OIM3690 - Web Technologies

`id` and `class`

Why `id` and `class` ?

- Using CSS with a generic tag (like h1 or p) causes all h1-elements or p-elements to be stylized the same way.
  - Example:

```css
p {color:red;} /* All paragraphs on the page will have a red font.*/
```

- What if we want a specific occurrence of an element to be stylized *differently* than other occurrences of the *same* type of element?

- What if we want specific occurrences of *different* elements to be stylized the *same* way and *different* from other occurrences of the *same* type?

`id`

- Almost any element can have an `id` as one of its attributes

- An `id` should be used only *once* on a page.

- Think of the `id` as identifying the element uniquely

- Examples:

```html
<p id="author-bio">
<h1 id="intro">
```

Applying a style to an `id`

- Syntax

```
tag#id-value {style rules}
/* or */
#id-value {style rules} /* recommended */
```

- Examples:

```
#author-bio {color:blue}
/* The element with the id="author-bio" will have a blue colored font */
```

```
#intro {font-size:24px}
/* The element with the id="intro" will have font-size of 24px */
```

- The `id` style adds to and potentially overrides the element style

`id` example

```html
<head>
  <style type="text/css">
    #bordered {border:3px solid red}
  </style>
</head>
<body>
  <h1>...</h1>
  <p>…</p>
  <p>…</p>
  <p id="bordered">…</p>  <!--only this paragraph will have a border-->
  <p>…</p>
  <p>…</p>
</body>
```

class

- Almost any element can have an `class` as one of its attributes

- An `class` can be used for one or more tags on a page
  - different from `id` – used only once

- Think of the `class` as a group of elements with similar styles

- Examples:

```
<p class="bordered">
<h1 class ="bordered">
```

Applying a style to a `class`

- Syntax

```
tag.class-value {style rules}
/* or */
.class-value {style rules} /* different from the tag#class-value */
```

- Example:

```
p.me {color:blue}
/* Every <p> with class="me" will have a blue colored font */
h1.me {font-size:24px}
/* Every <h1> with the class="me" will have font-size of 24px */
.me {color:blue}
/* All the elements of any type with class="me" will have a blue colored font */
```

class example

```
<head>
  <style type="text/css">
    p.bordered {border:3px solid red}
    /* all the paragraphs with class="bordered" will each have a border */
  </style>
</head>
<body>
  <h1 class="bordered">...</h1>
  <p>…</p>
  <p class="bordered">…</p>
  <p class="bordered">…</p>
  <p>…</p>
  <p class="bordered">…</p>
</body>
```

Exercise: *ex06.html*

- Make a copy of *ex04.html*, save it as *ex06.html*.
- Use `id` and `class` to style the page further.
  - create a red-colored, dotted border, 3px thick, around just the last quote - *"Continuous effort - not strength or intelligence - is the key to unlocking our potential."*
  - make the color of the heading "Quote Three from Winston Churchill" green.
  - The following elements must be in blue font, italicized and underlined.
    - the first quote (the entire quote),
    - the title of the second quote *"Quote Two from Winston Churchill"*,
    - the entire paragraph about the tiger.
- Save it and ***commit/push*** to GitHub.

`div` and `span`

`div` : the Content Division element

- `div` is used to style whole sections of a page in a particular way.
  - e.g., the background color of the first two paragraphs must be *yellow*
- Syntax:

```html
<body>
  <div id="one">
    <!-- Some HTML tags -->
    <!-- More HTML tags -->
  </div>
  <div id ="two">
    <!-- Lots more HTML -->
  </div>
  ...
</body>
```

- We can use `id` or `class` on `<div>` and style it using CSS.
- See `<div>` example

`span`

- The `<span>` tag is an *inline* container used to mark up a part of a text, or a part of a document.
  - e.g. certain words in a paragraph are in large font.
- We can use `id` or `class` on `<span>` and style it using CSS.
- See `<span>` example

Exercise: *ex06.html* (cont.)

- Set the background color of the section with *Quote One* (the heading and the quote) to `yellow`.

- Set the background color of the section with *Quote Two* (the heading and the quote) to `green`.

- Set the background color of the section with *Quote Three* (the heading, the sub-heading and the quote) to `lime`.

- Increase the font-size of the letter *"W"* and *"C"* in each occurrence of *"Winston Churchill"* to `1.5em`.

- Save it and view in web browser(s)

- Update *sitemap.html* and *commit/push* to GitHub.

Questions?