HTML
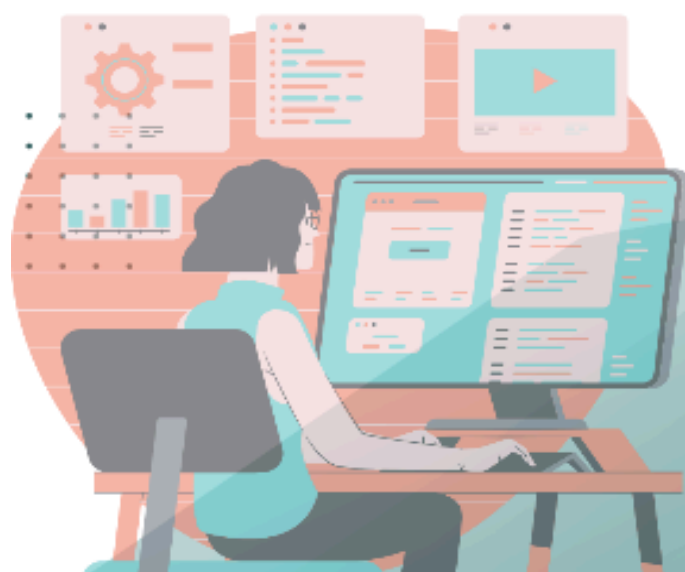
30 DAYS PLAN

2025

HTML Mastery Guide

HTML (HyperText Markup Language) is the backbone of web development. It structures web pages using elements that define content, layout, and metadata. Below, I'll break down the key concepts, provide real-world examples, and give you a **30-day mastery plan**.

Key HTML Concepts with Real-World Examples

1. HTML Document Structure

Every HTML file follows a structure:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>My First Web Page</title>
</head>
<body>
    <h1>Welcome to My Website</h1>
    <p>This is my first web page.</p>
</body>
</html>
```

Example Use Case:
A company's homepage follows this structure, where `<title>` defines the page name visible in the browser tab.

2. HTML Elements & Tags

HTML uses **tags** to define elements.

Block-level elements: `<div>`, `<p>`, `<h1> - <h6>`, `<section>`, `<article>`, etc.

Inline elements: `<span>`, `<a>`, `<strong>`, `<em>`, etc.

```html
<p>This is a <strong>bold</strong> statement.</p>
```

Example Use Case:

Blog articles use `<h1>` for main titles and `<p>` for content.

3. Attributes & Metadata

HTML tags often have attributes like `id`, `class`, `href`, `src`, etc.

```
<a href="https://example.com" target="_blank">Visit Example</a>
<img src="image.jpg" alt="A beautiful landscape">
```

Example Use Case:
An e-commerce website links products using `<a href>` and displays images using `<img>`.

4. Forms & Input Elements

Forms collect user input with `<form>` and elements like `<input>`, `<textarea>`, `<button>`, and `<select>`.

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

Example Use Case:
A login page uses `<input type="password">` for secure authentication.

5. HTML5 Semantic Elements

HTML5 introduced semantic **elements** for better readability and SEO.

```
<header>
    <h1>My Website</h1>
</header>
<nav>
    <a href="home.html">Home</a>
    <a href="about.html">About</a>
</nav>
<section>
    <article>
        <h2>Blog Post Title</h2>
        <p>Content of the blog post.</p>
    </article>
```

```
</section>
<footer>
    <p>© 2025 My Website</p>
</footer>
```

Example Use Case:
News websites use `<article>` for news stories and `<nav>` for menus.

6. Tables & Lists

Tables organize data, while lists create structured content.

```
<table border="1">
    <tr>
        <th>Name</th>
        <th>Age</th>
    </tr>
    <tr>
        <td>Alice</td>
        <td>25</td>
    </tr>
</table>

<ul>
    <li>HTML</li>
    <li>CSS</li>
    <li>JavaScript</li>
</ul>
```

Example Use Case:
E-commerce sites use tables for product specifications.

7. Multimedia Elements

HTML supports **audio, video, and images.**

```
<video controls width="400">
    <source src="video.mp4" type="video/mp4">
    Your browser does not support video.
</video>
```

Example Use Case:
YouTube embeds `<video>` for streaming content.

8. HTML APIs (Local Storage, Geolocation, etc.)

HTML5 includes JavaScript-based APIs.

```html
<script>
    if (navigator.geolocation) {
        navigator.geolocation.getCurrentPosition((position) => {
            console.log(position.coords.latitude,
position.coords.longitude);
        });
    }
</script>
```

Example Use Case:
Ride-hailing apps like Uber use **Geolocation API** to track users' locations.

30-Day HTML Mastery Plan

Week 1: Foundations (HTML Basics & Structure)

✔ **Day 1:** Understand HTML syntax, document structure, DOCTYPE, `<html>`, `<head>`, `<body>`.
✔ **Day 2:** Learn **block-level vs. inline elements** and **common tags** (`<div>`, `<span>`, `<p>`, `<h1>`-`<h6>`).
✔ **Day 3:** Study **attributes** (`id`, `class`, `href`, `src`, `alt`).
✔ **Day 4:** Learn **links & images** (`<a>`, `<img>`).
✔ **Day 5:** Explore **lists & tables** (`<ul>`, `<ol>`, `<table>`).
✔ **Day 6:** Build a simple **profile page**.
✔ **Day 7:** Revise concepts & practice small projects.

Week 2: Forms, Multimedia & Semantic HTML

✔ **Day 8:** Learn **HTML forms & inputs** (`<form>`, `<input>`, `<button>`, `<textarea>`).
✔ **Day 9:** Explore **radio buttons, checkboxes, dropdowns**.
✔ **Day 10:** Learn about **HTML5 multimedia** (`<video>`, `<audio>`).
✔ **Day 11:** Understand **semantic HTML** (`<header>`, `<nav>`, `<article>`, `<footer>`).
✔ **Day 12:** Create a **feedback form**.
✔ **Day 13:** Build a **simple blog layout**.
✔ **Day 14:** Review & practice.

Week 3: Advanced Topics & Real-World Projects

✔ **Day 15:** Learn **meta tags** for SEO.
✔ **Day 16:** Study **iframe embedding** (`<iframe>`).
✔ **Day 17:** Explore **HTML5 APIs** (local storage, geolocation).
✔ **Day 18:** Create an **interactive map page** using **Geolocation API**.
✔ **Day 19:** Build a **basic online resume**.
✔ **Day 20:** Revise previous lessons.
✔ **Day 21:** Work on a **personal portfolio page**.

Week 4: Building Real Projects & Mastery

✔ **Day 22:** Convert a **design mockup** into HTML.
✔ **Day 23:** Learn **HTML best practices & accessibility**.
✔ **Day 24:** Optimize your HTML for **SEO**.
✔ **Day 25:** Work on a **real-world project** (landing page, blog, or portfolio).
✔ **Day 26:** Add **JavaScript interactivity** to your project.
✔ **Day 27:** Learn **HTML validation & debugging**.
✔ **Day 28:** Build a **responsive webpage** (using basic CSS).
✔ **Day 29:** Finalize & deploy your project.
✔ **Day 30:** Showcase your work on **GitHub or portfolio**.

Final Thoughts

By following this plan, you'll build a **solid foundation in HTML** and create real-world projects that showcase your skills. Let me know if you need additional resources or project ideas!

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