



Tishk International University
Faculty of Applied Science
Information Technology Department

HTML Basic Elements and Page Components

Lecture 2

Spring 2026

Course Code: IT240

Grade 2

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Web Design

- ✓ HTML Comments
- ✓ Line Break and Horizontal Rule
- ✓ HTML Lists
- ✓ Hyperlinks
- ✓ Images
- ✓ Image as a Link

- **At the end of today's session, you will be able to:**
 - ✓ Define basic HTML elements
 - ✓ Explain their purpose and differences.
 - ✓ Create lists, hyperlinks, and images using correct syntax.
 - ✓ Design a simple webpage section using these elements.

- In HTML, a **comment** is used to write notes inside your code that are not displayed in the browser.
- Comments are useful for:
 - Explaining code
 - Adding reminders
 - Making code easier to understand

- Syntax of HTML Comment

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

Anything written between `<!--` and `-->` will not appear on the webpage.

- Multi-line Comment

```
<!--  
This website is created for students  
Course: Web Design  
Semester: Spring 2026  
-->
```

- In HTML, `
` stands for line break.
- It is used to move text to a new line without starting a new paragraph.
- `
` is an empty tag, which means it does not have a closing tag.

Ex)

```
<p>  
IT Department<br>  
Welcome to Web Design<br><br>  
Spring 2026  
</p>
```

IT Department
Welcome to Web Design

Spring 2026

- In HTML, `<hr>` stands for horizontal rule.
- It is used to create a horizontal line across the page.
- The `<hr>` tag is an empty tag, so it does not have a closing tag.

Ex)

```
<h2>Chapter 1</h2>  
<p>This is the first chapter.</p>  
  
<hr>  
  
<h2>Chapter 2</h2>  
<p>This is the second chapter.</p>
```

Chapter 1

This is the first chapter.

Chapter 2

This is the second chapter.

- In HTML, a **list** is used to group related items together in a structured way. Lists help organize content clearly on a webpage.
- **There are 3 main types of lists in HTML:**
 - ✓ Ordered List ()
 - ✓ Unordered List ()
 - ✓ Description List (<dl>)

- An ordered list, by default it displays items in a numbered format (1, 2, 3...).
- An ordered list starts with the `` tag. Each list item starts with the `` tag.

Ex)

```
<h3>Steps to Submit Assignment</h3>  
  
<ol>  
  <li>Open the website</li>  
  <li>Login to your account</li>  
  <li>Upload your file</li>  
</ol>
```

Steps to Submit Assignment

1. Open the website
2. Login to your account
3. Upload your file

- In HTML, an ordered list (``) can display items in different numbering styles using the `type` attribute.

Ex)

```
<ol type="A">  
  <li>HTML</li>  
  <li>CSS</li>  
  <li>JavaScript</li>  
</ol>
```

A. HTML
B. CSS
C. JavaScript

Ex)

```
<ol type="I">  
  <li>Introduction</li>  
  <li>Methodology</li>  
  <li>Conclusion</li>  
</ol>
```

I. Introduction
II. Methodology
III. Conclusion

- Unordered list displays items with bullet points.
- Unordered list starts with the `` tag. Each list item starts with the `` tag.

Ex)

```
<h3>Programming Languages</h3>  
  
<ul>  
  <li>C++</li>  
  <li>Python</li>  
  <li>Java</li>  
</ul>
```

Programming Languages

- C++
- Python
- Java

Description List



- A description list is used for terms and their descriptions.
- It uses:

`<dl>` → description list

`<dt>` → term

`<dd>` → description

Ex)

```
<h3>Web Terms</h3>

<dl>
  <dt>HTML</dt>
  <dd>Used to structure web pages</dd>

  <dt>CSS</dt>
  <dd>Used to style web pages</dd>
</dl>
```

Web Terms

HTML

Used to structure web pages

CSS

Used to style web pages

- In HTML, a **link** (also called a hyperlink) is used to connect one webpage to another page, file, email address, or section of the same page.
- Links are created using the anchor tag: `<a>` ``
- The most important attribute is:
href → specifies the destination (where the link goes)

Ex)

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

A rectangular button with rounded corners and a white background, containing the text 'Visit Google' in a purple serif font. The text is underlined. The button has a subtle drop shadow.

Visit Google

- Link That Opens in a New Tab

Use the **target="_blank"** attribute.

Ex)

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



- This opens the link in a new browser tab.

- Link to Another Page in the Same Project

If you have another file (for example: **about.html**):

Ex)

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

A rectangular button with rounded corners and a white background, containing the text 'Go to About Page' in a purple serif font. The text is underlined, and the button has a subtle drop shadow.

Go to About Page

- Link to an Email Address

Use **mailto:** inside href.

Ex)

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

- When clicked, it opens the default email application.

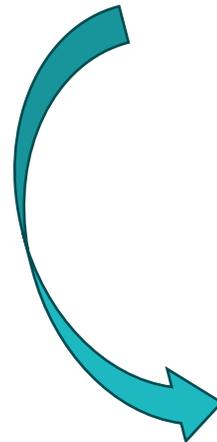
- Images such as logos, photos, illustrations, diagrams, or charts can be added to a web page to enhance its design and overall appearance.
- The HTML **** tag is used to embed an image in a web page.
- Unlike most tags, **** is an empty tag (it does not have a closing tag).
- Important Attributes:
 - src** → specifies the image location (file path or URL)
 - alt** → alternative text (shown if image cannot load)
 - width** → image width
 - height** → image width
 - title** → shown when the mouse hovers over the image.

- Display an Image from Your Project Folder

Ex)

```

```



 TIU Image

- Set Image Width and Height

Ex)

```

```



- Set title.

Ex)

```

```



Image Hyperlink



- To make an image a hyperlink, you simply place the `` tag inside the `<a>` tag.

Ex)

```
<a href="https://www.tiu.edu.iq">  
    
</a>
```

The image has been hyperlinked



References



- **Dean, J. (2019) Web programming: With HTML5, CSS, and JavaScript. Burlington: Jones & Bartlett Learning.**
- **Duckett, J. (2011) HTML & CSS Design and Build Web Sites. Indianapolis: John Wiley & Sons.**
- **W3Schools. (n.d.). HTML tutorial.
<https://www.w3schools.com/html>.**



Thank You!