HTML 5 – Audio and Video

Video on the Web

HTML5 supports a number the **<video> tag**, which lets you **embed video without the use of external plugins** on the browsers' part.

Browser Support

Element					O
<video>	4.0	9.0	3.5	4.0	10.5

When you say you want to convert video to HTML5, you actually want to convert it to one of the following three formats:

Browser	MP4	WebM	Ogg
Internet Explorer	YES	NO	NO
Chrome	YES	YES	YES
Firefox	YES	YES	YES
Safari	YES	NO	NO
Opera	YES (from Opera 25)	YES	YES

File Format	Media Type
MP4	video/mp4
WebM	video/webm
Ogg	video/ogg

http://www.w3schools.com/html/html5_video.asp

How the HTML 5 video element works:

```
<video width="320" height="240" controls autoplay>
  <source src="movie.mp4" type="video/mp4">

Your browser does not support the video tag.
</video>
```

Video Controls - The control attribute adds video controls, like play, pause, and volume.

Width and Height - It is also a good idea to always include width and height attributes. If height and width are set, the space required for the video is reserved when the page is loaded. However, without these attributes, the browser does not know the size of the video, and cannot reserve the appropriate space to it. The effect will be that the page layout will change during loading (while the video loads).

Browsers with non-video support -You should also insert text content between the <video> and </video> tags for browsers that do not support the <video> element.

Different video files The <video> element allows multiple <source> elements. <source> elements can link to different video files. The browser will use the first recognized format.

Audio on the Web

HTML5 defines a new element which specifies a standard way to embed an audio file on a web page: the **<audio>** element.

Browser	MP3	Wav	Ogg
Internet Explorer	YES	NO	NO
Chrome	YES	YES	YES
Firefox	YES	YES	YES
Safari	YES	YES	NO
Opera	YES	YES	YES

File Format	Media Type
MP3	audio/mpeg
Ogg	audio/ogg
Wav	audio/wav

To play an audio file in HTML5, this is all you need:

```
<audio controls>
  <source src="horse.ogg" type="audio/ogg">
  <source src="horse.mp3" type="audio/mpeg">
Your browser does not support the audio element.
</audio>
```

The control attribute adds audio controls, like play, pause, and volume. You should also insert text content between the <audio> and </audio> tags for browsers that do not support the <audio> element.

Task

Experiment with the sample video and audio files that can be downloaded from Moodle.

Alternatively you can source your own:

https://videos.pexels.com/

http://www.orangefreesounds.com/sound-effects/