Topic 1.2: Basic HTML Tags

Heading Tags <h1> to <h6>

Progressively smaller headings, with <h1> being the largest heading.

Image Tag: <img>

Use the self-closing image tag, <img>, to add an image to a web page. The location of the image is given in the source attribute, src, as shown in the examples:

```
1 <img src="myImage.jpg">
2 <img src="myImage.jpg" alt="An image of a smiling sun">
3 <img src="http://www.nielsenedu.com/public/img/nielseneducation.png">
```

The example on line 1 specifies the file "myImage.jpg" that must be found in the same directory as the HTML file that it is written is.

The example on line 2 specifies the same file, "myImage.jpg", but also has an alt (alternative) attribute which specifies the text to display if the image cannot be loaded.

The example on line 3 uses a uniform resource locator (URL) to specify the location and name of the image file.

Paragraph Tag: <p>

Unlike typing in a text editor, simply adding new lines or carriage returns in HTML source code does not create visible line breaks in the rendered webpage. Instead, the <p> tag is used to define a paragraph, which tells the browser to automatically add vertical spacing before and after that block of text to separate it from surrounding content.

Below is some HTML code and how the resulting text will be displayed:

```
1 This sentence will display
2 on a single line.
3 <p>This sentence will be broken</p>
4 <p>into separate paragraphs.</p>
```

```
1 This sentence will display on a single line.
2 This sentence will be broken
3 into separate paragraphs.
```

List Tags: <ul>

To generate bulleted lists, enclose the list in an opening and closing unordered list, <ul>, tag. Each list element is wrapped in an opening and closing <li> tag.

```
    <p>Grocery List</p>
    <ul>
        <li>milk</li>
        <li>bread</li>
        <li>eggs</li>
    </ul>
```

Grocery List

- milk
- bread
- eggs

Similarly, a numbered list is generated by enclosing the list in opening and closing ordered list, <ol>, tag. Again, each list element is wrapped in an opening and closing <li> tag. The number style is changed using CSS, but how to do so will not be discussed here.

```
    <p>Grocery List</p>
    <ol>
        <li>milk</li>
        <li>bread</li>
        <li>eggs</li>
    </ol>
```

Grocery List

1. milk
2. bread
3. eggs

Table Tags: <table> <th> <tr> <td>

The essential table tags are:

- <table> to start and end a table,
- <tr> for each table row
- <td> for each table cell (table data)

```
<table border="1">
    <thead>
        <tr>
            <th>Name</th>
            <th>Department</th>
            <th>Salary</th>
        </tr>
    </thead>
    <tbody>
        <tr>
```

```
            <td>Alice Johnson</td>
            <td>Engineering</td>
            <td>$85,000</td>
        </tr>
        <tr>
            <td>Bob Smith</td>
            <td>Marketing</td>
            <td>$72,000</td>
        </tr>
        <tr>
            <td>Carol Davis</td>
            <td>Sales</td>
            <td>$68,000</td>
        </tr>
    </tbody>
    <tfoot>
        <tr>
            <td colspan="2">Total Employees:</td>
            <td>3</td>
        </tr>
    </tfoot>
</table>
```