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# Web Designing (03010501PC01)

## Unit 2: HTML Elements & Forms

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# 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** `<ol>` with `<li>` items.

- Automatically numbered.

- Example:

```
<ol>
```

```
<li>First item</li>
```

```
<li>Second item</li>
```

```
</ol>
```

## 2. Lists

- b) Unordered List
- Uses `<ul>` with `<li>` items.
- Bulleted points.

- Example

```
<ul>  
  <li>Apple</li>  
  <li>Banana</li>  
</ul>
```

## 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

`<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

`<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>&copy; 2025 Acme Media</p>`

`<nav aria-label="Footer">`

`<a href="/privacy">Privacy</a> • <a href="/contact">Contact</a>`

`</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

`<footer>`

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

`<footer>`

`<p>&copy; 2025 Acme Media</p>`

`<nav aria-label="Footer">`

`<a href="/privacy">Privacy</a> • <a href="/contact">Contact</a>`

`</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>
```

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