

# Training Day 6 Report

3 July 2025

## What Is “Embedding”?

**Embedding** refers to the practice of integrating external content directly into your webpage—such as videos, tweets, maps, or audio—so that it’s displayed inline rather than requiring users to click a link and navigate away . For example, embedding a YouTube video involves copying the `<iframe>` snippet that YouTube provides and pasting it into your HTML. This makes the video playable directly on your site while still pulling from YouTube’s servers—a setup that reduces your bandwidth load and ensures your content stays current

## Benefits:

The main advantage is that embedding enhances user engagement by keeping visitors on your page and delivering dynamic, interactive content right where they are—a smoother experience compared to redirecting them away . Plus, because the embedded content updates automatically with its source—like a Twitter post or Spotify playlist—it’s effortlessly kept up to date. However, it’s important to be mindful of performance, privacy, and legal implications—embedding third-party scripts may slow your site, involve cookies or tracking, and sometimes requires explicit permission depending on copyright or platform policies

- Keeps users **on your site** (no redirect)
- Enhances **engagement** with dynamic and interactive content
- Offloads hosting and file handling; embedded content **updates automatically**
- 

## Embedding with HTML Tags

### 1. `<img>` (Image)

```

```

- `src`: path to image
- `alt`: fallback text & accessibility
- `width` / `height`: control dimensions

### 2. `<video>` (Video)

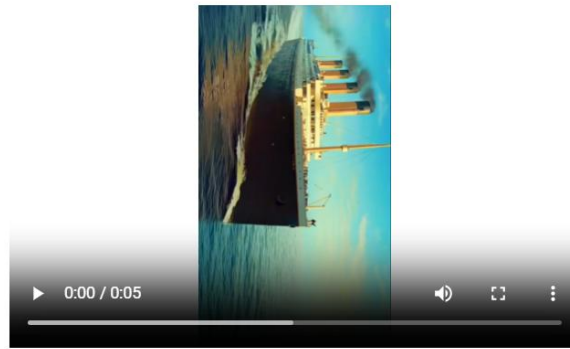
```
<video controls autoplay loop muted width="600" height="400" poster="poster.jpg">
```

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

```
<source src="video.webm" type="video/webm">
```

Your browser does not support the video tag.

#### Internal Videos



</video>

- Attributes: controls, autoplay, loop, muted, poster, width, height
- Multiple <source> tags allow fallback

### 3. <audio> (Audio)

```
<audio controls autoplay loop muted preload="metadata" src="audio.mp3">
```

Your browser does not support the audio tag.

```
</audio>
```

- Attributes: controls, autoplay, loop, muted, preload (auto, metadata, none)
- Optional src or nested <source> tags

### 4. <iframe> (Inline Frame)

```
<iframe
```

```
src=https://www.youtube.com/embed/VIDEO\_ID width="560" height="315"
```

```
title="YouTube video player" frameborder="0" allow="accelerometer; autoplay;  
allowfullscreen loading="lazy" sandbox="allow-scripts allow-forms">
```

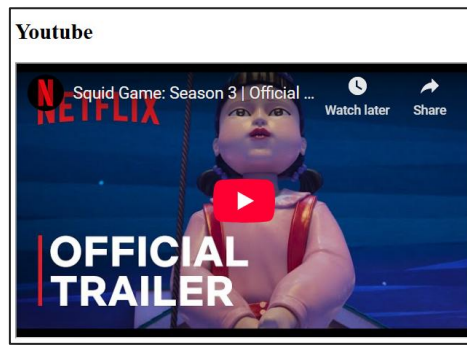
```
</iframe>
```

- Embeds **another web page or platform** (YouTube, Google Maps, etc.)
- Attributes:
  - src, width, height, title
  - frameborder (legacy), allowfullscreen
  - loading: lazy or eager
  - sandbox: restricts capabilities (allow-scripts, allow-forms, allow-popups)
- Ideal for dynamic external content (maps, videos, social posts)

## Real-World Use Cases

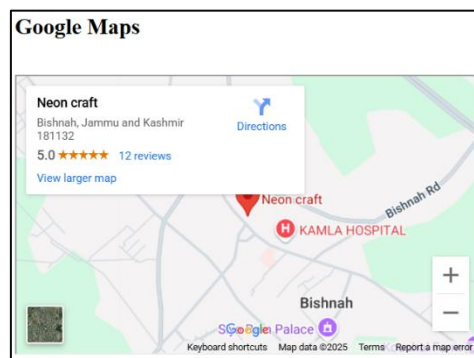
- **YouTube Video:**

```
<iframe src=https://www.youtube.com/embed/VIDEO\_ID width="560" height="315"  
frameborder="0" allowfullscreen loading="lazy" title="YouTube Video"></iframe>
```



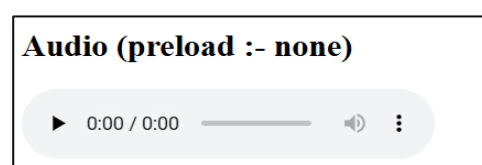
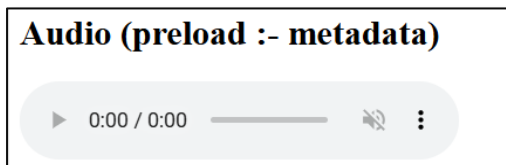
- **Google Map:**

```
<iframe src="https://www.google.com/maps/embed?pb=..."width="600" height="450" style="border:0" allowfullscreen loading="lazy" title="Our Location"></iframe>
```



- **Audio Playback:**

```
<audio controls preload="auto" src="track.mp3"></audio>
```



## Table

Tag	Use Case	Key Attributes
<img>	Images	src, alt, width, height
<video>	Videos	src/<source>, controls, autoplay, loop, muted, poster, width, height
<audio>	Audio files	src/<source>, controls, autoplay, loop, muted, preload
<iframe>	Web pages, maps, widgets	src, title, loading, sandbox, allowfullscreen