HTML5 VIDEO

RESOURCES:

- HTML/Javascript (no jQuery) example
  http://msdn.microsoft.com/en-us/library/ie/hh924823(v=vs.85).aspx
- Firefox api documentation
  https://developer.mozilla.org/en-US/docs/Web/Guide/HTML/Using_HTML5_audio_and_video
- Opera api documentation
  http://dev.opera.com/articles/view/everything-you-need-to-know-about-html5-video-and-audio/
- Microsoft api documentation
  http://msdn.microsoft.com/en-us/library/ie/hh772500(v=vs.85).aspx
- Safari api documentation
  https://developer.apple.com/library/safari/documentation/AudioVideo/Reference/HTMLMediaElementClass
  Reference/HTMLMediaElement/HTMLMediaElement.html
- Video events
  http://www.w3.org/2010/05/video/mediaevents.html

QUIRKS

Internet Explorer 8

- HTML5 not supported. Use fallback image if necessary:

```
<video id="my-video" poster="first-frame.jpg" controls>
    <source src="video.mp4" type='video/mp4; codecs=avc1.42E01E, mp4a.40.2'>
    <source src="video.ogv" type='video/ogg; codecs="theora, vorbis"'>
    <source src="video.webm" type='video/webm; codecs="vp8, vorbis"'>
    <img src="html5-video-no-supported-fallback.jpg" />
</video>
```

Internet Explorer 9

- Setting `currentTime` and starting playback immediately after cause error

  ```
  DOM Exception: INDEX_SIZE_ERR (1).
  ```

  Wrong way:

  ```
  $activeVideo.get(0).currentTime = 0;
  $activeVideo.get(0).play();
  ```

Right way:

No solution found. For now avoid setting `currentTime` in IE9.

- Only true H.264 mp4 video with dimensions 320 x 240, 480 x 320, 480 x 360, 640 x 420, 640 x 480, 720 x 480, 720 x 576, 1280 x 720, 1920 x 1080

- *Always* set video type *and* codec. Not setting this will cause playback to fail:

```
<video id="my-video" poster="first-frame.jpg" controls>
    <source src="video.mp4" type='video/mp4; codecs=avc1.42E01E, mp4a.40.2'>
    <source src="video.ogv" type='video/ogg; codecs="theora, vorbis"'>
    <source src="video.webm" type='video/webm; codecs="vp8, vorbis"'>
    <img src="html5-video-no-supported-fallback.jpg" />
</video>
```

- *Always* set posterimage. No posterimage will cause playback to fail:

```
<video id="my-video" poster="first-frame.jpg" controls>
    <source src="video.mp4" type='video/mp4; codecs=avc1.42E01E, mp4a.40.2'>
    <source src="video.ogv" type='video/ogg; codecs="theora, vorbis"'>
    <source src="video.webm" type='video/webm; codecs="vp8, vorbis"'>
    <img src="html5-video-no-supported-fallback.jpg" />
</video>
```

- Internet Explorer needs a *video ready* handler. No videoReady handler exists though. Create your own listener and handler. No handler will through an error and no playback:

```
var video = document.getElementById('my-video-id');
var interval = setInterval(function () { handler(video, interval); }, 100);
handler(video, interval);
function handler(video, interval) {
    if (video) {
        if (video.readyState == 4) {
            clearInterval(interval);
            interval = null;
            video.play();
        }
    }
}
```

Internet Explorer 10

- Only true H.264 mp4 encoded video with dimensions 320 x 240, 480 x 320, 480 x 360, 640 x 420, 640 x 480, 720 x 480, 720 x 576, 1280 x 720, 1920 x 1080.

- No *videoReady* handler exists for Internet Explorer HTML5 video. Create your own listener and handler. No handler = errors and no playback. Use same method as with Internet Explorer 9 as described above.

- Always set video type. Not setting type will cause playback to fail:

```html
<video id="my-video" poster="first-frame.jpg" controls>
    <source src="video.mp4" type='video/mp4; codecs=avc1.42E01E, mp4a.40.2'>
    <source src="video.ogv" type='video/ogg; codecs="theora, vorbis"'>
    <source src="video.webm" type='video/webm; codecs="vp8, vorbis"'>
    <img src="html5-video-no-supported-fallback.jpg" />
</video>
```

- Always set posterimage. Not posterimage type will cause playback to fail:

```html
<video id="my-video" poster="first-frame.jpg" controls>
    <source src="video.mp4" type='video/mp4; codecs=avc1.42E01E, mp4a.40.2'>
    <source src="video.ogv" type='video/ogg; codecs="theora, vorbis"'>
    <source src="video.webm" type='video/webm; codecs="vp8, vorbis"'>
    <img src="html5-video-no-supported-fallback.jpg" />
</video>
```

Opera

- The `timeupdate` event is buggy and not triggered correct after using `currentTime` if video is paused. Using

```
video.play();
video.pause();
```

- as a small hack might fix this.

http://my.opera.com/community/forums/topic.dml?id=1433702

CHROME

Works as expected.

FIREFOX

Works as expected.

SAFARI

Works as expected.

IOS

- HTML5 video is supported but keep in mind that video opens in native IOS videoplayer

  https://developer.apple.com/library/safari/documentation/AudioVideo/Conceptual/Using_HTML5_Audio_Video/Device-SpecificConsiderations/Device-SpecificConsiderations.html#//apple_ref/doc/uid/TP40009523-CH5-SW1

IOS