
Web Designing (03010501PC01)

Unit 2: HTML Elements & Forms





HTML Elements & Forms

1. Headings & Paragraphs

Headings: `<h1>` to `<h6>` – define titles and subtitles.

`<h1>` – most important heading (used once per page for SEO & accessibility).

`<h6>` – least important heading.

Paragraphs: `<p>` – defines blocks of text.

Automatically adds spacing before and after text.



HTML Elements & Forms

Example:

- <h1>Main Title</h1>
- <p>This is a paragraph of text.</p>



2. Lists

a. Ordered List

Uses with items.

- Automatically numbered.

- Example:

```
<ol>  
  <li>First item</li>  
  <li>Second item</li>  
</ol>
```



2. Lists

- b) Unordered List
- Uses with items.
- Bulleted points.

Example

 Apple
 Banana



2. Lists

- c) Description List

- **Uses**

<dl> (definition list), <dt> (term), <dd> (definition).

Example:

```
<dl>
  <dt>HTML</dt>
  <dd>HyperText Markup Language</dd>
</dl>
```



3. Tables

Structure:

<table> – main container.
<tr> – table row.
<td> – table data cell.
<th> – table header cell.
<thead> – header section.
<tbody> – main content section.
<tfoot> – footer section.



3.Tables

```
<table border="1">
<thead>
<tr>
<th>Name</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>John</td>
<td>90</td>
</tr>
</tbody>
<tfoot>
<tr>
<td colspan="2">End of Table</td>
</tr>
```



4. Forms & Input Fields

- Form Tag: `<form action="submit.php" method="post">`
- Basic Inputs: `<input type="text">`, `<input type="email">`, `<input type="password">`,
`<input type="number">`, `<input type="date">`
- Labels: `<label for="id">` – improves accessibility.
- Buttons: `<button>`, `<input type="submit">`
- Other Inputs:
- Radio Button: `<input type="radio" name="gender" value="male">`
- Checkbox: `<input type="checkbox">`
- Textarea: `<textarea rows="4" cols="50"></textarea>`



4. Forms & Input Fields

- Dropdown:

```
<select>
  <option value="html">HTML</option>
  <option value="css">CSS</option>
</select>
```



JavaScript Events & Methods:

- onclick → triggers when element is clicked.
- prompt() → takes input from user.
- alert() → shows a message.
- confirm() → asks for Yes/No confirmation.

HTML5 Semantic Elements

Semantic tags help browsers, screen readers, and search engines understand the structure and meaning of your content.

- **<header>**
Introductory content for a page or a section (logo, site name, tagline, primary actions).
Example:

```
<header>
<a href="/" class="logo">Acme News</a>
<p>Trusted reporting since 1999</p>
</header>
```



HTML5 Semantic Elements

<nav>

A block of major navigation links.

Example:

```
<nav aria-label="Primary">
  <ul>
    <li><a href="/world">World</a></li>
    <li><a href="/tech">Tech</a></li>
    <li><a href="/sports">Sports</a></li>
  </ul>
</nav>
```



HTML5 Semantic Elements

`<main>`

The main, unique content of the page.

Example:

```
<main>
```

```
  <h1>Latest Tech Stories</h1>
```

```
  <!-- primary page content -->
```

```
</main>
```



HTML5 Semantic Elements

<section>

A thematically grouped section of content (with its own **heading**).

Example:

```
<section aria-labelledby="features-heading">
  <h2 id="features-heading">Key Features</h2>
  <p>Fast startup, offline mode, and robust security.</p>
</section>
```

HTML5 Semantic Elements

`<article>`: A self-contained, reusable unit (blog post, news item, forum post, product card)

```
<article>
  <header>
    <h2>How Web Components Work</h2>
    <p>By Samira • <time datetime="2025-08-13">Aug 13, 2025</time></p>
  </header>
  <p>Web Components let you define custom, reusable elements...</p>
  <footer>
    <a href="#comments">12 comments</a>
  </footer>
</article>
```

HTML5 Semantic Elements

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<article>
  <header>
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  </header>
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  <footer>
    <a href="#comments">12 comments</a>
  </footer>
</article>
```



HTML5 Semantic Elements

<aside>

Tangential/complimentary content (pull-quotes, sidebars, related links, ads).

Example:

```
<aside aria-label="Related">  
  <h2>Related</h2>  
  <ul>  
    <li><a href="/web-components/best-practices">Best practices</a></li>  
  </ul>  
</aside>
```



HTML5 Semantic Elements

<footer>

Footer for a page or a section (author info, related links, legal).

<footer>

<p>© 2025 Acme Media</p>

<nav aria-label="Footer">

 Privacy • Contact

</nav>

</footer>

HTML5 Semantic Elements

- <figure>+ <figcaption>

Self-contained media with a caption (image, diagram, code sample).

Example:

```
<figure>
  
  <figcaption>Figure 1. Aurora observed near Tromsø.</figcaption>
</figure>
```

- <time>

date/time in machine-readable form.

```
<p>Event starts on <time datetime="2025-12-05T09:30">Dec 5, 2025 at
9:30 AM</time>.</p>
```



HTML5 Semantic Elements

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<p>© 2025 Acme Media</p>

<nav aria-label="Footer">

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</nav>

</footer>



Multimedia Elements

- **Images**

Example:

```

```

- **Audio**

Example:

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



Multimedia Elements

- Video

Example:

```
<video width="320" height="240" controls>  
  <source src="video.mp4" type="video/mp4">  
</video>
```

DIGITAL LEARNING CONTENT



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