

So You Want to Learn To Use HTML and CSS

Chapter 2 – Part B

Adding Audio and Video

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In this video we will cover:

- ✓ Common audio formats
- ✓ Common video formats
 - mp4
 - Ogg
- ✓ Transcoding audio
- ✓ Transcoding video
- ✓ Adding the `<audio>` tag to your page
- ✓ Adding the `<video>` tag to your page

Audio Formats

- mp3 – MPEG Layer III audio
 - Very common compressed
- ogg – Ogg Vorbis
 - Open Source audio compression
- wav – Windows Audio
 - Uncompressed and can be HUGE
- Transcoding software
 - Audacity
 - MediaCoder
 - Others

Video Formats

- mp4 - Motion Pictures Expert Group Version 4
 - Very widely supported
- avi – old Microsoft format that is still widely supported.
- flv – Flash video – requires Flash plugin (near end of life)
- Others (dozens of other formats)
- Transcoding
 - handbrake
 - ffmpeg

The Audio Tag - Simple

```
<audio src="file.ext">Message if  
unavailable</audio>
```

- The src attribute contains a file name or path to an audio file
- Put a message inside if the sound is unavailable or for non aural users.
- One format available.

The Audio Tag – Play the Best One

```
<audio>  
<source src="file.mp3" type="audio/mpeg">  
<source src="file.ogg" type="audio/ogg">  
Message if unavailable  
</audio>
```

- Multiple Sources to play the best one for the browser
- Put a message inside if the sound is unavailable or for non aural users.
- `autoplay` and `controls` attributes are optional

The Video Tag - Simple

```
<video src="file.ext">Message if  
unavailable</video>
```

- The src attribute contains a file name or path to an video file
- Put a message inside if the video is unavailable.
- One format available.

The Video Tag – Play the Best One

```
<video width="640" height="480">  
<source src="file.mp4" type="audio/mp4">  
<source src="file.ogv" type="audio/ogg">  
Unavailable  
</video>
```

- Multiple Sources to play the best one for the browser
- Put a message inside if the video is unavailable.
- Should include `width` and `height`
- `autoplay` and `controls` attributes are optional

Page with Video

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <title>Chapter 2 - Video</title>
  </head>
  <body>
    <h2>Raising of the flag on Iwo Jima (1945)</h2>
    <video width="320" height="240" controls>
      <source src="media/CEP413.mp4" type="video/mp4">
      <source src="media/CEP413.ogv" type="video/ogg">
      Your browser does not support the video element.
    </video>
    <p>Video by the U.S. Government Office of War Information.</p>
    <p>Video from https://archive.org/details/CEP413 and in the public domain.</p>
  </body>
</html>
```

Raising of the flag on Iwo Jima (1945)



Video by the U.S. Government Office of War Information.

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Thank you

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