

Understanding HTML Tags and Structuring an HTML Page

Introduction to HTML:

HTML (HyperText Markup Language) is the standard language for creating web pages. It uses a series of elements (or tags) to structure and display content on the web.

Basic HTML Structure:

A simple HTML document consists of several key components:

```
<!DOCTYPE html>

<html>

<head>

  <title>Page Title</title>

</head>

<body>

  <h1>Heading</h1>

  <p>This is a paragraph.</p>

</body>

</html>
```

Key HTML Tags:

1. **<!DOCTYPE html>**
 - This declaration defines the document type and HTML version. It should be the first line in an HTML document.
2. **<html>**
 - The root element of an HTML page. All other HTML elements are contained within this tag.
3. **<head>**
 - Contains meta-information about the HTML document, such as its title and links to stylesheets or scripts.
4. **<title>**
 - Sets the title of the web page, which is displayed in the browser's title bar or tab.
5. **<body>**
 - Contains the content of the HTML document, such as text, images, and other media.

Common HTML Tags:

1. Headings

- `<h1>` to `<h6>` tags are used to define HTML headings, with `<h1>` being the highest level and `<h6>` the lowest.

2. Paragraphs

- `<p>` tag is used for creating paragraphs.

3. Links

- `<a>` tag is used to create hyperlinks. Example: `This is a link`.

4. Images

- `` tag is used to embed images. Example: ``.

5. Lists

- `` for unordered lists (bulleted).
- `` for ordered lists (numbered).
- `` for list items within `` or ``.

6. Tables

- `<table>` tag is used to create tables.
- `<tr>` for table rows.
- `<td>` for table data (cells).
- `<th>` for table headers.

7. Forms

- `<form>` tag is used to create forms for user input.
- `<input>`, `<textarea>`, `<button>`, `<select>`, and `<option>` are common form elements.

HTML Attributes:

Attributes provide additional information about HTML elements. They are always included in the opening tag and typically come in name/value pairs like `name="value"`.

- **id:** Defines a unique id for an element.
- **class:** Defines one or more class names for an element.
- **src:** Specifies the source file for media elements like images.
- **href:** Specifies the URL for links