

HTML Basics: Structure and Elements

Web Development Essentials - Session 2

Session Overview

Today's Learning Goals:

- Understand the structure of an HTML document
- Learn key HTML elements and their uses
- Explore how to add content like text, links, images, and lists
- Create a well-structured HTML page

Review from Session 1

Recap: Basic structure of an HTML document

- `<html>`, `<head>`, `<body>`
- Tags and elements
- Created your first simple webpage

Moving Forward: More HTML elements to enhance web content

HTML Document Structure

Basic Skeleton of an HTML Page:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Document Title</title>
  </head>
  <body>
    <!-- Content goes here -->
  </body>
</html>
```

- **Doctype:** Declares the document type (HTML5)
- **Head:** Contains metadata (title, links to CSS/JS)
- **Body:** Contains the visible content of the page

Headings and Paragraphs

Headings:

- `<h1>` to `<h6>`: Six levels of headings for titles and subtitles

```
<h1>Main Heading</h1>  
<h2>Subheading</h2>
```

Paragraphs:

- `<p>`: Used for blocks of text

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

Links and Images

Links (<a>):

- Creating hyperlinks using the anchor tag
- Syntax: `Link Text`

```
<a href="https://www.example.com">Visit Example</a>
```

Images ():

- Displaying images using the `img` tag
- Attributes: `src` (source URL), `alt` (alternative text)

```

```

HTML Attributes

- **What Are Attributes?**

- Provide additional information about an element
- Syntax: `<tagname attribute="value">`
- Example: ``

- **Common Attributes:**

- `href`: For links
- `src`: For images
- `alt`: For image descriptions
- `target`: Defines where to open a link

Creating a Simple Web Page

Live Demo:

- Creating a simple HTML page using headings, paragraphs, links, and images

```
<!DOCTYPE html>
<html>
  <head>
    <title>My Webpage</title>
  </head>
  <body>
    <h1>Welcome to My Webpage</h1>
    <p>This is a paragraph about my website.</p>
    <a href="https://example.com">Click here to visit Example</a>
    
  </body>
</html>
```


Hands-On Activity

- **Goal:** Build a webpage with the following:
 - A heading (`<h1>`)
 - A paragraph (`<p>`)
 - A link to an external website (``)
 - An image (``)
 - An unordered list (``)
- **Instructions:**
 - Use your code editor (VS Code)
 - Test in your browser

Best Practices for HTML Structure

- **Best Practices:**
 - Use semantic tags (`<header>`, `<footer>`, `<section>`, etc.) to improve readability
 - Keep code clean and organized (indentation)
 - Always provide alternative text for images (accessibility)
 - Use meaningful link text (avoid “click here”)

Summary

What We Covered Today:

- HTML document structure
- Common elements (headings, paragraphs, links, images)
- HTML attributes
- Built a simple webpage

Questions?

Q&A Session

- Any questions before we wrap up?

Thank You & See You in the Next Class!