

Scripting for Multimedia

LECTURE 16: PLAYING VIDEO

Video formats

- The W3C is trying to come up with a video format that can be specified for all browsers to support as a minimum
- The most popular formats
 - Ogg/Theora (.ogv extension)
 - WebM/VP8 (.webm extension)
 - MPEG-4/H.264 (.mp4 extension)

Implementing the <video> element

- The <video> element

```
<video width="320" height="240" controls="controls">
```

```
<source src="movie.mp4" />
```

You need a browser that supports HTML5!

```
</video>
```

Setting the source

- The `<source>` element specifies a video source
 - At a minimum, you need to set the `src` attribute to the URL of the video

- There can be more than one `<source>` element

```
<video height="480" controls="controls">  
  <source src="eagle.webm" type='video/webm;  
    codecs="vorbis, vp8"' />  
  <source src="eagle.ogv" type='video/ogg; codecs="theora,  
    vorbis"' />  
  <source src="eagle.mp4" type='video/mp4;  
    codecs="avc1.42E01E, mp4a.40.2"' />  
</video>
```

Setting the source

- The recommended order of different <source> elements:
 - .webm file
 - .ogv file
 - .mp4 file
- The type attribute includes both the MIME type and the codecs

Configuring the <video> element

- Attributes for <video> element
 - autoplay
 - controls
 - height
 - loop
 - muted
 - poster
 - preload
 - src
 - width



✓ Quick check

You want an image to be displayed when the video is not running. Which property should you set to the URL of an image to be displayed?

Accessing tracks

- WebVTT (Web Video Text Tracks) standard
 - display captions on the video
- Using the WebVTT format

WEBVTT FILE

```
00:00:07.500 --> 00:00:08.750  
He's fidgety
```

NOTE I think the timing should be adjusted to span to the end of the video

```
00:00:09.000 --> 00:00:12.000  
There he goes!!!
```

Accessing tracks

- Adding support for WebVTT to IIS Express

```
cd "C:\Program Files\IIS Express"
appcmd set config /section:staticContent
/+[fileExtension='vtt',mimeType='text/vtt']
```