

Introduction to HTML

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What is HTML?

- **HTML** stands for **HyperText Markup Language**.
- It is the standard language for creating web pages.
- HTML describes the structure of a webpage.

Basic Structure of an HTML Document

```
<!DOCTYPE html>

<html>

  <head>

    <title>Page Title</title>

  </head>

  <body>

    <h1>This is a Heading</h1>

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

  </body>

</html>
```

Key Elements

- `<!DOCTYPE html>`: Defines the document type and version.
- `<html>`: The root element of an HTML page.
- `<head>`: Contains meta-information about the document.
- `<title>`: Sets the title of the webpage.
- `<body>`: Contains the content of the webpage.

The `<head>` and `<body>` Tags

- **`<head>` Tag:**

- Contains metadata and links to resources.
- Includes elements like `<title>`, `<meta>`, `<link>`, and `<style>`.
- Does not display content directly on the webpage.

- **`<body>` Tag:**

- Contains the content of the webpage.
- Includes text, images, links, and other media.
- Everything inside is rendered in the browser window.

HTML Tags, Elements, and Attributes

Tags

- Tags are used to create elements.
- They usually come in pairs: an opening tag and a closing tag.
- Example: `<p>...</p>`

Elements

- An element consists of a start tag, content, and an end tag.
- Example: `<h1>This is a heading</h1>`

Attributes

- Attributes provide additional information about elements.
- They are always included in the opening tag.
- Example: `Visit Example`

HTML Syntax

- **Tags:** Enclosed in angle brackets, e.g., `<tagname>`.
- **Elements:** Consist of a start tag, content, and an end tag.
- **Nesting:** Elements can contain other elements.
- **Attributes:** Key-value pairs in the opening tag, e.g., `id="header"`.
- **Self-closing Tags:** Some tags don't require a closing tag, e.g., `
`.
- **Case Sensitivity:** HTML tags and attributes are not case-sensitive, but lowercase is recommended.

HTML Editors

- **Visual Studio Code:** Popular, extensible, and free.
- **Sublime Text:** Lightweight and fast with powerful features.
- **Notepad++:** Simple and efficient for Windows users.
- **Vim:** Highly configurable and powerful for advanced users.
- **Nano:** Simple, easy-to-use terminal-based editor.
- **Any Text Editor Will Work**

HTML Standard and Resources

- **HTML Standard:** WHATWG HTML Standard
- **HTML Tags List:** W3Schools HTML Tags Reference

Famous HTML Tags with Examples

Headings

```
<h1>Main Heading</h1>
```

```
<h2>Subheading</h2>
```

Paragraphs

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

Links

```
<a href="https://example.com">Visit Example</a>
```

Cont.

Images

```

```

Lists

- **Ordered List**

```
<ol>
```

```
  <li>First item</li>
```

```
  <li>Second item</li>
```

```
</ol>
```

- **Unordered List**

```
<ul>
```

```
  <li>First item</li>
```

```
  <li>Second item</li>
```

```
</ul>
```

Cont.

Div and Span

- **Div**

`<div>`A block-level container.`</div>`

- **Span**

``An inline-level container.``

Forms

```
<form action="/submit" method="post">
```

```
  <label for="name">Name:</label>
```

```
  <input type="text" id="name" name="name">
```

```
  <input type="submit" value="Submit">
```

```
</form>
```