

HTML Basics

What is HTML?

HTML is the standard markup language for creating Web pages.

- HTML stands for Hyper Text Markup Language
- HTML describes the structure of a Web page
- HTML elements are represented by tags
- HTML tags label pieces of content such as "heading", "paragraph", "table", and so on
 - The `<!DOCTYPE html>` declaration defines this document to be HTML
 - The `<html>` element is the root element of an HTML page
 - The `<head>` element contains meta information about the document
 - The `<title>` element specifies a title for the document
 - The `<body>` element contains the visible page content
 - The `<h1>` element defines a large heading
 - The `<p>` element defines a paragraph

A Simple HTML Document Example

```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>My First Heading</h1>
<p>My first paragraph.</p>

</body>
</html>
```

HTML Tags

HTML tags are element names surrounded by angle brackets '<>':

```
<tagname>content goes here...</tagname>
```

Tags are two types of tag.

1. Container tag: It have the **start** tag and the **end** tag both in a pair.
2. Empty tag: It have the **start** tag only.

Notes: HTML tags normally come **in pairs** like `<p>` and `</p>`. The first tag in a pair is the **start tag**, the second tag is the **end tag**. The end tag is written like the start tag, but with a **forward slash** inserted before the tag name

HTML Page Structure

Below is a visualization of an HTML page structure:

```
<html>
  <head>
    <title>Page title</title>
  </head>

  <body>
    <h1>This is a heading</h1>
    <p>This is a paragraph.</p>
    <p>This is another paragraph.</p>
  </body>
</html>
```

Output :



HTML Headings

HTML headings are defined with the `<h1>` to `<h6>` tags.

`<h1>` defines the most important heading. `<h6>` defines the least important heading:

Example

```
C:\Users\Nielit-051\Desktop\heading.html - Notepad++
File Edit Search View Encoding Language Settings Tools Mac
heading.html x
1  <!DOCTYPE html>
2  <html>
3  <body>
4
5  <h1>This is heading 1</h1>
6  <h2>This is heading 2</h2>
7  <h3>This is heading 3</h3>
8  <h4>This is heading 4</h4>
9  <h5>This is heading 5</h5>
10 <h6>This is heading 6</h6>
11
12 </body>
13 </html>
```

This is heading 1
This is heading 2
This is heading 3
This is heading 4
This is heading 5
This is heading 6

HTML Paragraphs

HTML paragraphs are defined with the `<p>` tag:

Example

```
C:\Users\Nielit-051\Desktop\paragraph.html - Notepad++
File Edit Search View Encoding Language Settings Tools Mac
paragraph.html x
1  <!DOCTYPE html>
2  <html>
3  <body>
4
5  <p>This is a paragraph.</p>
6  <p>This is another paragraph.</p>
7
8  </body>
9  </html>
```

This is a paragraph.
This is another paragraph.

HTML Images

HTML images are defined with the `` tag.

The source file (`src`), alternative text (`alt`), `width`, and `height` are provided as attributes:

NIELIT GORAKHPUR

Example

The screenshot shows a Notepad++ window on the left containing the code for `img.html`. The code defines an `h2` header "HTML Images", a `p` paragraph stating "HTML images are defined with the `img` tag:", and an `img` tag with `src="img1.jpg"`, `alt="No Image"`, `width="104"`, and `height="142"`. To the right is a browser window titled "img.html" showing the heading and the image of a bird.

```
<!DOCTYPE html>
<html>
<body>
<h2>HTML Images</h2>
<p>HTML images are defined with the img tag:</p>

</body>
</html>
```

HTML Lists

HTML lists are defined with the `` (unordered/bullet list) or the `` (ordered/numbered list) tag, followed by `` tags (list items):

Example

The screenshot shows a Notepad++ window on the left containing the code for `list.html`. It includes two sections: "An Unordered HTML List" using an `ul` tag with three `li` items ("Coffee", "Tea", "Milk"), and "An Ordered HTML List" using an `ol` tag with three `li` items ("1. Coffee", "2. Tea", "3. Milk"). To the right is a browser window showing the corresponding list output.

```
<!DOCTYPE html>
<html>
<body>
<h2>An Unordered HTML List</h2>
<ul>
<li>Coffee</li>
<li>Tea</li>
<li>Milk</li>
</ul>
<h2>An Ordered HTML List</h2>
<ol>
<li>Coffee</li>
<li>Tea</li>
<li>Milk</li>
</ol>
</body>
</html>
```

Exercise:

1. What is HTML?
2. What is tag?
3. What are the common attribute of `` tag?