

## What is HTML?

**HTML (HyperText Markup Language)** is the standard language used to create and design web pages.

It tells the web browser **how to display text, images, links, and other elements** on a webpage.

- **HyperText** means text that links to other documents.
- **Markup Language** means a set of tags used to “mark up” text to define its structure and presentation.

## ■ Uses of HTML

1. To **create and structure web pages**.
  2. To **insert text, images, videos, and links**.
  3. To **create forms** for user input.
  4. To **format text** (bold, italic, underline, headings).
  5. To **define page layout** (paragraphs, tables, divisions).
  6. To **link multiple web pages** together using hyperlinks.
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## □ HTML TAGS

HTML uses **tags** enclosed in angle brackets < > to define elements.

Example:

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

Here:

- <p> → Opening tag
  - </p> → Closing tag
  - Everything between them → Element content
- 

## 🌐 Basic Structure of an HTML Document

```
<!DOCTYPE html>
<html>
<head>
    <title>My First Webpage</title>
</head>
<body>
    <h1>Welcome to HTML</h1>
    <p>This is my first paragraph.</p>
</body>
```

```
</html>
```

---

## ◆ Important HTML Tags

### 1. `<head>` Tag

- Contains information **about** the web page (metadata).
- Not displayed on the page.
- Includes title, CSS links, and scripts.

```
<head>
    <title>My Page</title>
</head>
```

---

### 2. `<title>` Tag

- Sets the **title of the webpage** (appears on the browser tab).

```
<title>Home Page</title>
```

---

### 3. `<body>` Tag

- Contains all **visible content** (text, images, links, etc.)

```
<body>
    <p>Hello, this is my webpage.</p>
</body>
```

---

### 4. Empty Tags

- Tags that **don't need a closing tag**.

Examples:

```
<br>    <!-- Inserts a line break -->
<hr>    <!-- Inserts a horizontal line -->
```

---

### 5. Container Tags

- Tags that **have both opening and closing parts**.

Examples:

```
<p>Paragraph text</p>
<b>Bold text</b>
<i>Italic text</i>
```

---

## 6. Heading Tags (`<h1>` to `<h6>`)

- Used for headings and subheadings.
- `<h1>` is the largest; `<h6>` is the smallest.

```
<h1>Main Heading</h1>
<h2>Subheading</h2>
<h3>Smaller heading</h3>
```

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## 7. `<br>` Tag

- Adds a **line break** (moves text to the next line).

```
<p>This is line one.<br>This is line two.</p>
```

---

## 8. `<hr>` Tag

- Inserts a **horizontal line** to separate sections.

```
<hr>
```

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## 9. HTML Comments

- Used to write notes in the code; not shown on the webpage.

```
<!-- This is a comment -->
```

---

## Formatting and Style Tags

### Background Colour

Use the `bgcolor` attribute in the `<body>` tag (HTML4) or use **CSS (recommended)**.

#### Example (HTML4 style):

```
<body bgcolor="lightblue">
```

#### Example (CSS style):

```
<body style="background-color: lightblue;">
```

---

### Font, Bold, and Italic

## **Bold Text**

```
<b>This is bold text</b>
```

## **Italic Text**

```
<i>This is italic text</i>
```

## **Font (Old method using <font>, though CSS is preferred)**

```
<font face="Arial" size="4" color="blue">This is styled text</font>
```

---

## **Text Alignment and Paragraph**

### **Paragraph Tag**

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

### **Text Alignment**

Use the align attribute inside <p> or <div>:

```
<p align="left">Left aligned text</p>
<p align="center">Centered text</p>
<p align="right">Right aligned text</p>
```

---

## **Example: Complete HTML Page**

```
<!DOCTYPE html>
<html>
<head>
    <title>HTML Example</title>
</head>
<body style="background-color: #f2f2f2;">

    <h1 align="center">Welcome to HTML</h1>
    <hr>

    <p align="justify">
        <b>HTML</b> stands for <i>HyperText Markup Language</i>.
        It is used to design web pages and display content on the
        Internet.<br>
        This is an example of using different HTML tags.
    </p>

    <!-- This is a comment and won't appear in the browser -->

</body>
</html>
```

---

Would you like me to format this content as a **printable PDF handout** (for teaching or student distribution)?

You said:

LIST • Ordered list. • Unordered list. • Definition list. Background image Inserting image tag Anchor tag hyperlink

ChatGPT said:

Here's a **detailed and student-friendly explanation** of the next HTML topic — **Lists, Background Image, Image Tag, and Hyperlinks (Anchor Tag)** — ideal for notes, teaching, or exams 

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## **HTML LISTS, IMAGES, AND LINKS**

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### **LISTS IN HTML**

HTML provides three main types of lists to organize content:

#### **1 Ordered List (<ol>)**

- Displays items in a **numbered (ordered)** format.
- Each item is written inside the <li> (list item) tag.
- Numbers appear automatically (1, 2, 3...).

**Example:**

```
<h3>Steps to Start a Computer</h3>
<ol>
    <li>Press the Power button</li>
    <li>Wait for the system to load</li>
    <li>Login with your password</li>
    <li>Start working</li>
</ol>
```

**Output:**

1. Press the Power button
2. Wait for the system to load
3. Login with your password
4. Start working

### **Attributes:**

You can change numbering style using the `type` attribute:

```
<ol type="A"> → A, B, C  
<ol type="a"> → a, b, c  
<ol type="I"> → I, II, III  
<ol type="i"> → i, ii, iii
```

**Example:**

```
<ol type="A">  
  <li>India</li>  
  <li>USA</li>  
  <li>UK</li>  
</ol>
```

---

## **2 Unordered List (<ul>)**

- Displays items in **bulleted (unordered)** format.
- Used when the order of items doesn't matter.

**Example:**

```
<h3>Fruits</h3>  
<ul>  
  <li>Apple</li>  
  <li>Mango</li>  
  <li>Banana</li>  
</ul>
```

### **Output:**

- Apple
- Mango
- Banana

### **Attributes:**

You can change bullet type using the `type` attribute:

```
<ul type="disc"> → ●  
<ul type="circle"> → ○  
<ul type="square"> → ■
```

---

## **3 Definition List (<dl>)**

- Used to display terms and their definitions (like a dictionary).

### **Tags Used:**

- `<dl>` → definition list
- `<dt>` → definition term
- `<dd>` → definition description

### **Example:**

```
<h3>Computer Terms</h3>
<dl>
    <dt>HTML</dt>
    <dd>HyperText Markup Language – used to create web pages.</dd>

    <dt>CSS</dt>
    <dd>Cascading Style Sheets – used for webpage styling.</dd>
</dl>
```

### **Output:**

#### **HTML**

HyperText Markup Language – used to create web pages.

#### **CSS**

Cascading Style Sheets – used for webpage styling.

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## **BACKGROUND IMAGE**

You can set a **background image** for a web page using the background attribute (old method) or CSS (modern method).

### **◆ HTML4 (older) Method:**

```
<body background="img/background.jpg">
```

### **◆ CSS (recommended) Method:**

```
<body style="background-image: url('img/background.jpg');
            background-size: cover;
            background-repeat: no-repeat;">
```

- `background-size: cover;` → image fills the screen
  - `background-repeat: no-repeat;` → image does not repeat
- 

## **INSERTING AN IMAGE (`<img>` Tag)**

The `<img>` tag is used to display images on a webpage.  
It is an **empty tag** (no closing tag).

### **Syntax:**

```

```

### **Attributes:**

- `src` → Source (path of the image file)
- `alt` → Alternate text (shown if image not found)
- `width / height` → Set image size

#### **Example:**

```

```

#### **Output:**

Displays the image named `work01.png` at 300×200 pixels.

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## **ANCHOR TAG (`<a>`) – HYPERLINK**

The `<a>` tag is used to **create links** between web pages, files, or websites.

It can link to:

- Another webpage
- A section of the same page
- An email address

#### **Syntax:**

```
<a href="URL">Link Text</a>
```

#### **Example:**

```
<a href="https://www.google.com">Visit Google</a>
```

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### **Open link in a new tab**

Use the `target="_blank"` attribute:

```
<a href="https://www.google.com" target="_blank">Open Google in new tab</a>
```

---

### **Link to a local file or another page**

```
<a href="about.html">Go to About Page</a>
```

---

### **Email Link**

```
<a href="mailto:info@example.com">Send Email</a>
```

---

## ! Complete Example

```
<!DOCTYPE html>
<html>
<head>
    <title>HTML Lists and Links Example</title>
</head>
<body style="background-image: url('img/slide01.png'); background-size: cover;">

    <h1 align="center">HTML Lists, Images, and Links</h1>
    <hr>

    <h2>1. Ordered List</h2>
    <ol type="1">
        <li>Wake up</li>
        <li>Brush your teeth</li>
        <li>Have breakfast</li>
    </ol>

    <h2>2. Unordered List</h2>
    <ul type="square">
        <li>Pen</li>
        <li>Pencil</li>
        <li>Eraser</li>
    </ul>

    <h2>3. Definition List</h2>
    <dl>
        <dt>CPU</dt>
        <dd>Central Processing Unit - brain of the computer.</dd>
        <dt>RAM</dt>
        <dd>Random Access Memory - temporary memory.</dd>
    </dl>

    <h2>4. Image Example</h2>
    

    <h2>5. Hyperlink Example</h2>
    <a href="https://www.wikipedia.org" target="_blank">Visit Wikipedia</a>

</body>
</html>
```