

## Multimedia Tags

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**Multimedia tags** are HTML tags that are used to embed multimedia content such as images, videos, and audio files in a web page. These tags allow developers to add interactive and engaging elements to a website.

### Types :

#### 1. Image Tag :

The **<img>** tag is an HTML element used to embed images in a web page. It is a self-closing tag, meaning it does not require a closing tag. The **<img>** tag has several attributes that define how the image should be displayed, including the **src** attribute, which specifies the URL of the image, the **alt** attribute, which provides alternative text for the image, and the **width** and **height** attributes, which specify the dimensions of the image.

The syntax for the **img** tag is as follows:

```

```

- **src** (required) specifies the URL of the image to be displayed.
- **alt** (required) provides an alternative text description of the image for users who are visually impaired or who have images disabled in their browser.
- **width** (optional) specifies the width of the image in pixels.
- **height** (optional) specifies the height of the image in pixels.

**Note : It is an self closing tag.**

#### 2. Video Tag :

The **<video>** tag is an HTML5 element used to embed videos into a webpage. It allows the browser to display a video file natively, without requiring a third-party plugin. The **<video>** tag supports various video formats such as MP4, WebM, and Ogg.

The **controls** and **autoplay** attributes are used in the **video** tag to enable video control buttons and automatic playback, respectively.

a) The **controls** attribute adds a set of playback controls to the video player, such as play, pause, seek, and volume controls. It can be added as follows:

```
<video poster="image.jpg" controls>

  <source src="video.mp4" type="video/mp4">

</video>
```

In this syntax, the poster attribute is used to specify an image that will be displayed before the video starts playing.

b) The **autoplay** attribute, on the other hand, tells the browser to start playing the video automatically as soon as it is loaded. It can be added as follows:

```
<video src="video.mp4" autoplay></video>
```

### 3. Audio Tag :

The **audio** tag in HTML is used to embed audio files directly on a webpage. It allows developers to add audio files in various formats such as MP3, WAV, and OGG to their web pages. The audio tag supports the use of controls such as play, pause, and volume adjustment, which can be added using attributes such as autoplay, controls, and loop. The **audio** tag can also be used in conjunction with JavaScript to create interactive audio players and custom audio controls.

The syntax for the audio tag is:

```
<audio src="audio_file.mp3" controls></audio>
```

The **src** attribute specifies the URL of the audio file to be played, and the **controls** attribute displays the built-in controls for the user to play, pause, and adjust the volume of the audio. Additional attributes can also be added to the audio tag for customization purposes.

### 4. Object Tag :

The **<object>** tag in HTML is used to embed an external resource into a web page, such as an image, video, audio, PDF, or Flash animation. The resources are usually multimedia files or plugins for web browsers. The **<object>** tag contains several attributes, including data, type, width, height, and classid, which are used to specify the source and display properties of the object.

The syntax for the **object** tag:

```
<object data="url" type="mime/type">
```

```
<!-- fallback content -->
</object>
```

The **data** attribute specifies the URL of the resource to be embedded, and the **type** attribute specifies the MIME type of the resource.

Inside the **object** tag, you can include any kind of fallback content in case the media file cannot be loaded or displayed. For example, you can include text or an image that describes the content of the media file.

## 5. Embedded Tag :

The **<iframe>** tag is an example of an embedded tag in HTML. It is used to embed a webpage or a portion of a webpage into another HTML document. The **src** attribute specifies the URL of the webpage to be embedded. Other attributes such as **width**, **height**, **scrolling**, and **frameborder** can be used to customize the appearance and behavior of the embedded content . The **<iframe>** tag is commonly used for displaying content from other websites, embedding videos or maps, and creating a layout for a webpage that includes multiple sections.

The syntax for the **<iframe>** tag is:

```
<iframe src="url" width="value" height="value"></iframe>
```

- The **src** attribute specifies the URL of the document to be embedded.
- The **width** attribute specifies the width of the embedded document.
- The **height** attribute specifies the height of the embedded document.

Steps for embedding a YouTube video using an iframe:

1. Go to the YouTube website and find the video you want to embed.
2. Click on the "Share" button located beneath the video.
3. Click on the "Embed" button in the share menu.
4. Choose the video size and other customization options you prefer.
5. Copy the iframe code generated by YouTube.
6. Open your HTML document in a text editor.
7. Paste the copied iframe code into the section of your HTML document where you want the video to appear.
8. Save your HTML document and open it in a web browser to test the video playback.

Example :

HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Multimedia</title>
</head>
<body>
  <h1>Multimedia Tags</h1>

  <video width="200px" height="200px" controls poster="./image.png">
    <source src="./Woman-riding-a-horse-in-the-street-1283899.mov"
type="video/mov">
    Your browser does not support this video
  </video>

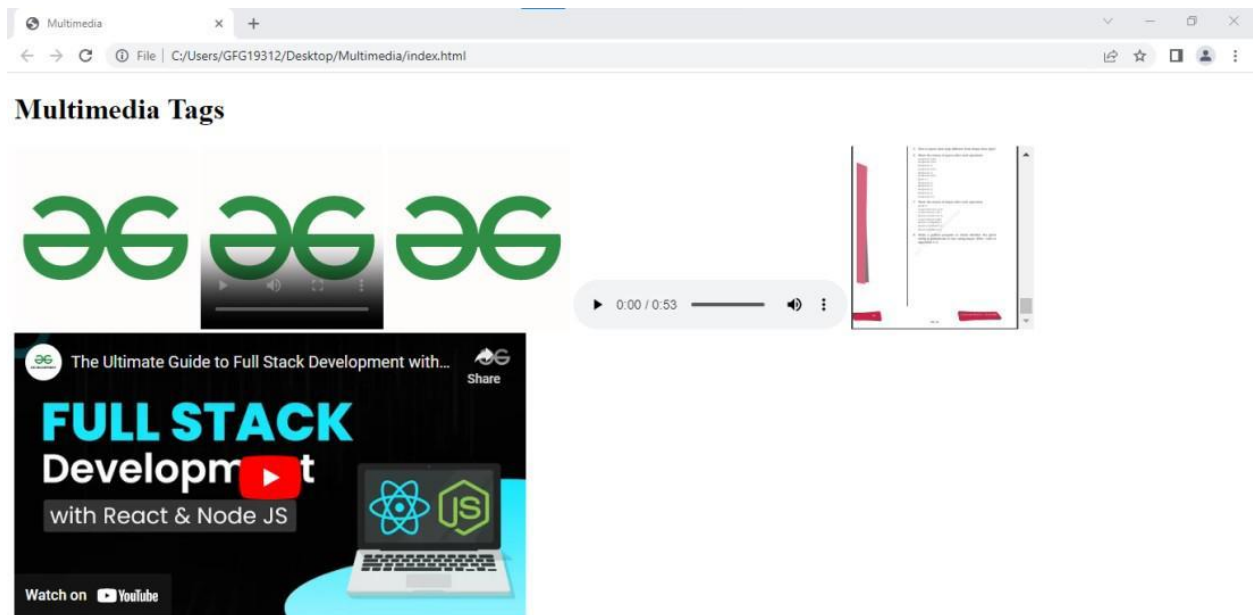
  <video width="200px" height="200px" autoplay loop poster="./image.png">
    <source src="./Woman-riding-a-horse-in-the-street-1283899.mov"
type="video/mov">
    Your browser does not support this video
  </video>

  <audio controls>
    <source src="./MA_DaniilDavydov_NeonAeon_Main.wav">
  </audio>

  <object data="./QUEUE.pdf" type="application/pdf" width="200px"
height="200px"></object>
```

```
<iframe width="560" height="315" src="https://www.youtube.com/embed/5i8ej1-
GpFU" title="YouTube video player" frameborder="0" allow="accelerometer; autoplay;
clipboard-write; encrypted-media; gyroscope; picture-in-picture; web-share"
allowfullscreen></iframe>
</body>
</html>
```

Output :



Output