



# HTML5

## SESSION 3

SESSION 1

SESSION 2

SESSION 3

SESSION 4

SESSION 5

TEST YOURSELF

Attributes

Entities & Symbols & Emojis

Semantic Elements

Audio & Video

Naming Conventions

Assignment

## Attributes

In HTML, attributes are used to provide additional information about HTML elements. **There are two main types of attributes:**

- Element-Specific Attributes
- Global Attributes

### Element-Specific Attributes

These attributes are specific to certain elements. You can't use them on just any tag – only where they are allowed.

Attribute	Element	Description
href	<a>	Specifies the link URL
src	<img>	Specifies the source of an image
alt	<img>	Provides alternate text for an image

### Global Attributes

These attributes can be used on any HTML element. They are shared across all tags.

Attribute	Symbol	Description
id	#	Specifies a unique ID for the element
class	.	Assigns one or more class names for styling or JS

### The different Between Id and class

- (id attribute) is used to uniquely identify a **single element** on a page
- (class attribute) is used to **group multiple elements**group multiple elements together

If you use the same id on multiple elements, the HTML is invalid and may lead to **unexpected behavior**.

## Entities & Symbols & Emojis

HTML entities are special codes used in HTML to display characters that are reserved in HTML or not available on a keyboard like -> ©.

Emojis are letters (characters) from the UTF-8 (Unicode) character set 😊

### Reference

- [HTML Symbols](#)
- [HTML Entities W3School](#)
- [Free Formatter](#)
- [W3school emojis](#)

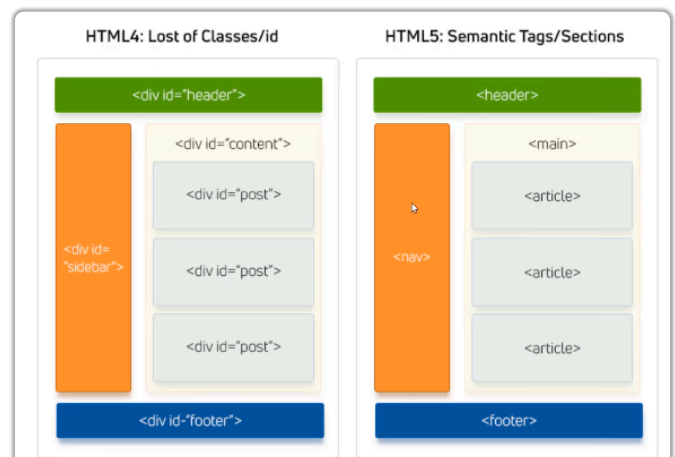
Result	Name
<	&lt;
>	&gt;
©	&copy;

## Semantic Elements

Semantic elements are HTML tags that clearly describe their meaning – both to the browser and to developers. They improve readability, accessibility, and SEO.

**Note:** Block Element

Tags
<header></header>
<main></main>
<footer></footer>
<aside></aside>
<nav></nav>
<section></section>
<article></article>
<summary></summary>



They tell you what the element is for, rather than how it looks. This improves:

- Accessibility (screen readers, assistive tech)
- SEO (search engines understand your layout better)
- Maintainability (code is easier to read and structure)

# Audio & Video

## Audio

<audio></audio>

Two different way to type

- <audio controls src="Audio1.mp3" type="audio/mpeg"></audio>
- <audio controls>  
  <source src="Audio1.mp3" type="audio/mpeg">  
  Your browser does not support the audio element.  
</audio>

0:00 / 1:20

Properties :

- inline-block
- Opening and Closing Tag
- controls : displays the audio player
- src : allows you to specify the audio file and its type.
- type : Helps the browser decide whether it can play the file before downloading it.

## Video

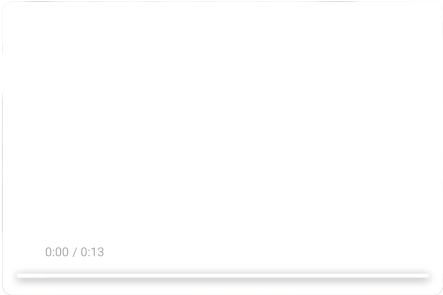
<video></viedo>

Two different way to type

- <video controls src="Video1.mp4" type="video/mp4" width="500" poster="poster.jpg"></video>
- <video width="400" controls>  
  <source src="video.mp4" type="video/mp4">  
  Your browser does not support the video tag.  
</video>

Properties :

- inline-block
- Opening and Closing Tag
- controls : displays the audio player
- src : allows you to specify the video file and its type.
- type : Helps the browser decide whether it can play the file before downloading it.
- width : Sets the width of the video player in pixels.
- poster : Defines an image to show before the video plays.



### Comparison between Inline , Block and Inline Block

display	Starts on New Line?	Can Set Width/Height?	Behaves Like	Common Example
inline	No	No	Like text	<span>, <a></a>
block	Yes	Yes	Like a box	<div>, <p></p>
inline-block	No	Yes	Mix of both	<img> <button> </button>

## Naming Conventions

### General Best Practices:

- HTML is not case-sensitive
- Use lowercase
- Use hyphens - for multi-word names
- Avoid spaces and special characters
- Be semantic and descriptive

### Avoid:

- Special characters: @, \$, #, %, etc.
- Starting names with numbers: 1header

## Assignment

Write a code of a real website as a blog which contains a header and nav links, two sections each one includes 3 articles, don't forget the aside and finally the footer including copyright symbol and add audio & Video