Media in HTML

Overview

Multimedia is a different content than text that uses sound, music, videos, movies, animations, etc., on the web. Multimedia consists of audio, video which can be added to a web page. We can add audio, video and figures with the help of HTML media elements.

Adding Audio and Video

HTML can embed audio and videos directly on a web page without any external support.

- <video> element is used to add videos
- <audio> element is used to add audios

These elements are not sufficient to add the media. We need to control the media as well. So, there are several tags and attributes that are required to add the media entirely.

The <audio> and <video> are the same way the content is added to it, and only the tag name is different.

controls Attribute

The controls attribute is necessary to add **play, pause, and volume** to the audio/video. This gives you the ability to control the video and audio content.

source Tag

<source> element is used to **serve the same media content in multiple formats** so that different browsers can run any of the files that it supports. It is an empty element.

src Attribute

The src attribute is used to **specify the URL** of the media file that is needed to be played. This can have an absolute or relative path.

type Attribute

The type attribute is used to **specify the media type of the media** resource.

- Types for videos could be mp4, WMV etc.
- Types for audios could be MPEG,mp3 etc.

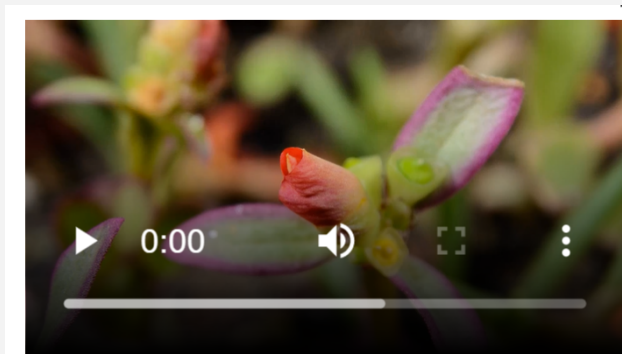**Example :** Adding a video to a web page in different supported types for different browsers

<**video** controls>
        <source src="cn.mp4" type="video/mp4">
        <source src="cn.wmv" type="video/wmv">
     Your browser does not support the video tag.
</**video**>

Output :

autoplay and muted attribute

To start a video automatically, use the autoplay attribute and muted after autoplay to let your video start playing automatically (but muted).

Example :   <**video** controls **autoplay muted**>
                <source src="cn.mp4" type="video/mp4">
                <source src="cn.wmv" type="video/wmv">
             Your browser does not support the video tag.
        </**video**>

❖ By using the height and width attribute, the video size on a web page can also be customized.

> **Example :** Adding audio to a web page in different supported types for different browsers
>
> <**audio** controls>
>   <source src="cn.avi" type="audio/avi">
>   <source src="cn.mp3" type="audio/mpeg">
>   Your browser does not support the audio element.
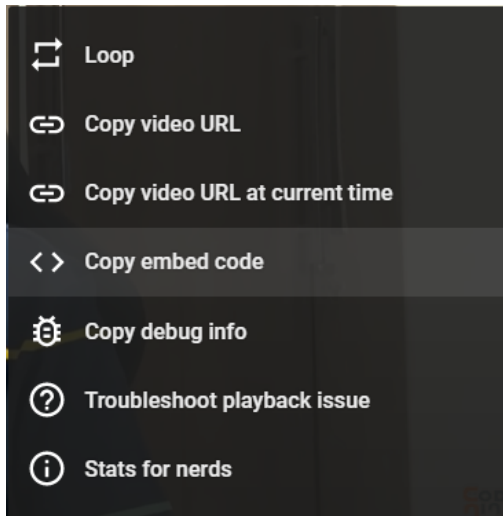> </**audio**>
>
> **Output :**

❖ Multiple source tags are used so that the audio plays if any one of the formats is supported by the browser. Else, the text message will be shown.

NOTE : Autoplay and muted can also be used for the audio element.

Adding youtube videos

Youtube videos can also be directly added to your web page using the embed video option on any youtube video.

<iframe> element is used to add the video with the **src** attribute but a shortcut to that is simply to go to any youtube video and right-click on the video, then select the copy embed code option.

Paste the code on the code editor, and the video will be added to the web page.

Example :   <**iframe** width="400" height="200"
                 src="https://www.youtube.com/embed/wDil2PGNPVI">
            </**iframe**>

Output :

NOTE : controls, autoplay and muted attributes can also be used with iframe