

Thursday, 18 April 2024

Iframes & Media Tags

iframes

`<iframe>` tag is used to embed another document within the current HTML document. It allows you to display content from another source, such as a webpage or video, within your own webpage.

```
html
```

```
<iframe src="https://www.example.com"></iframe>
```

Audio and Video

HTML5 introduced `<audio>` and `<video>` elements to embed media content directly into web pages without requiring plugins like Flash. They support various file formats and provide controls for playback.

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

<video controls>
  <source src="video.mp4" type="video/mp4">
  Your browser does not support the video element.
</video>
```

Common Attributes:

src: Specifies the URL of the audio or video file to be played.

controls: If present, displays playback controls (play, pause, volume, etc.) for the media element.

autoplay: If present, specifies that the audio or video should start playing as soon as it is loaded.

loop: If present, specifies that the audio or video should start over again from the beginning when it reaches the end.

preload: Specifies how much of the media file should be loaded when the page loads. Possible values are:

"none": The media file should not be preloaded.

"metadata": Only metadata (e.g., duration) should be preloaded.

"auto": The browser should determine the preload behavior.

muted: If present, specifies that the audio should be muted initially.

Forms

HTML forms are used to collect user input. They consist of input fields, such as text fields, checkboxes, radio buttons, etc., and a submit button to send the form data to the server for processing.

```
<form action="/submit" method="post">
  <label for="username">Username:</label>
  <input type="text" id="username" name="username" required>

  <label for="password">Password:</label>
  <input type="password" id="password" name="password" required>

  <input type="submit" value="Submit">
</form>
```

Types of Input:

Text: Allows users to enter a single line of text.

Password: Similar to text input but hides the characters entered.

Textarea: Allows users to enter multiple lines of text.

Checkbox: Allows users to select one or more options from a list of choices.

Radio: Allows users to select only one option from a list of choices.

Select: Creates a drop-down list of options from which users can select one.

File: Allows users to select and upload files from their device.

Submit: Submits the form data to the server.

Reset: Resets the form fields to their default values.

Header, Footer, Main, Section, Aside

These are semantic HTML elements introduced in HTML5 to provide clearer structure to web pages.

<header>: Represents introductory content, typically containing navigation links or headings.

<footer>: Represents the footer of a document or section, usually containing copyright information or contact details.

<main>: Represents the main content of the document.

<section>: Represents a thematic grouping of content within a document.

<aside>: Represents content that is tangentially related to the content around it.