

Embedding Audio and Video in HTML

Spoken Tutorial Project

<https://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

**Praveen S
IIT Bombay**

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Learning Objectives



Learning Objectives

- ▶ **How to embed an audio and video file in HTML**



Prerequisite



Prerequisite

- ▶ You should have basic knowledge of HTML



Prerequisite

- ▶ You should have basic knowledge of HTML
- ▶ If not, then go through the corresponding tutorials on <https://spoken-tutorial.org>



System Requirements



System Requirements

- ▶ Ubuntu Linux 16.04 OS



System Requirements

- ▶ Ubuntu Linux 16.04 OS
- ▶ HTML5



System Requirements

- ▶ Ubuntu Linux 16.04 OS
- ▶ HTML5
- ▶ gedit **Text Editor**



System Requirements

- ▶ Ubuntu Linux 16.04 OS
- ▶ HTML5
- ▶ gedit **Text Editor**
- ▶ Firefox **Web Browser**



Additional System Requirements



Additional System Requirements

- ▶ Mac OS



Additional System Requirements

- ▶ Mac OS
- ▶ Safari **Web Browser**



Code Files

- ▶ The files used in this tutorial are available in the [Code Files link](#) on this tutorial page



Code Files

- ▶ The files used in this tutorial are available in the Code Files link on this tutorial page
- ▶ Please download and extract them



Embedding Media in HTML4



Embedding Media in HTML4

- ▶ **Upto HTML4, embed or object tags were used to embed media files**



Embedding Media in HTML4

- ▶ **Upto HTML4, embed or object tags were used to embed media files**
- ▶ **Also a flash plug-in was required to play them on the web browser**



Embedding Media in HTML5



Embedding Media in HTML5

- ▶ **We can directly embed the media using audio and video tags**



Embedding Media in HTML5

- ▶ We can directly embed the media using audio and video tags
- ▶ Only 3 commonly used audio and video formats are allowed to be used



Embedding Media in HTML5

- ▶ We can directly embed the media using audio and video tags
- ▶ Only 3 commonly used audio and video formats are allowed to be used
- ▶ Web browser does not require any plugin to play those Audio/Video formats



HTML5 Audio Formats

| Browser | .mp3 | .wav | .ogg |
|-------------------|------|------|------|
| Firefox | ✓ | ✓ | ✓ |
| Chrome | ✓ | ✓ | ✓ |
| Opera | ✓ | ✓ | ✓ |
| Safari | ✓ | ✓ | X |
| Internet Explorer | ✓ | X | X |



HTML5 Video Formats

| Browser | .mp4 | .webm | .ogv |
|-------------------|------|-------|------|
| Firefox | ✓ | ✓ | ✓ |
| Chrome | ✓ | ✓ | ✓ |
| Opera | ✓ | ✓ | ✓ |
| Safari | ✓ | X | X |
| Internet Explorer | ✓ | X | X |



Important Note



Important Note

- ▶ Before embedding any media, always ensure that you have all the rights to use the file



Important Note

- ▶ Before embedding any media, always ensure that you have all the rights to use the file
- ▶ Sharing files on the web without reusable permission, is illegal



Common Media Attributes



Common Media Attributes

► Preload



Common Media Attributes

- ▶ **Preload**
- ▶ **Autoplay**



Common Media Attributes

- ▶ **Preload**
- ▶ **Autoplay**
- ▶ **Loop**



Common Media Attributes

- ▶ **Preload**
- ▶ **Autoplay**
- ▶ **Loop**
- ▶ **Mute**



Common Media Attributes

- ▶ **Preload**
- ▶ **Autoplay**
- ▶ **Loop**
- ▶ **Mute**
- ▶ **Media Group**



Common Media Attributes

- ▶ **Preload**
- ▶ **Autoplay**
- ▶ **Loop**
- ▶ **Mute**
- ▶ **Media Group**
- ▶ **Poster (Only for video tag)**



Common Media Attributes

- ▶ **Preload**
- ▶ **Autoplay**
- ▶ **Loop**
- ▶ **Mute**
- ▶ **Media Group**
- ▶ **Poster (Only for video tag)**
- ▶ **Width & height (Only for video tag)**



Summary

In this tutorial, we have learnt

- ▶ **About HTML5 supported audio and video formats**



Summary

We also learnt how to:

- ▶ **Embed audio and video files**
- ▶ **Provide multiple sources**
- ▶ **Add playback controls to the player and**
- ▶ **Modify video player dimensions**



Assignment

- ▶ **Open** MyHomePage.html
- ▶ **Embed any .mp3 audio and .ogv video of your choice in the file**



About the Spoken Tutorial Project

- ▶ Watch the video available at https://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ It summarises the Spoken Tutorial project
- ▶ If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- ▶ Conducts workshops using spoken tutorials
- ▶ Gives certificates to those who pass an online test
- ▶ For more details, please write to contact@spoken-tutorial.org



Forum for Specific Questions

- ▶ Do you have questions in **THIS Spoken Tutorial?**
- ▶ Please visit <https://forums.spoken-tutorial.org>
- ▶ Choose the minute and second where you have the question
- ▶ Explain your question briefly
- ▶ Someone from our team will answer them



Acknowledgements

- ▶ Spoken Tutorial Project is a part of the Talk to a Teacher project
- ▶ It is supported by the National Mission on Education through ICT, MHRD, Government of India
- ▶ More information on this Mission is available at

<https://spoken-tutorial.org/NMEICT-Intro>



Thank You

Thanks for joining
<https://spoken-tutorial.org>

