SOEN 287
WEB PROGRAMMING

Tutorial 02- Intro to HTML5 & CSS

Tutorial Sections SB & UC

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DOCUMENTATION

You can find most of the documentation you will ever need for many web programming languages such as:

- HTML

- CSS

- JavaScript (including jQuery)

- PHP

- And many more…

At http://www.w3schools.com/

THE BASICS

```html
<!DOCTYPE html>

<html>

    <!- The <html> tag is the container for all other HTML
elements.  (with the exception of the <!DOCTYPE> tag) -->

    <head>

            <!-- The <head> tag is a container for all the metadata.
            The <title> tag is required in any HTML document.  -->

            <title>Title of the document</title>

    </head>

    <body>

            <!- The <body> tag is a container for all the contents
            of an HTML document.  -->

    </body>

</html>
```

ELEMENTS VS. TAGS

An **element** represents a kind of structure or semantics usually consisting of a beginning tag, content, and an end tag. This is an example of an **element**:

`<p>Text within paragraph tags</p>`

Tags are used to mark up the start and end of an HTML element. These are examples of **tags**:

`<p class="aCSSClass">`

`<p>`

DEPRECATION

Due to the continuous development of certain programming languages some elements of a given language may become **outdated** with each new release. Examples of outdated elemtns in HTML are:

Outdated Tags:

`<center>`

`<font>`

`<s>`

Outdated Attributes:

`<background>`

`<bgcolor>`

`<width>`

Browsers should continue to support **outdated** elemtents for backward compatibility but may lose this priviledge if the element was to become **obsolete**.

EXERCISE WITH A LIST

A Nested List

- Coffee
- Tea
    - Black tea
    - Green tea
- Milk

EXERCISE WITH A TABLE

Cell that spans two rows:

Name:	Bill Gates
Telephone:	555 77 854
	555 77 855

CSS IN AND/OR WITH HTML

CSS can be added to an HTML element in a multitude of ways. There are 3 different techniques which are all perfectly valid and can be used in any order, preference, in conjunction with one another or individually. The 3 ways of inputting CSS are:

Inline: using style attributes in HTML elements

```
<p style="Some CSS;">Some text.</p>
```

Internal: using a `<style>` element in the `<head>` element

```
<style>Some CSS;</style>
```

External: using one or more external CSS files

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

EXERCISE WITH A STYLED LIST

Horizontal List

HTML CSS JavaScript PHP

CSS PRIORITY TEST

Using the last excersice figure out the prioroty order between **inline**, **internal**, and **external** ways of applying CSS. That is, which method has priority over which method? (Which method will be applied first, second & third)

REFERENCES ONLINE

- http://www.w3schools.com/

- http://www.w3schools.com/html/html_css.asp

- http://www.w3schools.com/html/html_lists.asp

- http://www.w3schools.com/html/html_tables.asp

- http://www.w3schools.com/tags/deprecated.htm

- http://www.w3schools.com/tags/tag_body.asp

- http://www.w3schools.com/tags/tag_head.asp

- http://www.w3schools.com/tags/tag_html.asp

- http://www.456bereastreet.com/archive/200508/html_tags_vs_elements_vs_attributes/