

# HTML Multimedia Tags

## 1. What is Multimedia?

- a. Multimedia comes in many different formats.
- b. It can be almost anything you can hear or see, like, images, sound, music, videos, records, films, animations, etc.

## 2. Types of Multimedia:

- a. HTML5 introduced 5 most popular media element tags.
  - i. `<audio>`
  - ii. `<video>`
  - iii. `<iframe>`
  - iv. `<object>`
  - v. `<embed>`

## 3. Audio Tag:

- a. The HTML `<audio>` element is used to play an audio file on a webpage.

- b. **Syntax**  $\Rightarrow$  `<audio src="Source/Path" type="audio/mp3"></audio>`

- c. **Example**  $\Rightarrow$

```
<audio  
src="/assets/legendary-bach-badinerie-house-background-music-for-vi  
deo-1-minute-239471.mp3"  
controls  
type="mp3">  
</audio>
```

#### 4. Video Tag:

a. The HTML **<video>** element is used to show a video on a webpage.

b. **Syntax** ⇒ `<video src="Source/Path" type="video/mp4"></video>`

c. **Example** ⇒

```
<video  
    src="/assets/bigbuckbunny.mp4"  
    type="mp4"  
    controls  
    autoplay  
    muted  
    height="300px"  
    width="500px"  
></video>
```

#### 5. Attributes related to multimedia tags:

a. **controls** ⇒ The controls attribute adds a audio, video controls like play, pasue and volume.

b. **muted** ⇒ It is used to mute the audio or video.

c. **autoplay** ⇒ It is used to start an audio or video file automatically.

d. **loop** ⇒ To play again and again without clicking play.

e. **<source>** ⇒ It is a alternative option for specify source for audio and video files.

#### 6. Iframe Youtube, Maps, QR code, etc:

a. HTML **<iframe>** is used to display a nested webpage inside our current webpage.

b. A webpage within a webpage.

- c. The HTML `<iframe>` tag defines an **inline frame**, hence it is also called an inline frame.
- d. An HTML iframe embeds another document within the current HTML document in a rectangular region.
- e. **Syntax**  $\Rightarrow$  `<iframe src="Source/Path"></iframe>`

**f. Iframe  $\Rightarrow$  Youtube**

- i. To display youtube videos in our webpage, we have to use the `<iframe>` tag and provide the embedded link of youtube videos inside the **src**.

- ii. Example  $\Rightarrow$

```
<iframe  
src="https://www.youtube.com/embed/FWyiYzgPNi4?si  
=oOj2Rj6d2p-qa9Me"  
frameborder="1"  
>  
</iframe>
```

**g. Iframe  $\Rightarrow$  Maps**

- i. To display google maps in our webpage, we have to use the `<iframe>` tag and provide the embedded link of google maps inside the **src**.

**h. Iframe  $\Rightarrow$  QR Code**

- i. To generate a QR code for any location or any particular website we have to use an iframe and we have to provide the link of the website in **src** along with the QR api server.
- ii. To make QR code we have to use QR api server.
- iii. With the help of this we can generate and decode/read QR code graphics.

- iv. URL ⇒ <https://api.qrserver.com/v1/create-qr-code/?size=150150&data=Example>
- v. Now replace "Example" in the URL to get a new QR code with a text chosen by you.
- vi. With the help of **<img>** tag you can also generate the QR code.

vii. **Example** ⇒

```
<iframe
    src="https://api.qrserver.com/v1/create-qr-code/?size=200x200&data=https://www.w3schools.com/html/html_forms.asp"
    width="400px"
    height="300px"
    frameborder="1"
></iframe>
```

## 7. Object:

- a. The tag defines a container for an external resource.
- b. External resources can be webpage, a picture, a media player, or plug-ins etc.
- c. Plug-ins Plug-ins are computer programs that extend the standard functionality of the browser.
- d. **Syntax** ⇒ `<object data="Path_of_type"></object>`
- e. **Note** ⇒
  - i. To embed a picture, it is a better to use **<img>** tag.
  - ii. To embed HTML, it is a better to use **<iframe>** tag.
  - iii. To embed a video or audio, it is better to use **<video>** and **<audio>** tags.

## 8. Embed:

a. It also provides the container for external resources.

b. **Syntax** ⇒

```
<embed src="path" type="media_type or page" />
```