



# Agenda

- ➤ HTML Anatomy
- ➤ Head Section and Important Tags
- ➤ Body Section and Its Importance
- ➤ Definition of Elements and Their Types
- **▶** Definition of Attributes
- ➤ Heading Elements and Their Types
- **≻**Paragraph Elements
- **≻**Image Elements
- **≻Link Elements**
- **≻**List Elements

### **HTML Anatomy & Basic Structure**

HTML (HyperText Markup Language) is the foundation of every web page. Think of it as the skeleton that gives structure to web content.

## **HTML Anatomy & Basic Structure**

```
<!DOCTYPE html>
   <meta charset="UTF-8">
  <title>My First HTML Page</title>
  <h1>Welcome to HTML!</h1>
  This is where your visible content goes.
```

## **Head Section and Important Tags**

The <head> section contains metadata and resources that help browsers and search engines understand your page.

## **Head Section and Important Tags**

```
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>HTML Fundamentals | Web Development Course</title>
<meta name="description" content="Learn HTML fundamentals in this comprehensive</pre>
<meta name="keywords" content="HTML, web development, frontend, programming">
<meta name="author" content="Your Name">
<script src="script.js"></script>
<link rel="icon" href="favicon.ico" type="image/x-icon">
```

#### **Body Section & Its Importance**

The <body> contains all visible content that users see and interact with on your webpage.

```
<h1>My Website</h1>
     <a href="#home">Home</a>
     <a href="#about">About</a>
    <a href="#contact">Contact</a>
   <h2>Main Content</h2>
   This is where your primary content goes.
   © 2025 My Website. All rights reserved.
 </footer>
</body>
```

### **Elements & Their Types**

HTML elements are the building blocks of web pages. They come in different types based on how they behave:

Block-Level Elements:
 Block elements take up the full width available and start on a new line.

#### **Elements & Their Types**

HTML elements are the building blocks of web pages. They come in different types based on how they behave:

Inline Elements:
 Inline elements only take up the space they need and don't start on a new line.

```
This paragraph contains
  <strong>bold text (inline element)
  <m>italic text (inline element)
  <a href="#link">a link (inline element)</a> and
  <a href="#link">a link (inline element)</a> and
  <a href="#link">a link (inline element)</a> and
  <a href="#link">a link (inline element)</a> (span>a
  <a href="#link">a link (inline element)</a> (span)a
  <a href="#link">a link (inline element)</a> (span)a
  <a
```

#### **Attributes**

Attributes provide additional information about HTML elements. They are always specified in the opening tag.

```
<h1 id="main-title">Welcome to My Site</h1>
This paragraph has two CSS classes.
This paragraph has one CSS class.
<a href="https://www.google.com">Visit Google</a>
<a href="#section1">Go to Section 1</a>
<img src="images/logo.png" alt="Company Logo">
<img src="photo.jpg" alt="A beautiful sunset over the mountains">
```

```
<!-- title Attribute - Tooltip text that appears on hover -->

    Hover over this text to see a tooltip.

<!-- Multiple attributes in one element -->
<button id="submit-btn" class="btn primary" type="submit" disabled>
    Submit Form
</button>
```

#### **Heading Elements**

Headings create a hierarchy of content, important for both SEO and accessibility.

```
<h1>Main Page Title (Most Important)</h1>
<h2>Chapter 1: Introduction to HTML</h2>
Content for chapter 1...
<h2>Chapter 2: HTML Elements</h2>
Content for chapter 2...
<h3>2.1 Block Elements</h3>
Information about block elements...
<h3>2.2 Inline Elements</h3>
Information about inline elements...
```

```
<h4>2.2.1 Text Formatting Elements</h4>
>Details about text formatting...
<h4>2.2.2 Link Elements</h4>
Details about links...
<h5>Special Cases</h5>
<h6>Very Specific Details</h6>
```

#### **Paragraph Elements**

Paragraphs are the most common way to display text content on web pages.

```
This is a simple paragraph of text. Paragraphs automatically add space above ar
>
 This paragraph contains <strong>bold text</strong>,
 <em>italic text</pm>, and <u>underlined text</u>.
 You can also add <sup>superscript</sup> and <sub>subscript</sub> text.
>
 This is the first line.<br>
 This is the second line after a line break.<br>
 Line breaks don't create new paragraphs, just new lines.
```

```
HTML uses special codes for certain characters:<br/>
 & for ampersand (&) <br>
 < for less than (<)<br>
 > for greater than (>)<br>
 " for quotation marks (")<br>
 © for copyright symbol (@)
This paragraph has a CSS class that can be used to apply special styling.
 As Albert Einstein once said:
 <q>"Imagination is more important than knowledge."</q>
   "The best way to predict the future is to create it."
 <cite>- Peter Drucker</cite>
</blockquote>
```

#### **Image Elements**

Images make websites visually appealing and help convey information effectively.

```
<img src="images/sunset.jpg" alt="Beautiful sunset over the ocean">
<img src="photos/profile.jpg"</pre>
     alt="John Smith profile photo"
     width="200"
     height="200">
<img src="gallery/landscape.jpg"</pre>
     alt="Mountain landscape with lake"
     class="responsive-image">
<img src="icons/info.png"</pre>
     alt="Information icon"
     title="Click for more information"
     width="24"
     height="24">
<a href="gallery.html">
 <img src="thumbnails/gallery-thumb.jpg"</pre>
       alt="View our photo gallery">
</a>
```

```
<figure>
  <img src="charts/sales-data.png"</pre>
       alt="Sales data chart showing 20% increase">
  <figcaption>
   Sales increased by 20% in the last quarter
  </figcaption>
</figure>
<picture>
  <source srcset="images/hero.webp" type="image/webp">
  <source srcset="images/hero.jpg" type="image/jpeg">
  <img src="images/hero.jpg" alt="Hero image">
</picture>
```

#### **Link Elements**

Links connect web pages together and enable navigation on the internet.

```
<a href="https://www.google.com">Visit Google</a>
<a href="https://www.github.com" target="_blank">
 Visit GitHub (Opens in New Tab)
<a href="about.html">About Us</a>
<a href="contact.html">Contact</a>
<a href="../index.html">Back to Home</a>
<a href="#section1">Go to Section 1</a>
<a href="#top">Back to Top</a>
<a href="mailto:contact@example.com">Send us an email</a>
<a href="tel:+1234567890">Call us: (123) 456-7890</a>
```

```
<a href="files/resume.pdf" download="john-doe-resume.pdf">
 Download Resume (PDF)
<a href="services.html"
  title="Learn more about our services">
 Our Services
<a href="portfolio.html">
 <img src="images/portfolio-button.jpg"</pre>
      alt="View our portfolio">
   <a href="index.html">Home</a>
   <a href="about.html">About</a>
   <a href="services.html">Services</a>
   <a href="contact.html">Contact</a>
```

#### **List Elements - Unordered**

Lists organize related information in an easy-to-read format.

```
<!-- Basic unordered list -->

>i>First item
Second item
Third item

<!-- Creates bullet points by default -->
```

```
<!-- List with links -->

    <a href="home.html">Home Page</a>
    <a href="about.html">About Us</a>
    <a href="contact.html">Contact</a>
```

```
<l
Fruits
 <l
  Apples
  Bananas
  0ranges
 Vegetables
 <l
  Carrots
  Sroccoli
  Spinach
```

#### **List Elements - Ordered**

Lists organize related information in an easy-to-read format.

```
Introduction
                       Fifth item
 <l
                       Sixth item
  0verview
                       Seventh item
  Objectives
                      Main Content
 Section A
                       First item (A)
  Section B
                       Second item (B)
 Third item (C)
Conclusion
```

#### **List Elements - Description**

Lists organize related information in an easy-to-read format.

```
< [h>
 <dt>HTML</dt>
 <dd>HyperText Markup Language - the standard markup language for web pages</dd>
 <dt>CSS</dt>
 <dd>Cascading Style Sheets - used for describing the presentation of HTML docume
 <dt>JavaScript</dt>
 <dd>A programming language that enables interactive web pages</dd>
</dl>
<dl>
 <dt>Frontend</dt>
  <dd>The client-side of web development</dd>
  <dd>What users see and interact with</dd>
  <dd>Includes HTML, CSS, and JavaScript</dd>
  <dt>Backend</dt>
  <dd>The server-side of web development</dd>
  <dd>Handles data processing and storage</dd>
</dl>
```

## THANK Y ® U

