Scripting for Multimedia

LECTURE 18: USING THE HTMLMEDIAELEMENT OBJECT

Understanding the HTMLMediaElement methods

- <audio> and <video> inherit from an HTMLMediaElement object
- You can use the members of the HTMLMediaElement object to control the video and audio playback
- HTMLMediaElement methods
 - addTextTrack()
 - canPlayType()
 - load()
 - play()
 - pause()

Using HTMLMediaElement properties

- HTMLMediaElement properties
 - audioTracks
 - autoplay
 - buffered
 - controller
 - controls
 - error
 - loop
 - src

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Subscribing to HTMLMediaElement events

- List of events that can be subscribed to
 - oncanplay
 - onpause
 - onplay
 - onprogress
 - onsuspend
 - onwaiting
 - •

Using media control

- You can provide custom controls for the media or a custom means to start and stop the media playback
 - Example

Using media control

- You can provide custom controls for the media or a custom means to start and stop the media playback
 - Example (Cont.)

```
<body>
    <video id="media" height="480">
        <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;</pre>
             codecs="avc1.42E01E,mp4a.40.2"' />
        <track id="englishtrack" kind="subtitles" src="captions.vtt"</pre>
             srclang="en" label="English" default="" />
    </video>
    <br />
    <button type="button" id="play">Play</button>
</body>
</html>
```

Using media control

- Because the controls attribute is not set, the <video> element doesn't display the built-in controls
- Sometimes, you might not want to allow the user to maximize the video, so turn off the controls

```
• Example of default.js
/// <reference path="jquery-1.8.3.js" />
$(document).ready(function () {
    $('#play').on('click',playStop);
    $('#media').on('play',function () {$('#play').html('Pause');});
    $('#media').on('pause',function () {$('#play').html('Play');});
});
function playStop() {
    var media = $('#media')[0];
    if(media.paused) {media.play();}
    else {media.pause();}
}
```