

HTML

HTML Basics

- Definition: HyperText Markup Language, the standard markup language for creating web pages.
- Structure: Consists of elements enclosed in tags (e.g., <html>, <head>, <body>).
- Basic Structure Example:
 - <!DOCTYPE html>
 - <html>
 - <head>
 - <title>Page Title</title>
 - </head>
 - <body>
 - <h1>Welcome</h1>
 - </body>
 - </html>

Brief History of HTML

1991 - HTML 1.0

- **Invented by Tim Berners-Lee** for linking documents via the web.
- Simple tags: `<html>`, `<head>`, `<body>`, `<p>`, etc.

1995 - HTML 2.0

- **Standardized by IETF.**
- Introduced tables (`<table>`) and forms (`<form>`).

1997 - HTML 4.0

- Enhanced layout control with `<div>`, ``, and CSS.
- Focus on **separating content from design**.
- Deprecation of presentational tags like ``.

2008-2014 - HTML5 Development

- **HTML5** brings support for **audio**, **video**, and **canvas**.
- **Semantic tags**: `<article>`, `<section>`, `<nav>`, `<footer>`.
- Focus on **mobile support**, **offline storage**, and modern web apps.

2014-Present: HTML5 Standardized

- Continuous improvements in performance, security, and accessibility.

HTML Lists

- Types of Lists:
 - 1. Ordered List (): Displays items in a numbered format.
 - 2. Unordered List (): Displays items with bullets.
 - 3. Definition List (<dl>): Displays terms and their definitions.
- Example:
 -
 - Item 1
 - Item 2
 -

HTML Images

- The tag is used to embed images in an HTML page.
- Attributes:
 - - src: Specifies the path to the image file.
 - - alt: Provides alternative text for the image.
 - - width and height: Define the size of the image.
- Example:
 - ``

HTML Links

- The `<a>` tag is used to create hyperlinks.
- Attributes:
 - - href: Specifies the URL of the link.
 - - target: Defines where to open the link (`_blank` for new tab).
- Example:
 - `Visit Example`

HTML Backgrounds

- Set background color or images using CSS or attributes.
- Using CSS:
 - `body { background-color: lightblue; }`
- Using Background Images:
 - `body { background-image: url('background.jpg'); }`
- Inline HTML Example:
 - `<body style="background-color: lightblue;">`

HTML Tables

- Tables are defined using the `<table>` tag.

- Key Elements:

- - `<tr>`: Table Row.
- - `<td>`: Table Data.
- - `<th>`: Table Header.

- Example:

- `<table>`
- `<tr>`
- `<th>Name</th>`
- `<th>Age</th>`
- `</tr>`
- `<tr>`

HTML Forms

- Forms collect user input and send it to a server.
- Key Elements:
 - - `<form>`: Defines the form.
 - - `<input>`: Collects user data (text, radio, checkbox).
 - - `<button>`: Submits the form.
- Example:
 - `<form>`
 - `<label for='name'>Name:</label>`
 - `<input type='text' id='name' name='name'>`
 - `<button type='submit'>Submit</button>`
 - `</form>`