

Class Notes of audio and video tag

Audio Tag Notes

- The <audio> tag is used to embed sound or music files in a webpage.
- Don't use the src attribute directly inside <audio>. Instead, use multiple <source> tags for better browser support.
- Using multiple <source> tags helps support different audio formats like MP3, OGG, WAV for compatibility across all devices.
- Use the controls attribute to display default play, pause, volume, etc. controls.
- Common audio formats:
 - **MP3:** Most widely supported
 - **OGG:** Open format, supported in Firefox, Chrome
 - **WAV:** Uncompressed, large file size
- autoplay attribute can be used to play audio automatically when the page loads (not supported in all modern browsers due to user experience rules).
- loop attribute is used to repeat the audio again and again.
- muted starts audio in mute mode (especially useful with autoplay).
- Best practice: Always use <source> tags inside <audio> for cross-browser compatibility.
- Example:

```
<audio controls>
  <source src="song.mp3" type="audio/mpeg">
  <source src="song.ogg" type="audio/ogg">
  Your browser does not support the audio tag.
</audio>
```

Video Tag Notes

- The <video> tag is used to embed video files on a webpage.
- Just like audio, it's better to use multiple <source> tags for supporting different video formats.
- Supported video formats:
 - **MP4:** Most widely supported (H.264)
 - **WebM:** Open format (Chrome, Firefox)
 - **OGG:** Limited support
- Use the controls attribute to display play/pause buttons and volume controls.
- autoplay starts playing video automatically. Often used with muted to prevent blocking.
- loop makes the video play continuously in a loop.
- muted starts video in mute mode. Useful with autoplay.
- poster is used to show a thumbnail image before the video plays.
- **Important:** You cannot use poster and autoplay together effectively. If autoplay is set, the poster image might not appear.
- preload attribute controls how much of the video is loaded before playback:
 - auto: browser decides
 - metadata: only metadata is loaded
 - none: nothing is loaded until user clicks play
- Example:

```
<video width="320" height="240" controls poster="thumbnail.jpg">  
  <source src="movie.mp4" type="video/mp4">  
  <source src="movie.webm" type="video/webm">  
  Your browser does not support the video tag.  
</video>
```