## **Types of Styles**

Styles: are what control the presentation of your structured markup

1) Inline Styles: are added to a tag using the XHTML style attribute.

```
By
adding inline CSS styling to this paragraph, we can override the default
styles.
```

- an inline style only affects the tag to which it is attached
- inline styles are another way of adding presentational markup directly into your pages
- inline styles should be used only in special circumstances
- · inline styles will override other styles
- 2) **Embedded Styles:** can be placed within the <head> tag of your document and need to be called out with the <style> tag.

- embedded styles are limited to the page in which they are contained
- sometimes it is easier to write the styles as embedded styles before you move them to be a linked style
- · embedded styles will override linked styles
- 3) Linked Styles: are placed in a separate document that links to multiple pages as to control your styles globally

```
<head>
<title>Premium Design Works - WEB120 &ndash; Web Authoring II</title>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
k href="WEB120.css" rel="stylesheet" type="text/css" />
</head>
```

- linked styles are linked to the pages via a link> tag within the <head> tag
- linked styles are applied to each page's markup as the page loads
- linked styles are contained in a text file, called a style sheet, and appended with a .css

#### Style Rules

Style Rules: are how your styles present your markup

```
p {color: red}
```

- 1) Selector: states which tag the rule selects
- 2) **Declaration:** the declaration states what happens when the rule is applied **and** is made up of *properties* and *values*
- 3) Property: states what is to be affected, in this case
- 4) Value: states what the property will be set to
  - A) Words: a word such as bold is a type of value

```
font-weight: bold;
```

B) Numbers: numerical values are usually followed by a unit type

```
font-size: 12px;
```

C) Colors: color values are most commonly written as hexadecimal values

```
color: #336699;
```

5) Multiple Declarations: rules can have more than one declaration

```
p {
  font-family: Arial, Helvetica, sans-serif;
  color: #85898A;
  font-size: 12px;
  line-height: 18px;
  letter-spacing: 0px;
  text-align: left;
  margin-top: 0px;
  margin-bottom: 8px;
}
```

6) Multiple Selectors: can be grouped for a single rule

```
h1, h2, h3 {
  font-family: Arial, Helvetica, sans-serif;
  color: #85898A;
  font-size: 12px;
  font-weight: bold;
  line-height: 18px;
  letter-spacing: 0px;
  text-align: left;
}
```

• in this case h1, h2, h3 have all be defined with the same font & color by using multiple selectors

7) Multiple Rules: can be applied to the same selector

```
h1 {
  margin-top: 10px;
  margin-bottom: 8px;
}

h2 {
  margin-top: 5px;
  margin-bottom: 8px;
}

h3 {
  margin-top: 3px;
  margin-bottom: 8px;
}
```

- however, let's say that you want to give h1, h2, h3 different margin values
- you would create multiple rules to do so
- 8) Contextual Selectors: are selectors that use more than one tag name in the selector

```
p em {
  color:#F20017;
}

Our mission is to develop and present your brand to a wide range of clientele
  via <em>logo design</em>, <em>marketing collateral</em>, <em>advertising</em> and
  <em>dynamic publishing</em> to the world wide web.
```

• with this contextual selector, I have made the <em> tags within my tags a different color and style

## **Inheritance**

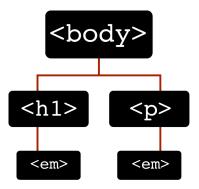
Inheritance: involves passing something down from ancestors to descendants

```
body {
  font-family: Arial, Helvetica, sans-serif;
  color: #85898A;
  background-color: #FFF;
  margin: 0px 0px 0px 0px;
  padding: 0px 0px 0px 0px;
}
```

in this example we can see that the <body> tag, the top most ancestor, will inherit the properties listed in the rule

# The Cascade

Cascading Rules: cascade down from one level of the hierarchy to the next



- understanding the cascade will help you write your style sheets in the most economically organized way
- organizing your style sheets with the proper cascade will also enable them to be edited much more easily
- 1) Matching Declarations: as the page loads, the browser looks at every tag in the page to see if the rule matches
- 2) Sorting Order: If a matched property is defined again, the browser will update the value in the *order* it is declared
- 3) Specificity: the rule that is more specific wins

**Assignment: CSS Document**