What Are HTML Attributes?

- Attributes are extra instructions placed inside the opening tag of an HTML element.
- They modify behavior, appearance, or functionality of elements.
- General syntax:

<tagname attribute_name="attribute_value"> content... </tagname>

Example:

• **Tag**:

• Attribute: src

• Value: "logo.png"

• **Purpose**: Tells the browser where to find the image.

Components of an Attribute

- **1.** attribute_name → defines the property (e.g., src, id, class).
- **2.** attribute_value → sets the property's value, always in quotes.

Types of HTML Attributes

Category	Description	Example
Global Attributes	Work on almost all elements	id, class, style, title, lang
Event Attributes	Trigger actions on events	onclick, onmouseover
Input Attributes	For <input/> elements	type, placeholder, value
Image Attributes	For 	src, alt, width, height
Link Attributes	For <a> and <link/>	href, target

Category Description Example

Table Attributes For , , border, colspan

Media Attributes For <audio>, <video> controls, autoplay

Accessibility Improve usability alt, aria-*

Meta Attributes For <meta> charset, name, content

Commonly Used Attributes with Examples

alt (Alternative Text for Images)

- Displays text if the image fails to load.
- Improves accessibility for screen readers.

width and height

• Defines image size in pixels.

id (Unique Identifier)

<h1 id="main-title">Welcome</h1>

#main-title { color: green; }

• Targets elements with CSS or JavaScript.

title (Tooltip)

Hover over me

• Shows a tooltip when hovered.

href (Hyperlink Reference)

Visit Site

- Defines link destination.
- target=" blank" opens in a new tab.

style (Inline CSS)

<h2 style="color:blue; text-align:center;">Hello World</h2>

· Adds inline CSS styling.

lang (Language Declaration)

Bonjour le monde

• Helps with accessibility and SEO.

Important Points About HTML Attributes (Best Practices)

- 1. Always Use Lowercase Attributes
 - Both alt and ALT work, but lowercase is recommended (W3C standard).
- 2. Always Quote Attribute Values
 - Quotes prevent errors, especially with spaces.
 - Example:

<input type="text" placeholder="Enter your name">

- 3. Declare Quotes Inside Attribute Values
 - Use single quotes if the value contains double quotes.
 - o <input type="text" placeholder="Enter your name">

- 4. Boolean Attributes Should Be Written Without Values
 - o Example:

```
<input type="checkbox" checked>
```

- 5. Proper Attribute Order for Readability
 - Suggested order: id, class, global attributes, specific attributes, event attributes.

```
<button id="btn1" class="button-class" type="submit"
onclick="handleClick()">Submit</button>
```

- 6. Avoid Deprecated Attributes
 - Don't use: align, bgcolor, border.
 - Use CSS instead:

```
This text is centered.
```

7. This text is centered.

✓ Key Takeaways

- Attributes = extra instructions for HTML elements.
- Always use **lowercase** and **quotes** for consistency.
- Boolean attributes don't need values.
- Follow a consistent attribute order for readability.
- Avoid deprecated attributes, use CSS instead.