



Live Cohort

Notes Day 3



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.

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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:

```
<!DOCTYPE html>
<html>
<head>
    <title>My First Web Page</title>
</head>
<body>
    <h1>Welcome to My Website</h1>
    <p>This is my first HTML page!</p>
</body>
</html>
```

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

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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>
```

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Understanding HTML Tags

Basic HTML Tags:

Tag	Description
<code><h1> - <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>
```

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Working with HTML Lists

Types of Lists:

1. Ordered List (``) - Numbered list.
2. Unordered List (``) - Bulleted list.
3. 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>
```

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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 , height</code>	Adjusts element size

Examples:

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

```

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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> Tags

- <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
<article>	Blog posts, news
<section>	Groups related content
<aside>	Sidebar content
<footer>	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
text	Simple text input
checkbox	Selectable checkbox
file	File upload
date	Date picker

Form Attributes:

Attribute	Use
method	GET (URL-based) or POST (secure)
action	Where to send data
required	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!