

HTML5 features, include native audio and video support without the need for Flash.

The HTML5 <audio> and <video> tags make it simple to add media to a website. You need to set **src** attribute to identify the media source and include a controls attribute so the user can play and pause the media.

➤ Embedding Video

Here is the simplest form of embedding a video file in your webpage –

```
<video src="foo.mp4" width="300" height="200" controls>
```

Your browser does not support the <video> element.

```
</video>
```

The current HTML5 draft specification does not specify which video formats browsers should support in the video tag.

But most commonly used video formats are –

- **Ogg** – Ogg files with Theora video codec and Vorbis audio codec.
- **mpeg4** – MPEG4 files with H.264 video codec and AAC audio codec.

You can use <source> tag to specify media along with media type and many other attributes. A video element allows multiple source elements and browser will use the first recognized format –

```
<video width="300" height="200" controls autoplay>
```

```
<source src="/html5/foo.ogg" type="video/ogg" />
```

```
<source src="/html5/foo.mp4" type="video/mp4" />
```

Your browser does not support the video element.

```
</video>
```

➤ Video Attribute

The HTML5 video tag can have a number of attributes to control the look and feel and various functionalities of the control –

Attribute	Description
autoplay	This boolean attribute if specified, the video will automatically begin to play back as soon as it can do so without stopping to finish loading the data.
autobuffer	This boolean attribute if specified, the video will automatically begin buffering even if it's not set to automatically play.
controls	If this attribute is present, it will allow the user to control video playback, including volume, seeking, and pause/resume playback.
height	This attribute specifies the height of the video's display area, in CSS pixels.
loop	This boolean attribute if specified, will allow video automatically seek back to the start after reaching at the end.
preload	This attribute specifies that the video will be loaded at page load, and ready to run. Ignored if autoplay is present.
poster	This is a URL of an image to show until the user plays or seeks.
src	The URL of the video to embed. This is optional; you may instead use the <source> element within the video block to specify the video to embed.
width	This attribute specifies the width of the video's display area, in CSS pixels.

➤ Embedding Audio

HTML5 supports <audio> tag which is used to embed sound content in an HTML or XHTML document as follows.

```
<audio src="foo.wav" controls autoplay>
```

Your browser does not support the <audio> element.

```
</audio>
```

The current HTML5 draft specification does not specify which audio formats browsers should support in the audio tag. But most commonly used audio formats are ogg, mp3 and wav.

You can use <source> tag to specify media along with media type and many other attributes. An audio element allows multiple source elements and browser will use the first recognized format –

```
<audio controls autoplay>
```

```
<source src="/html5/audio.ogg" type="audio/ogg" />
```

```
<source src="/html5/audio.wav" type="audio/wav" />
```

Your browser does not support the audio element.

```
</audio>
```

➤ Audio Attribute

The HTML5 audio tag can have a number of attributes to control the look and feel and various functionalities of the control :

Attribute	Description
autoplay	This boolean attribute if specified, the audio will automatically begin to play back as soon as it can do so without stopping to finish loading the data.
autobuffer	This boolean attribute if specified, the audio will automatically begin buffering even if it's not set to automatically play.
controls	If this attribute is present, it will allow the user to control audio playback, including volume, seeking, and pause/resume playback.
loop	This boolean attribute if specified, will allow audio automatically seek back

	to the start after reaching at the end.
preload	This attribute specifies that the audio will be loaded at page load, and ready to run. Ignored if autoplay is present.
src	The URL of the audio to embed. This is optional; you may instead use the <source> element within the video block to specify the video to embed.

➤ HTML Media Events

The HTML5 audio and video tag can have a number of attributes to control various functionalities of the control using Javascript –

Event	Description
abort	This event is generated when playback is aborted.
canplay	This event is generated when enough data is available that the media can be played.
ended	This event is generated when playback completes.
error	This event is generated when an error occurs.
loadeddata	This event is generated when the first frame of the media has finished loading.
loadstart	This event is generated when loading of the media begins.
pause	This event is generated when playback is paused.
play	This event is generated when playback starts or resumes.
progress	This event is generated periodically to inform the progress of the downloading the media.
ratechange	This event is generated when the playback speed changes.
seeked	This event is generated when a seek operation completes.
seeking	This event is generated when a seek operation begins.
suspend	This event is generated when loading of the media is suspended.
volumechange	This event is generated when the audio volume changes.
waiting	This event is generated when the requested operation (such as playback) is

	delayed pending the completion of another operation (such as a seek).
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For Ex.

```
<html>
```

```
  <head>
```

```
    <script type="text/javascript">
```

```
      function PlayVideo()
```

```
      {
```

```
        var v = document.getElementsByTagName("video")[0];
```

```
        v.play();
```

```
      }
```

```
    </script>
```

```
  </head>
```

```
<body>
```

```
  <form>
```

```
    <video width="300" height="200" src="/html5/foo.mp4">
```

Your browser does not support the video element.

```
  </video>
```

```
  <br />
```

```
    <input type="button" onclick="PlayVideo();" value="Play"/>
```

```
  </form>
```

```
</body>
```

```
</html>
```

