

CSCI-UA-4-005

Intro to Web Design + Computer Principles

HTML Audio + Video

Professor Emily Zhao M/W 12:30PM – 1:45PM



Agenda

- Lecture: HTML Audio + Video
- Demo: Web page with HTML audio, video, and inline frame
- Programming Exercise: Custom video player
- Demo: Mario Soundboard
- Introduce Final Project

HTML Audio + Video

HTML Audio + Video

- HTML5 supports audio and video natively in the web browser.
- For years, it was necessary to rely on a third party to deliver this kind of content.
- Now we can use the <audio> and <video> tags.
- The <audio> and <video> tags use src attribute or the
 <source> tag to specify one or more media resources.

HTML Audio

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

- 1. The controls attribute adds audio controls, like play, pause, and volume.
- 2. The <source> element allows you to specify alternative audio files which the browser may choose from. The browser will use the first recognized format.
- 3. The text between the <audio> and </audio> tags will only be displayed in browsers that do not support the <audio> element.

HTML Video

- 1. The controls attribute adds video controls, like play, pause, and volume.
- 2. The <source> element allows you to specify alternative video files which the browser may choose from. The browser will use the first recognized format.
- 3. It is a good idea to always include width and height attributes. If height and width are not set, the page might flicker while the video loads.
- 4. The text between the <video> and </video> tags will only be displayed in browsers that do not support the <video> element.

HTML Inline Frame (iframe)

- Another way to embed media on a web page is with the HTML inline frame element: <iframe>
- An inline frame represents a nested browsing context, embedding another HTML page into the current one.
- Embedding all or part of one web page into another is way to present content on a website.

```
<iframe src="https://www.w3schools.com"
    title="W3Schools Free Online Web Tutorials">
</iframe>
```

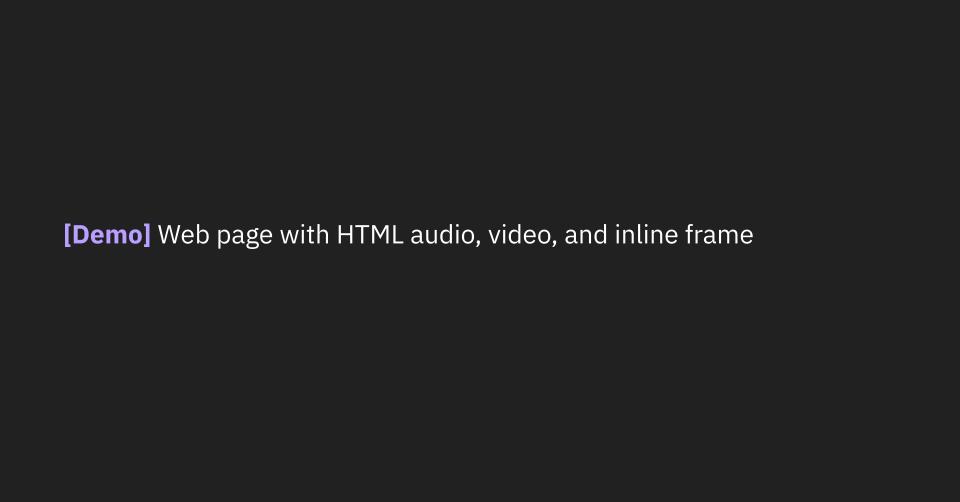
Resources for free Audio + Video

Audio

- Youtube Audio Library
- Freesound.org

Video

Pexels



Programming Challenge: Custom Video Player

We are going to create a custom video player:

- 1. Add HTML <video> element with library-mist.mp4 as the source (640px by 360px)
- 2. Create SVG play and pause buttons
- 3. Create 3 DOM queries (1) video (2) play button (3) pause button
- 4. Bind the click of the play button to the playVideo() function
- 5. Bind the click of the pause button to the pauseVideo() function
- 6. Add CSS
 - a. Give the buttons a fill color of gray
 - b. On hover, the play button should turn green and the pause button should turn red
 - c. On active click, both buttons should have an opacity of 0.6

[Demo] Mario Soundboard

Homework — Begin brainstorming your final project