



جامعة المستقبل  
AL MUSTAQBAL UNIVERSITY

# Web Programming

## Lecture 9

### *HTML Multimedia*

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# Introduction

- Multimedia can be almost anything we can hear or see, like images, music, sound, videos, records, films, animations, and more.
- Web pages often contain multimedia elements of different types and formats.
- HTML allows us to create standards-based video and audio players that don't require the use of any plugins.

# Common Video Formats

- The MP4, WebM, and Ogg formats are supported by HTML.

FORMAT	FILE	DESCRIPTION
MPEG	.mpg .mpeg	MPEG Developed by the Moving Pictures Expert Group. Not supported anymore in HTML.
AVI	.avi	AVI (Audio Video Interleave). Plays well on Windows computers, but not in web browsers.
WMV	.wmv	WMV (Windows Media Video). Plays well on Windows computers, but not in web browsers.
Flash	.flv	Flash. Developed by Macromedia. Often requires an extra component (plug-in) to play in web browsers.
Ogg	.ogg	Theora Ogg. Supported by HTML.
WebM	.webm	WebM. Developed by Mozilla, Opera, Adobe, and Google. Supported by HTML.
MPEG-4 MP4	.mp4	<b>MP4. Developed by the Moving Pictures Expert Group. Supported by all browsers</b>



# Common Audio Formats

- Only MP3, WAV, and Ogg audio are supported by the HTML standard.

FORMAT	FILE	DESCRIPTION
MIDI	.mid .midi	MIDI (Musical Instrument Digital Interface). Plays well on all computers and music hardware, but not in web browsers.
WMA	.wma	WMA (Windows Media Audio). Plays well on Windows computers, but not in web browsers.
AAC	.aac	Plays well on Apple computers, but not in web browsers.
WAV	.wav	WAV. Developed by IBM and Microsoft. Supported by HTML.
Ogg	.ogg	Supported by HTML.
MP3	.mp3	<b>MP3 files are actually the sound part of MPEG files. MP3 is the most popular format for music players. Supported by all browsers.</b>

# HTML Video

- To embed video in HTML, we use the `<video>` tag. It contains one or more video sources at a time using `<source>` tag.

- Syntax:

`<video>`

`<source src="file_name" type="video_file_type">`

`</video>`

- We can use `<source>` tag to specify media along with media type and many other attributes.

# Video attribute specification

ATTRIBUTE	DESCRIPTION
autoplay	When the page is loaded, It specifies to play video as soon as possible.
controls	It displays video control such as play, pause, and stop.
loop	It will start the video again when it is finished.
muted	When the page is loaded, video will be automatically muted.
src	<b>It specifies the URL of the video file.</b>
width	It specifies the width of the video area. The default value of width is 'auto'.
height	It specifies the height of the video area.



# HTML Audio

- To embed audio in HTML, we use the `<audio>` tag.

- Syntax:

`<audio>`

`<source src="file_name" type="audio_file_type">`

`</audio>`

- The HTML `<audio>` element is used to play an audio file on a web page.



# Audio attribute specification

ATTRIBUTE	DESCRIPTION
autoplay	When the page is loaded, It specifies to play audio as soon as possible.
controls	It displays audio control.
loop	It will start the audio again when it is finished.
muted	When the page is loaded, audio will be automatically muted.
src	<b>It specifies the URL of the audio file.</b>

# Summary

- HTML embedded audio and video
- In the next class, we will start **Unit II – Cascading Style Sheet** in detail.
- Thanks