

HTML GUIDE

GETTING STARTED WITH WEB
DEVELOPMENT



Masynctech Coding
School

Introduction to Coding and Programming

Coding is the process of writing instructions for computers to perform specific tasks. These instructions, known as code, are written in various programming languages. Coding is like giving step-by-step commands to a computer to make it do what you want.

Programming is the broader concept that includes coding but also involves planning and designing solutions to problems. It includes tasks like analyzing requirements, designing the structure of the solution, coding, testing, and debugging.

Programming Languages and Their Types

Programming Languages are the tools we use to write code. They have specific syntax and rules that must be followed. There are many programming languages, each designed for different purposes. Here are a few types:

1. **High-Level Languages:** Easier for humans to read and write (e.g., Python, Java, JavaScript).
2. **Low-Level Languages:** Closer to machine code, harder for humans to read (e.g., Assembly).
3. **Markup Languages:** Used to define the structure and presentation of text (e.g., HTML).
4. **Scripting Languages:** Used to automate tasks (e.g., JavaScript, Python).
5. **Compiled Languages:** Converted into machine code before execution (e.g., C, C++).
6. **Interpreted Languages:** Executed line by line by an interpreter (e.g., Python, Ruby).

Career Paths in Coding

1. **Front-End Developer:** Focuses on the user interface and user experience of websites using HTML, CSS, and JavaScript.
2. **Back-End Developer:** Works on the server-side logic, databases, and application functionality using languages like Java, Python, or Ruby.
3. **Full-Stack Developer:** Combines front-end and back-end development skills.
4. **Mobile App Developer:** Creates applications for mobile devices using languages like Swift (iOS) or Kotlin (Android).
5. **Desktop App Developer:** Create applications that runs on desktops

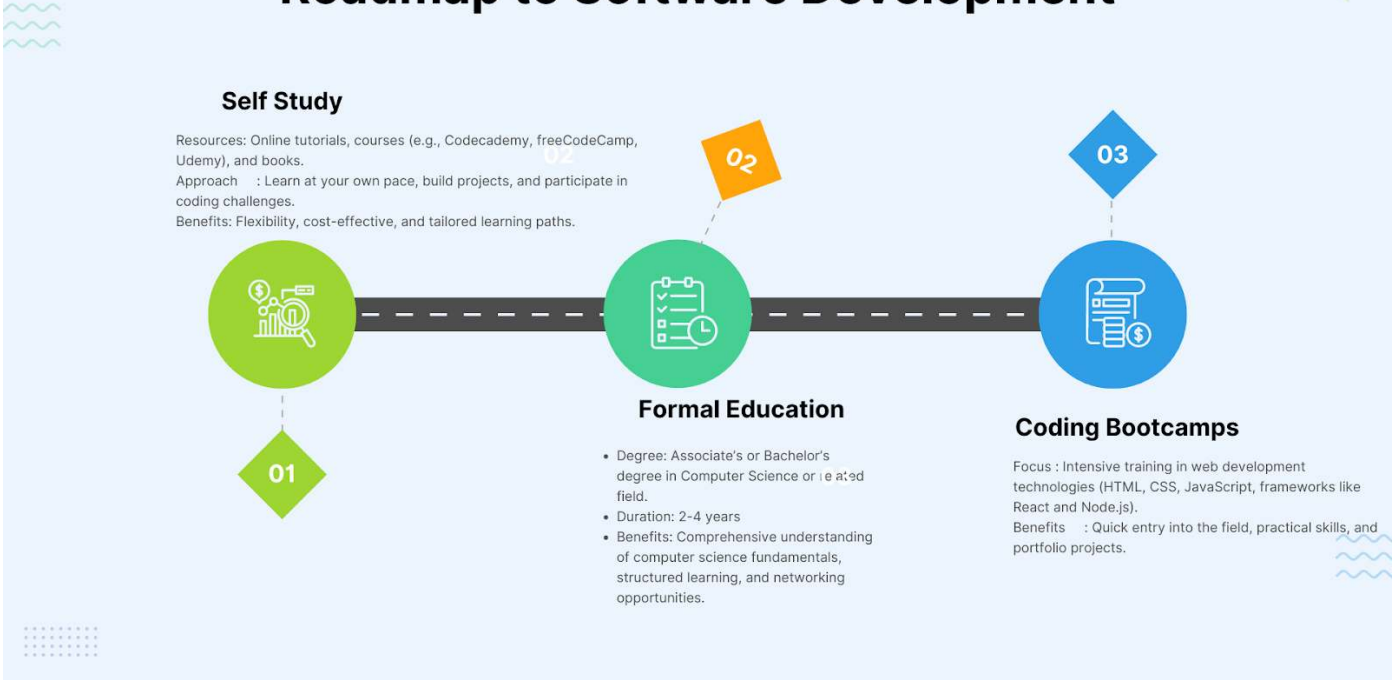
Opportunities in Coding

OPPORTUNITIES IN CODING

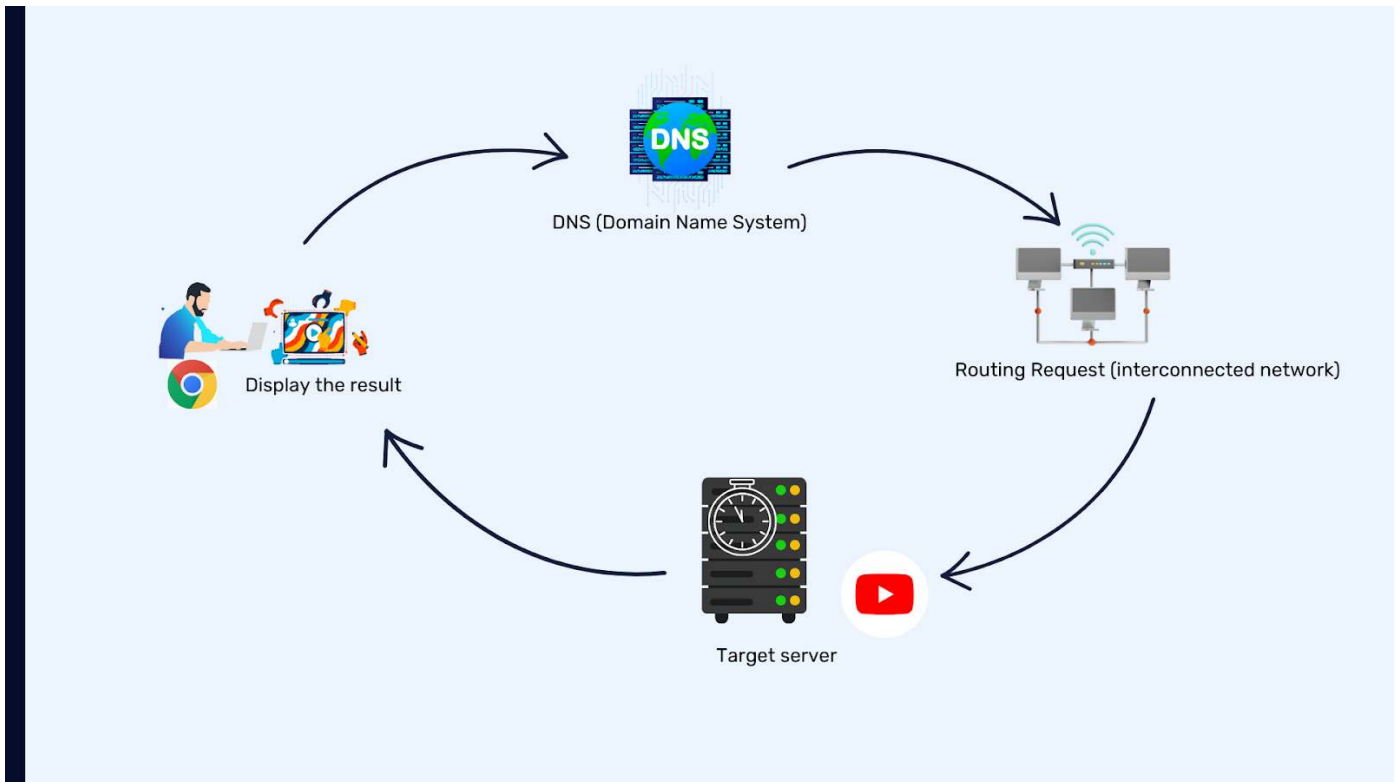


Ways to become a developer

Roadmap to Software Development



How does the internet works



How the Internet Works: A Simple Explanation

The internet is a vast, interconnected network that allows computers all over the world to communicate with each other. Here's a breakdown of how it works, using key components like clients, DNS, servers, and users.

1. Users and Clients

- **User:** This is you, the person who wants to access information or services on the internet.
- **Client:** The device you use to connect to the internet (e.g., a computer, smartphone, or tablet). When you open a web browser and type in a website address, your device acts as a client.

2. Domain Name System (DNS)

- **Domain Name:** The human-readable address you type into your web browser, like www.example.com.
- **DNS (Domain Name System):** Think of DNS as the internet's phonebook. It translates domain names into IP addresses, which are numerical labels assigned to each device connected to the internet. For example, www.example.com might translate to 192.0.2.1.
- **Process:** When you type a domain name into your browser, the DNS server finds the corresponding IP address so your client can locate the correct server.

3. Interconnected Network

- **Network:** The internet is a global system of interconnected networks. These networks are made up of computers, servers, routers, and other devices that communicate with each other using standardized protocols (rules for data exchange).
- **Routing:** Routers are devices that direct data packets (small chunks of data) through the internet, ensuring they reach the correct destination.

4. Servers

- **Server:** A powerful computer that stores websites, applications, and data. When your client requests a webpage, the server processes the request and sends the appropriate information back to your client.
- **Web Hosting:** Websites are hosted on servers. When you visit a website, you are accessing the information stored on the server where the website is hosted.

5. Data Exchange Process

1. **Request:** As a user, you type a website address into your browser and press enter.
2. **DNS Lookup:** Your client sends a request to a DNS server to translate the domain name into an IP address.
3. **Routing:** Using the IP address, your client sends a request over the internet to the server where the website is hosted. Routers along the way direct the data packets to the correct server.
4. **Server Response:** The server receives the request, processes it, and sends the requested webpage data back to your client through the internet.
5. **Display:** Your client receives the data and your web browser displays the webpage for you to see and interact with.

Visualizing the Process

1. **User:** You want to visit www.example.com.
2. **Client:** Your computer sends a request for www.example.com.
3. **DNS:** The DNS server translates www.example.com to 192.0.2.1.
4. **Routing:** Routers direct your request to the server at 192.0.2.1.
5. **Server:** The server at 192.0.2.1 sends the webpage data back.
6. **Client:** Your computer receives the data and displays www.example.com.

This entire process happens in a matter of seconds, allowing you to seamlessly browse the internet and access a world of information and services!

Ways to Become a Software Developer

1. **Formal Education:** Pursuing a degree in computer science or related fields.
2. **Bootcamps:** Intensive, short-term training programs focused on practical skills.
3. **Self-Learning:** Using online resources, tutorials, and courses.
4. **Internships:** Gaining practical experience through internships.
5. **Certifications:** Earning certifications in specific technologies or languages.

Components of a Web Application

1. **Front-End:** The part of the application the user interacts with, built using HTML, CSS, and JavaScript.
2. **Back-End:** The server, database, and application logic that process user requests.
3. **Database:** Stores and retrieves data for the application.
4. **API (Application Programming Interface):** Allows different parts of the application to communicate with each other.

A Brief Overview of What HTML Is and Its Role in Web Development

What is HTML?

HTML stands for **HyperText Markup Language**. It is the standard language used to create webpages. HTML provides the basic structure of a website, which is then enhanced and modified by other technologies like CSS (Cascading Style Sheets) and JavaScript.

Role in Web Development:

HTML is often referred to as the "skeleton" of a webpage. It defines the structure and content, such as headings, paragraphs, links, images, and more. Every webpage you see on the internet is built with HTML at its core.

For example, when you visit a webpage, your browser reads the HTML code, interprets it, and displays the content in a structured way. HTML is essential because it ensures that the content is organized, accessible, and readable by both humans and search engines.

Scenario:

Imagine you're building a simple webpage for your portfolio. HTML allows you to define sections like the header, main content area, and footer. You can add text, images, links to your work, and even embed videos. Without HTML, you wouldn't be able to structure or display this content in a meaningful way.

Explanation of the Structure of an HTML Document

A basic HTML document is made up of several key elements that define its structure. Here's a breakdown:

1. The `<!DOCTYPE html>` Declaration:

This is the very first line of any HTML document. It tells the browser what version of HTML you are using. For modern webpages, this is always `<!DOCTYPE html>`, which indicates HTML5.

2. The `<html>` Tag:

This is the root element of an HTML document. Everything inside the webpage is contained within the opening `<html>` and closing `</html>` tags.

3. The `<head>` Section:

The `<head>` section contains meta-information about the document, such as its title, character set, and links to external files like CSS or JavaScript. Content within the `<head>` is not displayed directly on the webpage, but it's crucial for the page's operation.

Key Elements in `<head>`:

- `<title>`: Sets the title of the webpage, which appears in the browser tab.
- `<meta>`: Defines metadata like character encoding, viewport settings, and SEO information.
- `<link>`: Used to link external resources like CSS files.
- `<script>`: Links to or embeds JavaScript.

4. The `<body>` Section:

The `<body>` section contains all the content that will be displayed on the webpage, such as text, images, videos, links, and more. Everything visible on your webpage is placed inside the `<body>` tags.

Putting It All Together:

Here's a simple HTML document structure:

```
<!DOCTYPE html>
```

```
<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>My First Webpage</title>

</head>

<body>

  <h1>Welcome to My Website</h1>

  <p>This is a simple webpage created with HTML.</p>

</body>

</html>
```

Explanation:

- `<!DOCTYPE html>`: Declares the document type.
- `<html lang="en">`: Begins the HTML document and sets the language to English.
- `<head>`: Contains meta-information, including the character set and the title of the webpage.
- `<body>`: Contains the actual content displayed on the page, like the heading (`<h1>`) and paragraph (`<p>`).

Questions:

- What is the purpose of the `<!DOCTYPE html>` declaration?
- Why is the `<head>` section important if its content isn't displayed on the webpage?
- How does the `<body>` section differ from the `<head>` section?

HTML Tags

Explanation

HTML (HyperText Markup Language) is the standard language used to create and design webpages. An HTML tag is a fundamental part of HTML. It is used to define elements on a webpage, like headings, paragraphs, links, images, and more.

Tags are the building blocks of HTML and are used to create the structure and content of a webpage. Each tag has a specific purpose and is enclosed in angle brackets, like this: `<tagname>`. Most tags come in pairs: an opening tag and a closing tag. The closing tag is the same as the opening tag but with a forward slash (/) before the tag name.

Scenario

Imagine you are writing a document using HTML to create a webpage. You want to add a heading and a paragraph of text. You would use the `<h1>` tag for the heading and the `<p>` tag for the paragraph.

Syntax

Here's the basic syntax for an HTML tag:

```
<openingtagname>Content</closingtagname>
```

Code Example

Let's create a simple webpage with a heading and a paragraph:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>My First Webpage</title>
```

```
</head>
```

```
<body>
```

```
<h1>Welcome to My Webpage</h1>
```

```
<p>This is my first webpage. I am learning HTML!</p>
```

```
</body>
```

```
</html>
```

In this example:

- `<html>`: The root element that wraps all the content of the webpage.
- `<head>`: Contains meta-information about the document, like the title.
- `<title>`: Sets the title of the webpage that appears in the browser tab.
- `<body>`: Contains the content of the webpage that will be displayed in the browser.
- `<h1>`: Represents a top-level heading.
- `<p>`: Represents a paragraph of text.

Questions

1. What does HTML stand for?
2. What is the purpose of an HTML tag?
3. How do you write an opening and closing HTML tag?
4. What is the difference between the `<h1>` tag and the `<p>` tag?
5. What do the `<head>` and `<body>` tags do in an HTML document?

HTML Tags

Explanation: HTML tags are the building blocks of web pages. They are used to create elements on a webpage, such as headings, paragraphs, links, images, and more. Each tag has an opening part (e.g., `<p>`) and a closing part (e.g., `</p>`), with the content in between.

Scenario: Imagine you want to create a simple webpage for your favorite recipe. You'll use HTML tags to add a title, a heading, a paragraph describing the recipe, and a list of ingredients.

Syntax:

```
<opening-tag>Content</closing-tag>
```

Code Example:

```
<!DOCTYPE html>

<html>

<head>

  <title>My Favorite Recipe</title>

</head>

<body>

  <h1>Chocolate Chip Cookies</h1>

  <p>This is my favorite chocolate chip cookie recipe. It's easy to make and tastes delicious!
</p>

  <ul>

    <li>1 cup butter</li>

    <li>1 cup sugar</li>

    <li>2 cups flour</li>

    <li>1 cup chocolate chips</li>

  </ul>

</body>

</html>
```

Questions:

1. What are HTML tags used for?
2. How do you create a paragraph in HTML?
3. What is the purpose of the `<head>` tag?
4. Which tag would you use to create an unordered list?
5. How do you add a title to an HTML document?

The Structure of an HTML Document

An HTML document has a specific structure, starting with the `<!DOCTYPE html>` declaration and followed by the `<html>`, `<head>`, and `<body>` tags:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>My First Webpage</title>
```

```
</head>
```

```
<body>
```

```
  <h1>Welcome to My Webpage</h1>
```

```
  <p>This is my first paragraph.</p>
```

```
  <audio controls>
```

```
    <source src="audiofile.mp3" type="audio/mpeg">
```

```
</audio>
```

```
  <video width="320" height="240" controls>
```

```
    <source src="videofile.mp4" type="video/mp4">
```

```
</video>
```

```
</body>
```

```
</html>
```

Detailed Explanation of Common HTML Tags

Heading Tags (<h1> to <h6>)

Explanation:

Heading tags are used to define titles or subtitles on a webpage. They range from <h1> (the most important) to <h6> (the least important). Headings help structure content, making it easier for users and search engines to understand the page.

Scenario:

Imagine you're creating a blog post. The title of the post would be an <h1>, the section titles would use <h2>, and smaller subsections might use <h3> to <h6>.

Syntax:

```
<h1>Main Title</h1>
```

```
<h2>Section Title</h2>
```

```
<h3>Subsection Title</h3>
```

Code Example:

```
<h1>My Blog Post</h1>
```

```
<h2>Introduction</h2>
```

```
<h3>Why HTML is Important</h3>
```

Questions:

- What is the difference between <h1> and <h3>?
- Why should you use heading tags instead of just making text bold?
- How do search engines use heading tags?

Paragraph Tag (<p>)

Explanation:

The `<p>` tag is used to create paragraphs of text. It's one of the most basic HTML tags and is essential for displaying content.

Scenario:

You're writing an article, and you need to break your text into readable sections. You use `<p>` tags to create each paragraph.

Syntax:

```
<p>This is a paragraph of text.</p>
```

Code Example:

```
<p>HTML is the standard language for creating webpages. It allows you to structure your content and make it accessible to users.</p>
```

Questions:

- What happens if you don't use `<p>` tags for your text?
- Can you have multiple paragraphs inside one `<p>` tag?
- How does the browser display content inside a `<p>` tag?

Link Tag (<a>)

Explanation:

The `<a>` tag is used to create hyperlinks, which allow users to navigate to other pages or resources.

Scenario:

You want to link to another article in your blog post. You use the `<a>` tag to make a clickable link

Syntax: `Link Text`

Code Example:

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

Questions:

- What does the `href` attribute do?
- How can you open a link in a new tab?
- Can you link to a section within the same page?

Video Tag (<video>)

Explanation:

The `<video>` tag is used to embed video content on a webpage. It supports various formats like MP4, WebM, and Ogg.

Scenario:

You're creating a tutorial site and want to include a video demonstration. You use the `<video>` tag to embed the video.

Syntax:

```
<video controls>
```

```
<source src="video.mp4" type="video/mp4">
```

```
Your browser does not support the video tag.
```

```
</video>
```

Code Example:

```
<video controls>
```

```
<source src="tutorial.mp4" type="video/mp4">
```

```
Sorry, your browser doesn't support embedded videos.
```

</video>

Questions:

- What does the `controls` attribute do?
- How can you provide multiple video formats for better compatibility?
- What happens if the video format is not supported by the browser?

Audio Tag (<audio>)

Explanation:

The `<audio>` tag is used to embed sound files into a webpage. It can be used to play music, podcasts, or any audio content.

Scenario:

You're creating a podcast website and want to include an episode on the page. You use the `<audio>` tag to embed the audio file.

Syntax:

```
<audio controls>
```

```
<source src="audiofile.mp3" type="audio/mp3">
```

```
Your browser does not support the audio element.
```

```
</audio>
```

Code Example:

```
<audio controls>
```

```
<source src="podcast.mp3" type="audio/mp3">
```

```
Sorry, your browser doesn't support audio playback.
```

```
</audio>
```


Questions:

- What are the different attributes available for the `<audio>` tag?
- How do you handle browsers that don't support the `<audio>` tag?
- Can you embed multiple audio sources in a single `<audio>` tag?

Table Tags (`<table>`, `<tr>`, `<td>`, `<th>`)

Explanation:

Table tags are used to display data in a structured, grid format. The main tags are `<table>` (the container), `<tr>` (table rows), `<td>` (table data cells), and `<th>` (table headers).

Scenario:

You need to show a comparison of products on a webpage. A table is perfect for this task.

Syntax:

```
<table>
```

```
<tr>
```

```
<th>Product</th>
```

```
<th>Price</th>
```

```
</tr>
```

```
<tr>
```

```
<td>Product 1</td>
```

```
<td>$10</td>
```

```
</tr>
```

```
</table>
```

Code Example:

```
<table>

<tr>

  <th>Product Name</th>

  <th>Price</th>

</tr>

<tr>

  <td>Widget A</td>

  <td>$15.00</td>

</tr>

<tr>

  <td>Widget B</td>

  <td>$20.00</td>

</tr>

</table>
```

Questions:

- What is the difference between `<td>` and `<th>`?
- How do you add a border to a table?
- Can you nest tables inside each other?

List Tags (``, ``, ``)

Explanation:

List tags are used to create lists of items. `` creates an unordered list (bullets), `` creates an ordered list (numbers), and `` defines each list item.

Scenario:

You're making a shopping list or a step-by-step guide. You would use lists to organize the content.

Syntax:

```
<ul>
```

```
<li>Item 1</li>
```

```
<li>Item 2</li>
```

```
</ul>
```

```
<ol>
```

```
<li>Step 1</li>
```

```
<li>Step 2</li>
```

```
</ol>
```

Code Example:

```
<ul>
```

```
<li>Milk</li>
```

```
<li>Bread</li>
```

```
<li>Eggs</li>
```

```
</ul>
```

```
<ol>
```

```
<li>Preheat oven to 350°F.</li>
```

```
<li>Mix ingredients.</li>
```

```
<li>Bake for 25 minutes.</li>
```

```
</ol>
```

Questions:

- What is the difference between `` and ``?
- How do you change the list style type in CSS?
- Can lists be nested inside other lists?

Iframe Tag (`<iframe>`)

Explanation:

The `<iframe>` tag is used to embed another webpage or content (like a map or a video) inside the current page.

Scenario:

You want to embed a YouTube video or Google Map on your webpage. The `<iframe>` tag allows you to do this.

Syntax:

```
<iframe src="URL"></iframe>
```

Code Example:

```
<iframe width="560" height="315" src="https://www.youtube.com/embed/example" allowfullscreen></iframe>
```

Questions:

- What are some common uses for the `<iframe>` tag?
 - How can you set the width and height of an iframe?
 - What does the `allowfullscreen` attribute do?
-

Div Tag (`<div>`)

Explanation:

The `<div>` tag is a container element used to group and style content. It doesn't have any specific meaning on its own but is essential for structuring webpages.

Scenario:

You're designing a webpage layout and want to create sections that you can style differently. The `<div>` tag helps you do that.

Syntax:

```
<div>Content here</div>
```

Code Example:

```
<div class="header">
```

```
  <h1>Welcome to My Website</h1>
```

```
</div>
```

```
<div class="content">
```

```
  <p>This is a paragraph inside a div.</p>
```

```
</div>
```

Questions:

- What is the main purpose of the `<div>` tag?
- How can you style a `<div>` with CSS?
- What is the difference between `<div>` and ``?

Image Tag ()

Explanation:

The tag is used to display images on a webpage. It requires the `src` attribute to define the path to the image file.

Scenario:

You want to show a picture on your website, such as a product photo or a logo. You use the tag to embed the image.

Syntax:

```

```

Code Example:

```

```

Questions:

- What is the purpose of the `alt` attribute in the tag?
- How do you resize an image using the tag?
- Can you link an image to another webpage?

Form Tags (<form>, <input>, <label>)

Explanation:

Form tags are used to collect user input. The <form> tag is the container for form elements, <input> is used for different types of user input, and <label> is used to describe what each input is for.

Scenario:

You're creating a signup page that requires a user's name, email, and password. You use a form to collect this information.

Syntax:

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

Code Example:

```
<form action="/submit" method="post">  
  
<label for="username">Username:</label>  
  
<input type="text" id="username" name="username"><br>  
  
<label for="password">Password:</label>  
  
<input type="password" id="password" name="password"><br>  
  
<input type="submit" value="Sign Up">  
  
</form>
```

Questions:

- What is the difference between `get` and `post` methods in a form?
- How can you make a form field required?
- What types of inputs can you create with the `<input>` tag?

Text Formatting Tags (``, `<i>`, ``, ``)

Explanation:

Text formatting tags are used to change the appearance of text. `` makes text bold, `<i>` makes text italic, `` emphasizes important text (bold), and `` emphasizes with a different intensity (italic).

Scenario:

You want to highlight certain words or phrases in a blog post to make them stand out. You use text formatting tags for this purpose.

Syntax:

`Bold Text`

`<i>Italic Text</i>`

`Strong Text`

`Emphasized Text`

Code Example:

```
<p><strong>Warning:</strong> Please read the <em>instructions</em> carefully before proceeding.</p>
```

Questions:

- What is the difference between `` and ``?
- When should you use `` instead of `<i>`?
- How do text formatting tags impact accessibility?

Span Tag (``)

Explanation:

The `` tag is an inline container used to group and style text or elements within a larger block of content. Unlike `<div>`, it doesn't break the flow of content.

Scenario:

You want to change the color of a specific word in a paragraph without affecting the rest of the text. The `` tag helps you do this.

Syntax:

```
<span>Text here</span>
```

Code Example:

```
<p>This is a <span style="color:red;">red</span> word in a sentence.</p>
```

Questions:

- How does the `` tag differ from the `<div>` tag?
- When would you use a `` tag?
- Can you nest `` tags inside each other?

HTML Attributes: What They Are and How They Modify Elements

What are HTML Attributes?

HTML attributes provide additional information about HTML elements. They modify the behavior or appearance of the element and are always included in the opening tag of the element. Attributes are made up of a name and a value pair, like `name="value"`.

For example, in ``, `href` is the attribute name, and `"https://www.example.com"` is its value. Attributes enhance the functionality of HTML elements by adding useful details like links, IDs, classes, styles, and alternative text.

How Do Attributes Work?

Attributes are like settings that you can apply to HTML elements to change how they behave or appear. Depending on the attribute, you can link to another page, style an element, add a unique identifier, or provide information for accessibility.

Scenario:

Suppose you have an image on your webpage, and you want to specify its source, size, and an alternative text description in case the image doesn't load. You would use attributes like `src`, `width`, `height`, and `alt` to define these properties.

Common HTML Attributes with Examples

Here's a look at some of the most commonly used HTML attributes:

1. `id` Attribute

Explanation:

The `id` attribute assigns a unique identifier to an HTML element. It is useful for targeting specific elements with CSS or JavaScript. The value of the `id` attribute must be unique within the entire HTML document.

Example:

```
<p id="intro">This is an introductory paragraph.</p>
```

Scenario:

You want to style a specific paragraph differently from others on the page. You give it an `id` and then target it with CSS.

Questions:

- Why must the `id` attribute value be unique?
 - How would you target an element with a specific `id` using CSS?
-

2. `class` Attribute

Explanation:

The `class` attribute is used to assign one or more class names to an element. Unlike `id`, the same class can be used on multiple elements. It's commonly used for styling groups of elements with CSS or for selecting elements in JavaScript.

Example:

```
<p class="highlight">This text will be highlighted.</p>
```

```
<p class="highlight">This text will also be highlighted.</p>
```

Scenario:

You want to apply the same style to multiple paragraphs. You assign them the same **class** and use CSS to style them.

Questions:

- Can an element have more than one class? If so, how?
 - How would you style all elements with a specific class using CSS?
-

3. **style** Attribute

Explanation:

The **style** attribute allows you to apply inline CSS directly to an HTML element. This is useful for adding quick, unique styles without affecting other elements.

Example:

```
<p style="color: blue; font-size: 18px;">This text is blue and larger.</p>
```

Scenario:

You want to change the color and size of a specific paragraph without affecting the others. You use the **style** attribute to apply inline styles.

Questions:

- What are the advantages and disadvantages of using inline styles with the **style** attribute?
 - How does using the **style** attribute compare to using an external CSS file?
-

4. **src** Attribute

Explanation:

The `src` (source) attribute is used in elements like ``, `<video>`, and `<audio>` to specify the path to the file that should be displayed or played.

Example:

```

```

Scenario:

You have an image that you want to display on your webpage. You use the `src` attribute to tell the browser where to find the image file.

Questions:

- What happens if the `src` attribute points to a non-existent file?
 - How would you use the `src` attribute in an `<audio>` or `<video>` tag?
-

5. `href` Attribute

Explanation:

The `href` (hyperlink reference) attribute is used in `<a>` (anchor) tags to define the URL of the page the link goes to. It can be used to link to other pages on the same site, external sites, or specific sections within the same page.

Example:

```
<a href="https://www.example.com">Visit Example Website</a>
```

Scenario:

You want to add a link to another website. You use the `href` attribute to specify the destination URL.

Questions:

- What is the difference between linking to an external site versus a section within the same page?
 - How can you make a link open in a new tab?
-

6. alt Attribute

Explanation:

The **alt** (alternative text) attribute is used in `` tags to provide a text description of the image. This is important for accessibility, as it helps screen readers describe the image to users who cannot see it. It also appears if the image fails to load.

Example:

```

```

Scenario:

You're adding a company logo to your webpage. To make it accessible, you use the **alt** attribute to describe the image.

Questions:

- Why is the **alt** attribute important for accessibility?
 - What will users see if the image file is missing or fails to load?
-

7. target Attribute

Explanation:

The **target** attribute is often used in `<a>` tags to specify where to open the linked document. The most common value is `_blank`, which opens the link in a new tab.

Example:

```
<a href="https://www.example.com" target="_blank">Open Example in a New Tab</a>
```

Scenario:

You want your users to open a link in a new tab so they don't lose their place on your site. You use the `target="_blank"` attribute.

Questions:

- What other values can the `target` attribute have besides `_blank`?
 - What is the impact of using `target="_blank"` on user experience?
-

8. `title` Attribute

Explanation:

The `title` attribute provides additional information about an element. When a user hovers over the element, the title text appears as a tooltip.

Example:

```
<a href="https://www.example.com" title="Visit Example Website">Example</a>
```

Scenario:

You want to give users more context about a link without cluttering the page. The `title` attribute displays this information when they hover over the link.

Questions:

- In what situations would using the `title` attribute be particularly helpful?
 - Can the `title` attribute be used with elements other than `<a>`?
-

Summary:

HTML attributes play a vital role in defining the behavior and appearance of HTML elements. Understanding and using attributes like `id`, `class`, `style`, `src`, `href`, `alt`, `target`, and `title` effectively can greatly enhance your ability to create dynamic, well-structured, and accessible webpages.

Styling with CSS: Applying Basic Styling with Inline CSS

What is CSS?

CSS stands for **Cascading Style Sheets**. It is a language used to style and format the layout of web pages. While HTML provides the structure and content, CSS controls how that content is presented visually—such as the colors, fonts, spacing, and layout.

What is Inline CSS?

Inline CSS refers to adding CSS directly within an HTML tag using the `style` attribute. This method applies the style to a specific element on the page. Inline CSS is useful for making quick changes or when you want to style individual elements differently from others.

Scenario:

You are building a simple webpage and want to make one paragraph stand out by changing its text color and font size. Instead of creating an external or internal CSS file, you use inline CSS to apply these styles directly to the paragraph.

How to Apply Inline CSS

Using the `style` Attribute:

To apply inline CSS, you add the `style` attribute to an HTML element, followed by the CSS properties you want to apply. Multiple CSS properties can be applied by separating them with semicolons (;).

Syntax:

```
<tag style="property: value;">Content</tag>
```

Example:

```
<p style="color: blue; font-size: 20px;">This text is blue and larger.</p>
```

Explanation:

- `color: blue;` changes the text color to blue.
- `font-size: 20px;` increases the font size to 20 pixels.

Common CSS Properties for Inline Styling:

Color (

)

- Changes the text color.
- Example: `color: red;`

Font Size (

)

- Adjusts the size of the text.
- Example: `font-size: 18px;`

Background Color (

)

- Changes the background color of an element.
- Example: `background-color: yellow;`

Text Alignment (

)

- Aligns text within an element.
- Example: `text-align: center;`

Padding (

)

- Adds space inside an element, between the content and the border.
- Example: `padding: 10px;`

Margin (

)

- Adds space outside an element, between the element and surrounding elements.
- Example: `margin: 20px;`

Font Family (

)

- Changes the font type.
- Example: `font-family: Arial, sans-serif;`

Examples of Inline CSS in Action

Example 1: Changing Text Color and Font Size

```
<p style="color: green; font-size: 16px;">This paragraph is green and has a font size of 16 pixels.</p>
```

Example 2: Adding Background Color and Centering Text

```
<h1 style="background-color: lightgray; text-align: center;">Centered Heading with a Gray Background</h1>
```

Example 3: Adding Padding and Margin

```
<div style="padding: 15px; margin: 20px; background-color: lightblue;">
```

This div has padding and margin, making it spaced out and padded.

```
</div>
```

When to Use Inline CSS

Advantages:

- **Quick and Easy:** Ideal for making fast changes to specific elements.
- **Overrides External/Internal Styles:** Inline styles take precedence over other CSS, making it useful for overriding existing styles.

Disadvantages:

- **Harder to Maintain:** Inline CSS can make your HTML code messy and harder to maintain, especially if you apply it to many elements.
- **Not Reusable:** Unlike classes and IDs, inline styles cannot be reused, leading to repetitive code.

Best Practices:

- Use inline CSS sparingly, mainly for small or unique style changes.
- For consistent styling across multiple elements, prefer external or internal CSS.

Summary

Inline CSS is a quick way to apply styles directly to HTML elements using the `style` attribute. It's especially useful for one-off styles or small changes but can become cumbersome if overused. For more organized and reusable styles, consider using internal or external CSS.

Semantic HTML: The Importance of Using Semantic Tags

What is Semantic HTML?

Semantic HTML refers to using HTML tags that clearly describe the purpose and meaning of the content within them. These tags don't just define how the content looks (like `<div>` or ``); they convey the role that the content plays in the overall structure of the webpage. Common semantic tags include `<header>`, `<footer>`, `<section>`, `<article>`, `<nav>`, and `<aside>`.

Why Use Semantic HTML?

Semantic HTML is important because it improves the clarity of your code for both humans and machines. By using semantic tags, you help browsers, search engines, and assistive technologies (like screen readers) understand the content and its structure, which leads to better accessibility and search engine optimization (SEO).

Scenario:

Imagine you're creating a news website. By using semantic tags like `<article>` for individual news stories and `<header>` for the main heading, you make it easier for search engines to index your content and for users to navigate your site, especially those using assistive technologies.

Key Semantic HTML Tags and Their Roles

1. `<header>` Tag

Explanation:

The `<header>` tag defines the introductory section of a webpage or a specific section of content. It typically contains navigation links, a logo, or a title. There can be multiple `<header>` tags on a single page if each section or article has its own header.

Example:

```
<header>

  <h1>My Website</h1>

  <nav>

    <a href="#home">Home</a>

    <a href="#about">About</a>

    <a href="#contact">Contact</a>

  </nav>

</header>
```

Scenario:

You have a webpage with a top banner containing the site's name and navigation links. Using the `<header>` tag makes it clear that this section is the header of the page.

Questions:

- What content typically goes inside a `<header>` tag?
- Can a single webpage have more than one `<header>` tag?

2. `<footer>` Tag

Explanation:

The `<footer>` tag defines the footer of a webpage or a section. It usually contains information like copyright details, contact info, or links to terms and conditions. Like the `<header>`, multiple `<footer>` tags can exist on a single page.

Example:

```
<footer>
```

```
<p>&copy; 2024 My Website</p>
```

```
<p><a href="#privacy">Privacy Policy</a></p>
```

```
</footer>
```

Scenario:

At the bottom of your webpage, you want to display copyright information and a link to your privacy policy. The `<footer>` tag is perfect for this.

Questions:

- What types of content are most appropriate for the `<footer>` tag?
- How does the `<footer>` tag benefit accessibility?

3. `<section>` Tag

Explanation:

The `<section>` tag is used to group related content together, usually with a heading. Each `<section>` typically represents a distinct part of the content, such as a chapter in a book, a section of an article, or a section of a webpage.

Example:

```
<section>
```

```
<h2>About Us</h2>
```

```
<p>We are a company dedicated to providing quality services.</p>
```

```
</section>
```

```
<section>
```

```
<h2>Our Services</h2>
```

```
<p>We offer a wide range of services to meet your needs.</p>
```

```
</section>
```

Scenario:

You're creating an "About Us" page that has different sections for company history, team members, and services. Using `<section>` tags helps group these related pieces of content clearly.

Questions:

- When should you use a `<section>` tag instead of a `<div>` tag?
- How do headings inside `<section>` tags benefit users and search engines?

4. `<article>` Tag

Explanation:

The `<article>` tag is used for self-contained content that could be distributed or reused independently, like a blog post, news story, or forum entry. Each `<article>` should make sense on its own, even if taken out of context.

Example:

```
<article>
```

```
<h2>Breaking News: New Tech Innovation</h2>
```

```
<p>A groundbreaking technology was unveiled today that could change the industry.</p>
```

```
</article>
```

```
<article>
```

```
<h2>How to Improve Your Coding Skills</h2>
```

```
<p>Here are some tips to help you become a better coder.</p>
```

```
</article>
```

Scenario:

On a news site, each news story is an independent piece of content. Using `<article>` tags helps to encapsulate each story, making it clear that they are separate pieces of content.

Questions:

- What kinds of content are most suitable for the `<article>` tag?
- How does using `<article>` tags affect how search engines index your content?

How Semantic HTML Improves Accessibility

Accessibility Benefits:

- **Screen Readers:** Semantic tags help screen readers navigate and interpret the content more effectively. For example, a screen reader can quickly identify a `<nav>` tag as the main navigation or an `<article>` tag as a self-contained piece of content.
- **Clear Structure:** Semantic tags provide a clear and logical structure to the content, which helps users with cognitive disabilities understand the content better.

Example:

```
<header>
```

```
<h1>My Blog</h1>
```

```
</header>
```

```
<article>
```

```
<h2>Latest Post: Understanding CSS</h2>
```

```
<p>This post explains the basics of CSS.</p>
```

```
</article>
```

```
<footer>
```

```
<p>&copy; 2024 My Blog</p>
```

```
</footer>
```

Scenario:

A user with a visual impairment visits your blog and uses a screen reader. Because you've used semantic tags, the screen reader can effectively communicate the structure and content, making it easier for the user to navigate and understand.

How Semantic HTML Improves SEO

SEO Benefits:

- **Better Indexing:** Search engines like Google use the structure provided by semantic HTML to better understand the content of your page. This can lead to improved indexing and potentially higher rankings in search results.
- **Rich Snippets:** Using semantic tags like `<article>` and `<section>` can help search engines create rich snippets (detailed information displayed directly in search results), which can improve click-through rates.

Example:

```
<article>
```

```
<h2>Top 10 Tips for Learning JavaScript</h2>
```

```
<p>JavaScript is an essential language for web development. Here are the top 10 tips to master it.</p>
```

</article>

Scenario:

By using semantic tags to structure your blog post, search engines can more easily identify the key content of your page, increasing the likelihood that it will appear prominently in search results when someone searches for JavaScript learning tips.

Summary

Using semantic HTML tags like <header>, <footer>, <section>, and <article> is essential for creating well-structured, accessible, and search-engine-friendly webpages. These tags not only make your content easier to understand for users and search engines but also improve the overall quality and usability of your website. Incorporating semantic HTML is a best practice that enhances the effectiveness and accessibility of your web content.

Best Practices: Tips for Writing Clean and Readable HTML Code

Why Writing Clean HTML is Important:

Clean and readable HTML code is easier to maintain, debug, and collaborate on. It ensures that your code is understandable not just to you but also to other developers who might work on the project in the future. Additionally, clean code improves accessibility and reduces the likelihood of errors.

1. Properly Close All Tags

Explanation:

Every HTML element that is not self-closing (like or
) must have an opening and a closing tag. Failing to close tags can lead to unpredictable behavior and make the code difficult to debug.

Example:

<!-- Incorrect -->

<p>This is a paragraph.


```
<!-- Correct -->
```

```
<p>This is a paragraph.</p>
```

Tip:

Always double-check that each opening tag has a corresponding closing tag. Some text editors and IDEs provide auto-completion and validation features to help with this.

Questions:

- What issues can arise from not closing HTML tags properly?
 - Are there any tags that do not require a closing tag?
-

2. Use Proper Indentation

Explanation:

Indentation is the practice of adding spaces or tabs before HTML elements to visually represent their hierarchy. Proper indentation makes your code more readable and helps you see the structure of your HTML document at a glance.

Example:

```
<!-- Correct Indentation -->
```

```
<div>
```

```
  <h1>Title</h1>
```

```
  <p>This is a paragraph inside a div.</p>
```

```
</div>
```

Tip:

Use consistent indentation throughout your code (e.g., 2 spaces or 4 spaces) and stick to it. Most code editors allow you to set this up automatically.

Questions:

- How does proper indentation help in understanding the structure of an HTML document?
 - What tools can you use to automatically format your HTML code?
-

3. Write Descriptive and Meaningful Names

Explanation:

When naming `id` and `class` attributes, use descriptive names that clearly indicate the purpose of the element. This makes your code self-explanatory and easier to work with.

Example:

```
<!-- Descriptive Naming -->
```

```
<div class="main-content">
```

```
  <h1>Welcome to My Website</h1>
```

```
</div>
```

```
<!-- Non-descriptive Naming -->
```

```
<div class="container1">
```

```
  <h1>Welcome to My Website</h1>
```

```
</div>
```

Tip:

Avoid using generic names like `div1`, `box`, or `item`. Instead, use names like `header`, `nav`, `footer`, `sidebar`, or `content`.

Questions:

- Why is it important to use descriptive names for `id` and `class` attributes?
 - How can meaningful names improve collaboration in a team environment?
-

4. Use Comments to Explain Your Code

Explanation:

Comments are notes you can add to your HTML code that are ignored by the browser. They are useful for explaining the purpose of certain sections, leaving reminders, or providing instructions for other developers.

Example:

```
<!-- This is the main navigation menu -->  
  
<nav>  
  
  <ul>  
  
    <li><a href="#home">Home</a></li>  
  
    <li><a href="#about">About</a></li>  
  
    <li><a href="#contact">Contact</a></li>  
  
  </ul>  
  
</nav>
```

Tip:

Use comments to explain complex sections of your code, but avoid over-commenting, as too many comments can clutter your code.

Questions:

- How do comments improve the maintainability of your code?
 - What is the syntax for writing a comment in HTML?
-

5. Organize Code with Consistent Structure

Explanation:

Organizing your HTML document with a consistent structure—such as grouping related elements together and following a logical flow—makes your code easier to follow and maintain.

Example:

```
<!-- Grouped and Structured Code -->
```

```
<header>
```

```
  <h1>Website Title</h1>
```

```
  <nav>
```

```
    <ul>
```

```
      <li><a href="#home">Home</a></li>
```

```
      <li><a href="#about">About</a></li>
```

```
    </ul>
```

```
  </nav>
```

```
</header>
```

```
<main>
```

```
  <section>
```

```
    <h2>About Us</h2>
```

```
    <p>We are a company dedicated to excellence.</p>
```

```
  </section>
```

```
</main>
```

```
<footer>
```

```
<p>&copy; 2024 Company Name</p>
```

```
</footer>
```

Tip:

Follow a consistent structure throughout your HTML document to ensure clarity and ease of navigation. Sections should be clearly defined and logically ordered.

Questions:

- How does a consistent code structure benefit a large project?
- What are some common mistakes in structuring HTML documents?

Accessibility: Making Your Website Accessible

Why Accessibility Matters:

Web accessibility ensures that all users, including those with disabilities, can access and interact with your website. Accessible websites are not only inclusive but also meet legal standards in many regions.

1. Use **alt** Attributes in Images

Explanation:

The **alt** attribute in an `` tag provides a text description of the image. This is crucial for users who rely on screen readers, as the **alt** text is read aloud, helping them understand the content of the image. It also appears if the image fails to load.

Example:

```

```

Tip:

Always provide meaningful **alt** text that conveys the purpose of the image. If the image is decorative and doesn't add value to the content, you can use an empty **alt** attribute (**alt=""**).

Questions:

- How does the **alt** attribute improve accessibility for visually impaired users?
 - What should you do if an image is purely decorative?
-

2. Use Labels for Form Elements

Explanation:

Labels are essential for accessibility as they ensure that form controls are properly identified. The **<label>** tag should be associated with its corresponding form element using the **for** attribute, which matches the **id** of the input field

.Example: `<label for="email">Email:</label>`

`<input type="email" id="email" name="email">`

Tip:

Always pair form controls with labels to make forms accessible to screen readers. The label provides context for what each input field represents.

Questions:

- Why is it important to use labels in forms?
 - How can labels improve form usability for all users?
-

3. Ensure Sufficient Color Contrast

Explanation:

Text and background colors should have sufficient contrast to be easily readable by users with visual impairments, such as color blindness. Poor contrast can make it difficult for users to read the content.

Example:

```
<!-- Good Contrast -->
```

```
<p style="color: black; background-color: white;">This text has good contrast.</p>
```

```
<!-- Poor Contrast -->
```

```
<p style="color: lightgray; background-color: white;">This text has poor contrast.</p>
```

Tip:

Use online tools like the WebAIM Contrast Checker to ensure your color choices meet accessibility guidelines.

Questions:

- How does color contrast affect the readability of your content?
 - What tools can you use to check color contrast?
-

4. Provide Descriptive Link Text

Explanation:

Links should have descriptive text that clearly indicates the destination or purpose of the link. Avoid using vague text like "click here" or "read more" without additional context, as it doesn't convey useful information to users with screen readers.

Example:

```
<!-- Descriptive Link Text -->
```

```
<a href="about.html">Learn more about our company</a>
```

```
<!-- Non-descriptive Link Text -->
```

```
<a href="about.html">Click here</a>
```

Tip:

Ensure that the link text makes sense on its own, as screen readers often read out links independently of surrounding content.

Questions:

- How does descriptive link text benefit users who rely on screen readers?
 - What are some examples of poor link text?
-

5. Use Headings to Structure Content

Explanation:

Headings (using `<h1>` to `<h6>` tags) create a clear structure for your content. Properly nested headings help screen readers and search engines understand the hierarchy and organization of the page.

Example:

```
<h1>Our Services</h1>
```

```
<h2>Web Development</h2>
```

```
<h3>Frontend Development</h3>
```

```
<h3>Backend Development</h3>
```

```
<h2>Graphic Design</h2>
```

Tip:

Use headings in a logical order, starting with `<h1>` for the main title, followed by `<h2>` for sections, and so on. Avoid skipping heading levels.

Questions:

- How does the use of headings improve accessibility?
 - What happens if heading levels are skipped or used incorrectly?
-

Summary

Writing clean and readable HTML code using best practices ensures that your webpages are easy to maintain and understand. Properly closing tags, using consistent indentation, and adding comments are simple yet powerful habits that improve code quality. Additionally, making your website accessible through the use of `alt` attributes, labels in forms, sufficient color contrast, descriptive link text, and structured headings ensures that all users, regardless of their abilities, can access and navigate your content effectively. Following these practices not only enhances the user experience but also ensures your website meets accessibility standards and legal requirements.

Advanced Topics for Further Reading

As you become more comfortable with the basics of HTML, you might want to explore more advanced topics that can help you build more complex and modern websites. Here are some topics to dive into:

1. HTML5 Features

- **Explanation:** HTML5 introduced several new features and elements that enhance the functionality of web pages. These include new semantic elements like `<article>`, `<section>`, and `<nav>`, as well as multimedia elements like `<video>` and `<audio>`.
- **Topics to Explore:**
 - [HTML5 Semantic Elements](#) - Learn about the new semantic tags introduced in HTML5.
 - [HTML5 Multimedia Elements](#) - Explore how to embed video and audio content using HTML5.
 - [HTML5 Forms](#) - Discover new input types and form enhancements.

2. Responsive Design

- **Explanation:** Responsive design ensures that your website looks good and functions well on all devices, from desktops to smartphones. This involves using CSS media queries, flexible grid layouts, and responsive images.
- **Topics to Explore:**

- [Introduction to Responsive Web Design](#) - Understand the basics of making websites responsive.
- [CSS Media Queries](#) - Learn how to apply different styles based on device characteristics.
- [Responsive Images](#) - Explore how to serve the right image sizes for different screen sizes.

3. Multimedia Elements

- **Explanation:** HTML allows you to embed rich media content such as videos, audio, and animations. Understanding how to use these elements can make your web pages more interactive and engaging.
 - **Topics to Explore:**
 - [HTML <video> Tag](#) - Learn how to embed videos on your web pages.
 - [HTML <audio> Tag](#) - Discover how to add audio elements to your website.
 - Embedding YouTube Videos - Find out how to embed YouTube videos using the [<iframe>](#) tag.
-

Exercises and Practice Tasks

1. Practice Coding Exercises

For Headings:

Create a webpage with a main title, several section headings, and subheadings. Experiment with different levels of headings (

to

).

For Paragraphs:

Write a short article with multiple paragraphs. Use the

tag to format the text.

For Links:

Create a webpage with links to your favorite websites. Use the

tag and practice using the

attribute to open links in a new tab.

For Images:

Add an image to your webpage using the

tag. Include

text to describe the image.

For Lists:

Create an ordered list and an unordered list of your top 5 favorite movies or books. Use the

and

tags with

items.

For Forms:

Build a simple contact form that collects a user's name, email, and message. Use the

,

,

, and

elements.

2. Build a Small Project

Personal Webpage:

Create a personal webpage that includes:

- A header with your name or logo (`<header>`).
- A navigation menu (`<nav>`).
- A section about yourself with an image and a brief bio (`<section>`).
- A list of your skills or hobbies (`` or ``).
- A contact form (`<form>`).
- A footer with your contact information or social media links (`<footer>`).

Goal:

Common Mistakes to Avoid

1. Forgetting to Close Tags

- **Explanation:** Every opening tag in HTML (except self-closing tags like `` or `
`) should have a corresponding closing tag. Forgetting to close tags can lead to unpredictable rendering of your page.
- **How to Avoid:** Always double-check that each tag is properly closed. Use a text editor that highlights matching tags to help you catch mistakes.

2. Improper Nesting of Tags

Explanation:

Example:

```
<!-- Incorrect -->
```

```
<p><strong>This is bold and italic text.</p></strong>
```

```
<!-- Correct -->
```

```
<p><strong>This is bold and italic text.</strong></p>
```

How to Avoid:

3. Using Outdated or Deprecated Tags

- **Explanation:** Some HTML tags, like ``, are deprecated and should not be used in modern web development. They have been replaced by CSS for styling.
- **How to Avoid:** Stay updated with current HTML standards and best practices. Use CSS for styling instead of outdated HTML tags.

4. Overusing Inline Styles

- **Explanation:** While inline styles are useful for quick changes, overusing them can make your HTML code cluttered and difficult to maintain.
- **How to Avoid:** Prefer using external or internal CSS for styling and reserve inline styles for specific, one-off adjustments.

5. Not Using `alt` Text for Images

- **Explanation:** Omitting `alt` text for images can make your website less accessible to users with visual impairments.
- **How to Avoid:** Always include descriptive `alt` text for all images, even if the image is purely decorative (in which case, use `alt=""`).

HTML Validators

Why Use an HTML Validator?

HTML validators are tools that check your HTML code for errors, ensuring it follows the standards set by the World Wide Web Consortium (W3C). Using a validator helps you catch mistakes, improve code quality, and ensure cross-browser compatibility.

Popular HTML Validators:

1. W3C HTML Validator

- **Description:** The W3C HTML Validator is the official tool provided by the W3C to validate HTML documents. It checks your code against the official HTML standards and provides detailed error messages and warnings.
- **Link:** [W3C Markup Validation Service](#)
- **How to Use:** Simply enter the URL of your webpage or upload your HTML file to check for errors. The tool will highlight issues and suggest corrections.

2. HTML Validator for Chrome

- **Description:** This is a browser extension that automatically checks your HTML code as you browse. It provides real-time feedback and error messages directly in the browser.
- **Link:** HTML Validator for Chrome
- **How to Use:** Install the extension in Chrome, and it will automatically validate the HTML of every webpage you visit, including your own.

3. Online HTML Editors with Validation

- **Description:** Many online HTML editors, such as CodePen, JSFiddle, or Repl.it, include built-in validation features that highlight errors as you write code.
- **How to Use:** Simply write or paste your HTML code into these editors, and they will provide instant feedback on any issues.

Benefits of Using Validators:

- **Error Detection:** Identify and fix errors in your code before they cause problems.
- **Standards Compliance:** Ensure your code adheres to HTML standards, making it more likely to work across different browsers.
- **Improved Accessibility:** Validators can help catch accessibility issues, like missing `alt` attributes or improper use of HTML elements.

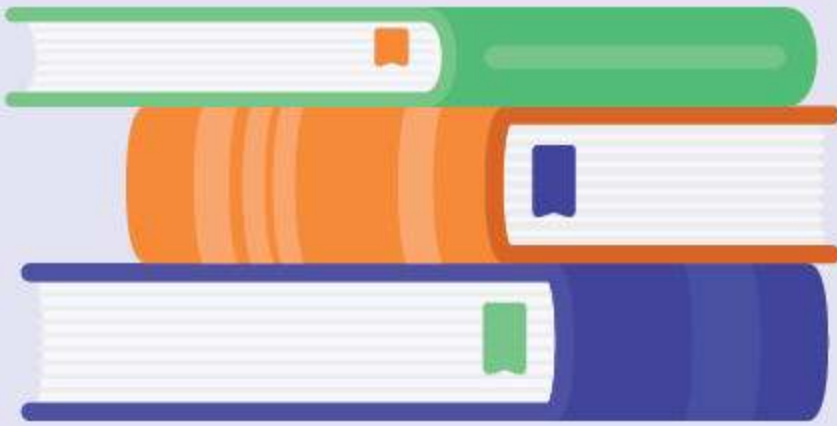
Summary

As you progress in your web development journey, exploring advanced topics like HTML5 features, responsive design, and multimedia elements will help you build more modern and dynamic websites. Practice coding exercises and build small projects to reinforce what you've learned. Be mindful of common mistakes, such as improper nesting or using outdated tags, and use HTML validators to ensure your code meets the highest standards. By following these guidelines, you'll develop the skills needed to create well-structured, accessible, and professional-quality web pages.

Thank you

Masynctech Coding School

Build Apps Build Futures



Vivamus vestibulum nulla nec ante.

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