Introduction to Internet Software Development

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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

```html
<!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.

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 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