**HTML Learning Roadmap:**

**1. Introduction to HTML**

* **What is HTML?** 
  + **HTML (HyperText Markup Language) is the standard language for creating web pages.**
  + **It structures web content and is used alongside CSS and JavaScript.**
* **Basic structure of an HTML document:**
* **<!DOCTYPE html>**
* **<html>**
* **<head>**
* **<title>My First HTML Page</title>**
* **</head>**
* **<body>**
* **<h1>Welcome to HTML</h1>**
* **</body>**
* **</html>**
* **Understanding HTML elements and tags** 
  + **HTML is made up of elements enclosed in tags.**
  + **Example: <p>This is a paragraph.</p>**

**2. Text Formatting and Headings**

* **Headings: <h1> to <h6> (H1 is the largest, H6 is the smallest).**
* **Paragraphs: <p> is used for text content.**
* **Text formatting:** 
  + **<b>: Bold (non-semantic)**
  + **<i>: Italic (non-semantic)**
  + **<u>: Underline (not commonly used for emphasis)**
  + **<strong>: Bold with semantic meaning**
  + **<em>: Italics with semantic meaning**

**3. Lists in HTML**

* **Ordered lists (<ol>) with numbered items <li>.**
* **Unordered lists (<ul>) with bullet points.**
* **Description lists (<dl>) for terms and descriptions:**
* **<dl>**
* **<dt>HTML</dt>**
* **<dd>HyperText Markup Language</dd>**
* **<dt>CSS</dt>**
* **<dd>Cascading Style Sheets</dd>**
* **</dl>**

**4. Links and Navigation**

* **Creating a link: <a href="https://example.com">Visit Example</a>**
* **Opening links in a new tab: target="\_blank"**

**5. Images and Media**

* **Adding images: <img src="image.jpg" alt="Image description">**
* **Embedding videos and audio: <video>, <audio>**

**6. Tables in HTML**

* **Creating tables with <table>, <tr>, <td>, <th>**
* **Using colspan and rowspan:**
* **<table>**
* **<tr>**
* **<th>Name</th>**
* **<th>Age</th>**
* **</tr>**
* **<tr>**
* **<td>John</td>**
* **<td>25</td>**
* **</tr>**
* **</table>**

**Intermediate Level: Structuring Webpages**

**7. HTML Forms**

* Basic form structure:
* <form action="submit.php" method="post">
* <label for="name">Name:</label>
* <input type="text" id="name" name="name" required>
* <button type="submit">Submit</button>
* </form>
* Form elements: Text input, radio buttons, checkboxes, dropdowns.

**8. Semantic HTML**

* Semantic tags for better SEO and accessibility: <header>, <nav>, <section>, <article>, <footer>.

**9. HTML5 Features**

* New form elements: <datalist>, <output>
* Multimedia elements: <audio>, <video>
* Graphics: <canvas>, <svg>

Advanced Level: Modern HTML

**10. HTML APIs**

* **Geolocation API: Retrieves user location.**
* **Drag and Drop API: Enables drag-and-drop functionality.**
* **Web Storage (LocalStorage & SessionStorage): Stores data in the browser.**

**11. Accessibility in HTML**

* **Using ARIA roles and attributes for screen readers.**
* **Creating accessible forms and navigation.**

**12. SEO-Friendly HTML**

* **Using meta tags:**
* **<meta name="description" content="Learn HTML from beginner to advanced.">**
* **Open Graph tags for social media sharing.**

**Next Steps**

* **Combine HTML with CSS and JavaScript to build dynamic websites.**
* **Work on small projects like a portfolio, a blog page, or a landing page.**
* **Explore frameworks like Bootstrap for responsive design.**
* **Learn about Progressive Web Apps (PWAs) and HTML integration with modern JavaScript frameworks.**

**By following this structured roadmap, you will develop a strong foundation in HTML from basic concepts to advanced techniques.**