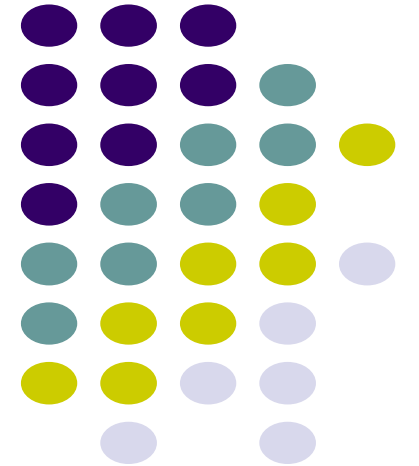# HTML Media Elements

Dr. Arul Xavier V M

HTML Media Elements

- **The <audio> tag**
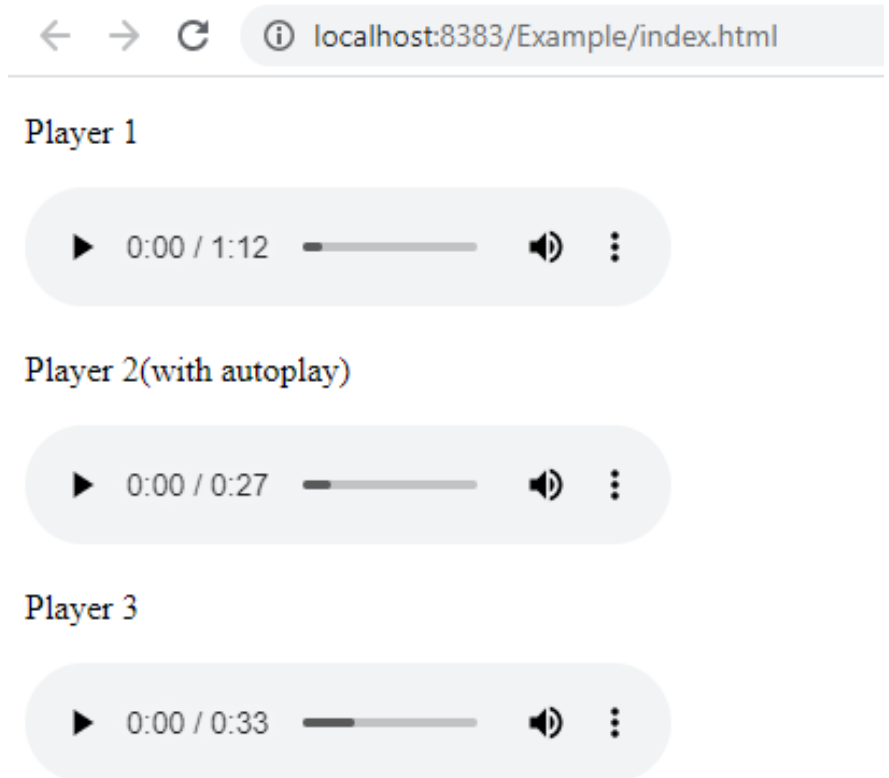 - The **<audio>** tag is used to embed sound content in a document, such as music or other audio streams.
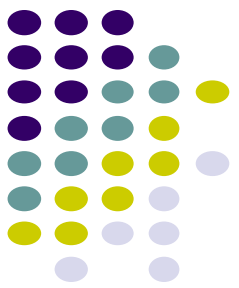
```html
<body>
    <p>Player 1</p>
     <audio src="song1.ogg" controls></audio>

    <p>Player 2(with autoplay)</p>
     <audio src="song2.mp3" controls autoplay></audio>

    <p>Player 3</p>
    <audio src="song3.wav" controls></audio>
</body>
```
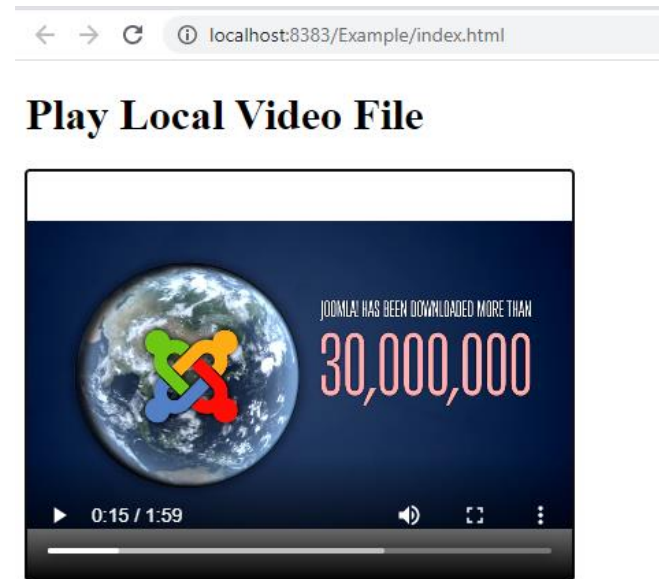
HTML Media Elements

- ## The <video> tag

  - The <video> tag is used to embed video content in a document, such as a movie clip or other video streams. The <video> tag contains one or more **<source>** tags with different video sources.
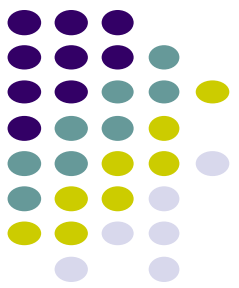
Playing a Local Video file

```
<body>
    <h1>Play Local Video File</h1>
    <video src="Sample.mp4" width="400" height="300"
          controls autoplay>
    </video>
</body>
```


Play Local Video File

Attributes	
Attribute Name	**Description**
controls	Specifies that video controls should be displayed (such as a play/pause button etc).
src	Specifies the URL of the video file
width	Sets the width of the video player
height	Sets the height of the video player
autoplay	Specifies that the video will start playing as soon as it is ready
loop	Specifies that the video will start over again, every time it is finished
poster	Specifies an image to be shown while the video is downloading

HTML Media Elements

- **Play media files using <iframe> tag**

    Example HTML code for Playing a Local Video file using <iframe> tag

```
<body>
    <h1>Play Local Video File using IFrame</h1>
    <iframe src="Sample.mp4" width="400" height="300"></iframe>
</body>
```

Playing youtube video

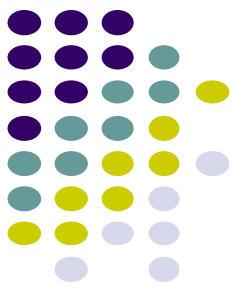## HTML code for embedding Youtube Video using <iframe> tag

- By specifying the URL of youtube video in src attribute, we can make the <iframe> tag to play any youtube videos. The URL must be in a embed mode as given below. The yellow shaded is a unique id of any youtube video.
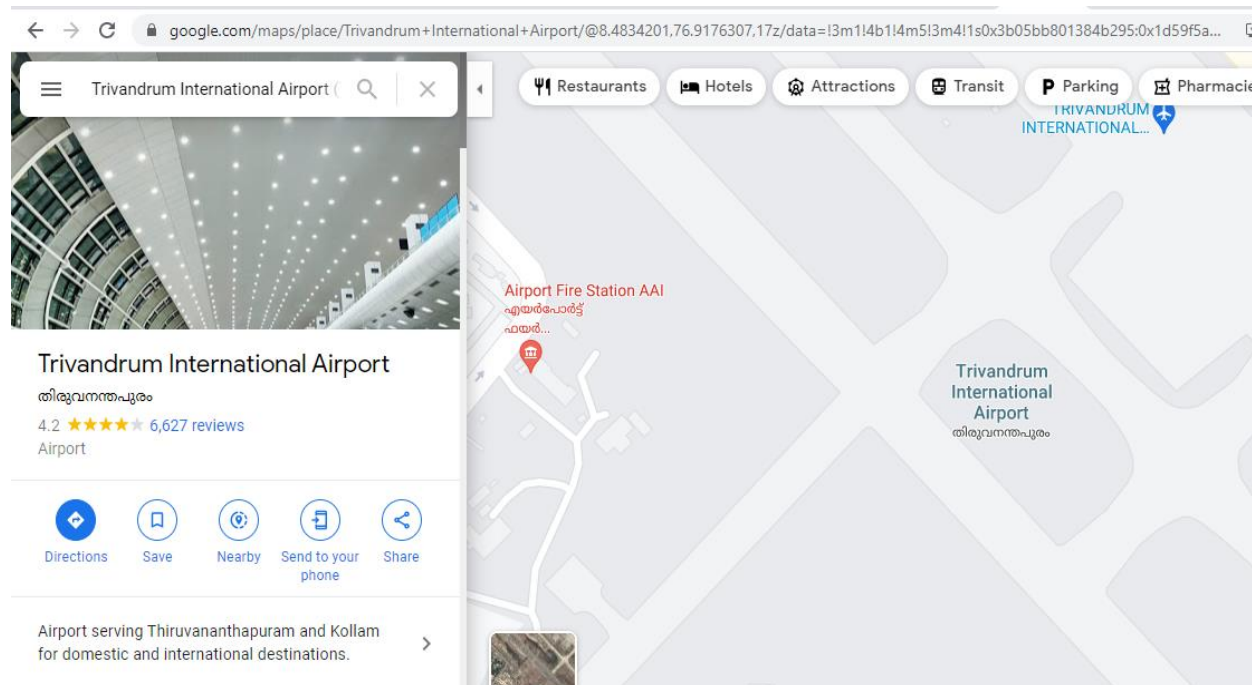
https://www.youtube.com/embed/id_of_youtube_video

```
<body>
    <h1>Play Youtube Video using IFrame</h1>
    <iframe src="https://www.youtube.com/embed/tgbNymZ7vqY" width="400" height="300">
    </iframe>
</body>
```
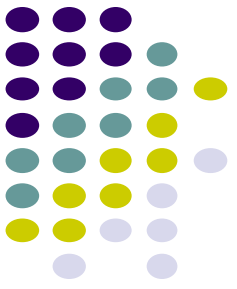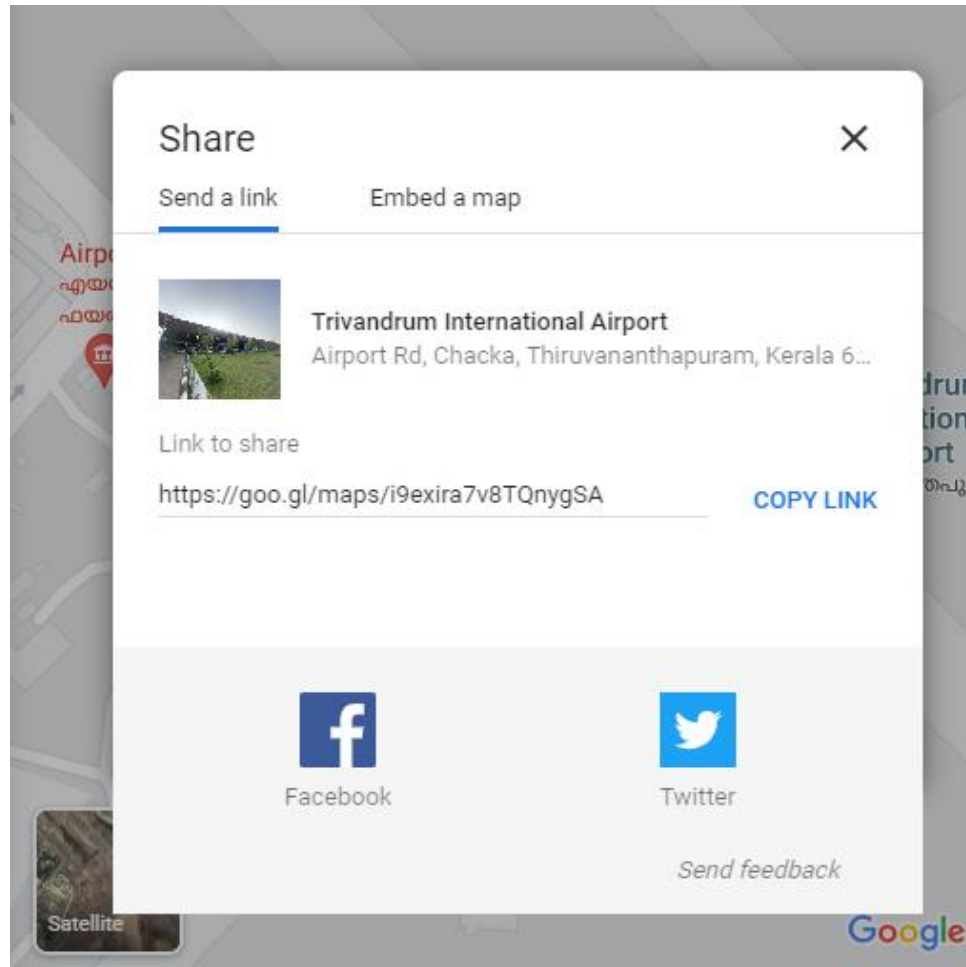
Embedding Google Map using <iframe> Tag

- The Maps Embed API lets you place an interactive map, or Street View panorama on your web page with a simple HTTP request; no JavaScript required.

- You can set the Maps Embed API URL as the src attribute of an iframe

- The following steps can be used to get the full <iframe> HTML code from google map

1. Go to https://www.google.com/maps

2.Then search a particular location, for example assume that we want to search the Airport at Thiruvananthapuram. You will be getting something like this
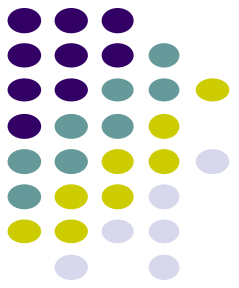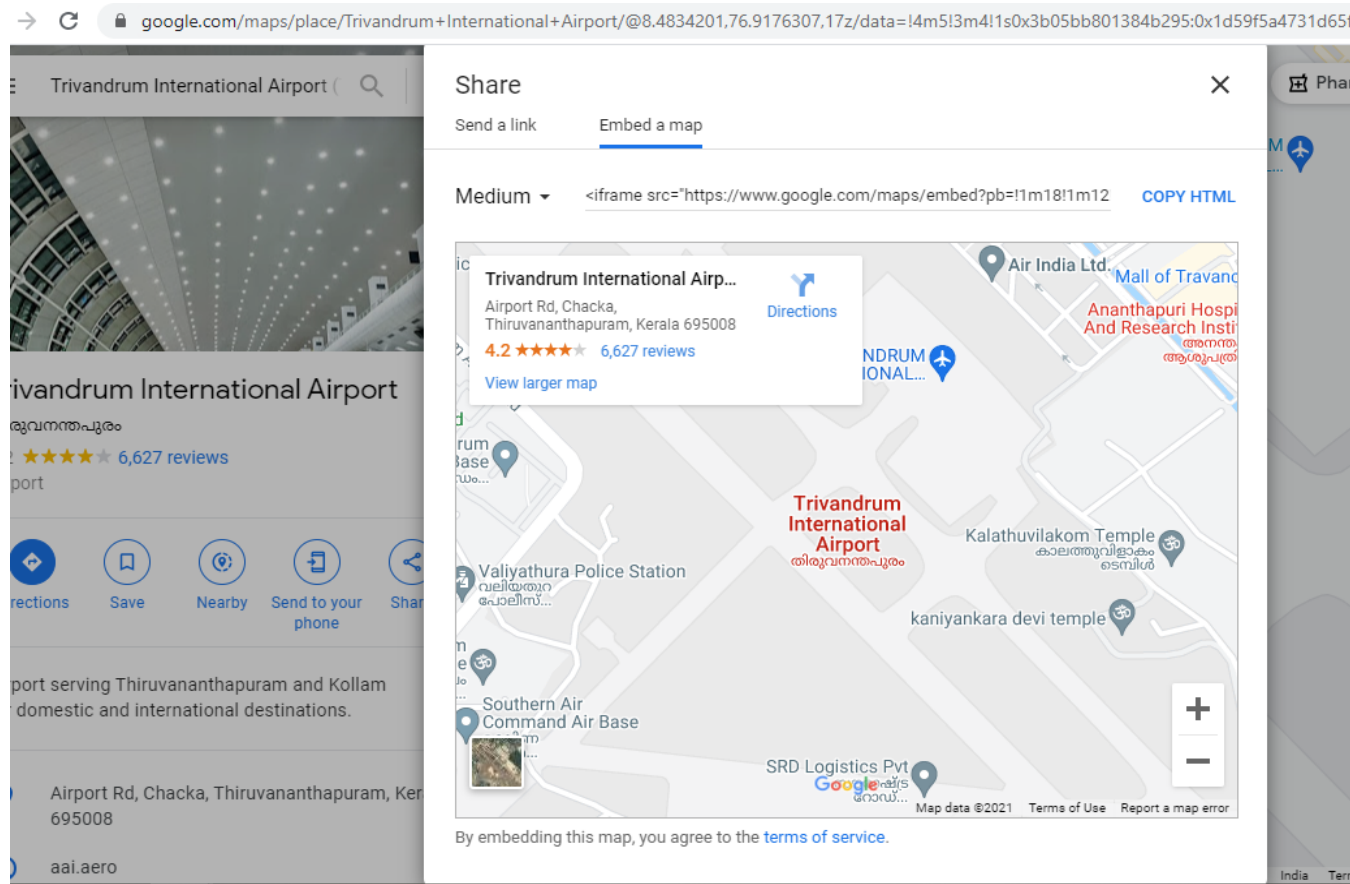
Embedding Google Map using <iframe> Tag

3. Click on the share button on left side. You will be getting like this.

Embedding Google Map using <iframe> Tag

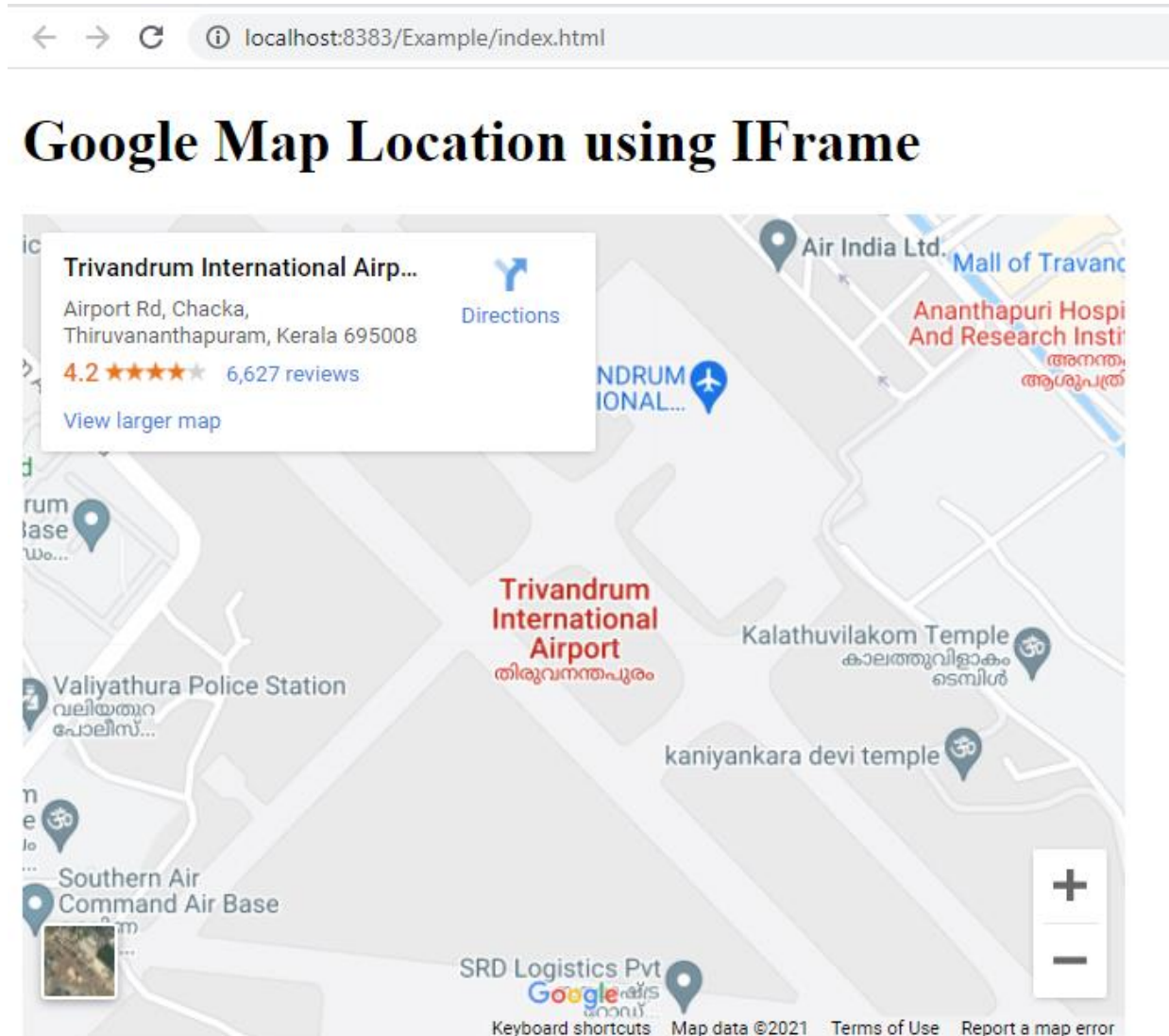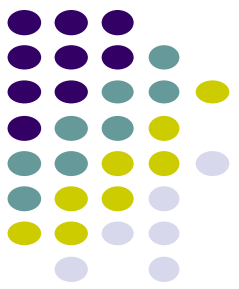- Select the Embed a map and we get the following

Embedding Google Map using <iframe> Tag

Click on Copy HTML, you will be getting the full iframe code which you can embed in your HTML program as given below.

```
<body>
  <h1>Google Map Location using IFrame</h1>
  <iframe
    src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d3946.164098816057!2d76.91763071398455!3d8.483420093900488!2m3!1f0!2f0!3f0!3m2!1i1024!2i768!4f13.1!3m3!1m2!1s0x3b05bb801384b295%3A0x1d59f5a4731d65f7!2sTrivandrum%20International%20Airport!5e0!3m2!1sen!2sin!4v1622665172477!5m2!1sen!2sin" width="600" height="450"
    style="border:0;" allowfullscreen="" loading="lazy">
  </iframe>
</body>
```

Google Map in HTML Page - Output

Display PDF file using <iframe>

```html
<!DOCTYPE html>
<html>
    <head>
        <title>TODO supply a title</title>
        <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
    </head>
    <body>
        <h1>Academic Calendar</h1>
        <iframe src="calendar.pdf" width="700" height="500"></iframe>
    </body>
</html>
```

<embed> tag

- **<embed>** tag can also be used to play youtube videos.

```html
<h1>You tube video - using embed tag</h1>
<embed src="https://www.youtube.com/v/spyGgSmvJnw" width="500" height="400">
```