

## WEEK 10 – AUDIO, VIDEO, AJAX, APIS, SASS

**GA** GENERAL ASSEMBLY

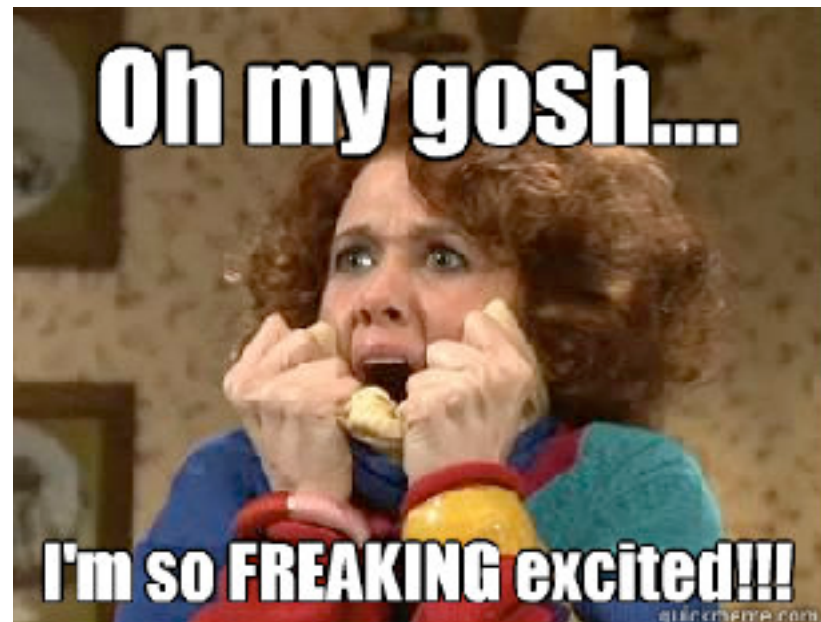
# FEWD



Joe Bliss

## HTML5 VIDEO

With the `<video>` tag, we can embed video directly on our site without needing to utilize flash. Huzzah!



# HTML5 VIDEO

`<video>`

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

`</video>`

# HTML5 VIDEO

Or with controls:

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

And with a background (aka "poster") image:

```
<video controls="controls" poster="img/videoimage.png">  
    <source src="media/video.mp4" type="video/mp4">  
</video>
```

# HTML5 VIDEO

You can also loop and autoplay:

```
<video controls="controls" loop="loop" autoplay="autoplay">  
  <source src="media/video.mp4" type="video/mp4">  
</video>
```

You can also eliminate the need for the attribute name="value" pairs when they are the same:

```
<video controls loop autoplay>  
  <source src="media/video.mp4" type="video/mp4">  
</video>
```

# HTML5 VIDEO

You can also provide a fallback for an older browser:

```
<video controls loop autoplay>  
  <source src="media/video.mp4" type="video/mp4">  
  <p>Your stupid browser doesn't support the video tag</p>  
</video>
```

# **CODEALONG – TECHNOLOGY SOLUTIONS**

Add a Video background to Technology Solutions website.

# **AN EASIER WAY TO INCLUDE VIDEO**

If you have your video hosted somewhere else, you can usually embed it on your page with an iframe.



# IFRAME

An iframe is basically a way for us to "quote" a website within another website.

In practice, we can use this to embed media / pages from various services like:

- Youtube
- Vimeo
- Soundcloud
- Spotify

# HTML5 AUDIO

Works very similarly to HTML5 Video:

```
<audio controls>
```

```
  <source src="media/finalcountdown.mp3" type="audio/mpeg">
```

```
</audio>
```

# **CODEALONG - PACMAN SOUNDTRACK**

Add an audio file to the game.

Use the "autoplay" and "loop" attributes to enhance the experience.

Create a button to turn the audio on and off.

# **API'S**

An “Application Programming Interface”, a list of commands as well as the format of those commands that one program can send to another.

Companies create API's to expose data that developers can then build applications off of.

In practice, it is a url that you can access via a JavaScript AJAX request that will give you data that you can then manipulate on your website.

# **API'S**

Weather

Github

Google Maps

Twitter

Instagram

Flickr

Giphy

Etc.

## **CODEALONG – API WEATHER**

Get and display the real-time weather for a particular location.

# **CODEALONG – TECHNOLOGY SOLUTIONS**

Add a Google Map to the Technology Solutions website.

## **CODEALONG – SLACKER APP**

Add “/giphy” ability to the Slacker App.



# SASS

Sass is what is referred-to as a CSS Preprocessor (see also LESS). Basically, you write code in Sass, and it exports CSS.

It makes dealing with large stylesheets way easier.

<http://sass-lang.com/>



## **CODEALONG – SASS**

Let's get SASS set-up on our computers and use it to make one of our existing stylesheets much easier to deal with.