

## Web Design with HTML5 & CSS3

Chapter 9- Integrating Audio and Video

## **HTML5 and Multimedia**

Built-in media support in HTML5:
 audio element <audio> </audio</li>
 video element <video> </video>

## Flash & Java Applets

 Flash, or Adobe Flash, has been used for approximately 20 years but is no longer supported as of 2021

• Was used to create animations or movie files

O Requires browsers to have a Flash plug-in, which had many security issues.

 iOS has never properly supported flash, and since it's obsolescence, web developers have embraced JavaScript to incorporate additional interactivity within their websites

• Therefore, support for Flash and Java applets has completely subsided.

# <audio> Element Defining Audio Streams

## **Audio File Formats**

• Audio file formats supported : .mp3 -- .ogg -- .wav

#### Table 9–3 Audio File Browser Support

Audio File Format	Internet Explorer	Google Chrome	Mozilla Firefox		Opera
MP3	•	•	•	•	•
Ogg		•	•		•
Wav		•	•	•	•

## HMTL5 audio Element

- The audio element allows multiple source elements, which can link to different audio files
- Text content should be inserted between <audio> and </audio> tags because browsers that do not support the audio element ignore the <audio> tag and alert users

<audio autoplay controls>

<source src="media/ffc\_aud.mp3" type="audio/mp3">
 <source src="media/ffc\_aud.ogg" type="audio/ogg">
 <source src="media/ffc\_aud.wav" type="audio/wav">
 Your browser does not support the audio tag.
</audio>

## Audio Element Attributes

#### <audio autoplay controls>

<source src="media/ffc\_aud.mp3" type="audio/mp3">
 <source src="media/ffc\_aud.ogg" type="audio/ogg">
 <source src="media/ffc\_aud.wav" type="audio/wav">
 Your browser does not support the audio tag.
</audio>

#### Table 9–2 Audio Element Attributes

Attribute	Value	Description
autoplay	autoplay	Specifies that the audio will automatically start playing
controls	controls	Specifies that audio controls should be displayed (such as a play/pause button)
loop	loop	Specifies that the audio will start playing every time it is finished
muted	muted	Specifies that the audio should be muted
preload	auto metadata none	Specifies whether and how the audio should be loaded when the page loads
src	URL	Specifies the URL of the audio file

## <video> Element Defining embedded video

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## Video File Formats

• Video file formats supported: .mp4 -- .ogg -- .webm

#### Table 9–6 Video File Browser Support

Video File Format	Internet Explorer	Google Chrome	Mozilla Firefox	Apple Safari	Opera
MP4	•	•	•	•	•
Ogg					
WebM					

## **HMTL5 video Element**

```
<div class="video">
<video autoplay controls>
    <source src="media/ffc_vid.mp4" type="video/mp4">
        <source src="media/ffc_vid.ogg" type="video/ogg">
        <source src="media/ffc_vid.ogg" type="video/ogg">
        <source src="media/ffc_vid.webm" type="video/webm">
        Your browser does not support the video tag.
</video>
</div>
```



• The video element allows multiple source elements, which can link to different video files

Text content should be inserted between <video> and </video> tags because browsers that do not support the video element ignore the <video> tag and alert users

## <video> Element Attributes

#### <div class="video">

</div>

<video autoplay controls>

<source src="media/ffc\_vid.mp4" type="video/mp4">
 <source src="media/ffc\_vid.ogg" type="video/ogg">
 <source src="media/ffc\_vid.webm" type="video/webm">
 Your browser does not support the video tag.
</video>

Table 9–5 Video Element Attributes



#### Attribute Value Description Specifies that the video will start playing as soon as it is ready autoplay autoplay controls controls Specifies that video controls should be displayed (such as a play/pause button) height Sets the height of the video player pixels Specifies that the video will start playing every time it is finished loop loop muted muted Specifies that the audio output of the video should be muted Specifies an image to be shown while the video is downloading, or until URL poster the user clicks the play button preload Specifies whether and how the video should be loaded when the page auto metadata loads none URL Specifies the URL of the video file src Sets the width of the video player width pixels

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### This week

- O C9 fitness, lab 1, lab 2
- O Term project