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/HTMLMediaElementClassReference/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:  
    
  <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:  
    
  <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>