HTML <video> Tag How To

#video# description, syntax, usage, attributes and examples HTML-5.com is a great guide for web developers. TV Series & Actors and Actresses. Follow TV Series and HTML 5 on Google+.

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The <video> Tag in HTML 5

There are also web sites that will automatically generate the code for HTML 5 video, such as Vyd.com's HTML 5 video URL shortener.

Slow motion video of particles being impacted by a solid sphere

<video poster="/media/deep-impact-movie.png" controls="controls" style="border: black 1px solid; margin: 4px"> <source src="/media/deep-impact-movie.ogg" type="video/ogg; codecs="theora,vorbis""></source> <source src="/media/deep-impact-movie.mp4" type="video/mp4; codecs="avc1.42E01E,mp4a.40.2""></source> </video> <form> <input type="button" value="#" onclick=" var video = document.getElementsByTagName('video')[0]; if (video.paused) { video.play(); this.value="#" } else { video.pause(); this.value="#" } return false; "></input> </form> 500 fps high speed video from NASA JPL

This is an actual working example of the <video> tag example code below. (Do *View Source* to verify that this page is using the HTML 5 DOCTYPE. You can also verify it is Valid HTML 5 using the HTML Validator. Try using it to validate URLs with HTML examples from other places that claim to be HTML 5 web sites!)

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<video> Tag Syntax

Rules for coding the HTML `video` **element**

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<video> Tag Attributes

Attributes of the <video> tag

global attributes	In addition to the personal attributes of the <video> tag below, any of the common HTML attributes can also be coded.
width, height	
src	a URI reference that resolves to the URL of the video resource

<table>
<tr><td></td><td>

Use percent escape codes as explained in the URL Encoding Tutorial for any special characters in the URI reference.

If the value of the `src` attribute is an HTTP URL, it may contain any of the following components:

1. protocol scheme, typically `http:` or else `https:`
2. username, followed by an "@"
3. host name or IP address
4. port number, which defaults to 80 for the `http` scheme and 443 for the `https` scheme
5. absolute or relative path
6. search query, indicated by "?"

If the protocol scheme, username, host name/IP address and port number are omitted the default is the current host - the same server as the base of the current document. If the path starts with a slash `/...`, it is an absolute path from the document root directory (AKA "<dfn>web root</dfn>") on the server. A relative path will be resolved relative to the base of the current document.

</td></tr>
<tr><td>poster</td><td>

a URI reference that resolves to the URL of a two-dimensional image resource

The <dfn>poster</dfn> is displayed as a preview of the video when the video is not being played.

Use percent escape codes as explained in the URL-encoding tutorial for any special characters in the URI reference.

If the value of the `poster` attribute resolves to an HTTP URL, it may contain any of the following components:

1. protocol scheme, typically `http:` or else `https:`
2. username, followed by an "@"
3. host name or IP address
4. port number, which defaults to 80 for the `http` scheme and 443 for the `https` scheme
5. absolute or relative path

</td></tr>
</table>

	6. search query, indicated by "?" If the protocol scheme, username, host name/IP address and port number are omitted the default is the current host - the same server as the base of the current document. If the path starts with a slash `/...`, it is an absolute path from the document root directory ([AKA](#) "<dfn>web root</dfn>") on the server. A relative path will be resolved relative to the base of the current document.
autoplay="autoplay"	
controls="controls"	
loop="loop"	
preload="none" preload="metadata" preload="auto"	

HTML Media Events

oncanplay	
oncanplaythrough	
onemptied	
onended	
onerror	
onloadeddata	
onloadedmetadata	
onloadstart	
onpause	
onplaying	
onprogress	
onratechange	
onreadystatechange	
onseeked	
onseeking	
onstalled	
onsuspend	
ontimeupdate	
onvolumechange	

onwaiting	

<video> Tag Examples

Examples of the `video` tag in HTML 5

<video> tag with poster, video controls and separate pause / play button

```
<p>Slow motion video of particles being impacted by a solid sphere</p>
<video poster="/media/deep-impact-movie.png" controls="controls"
➥ style="border: black 1px solid; margin: 4px">
    <source src="/media/deep-impact-movie.ogg" type="video/ogg;
➥ codecs=&quot;theora,vorbis&quot;"/>
    <source src="/media/deep-impact-movie.mp4" type="video/mp4;
➥ codecs=&quot;avc1.42E01E,mp4a.40.2&quot;"/>
</video>
  <form>
   <input type="button" value="&#x25b6;" onclick="
      var video = document.getElementsByTagName('video')[0];
      if (video.paused) { video.play(); this.value=&quot;&#x2016;&quot; }
      else { video.pause(); this.value=&quot;&#x25b6;&quot; }
      return false;
   "/>
</form>
<p>500 fps high speed video from NASA JPL</p>
```

In actual practice, you probably would use either the video controls or the pause / play button, not both.

Example of embedding video in HTML 5

When embedding video from another site, such as YouTube, in an HTML 5 page the <object> tag is typically used rather than the <video> tag:

```
<object width="1280" height="745">
   <param name="movie" value="http://www.YouTube.com/v/ZXYVyrrUZ3c&hl=en_US
➥ &fs=1&rel=0&hd=1"/>
   <param name="allowFullScreen" value="true"/>
   <param name="allowscriptaccess" value="always"/>
   <embed src="http://www.YouTube.com/v/ZXYVyrrUZ3c&hl=en_US&fs=1&rel=0&hd=1"
➥ type="application/x-shockwave-flash" allowscriptaccess="always"
➥ allowfullscreen="true" width="1280" height="745"/>
</object>
```

Demo of embedding a YouTube video:
embedded YouTube video
So far the WebKit browsers, such as Safari and Chrome *do* support HTML 5 video. If your current browser does not yet support HTML 5 video it should play the flash video instead.

HTML 5 video with fallback

The <video> tag can be combined with the <object> tag to provide for video with fallback. The fallback element(s) are coded within the <video> tag as shown in this example:

```
<video poster="poster.png" controls="controls" style="border: black 1px
➥ solid; margin: 4px">
   <source src="http://Vyd.com/video.ogv" type="video/ogg;
➥ codecs="theora,vorbis""/>
```

```
      <source src="http://Vyd.com/video.mp4" type="video/mp4;
➡ codecs="avc1.42E01E,mp4a.40.2""/>
   <object width="1280" height="745" type="video/webm">
       <param name="movie" value="http://www.YouTube.com/v/ZXYVyrrUZ3c&hl=en
➡ _US&fs=1&rel=0&hd=1"/>
       <param name="allowFullScreen" value="true"/>
       <param name="allowscriptaccess" value="always"/>
       <embed src="http://www.YouTube.com/v/ZXYVyrrUZ3c&hl=en_US&fs=1&rel=0&
➡ hd=1" type="application/x-shockwave-flash" allowscriptaccess="always"
➡ allowfullscreen="true" width="1280" height="745"/>
   </object>
 </video>
```

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Changes in HTML 5 - \<video\> Tag

What's new in HTML 5

The \<video\> tag is one of the new elements in HTML 5.

Differences between HTML 5 and earlier versions of HTML

The \<video\> tag did not exist in older versions of HTML.

The 2000-2010 Recommendations from the W3C HTML Working Group defined the HTML namespace for the names of all HTML element types, which now includes the **video** element name. In older (pre-2000) versions of HTML, element type names were not associated with a namespace.

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THE END