



WEBD 162

Class 07

Chapter 12 - Continuation of Cascading Style Sheets (CSS)

1

Cascading Style Sheets (CSS)

- ▶ W3C standard
- ▶ Define the presentation of HTML document
 - ▶ Presentation – how it is displayed
- ▶ **Separate language with its own syntax**



▶ 2

HTML Document Layers

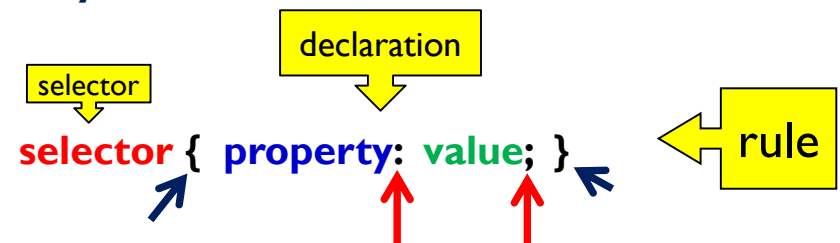
- ▶ HTML – defines structure and markup
- ▶ **CSS – defines presentation**
- ▶ JavaScript – defines behavior

▶ 3

CSS Rules – pg 211

`<head>`

`<style>`



`</style>`

`</head>`

▶ 4

CSS Rules – pg 211

<head>

<style type="text/css">

No longer
required in
HTML5

selector { **property**: **value**; }

</style>

</head>

▶ 5

CSS Rules – pg 211

<head>

<style>

selector {
 property : **value**;
 property:**value**; **property**:**value**;
 property:**value**;
}

</style>

</head>

Use
whitespace
for readability

▶ 6

CSS Example Using Element Selector

<head>

<style>

Element selector

h1 { **color**: **green**; }

p { **font-size**: **small**;
 font-family: **sans-serif**;
}

</style>

</head>

▶ 7

Where can the CSS rules be placed?

▶ Inline

▶ <p style="color: red">content here</p>

▶ Embedded

▶ <style> </style> - head section

▶ External file

▶ <link rel="stylesheet" href="styles.css"> - **ch 13**

▶ 8

CSS Comments – pg 213

HTML comments

```
<!-- <p>content here</p> -->
```

CSS comments

```
/* h2 { color: red; } */
```

```
/*  
h2 { color: red; }  
*/
```

▶ 9

Property Review – Element Selectors

▶ font-family, font-size, font-weight, font-style, font-variant, color

<style>

```
body { font-family: arial, "Duru Sans", sans-serif; font-size: 100%; }
```

```
h2 { font-size: 1.5em; color: red; font-variant: small-caps; }
```

```
p { font-weight: bold; font-style: italic; }
```

</style>

<body>

<h2> heading here </h2>

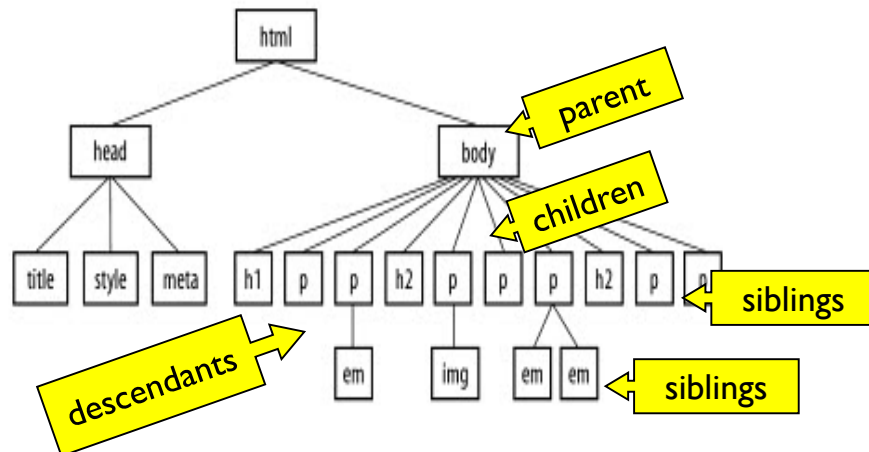
<p> some content here </p>

<h2> heading here </h2>

<p> some content here </p>

▶ 10

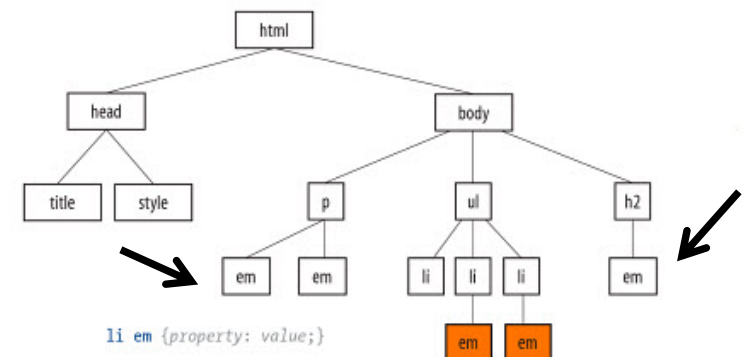
Document Structure– pg 215



▶ 11

Descendant / Contextual Selectors – pg 244

Figure 12-11. Only **em** elements within 11 elements are selected. The other **em** elements are unaffected.



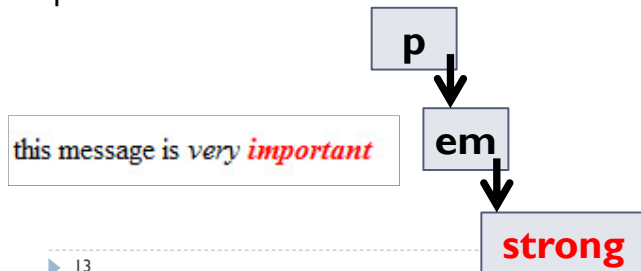
▶ 12

Descendant / Contextual Selectors – pg 244

- ▶ **descendant selector** – based on hierarch relationship

p strong { color: red; }

```
<p>  
this message is <em>very <strong>important</strong> </em>  
</p>
```

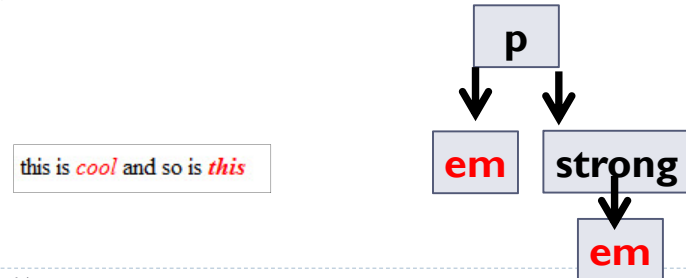


Descendant / Contextual Selectors – pg 244

- ▶ **descendant selector**

p em { color: red; }

```
<p>  
this is <em>cool</em> and so is <strong><em>this</em></strong>  
</p>
```

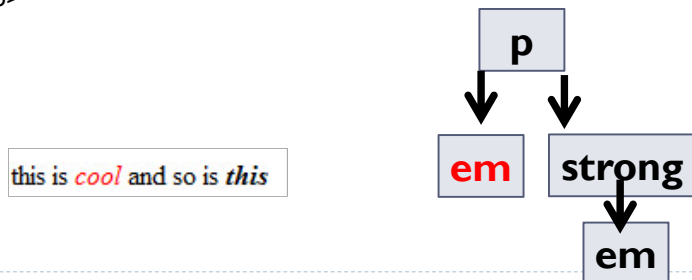


Descendant / Contextual Selectors – pg 244

- ▶ **descendant selector – direct / child**

p > em { color: red; }

```
<p>  
this is <em>cool</em> and so is <strong><em>this</em></strong>  
</p>
```



Descendant / Contextual Selectors – pg 245

- ▶ **Adjacent sibling selector**

h2 + p { color: red; }

```
<body>  
<p>something here</p>  
<h2>heading here</h2>  
<p>something here</p>  
<p>something here</p>  
</body>
```



Descendant / Contextual Selectors – pg 245

► General sibling selector

h2 ~ p { color: red; }

```
<body>
<p>something here</p>
<h2>heading here</h2>
<p>something here</p>
<p>something here</p>
</body>
```



```
something here
heading here
something here
something here
```

► 17

id Selector – pg 246

► id selector – must be unique



```
<p id="firstpara">content here</p>
```

 **#firstpara { color: red; }**

```
#firstpara li { font-weight: bold; }
```

► 18

class Selector – pg 246

► class selector – used many times



```
<p class="red">content here</p>
<h2 class="red">heading here</h2>
```

 **.red { color: red; }**

```
.red li { font-weight: bold; }
```

► 19

Universal Selector – pg 246

```
* { styles here }
```

► 20

Grouping Selectors – pg 244

▶ grouping selector

```
h2,h3,address { color: blue; }
```

```
p strong, h1, #xyz em, .abc { color: red; }
```

▶ 21

Specificity / Order of Precedence– pg 247

▶ id selector

▶ class selector

▶ contextual / descendant selectors

▶ element selectors

In the event of a conflict



▶ 22

Specificity / Order of Precedence– pg 247

```
strong { color: red; }  
h1 strong { color: blue; }
```

```
p { line-height: 1.2em; }  
blockquote p { line-height: 1em; }  
p.intro { line-height: 2em; }
```

Which selector takes precedence?



▶ 23

Line Height – pg 249

▶ Specifies the height of the line (can vary if text is larger)

▶ line-height

<style>

```
p { line-height: 2%; }
```

```
p { line-height: 200%; }
```

```
p { line-height: 2em; }
```

```
p { line-height: normal; } - default
```

</style>

▶ 24

Indent– pg 250

- ▶ Specifies the indentation of the line
- ▶ Applies to the first line only, not all lines in the element
- ▶ **text-indent**

```
<style>
  p { text-indent: 2em; }
  p { text-indent : 35%; }
  p { text-indent : 20px; }
</style>
```

▶ 25

Horizontal Alignment – pg 251

- ▶ Similar to alignment in a word processor
- ▶ **Commonly used to center text inside a block level element**
- ▶ **text-align**

```
<style>
  p { text-align: center; }
  p { text-align : left; } - default
  p { text-align : right; }
  p { text-align : justify; }
</style>
```



▶ 26

Other text decorations– pg 252

- ▶ **Commonly used to remove the underline from a hyperlink**
- ▶ **text-decoration**

```
<style>
  a { text-decoration: none; } - default

  p { text-decoration : underline; }
  p { text-decoration: overline; }
  p { text-decoration: line-through; }
  p { text-decoration : blink; }
</style>
```



▶ 27

Changing capitalization– pg 252

- ▶ **text-transform**

```
<style>
  p { text-transform: none; } - default
  p { text-transform : capitalize; }
  p { text-transform: lowercase; }
  p { text-transform: uppercase; }
</style>
```

▶ 28

Spacing letters and words– pg 253

- ▶ **letter-spacing**
- ▶ **word-spacing**

<style>

p { **letter-spacing: normal;** } - default

p {**letter-spacing** : 5px; }

p {**letter-spacing** : .5em; }

p { **word-spacing: normal;** } - default

p {**word-spacing** : 20px; }

p {**word-spacing** : 1.5em; }

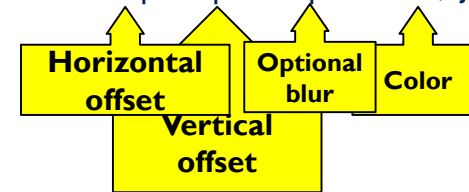
</style>

29

text shadow – CSS3– pg 255-256

- ▶ **text-shadow**

h2 { text-shadow: 5px 5px 10px #000; }



They are not comma separated!



30

Other text properties = pg 257

`vertical-align: baseline|length|sub|super|top|text-top|middle|bottom|text-bottom|initial|inherit;`

`white-space: normal|nowrap|pre|pre-line|pre-wrap|initial|inherit;`

`visibility: visible|hidden|collapse|initial|inherit;`

31

Changing list markers – pg 259

- ▶ **list-style-type:**

ul { list-style-type: square; } – default is disc

ol { list-style-type: upper-alpha; } – default is decimal

list-style-type

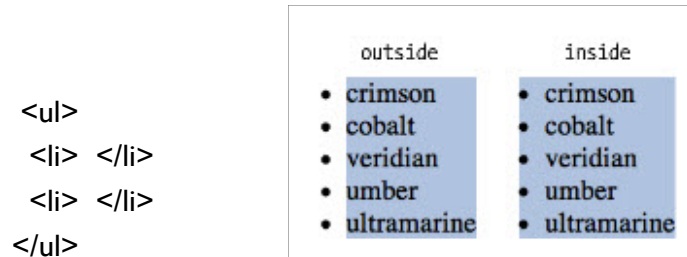
Values: none | disc | circle | square | decimal | decimal-leading-zero | lower-alpha | upper-alpha | lower-latin | upper-latin | lower-roman | upper-roman | lower-greek | inherit

32

Changing marker position – pg 260

► list-style-type:

`ul { list-style-position: outside; }` – default is outside
`ul { list-style-position: inside; }`



Cutom marker– pg 261

► list-style-image:

`ul { list-style-image: url(image.jpg); }`
`ul { list-style-type: circle; }` – optional backup if image does not load

