Web System & Technology

Lecture # 3

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Basic HTML Tags

- HTML Headings
  - HTML headings are defined with the `<h1>` to `<h6>` tags
  - `<h1>` defines the most important heading. `<h6>` defines the least important headings
- HTML Paragraphs
  - HTML paragraphs are defined with `<p>` tag
- HTML Links
  - HTML links are defined with `<a>` tag

```
<a href="https://www.w3schools.com">This is a link</a>
```

Basic HTML Tags

- HTML Images
  - HTML images are defined with the <img> tag
  - The source file (src), alternative text (alt), width and height are provided as attributes

```
<img src="w3schools.jpg" alt="W3Schools.com" width="104" height="142">
```

- How to View HTML Source
  - Right click on web page and select "View Page Source" or Ctrl + U
  - Inspect an HTML element

HTML Elements

- The HTML element is everything from the start tag to the end tag

- Example of some HTML elements

```
<h1>My First Heading</h1>

<p>My first paragraph.</p>
```

- HTML elements with no content are called empty elements

- The <br> tag defines a line break, and is an empty HTML element without a closing tag

- HTML is not case sensitive language

Miscellaneous Tags

- Line Break Tag
  -
 tag is used to insert a new line
  - This tag is an example of empty element, where we don't need opening and closing tags
- Center Tag
  - We can center contents using <center> tag

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Miscellaneous Tags

- Horizontal Line

  - Horizontal lines are used to visually break-up sections of a document

  - The <hr> tag create a line at current position

  - <hr /> tag is also an empty tag

- Preserve Formatting

  - Any text between the opening <pre> tag and the closing </pre> tag will preserve the formatting of the source document

HTML Attributes

- All HTML elements can have attributes

- Attributes provide additional information about elements

- Attributes are always specified in start tag

- Attributes usually come in name/value pairs like **name="value"**

  - href, src

The align Attribute

- We can also use "align" attribute with <p> tag as:
  - <p align="left"> This is sample text </p>
  - <p align="right"> This is sample text </p>
  - <p align="center"> This is sample text </p>

The src Attribute

- The <img> tag is used to embed an image in an HTML page. The src attribute specifies the path to the image to be displayed:

- There are two ways to specify the URL in the src attribute:

- Absolute URL
  - Links to an external image that is hosted on another website. Example:

- Relative URL
  - Links to an image that is hosted within the website.

The style Attribute

- the style attribute is used to add styles to an element, such as color, font, size, and more.

```
<p style="color:red;">This is a red paragraph.</p>
```

The title Attribute

- the title attribute defines some extra information about an element.
- The value of the title attribute will be displayed as a tooltip when you mouse over the element

```html
<p title="I'm a tooltip">This is a paragraph.</p>
```