# OIM3690 - Web Technologies



### Multimedia and Embedding

#### Linking

- After clicking, the file is opened in full window or asked to be downloaded
- Linking to a YouTube video
  - Copy the URL and paste it in an <a> tag
  - Example:

```
<a href="https://www.youtube.com/watch?v=dQw4w9WgXcQ">Ed Sheeran - Shape of You</a>
```

- Linking to a file
  - Examples:

```
<a href="https://www.w3.org/WAI/ER/tests/xhtml/testfiles/resources/pdf/dummy.pdf">dummy.pdf</a>
<a href="README.md">README</a>
```

#### **Embedding**

- An embedded object inside part of your page
  - can be positioned or floated with styles
  - e.g. embedding a YouTube video
- A variety of tags:
  - < <audio> , <video> (new in HTML5)
  - < <iframe> (commonly used)
  - o <object> / <embed> (going out of fashion)
  - <canvas> (to draw graphics and animations)
  - <svg> (to draw 2D-based vector graphics)

#### <audio> and <video>

- Attributes:
  - autoplay="autoplay" | autoplay (starts on page load)
  - loop="loop" (plays continuously)
  - controls="controls" (displays controls)
  - o src="path/to/file" (similar to src for <img>)
  - o height and width (for <video> only)
- </audio> and </video> are required
- supported media formats

#### <audio> and <video> example

<audio>

```
<audio autoplay controls src="media/mymusic.mp3">
Your browser does not support the <code>audio</code> element.
</audio>
```

<video>

<video controls muted src="media/kittens.mp4" height="300"></video>

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#### <iframe>

- HTML Inline Frame element
  - represents a nested browsing context
  - embedding another HTML page into the current one
  - many security concerns
- Examples:
  - Embedding a web page

```
<iframe src="index.html" frameborder="0" width="800"></iframe>
```

- Embedding YouTube/Vimeo video, Google map, Spotify/SoundCloud playlist
- Note: embedding twitter/instagram is different

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#### <svg>

- Scalable Vector Graphics (SVG)
  - an XML-based markup language for describing two-dimensional based vector graphics
  - SVG is, essentially, to graphics what HTML is to text.
- Let's find out the SVG logo of CNN.com

#### Two Types of Images - Raster vs. Vector

- Raster images are defined using a grid of pixels
  - .bmp , .png , .jpg , .gif
- Vector images are defined using algorithms
  - A vector image file contains shape and path definitions.
  - Check out the difference: vector-versus-raster.html
- More Resources on SVG
  - SVG tutorial on MDN
  - SVG examples on W3Schools

## Questions?

