## MIS3690 WEB TECHNOLOGIES

BABSON COLLEGE
TOIM DIVISION

# MULTIMEDIA OBJECTS

## EMBEDDING VS. LINKING

- Linking
  - Any type of file
  - But that file becomes the full window
- Embedding
  - Application is embedded in your page
  - Complicated because app must run inside the browser window in the space you've allocated

## LINKING TO A YOUTUBE VIDEO

Copy the url and paste it in an <a> tag

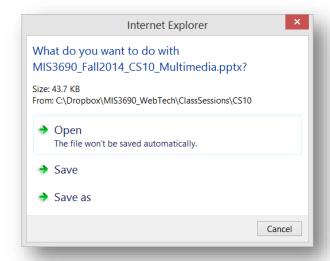
<a href="https://www.youtube.com/watch?v=JGwWNGJdvx8">Ed
Sheeran - Shape of You [Official Video]</a>

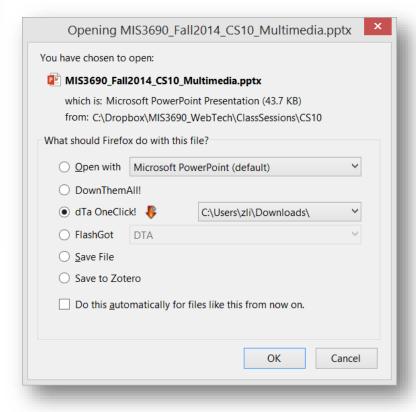
## LINKING TO A FILE

#### **E**xample:

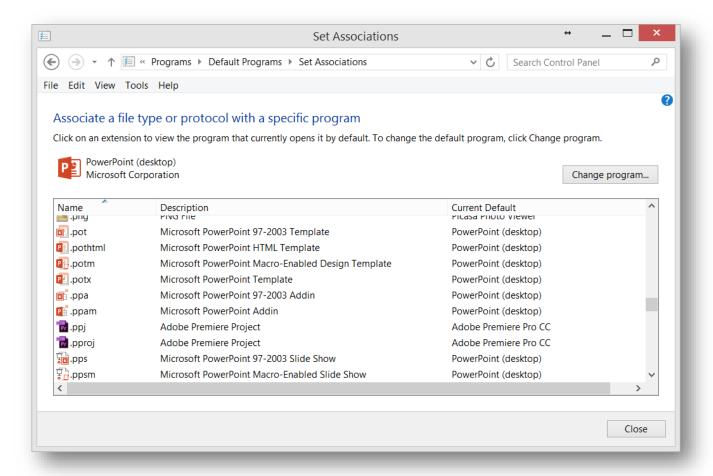
```
<a
href="file:\\C:\Dropbox\MIS3690_WebTech\ClassSessions\CS10.
pptx">ppt</a>
```

## LINKING EXAMPLE – ON RUN





## CONTROLLING HOW LINKED FILE RUNS



## EMBEDDING OBJECTS

- An embedded object runs inside a little window on your page
- It can be positioned or floated with styles
- Example: a typical YouTube video
- There are a variety of tags you can use for this:
  - <audio>
  - <video>
  - <iframe>
  - <object>
  - <embed>

## <AUDIO> & <VIDEO>

- New to HTML in HTML5
- Intended to replace the need for browser plugins that some users have and others do not
- Internet Explorer 9+, Firefox, Opera, Chrome, and Safari support the <audio> and <video> element.

### <AUDIO> AND <VIDEO>

- Optional attributes
  - autoplay="autoplay" (starts on page load)
  - loop="loop" (plays continuously)
  - controls="controls" (displays controls)
  - preload = "auto" (preloads file on page load) or "meta" (just preloads metadata)
  - src: the url of the source. If not included, you must specify the source with a <source> tag (see next page)
  - For <video>, height and width
- </audio> and </video> are required

### THE <SOURCE> TAG

- Provides alternative sources of audio and video between the opening and closing tags.
  - Example:

- When multiple source tags exist, first one supported by your browser will be the one used
- src attribute provides the url or file name
- For type attribute, see next page

## TYPES FOR THE <SOURCE> TAG

#### For video:

File Format	Media Type
MP4	video/mp4
WebM	video/webm
Ogg	video/ogg

#### For audio:

File Format	Media Type
MP3	audio/mpeg
Ogg	audio/ogg
Wav	audio/wav

## <AUDIO> <VIDEO> ASSESSMENT

- Standards are still evolving.
- Disagreements exist about whether standard should include only patent-free formats
- The wave of the future.
  - Pundits expect that in two years, all browsers will be compliant and eliminate use of Flash, Quicktime, Real, etc.

### THE <IFRAME> TAG

- <iframe> creates an inline frame in which another document (perhaps multimedia) can be placed
- Works for YouTube videos
  - In YouTube, click on "Share" and then "Embed"
  - Copy code
  - Remove type, allowfullscreen, and frameborder attributes, which are not standard HTML5

## OTHER < IFRAME > FILE TYPES

- The following file types will work in an iframe on Firefox, IE 9, Chrome, and Safari
  - swf
  - wav
  - mp3

### EMBEDDING A SOUNDCLOUD AUDIO

```
<iframe width="50%" scrolling="no" frameborder="no"
src="https://w.soundcloud.com/player/?url=https%3A//api.soundcloud.com/tracks/66424164&amp;auto_play=false&amp;hide_related=false&amp;show_comments=true&amp;show_user=true&amp;show_reposts=false&amp;visual=true">
</iframe>
```

An embedded object runs inside a little window on your page

## EMBEDDING OBJECTS

- An embedded object runs inside a little window on your page
- It can be positioned or floated with styles
- To do this you need the tag:

- This tag has attributes
- You can also specify "parameters" within the object tag.

## TYPICAL EMBEDDED OBJECTS

- Movie or recording
  - Windows media player
  - QuickTime
  - Flash
  - YouTube videos
  - Mp3

## ATTRIBUTES OF <OBJECT>

- width: specifies the width of the window in which the object is viewed
- height: specifies the height of the window in which the object is viewed
- type: used to specify the type of multimedia
- data: used to specify the file to play/open
- classid: a unique attribute used to specify the software for multi-media (Not supported in HTML5.)
- and there are more...

## **OBJECT PARAMETERS**

- Each object type has different parameters that control its function
- Parameters are placed between the <object> and </object> tags
- Parameter tag:

```
<param name="name" value="..." />
```

## **EXAMPLE OF PARAMETERS**

```
<param name="autostart" value="true" />
```

Starts the object when the page loads

```
<param name="URL" value="http://..." />
```

The URL or the file name where the movie or recording can be found

## **EMBEDDING FLASH**

**E**xample:

http://www.w3schools.com/html/tryit.asp?filename=tryhtml\_object\_plugin

### **EMBEDDING PDF**

```
<object data="test.pdf" height="800px" type="application/pdf"
width="100%">
```

>

It appears you don't have a PDF plugin for this browser. You can <a href="test.pdf">click here to download the PDF file.</a>

</object>

### **AUTOMATIC SLIDESHOW**

- Example: Auto play 4 webpages, tiger I.htm, tiger 2.htm, tiger 3.htm and tiger 4.htm
  - In page I.html, in the head section, add the following meta tag

```
<meta http-equiv="refresh" content="3; url=tiger2.htm" />
```

- Content = "n" where n is the number of seconds the page should stay on the screen
- url="nextpage.html" where nextpage.html is the next web page to be displayed
- After 5 seconds, tiger2.html will automatically be loaded.
- In tiger2.htm, in the head section, add the following meta tag
  <meta http-equiv="refresh" content="3; url=tiger3.htm" />
- After 5 seconds, tiger3.htm will automatically be loaded.
- And so on...