**🎵 Embed Media (Audio & Video)**

**🔹 Audio Example**

<audio controls>

<source src="sound.mp3" type="audio/mpeg">

Your browser does not support the audio element.

</audio>

**🔹 Video Example**

<video controls autoplay loop muted width="320">

<source src="movie.mp4" type="video/mp4">

Your browser does not support the video tag.

</video>

**Attributes:**

controls – shows play/pause buttons

autoplay – starts playing automatically

loop – repeats media

muted – mutes audio by default

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**⚙️ Web Components**

**Web Components** allow you to create reusable custom elements with encapsulated functionality.

**🔹 Template Example**

<template id="my-template">

<style>

p { color: red; }

</style>

<p>Hello from template!</p>

</template>

<div id="container"></div>

<script>

const tmpl = document.getElementById("my-template");

const clone = tmpl.content.cloneNode(true);

document.getElementById("container").appendChild(clone);

</script>

**🔹 Shadow DOM Example**

<custom-element></custom-element>

<script>

class CustomElement extends HTMLElement {

constructor() {

super();

const shadow = this.attachShadow({ mode: 'open' });

shadow.innerHTML = `<p>This is shadow DOM content</p>`;

}

}

customElements.define('custom-element', CustomElement);

</script>