

Basic CSS

Lecture 17

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- 1 CSS
- 2 Background Styles
- 3 Text Styles
- 4 List Styles
- 5 Table Styles
- 6 The CSS Box Model

Outline

- 1 CSS
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- CSS = Cascading Style Sheet.
- A CSS file typically uses the `.css` extension.
- The CSS file determines how the HTML elements will appear.
 - Size
 - Color
 - Position
 - Borders
 - Etc.

Internal Styles

Attributes

```
<h1 align="center"><font color="red">My Home Page</font></h1>
```

Or

Styles

```
<h1 style="text-align:center; color:red">My Home Page</h1>
```

- The various element attributes can instead be grouped in a single `style` attribute.

- There is a long list of predefined color names.
- See http://www.w3schools.com/css/css_colornames.asp

The Style Section

Attributes

```
<head>
<style>
  h1 {text-align:center; color:red}
  h2 {text-align:center; color:blue}
  h3 {text-align:left; color:green}
</style>
</head>
```

- The technique of the last example is of limited value.
- The strength of styles is that we can define the attributes of, say, the `<h1>`, `<h2>`, and `<h3>` heading tags once in a `<style>` element.
- These styles will be applied to all `<h1>`, `<h2>`, and `<h3>` headings.

External Styles

The CSS file `mystyle.css`

```
h1 {text-align:center; color:red}  
h2 {text-align:center; color:blue}  
h3 {text-align:left; color:green}
```

The Link to the CSS File

```
<link rel="stylesheet" type="text/css" href="mystyle.css" />
```

- To facilitate maintaining a single style over multiple pages, the style section may be placed in a separate CSS file and then included in each HTML file.
- Place a link to it in the `<head>` section of the HTML file.

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Background Styles

- We may set the background of the web page with the background styles.
- This style can be associated with any element for which it makes sense.
- For example,
 - `body` - The entire document.
 - `p` - Paragraphs only.
 - `h1` - `h3` headings only.
- We can set the background
 - Color
 - Image
 - Tiling style
 - size
 - etc.

Background Styles

The CSS file `mystyle.css`

```
body
{
    background-color: rgba(255, 0, 0, 0.2);
    background-image: url("Mt Regan.jpg");
    background-repeat: no-repeat;
    background-attachment: scroll;
    background-size: cover;
}
```

- For example, the above will
 - Set the background color to light pink.
 - Place the image “Mt. Blanc.jpg” over it.
 - Attach the image to the upper-left corner.
 - Scroll the image as the page is scrolled.
 - The image covers the content area of the browser.

A Shortcut

The CSS file `mystyle.css`

```
body
{
    background: #ffdddd url("Mt Regan.jpg") repeat fixed;
}
```

- If we list the styles in this order:
 - Color
 - Image
 - Repeat
 - Attachment
 - Position

then we can use the above short-hand notation:

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Text Styles

Text Styles

```
p
{
    color: blue;
    text-align: left;
    text-decoration: underline;
    text-indent: 50px;
    text-transform: capitalize;
    font-size: 30px;
    font-style: italic;
    font-family: Verdana;
}
```

- We may style the text that occurs in headings, paragraphs, etc.

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List Styles

List Styles

```
ul
{
    list-style-image: url("red_dot.jpg");
}

li
{
    background-color: lightpink;
    font-family: Verdana;
    font-size: 40px;
    padding-left: 30px;
}
```

- We may set the style for lists.

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Table Styles

Table Styles

```
table {background-color: green;}
```

```
th  
{  
    height: 50px;  
    font-size: 30px;  
}
```

```
td  
{  
    vertical-align: center;  
    color: lightpink;  
}
```

- We may set a table `<table>`, a table header `<th>`, a table row `<tr>`, or table data `<td>`.

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The CSS Box Model

- Every HTML element is considered to lie within a **box**.
- The **CSS box model** consists of
 - The **content** area
 - **Padding** around the content area
 - A **border** around the padding
 - A **margin** around the border
- We may set the size, color, and style of any of these, on the left, right, top, or bottom.
- We may set the **height** and **width** of the content area.

The CSS Box Model

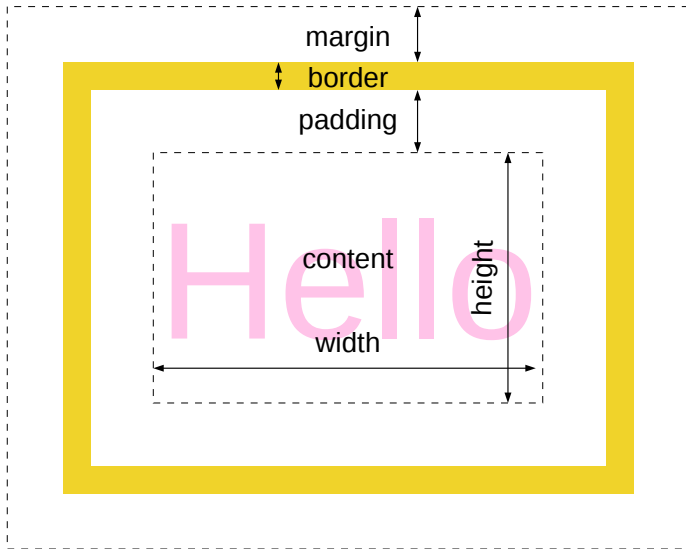


Table Styles

CSS Boxes

```
p
{
    height: 150px;
    width: 25%;
    padding: 10px;
    border: 3px dotted green;
    margin: 50px;
}
```