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)
 - <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)
 - 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>

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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?

