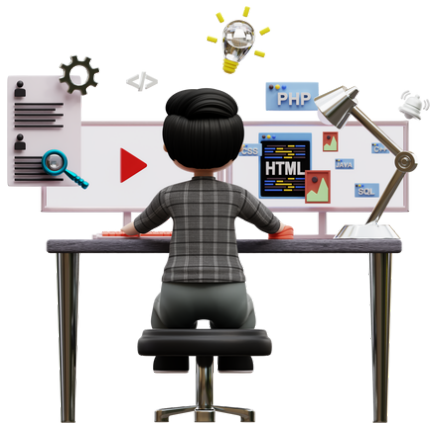




HTML

HYPERTEXT MARKUP LANGUAGE





HTML LEARNING ROADMAP

STARTING WITH HTML

UNDERSTANDING HTML AND ITS USE CASES

What is HTML?

- HTML (HyperText Markup Language) is the foundation of web development.
- It defines the structure of web pages using tags.
- It is used in websites, web apps, emails, and documents.

Where is HTML used?

- Creating static web pages
- Structuring content in web applications
- Designing email templates
- Embedding media like images, audio, and video



HTML LEARNING ROADMAP

CREATING YOUR FIRST HTML PAGE IN VS CODE

Steps:

1. Open VS Code
2. Create a new file and name it index.html
3. Write a basic HTML template

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4  |   <title>My First Web Page</title>
5  </head>
6  <body>
7  |   <h1>Welcome to My Website</h1>
8  |   <p>This is my first HTML page!</p>
9  </body>
10 </html>
```

4. Install Live Server Extension in VS Code
5. Run the file by right-clicking → Open with Live Server



HTML LEARNING ROADMAP

UNDERSTANDING HTML STRUCTURE

Basic Components of an HTML Document:

```
<!DOCTYPE html> → Declares HTML5 version  
<html>           → Root element  
<head>           → Contains metadata (title, links, scripts)  
<title>          → Defines the page title  
<body>          → Contains visible content
```

Example:

```
<!DOCTYPE html>  
<html>  
<head>  
  <title>My Page</title>  
</head>  
<body>  
  <h1>Hello World</h1>  
</body>  
</html>
```



HTML LEARNING ROADMAP

UNDERSTANDING HTML TAGS

Basic HTML Tags:

Tag	Description
<code><h1></code> - <code><h6></code>	Headings
<code><p></code>	Paragraph
<code><a></code>	Hyperlink
<code></code>	Inline container
<code><code></code>	Code formatting
<code><pre></code>	Preformatted text

Example:

```
<h1>Main Heading</h1>
<p>This is a paragraph.</p>
<a href="https://www.google.com">Click Here</a>
```



HTML LEARNING ROADMAP

UNDERSTANDING HTML LISTS

Types of Lists:

- Ordered List () – Numbered list
- Unordered List () – Bulleted list
- Nested Lists – Lists inside lists

Example:

```
<ul>
  <li>Item 1</li>
  <li>Item 2</li>
  <ol>
    <li>Sub Item 1</li>
    <li>Sub Item 2</li>
  </ol>
</ul>
```



HTML LEARNING ROADMAP

HTML ATTRIBUTES

Common Attributes:

Attribute	Use
<code>href</code>	Defines hyperlink
<code>target</code>	Opens link in new tab (<code>_blank</code>)
<code>alt</code>	Alternative text for images
<code>src</code>	Defines media source
<code>width</code> , <code>height</code>	Adjusts element size

Example:

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

```



HTML LEARNING ROADMAP

NAVIGATING BETWEEN PAGES & SECTIONS

Linking another page:

```
<a href="about.html">Go to About Page</a>
```

Jumping to a section:

```
<a href="#section1">Jump to Section</a>  
<h2 id="section1">Section 1</h2>
```




MORE ON HTML

UNDERSTANDING & USING **<DIV>** TAG

- `<div>` is a container for grouping elements.
- Used for styling, layout, and organization.

Example:

```
<div style="background-color: lightgray; padding: 10px;">  
  <h2>Title</h2>  
  <p>Content inside div.</p>  
</div>
```



MORE ON HTML

UNDERSTANDING SEMANTIC TAGS

What are Semantic Elements?

Tag	Purpose
<code><article></code>	Blog posts, news
<code><section></code>	Groups related content
<code><aside></code>	Sidebar content
<code><footer></code>	Bottom section

Example:

```
<article>
  <h2>Blog Post</h2>
  <p>This is an article about HTML.</p>
</article>
```



HTML FORMS & INPUTS

CREATING A SIMPLE FORM

```
<form action="/submit" method="POST">
  <label for="name">Name:</label>
  <input type="text" id="name" name="name" required>
  <button type="submit">Submit</button>
</form>
```

TYPES OF INPUT FIELDS:

Type	Description
<code>text</code>	Simple text input
<code>checkbox</code>	Selectable checkbox
<code>file</code>	File upload
<code>date</code>	Date picker

FORM ATTRIBUTES:

Attribute	Use
<code>method</code>	<code>GET</code> (URL-based) or <code>POST</code> (secure)
<code>action</code>	Where to send data
<code>required</code>	Makes input mandatory



FINAL SUMMARY

- Learned HTML structure, tags, attributes, lists, and tables.
- Explored forms, media elements, semantic tags, and navigation.
- Covered practical examples & common use cases.

Now you're ready to build web pages!