WEEK 8 – INSTRUCTOR'S CHOICE

CA GENERAL ASSEMBLY

FEWD

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AGENDA

Startup Matchmaker Review
Video / Audio
Forms
jQuery Plugins

Optimist   Pesimist   Realist   Me

STARTUP MATCHMAKER

Let's review, shall we?

HTML5 VIDEO

```
<video width="540" height="360">
    <source src="media/video.mp4" type="video/mp4">
</video>
```
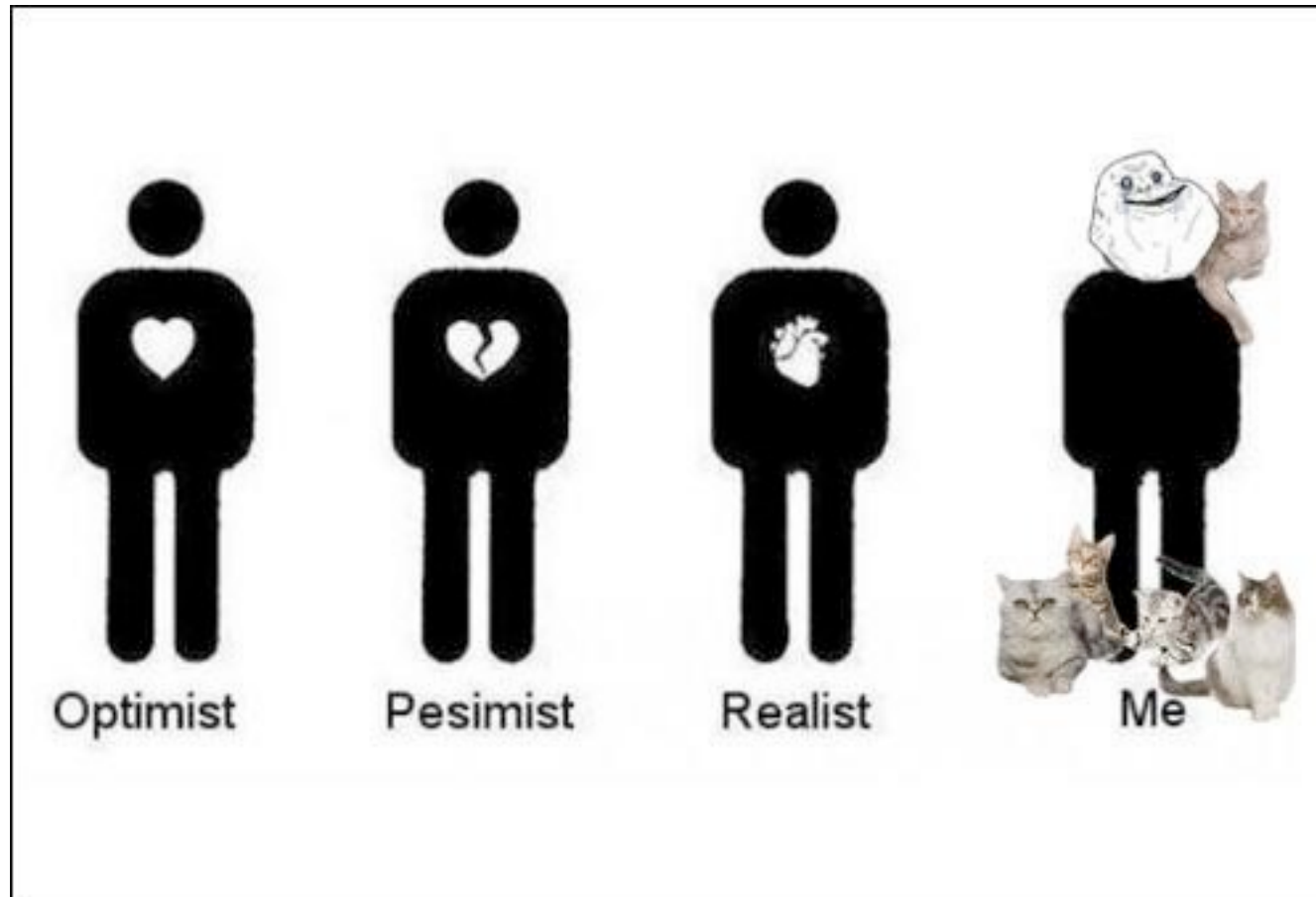
Or with controls:
```
<video width="540" height="360" controls>
    <source src="media/video.mp4" type="video/mp4">
</video>
```

THE GOOD

We have video on our site without having to embed a disgusting flash player!!

Now open it in ... anything besides Safari or Chrome.

THE BAD

Older browsers don't support <video>

Only the most recent versions of the big five (Firefox, Chrome, Safari, IE, Opera) support <video>.

Newer browsers don't support the same codecs

H.264 - Chrome, Safari, and IE9,

Ogg - Firefox and Opera

WebM - The new standard (though not highly adopted yet)

http://johndyer.name/simple-cross-browser-html5-video-with-a-single-h-264-file-and-fallback-options/

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THE UGLY

Creating fallbacks requires complicated code and multiple video files:

```
<video controls poster="images/big-buck-bunny_poster.jpg" width="540" height="360">
    <source src="media/big_buck_bunny.mp4" type="video/mp4">
    <source src="media/big_buck_bunny.webm" type="video/webm">
    <source src="media/big_buck_bunny.ogv" type="video/ogg">
    <object type="application/x-shockwave-flash" data="http://releases.flowplayer.org/swf/
flowplayer-3.2.1.swf" width="540" height="360">
        <param name="movie" value="http://releases.flowplayer.org/swf/flowplayer-3.2.1.swf">
        <param name="allowFullScreen" value="true">
        <param name="wmode" value="transparent">
        <param name="flashVars" value="config={'playlist':['http%3A%2F%2Fsandbox.thewikies.com
%2Fvfe-generator%2Fimages%2Fbig-buck-bunny_poster.jpg',{'url':'http%3A%2F%2Fclips.vorwaerts-
gmbh.de%2Fbig_buck_bunny.mp4','autoPlay':false}]}">
        <img alt="Big Buck Bunny" src="images/big-buck-bunny_poster.jpg" width="540"
height="360" title="No video playback capabilities, please download the video below">
    </object>
</video>
```

http://johndyer.name/simple-cross-browser-html5-video-with-a-single-h-264-file-and-fallback-options/

OPTIONS FOR CROSS-BROWSER VIDEO

1 - Use YouTube, Vimeo, or a service like Wistia (wistia.com), as they do all of the detecting and serving for you.

2 - Create your own video fallbacks and do it yourself!

CODEALONG – CROSS BROWSER VIDEO

Step 1: Download the Miro Video Converter
http://www.mirovideoconverter.com/

Step 2: Transcode 3 copies of your video:
mp4, ogg, webm

Step 3: Create a "Fallback" image for your video.

Step 4: Plug-in your values to the following:
http://v4e.thewikies.com/
For the flash fallback to work, your url's must be ABSOLUTE

Step 5: Paste code into your site.

http://camendesign.com/code/video_for_everybody

HTML5 AUDIO

Works very similarly to HTML5 Video:

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

HTML5 AUDIO

As before, certain browsers only support certain types.

Chrome, Safari, IE - MP3
(older versions of)Firefox, Opera - OGG

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

CODEALONG – PACMAN SOUNDTRACK

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

FORMS

How we get
data from users.

IN RARE <FORM>

Wrapper for data collection elements
- Text Fields
- Dropdowns
- Radio Buttons
- Check Boxes

Similar to a <ul>, the <ul> doesn't have any inherent use, but it encapsulates the list items within it.

GOOD <FORM>

<form action="register.php" method="post" enctype="multipart/form-data">
    <!--Data collection elements go here-->
</form>

Tells the page:

Where to send the data (action)

How to send it (method)

What is being sent (enctype)

The action attribute is generally pointing to a file on the server to show it to process the form data.

FORMS – TYPES OF INPUT

<input type="text" name="username">
- Standard text input

<input type="password" name="password">
- "Masked" text input

FORMS – TYPES OF INPUT

<input type="radio" name="mood" value="happy">Happy
<input type="radio" name="mood" value="happy">Happy
- Radio buttons, only one selection

<input type="checkbox" name="vehicle" value="Bike">
<input type="checkbox" name="vehicle" value="Car">
<input type="checkbox" name="vehicle" value="Dog">
- Checkboxes, many possible selections

FORMS – TYPES OF INPUT

<textarea name="message"></textarea>
- Larger text input

<select name="degree">
<option>High School</option>
<option>Bachelor's</option>
<option>Master's</option>
</select>
- List of options

FORMS – TYPES OF INPUT

<input type="submit" name="submit" value="Submit">
- Submit button
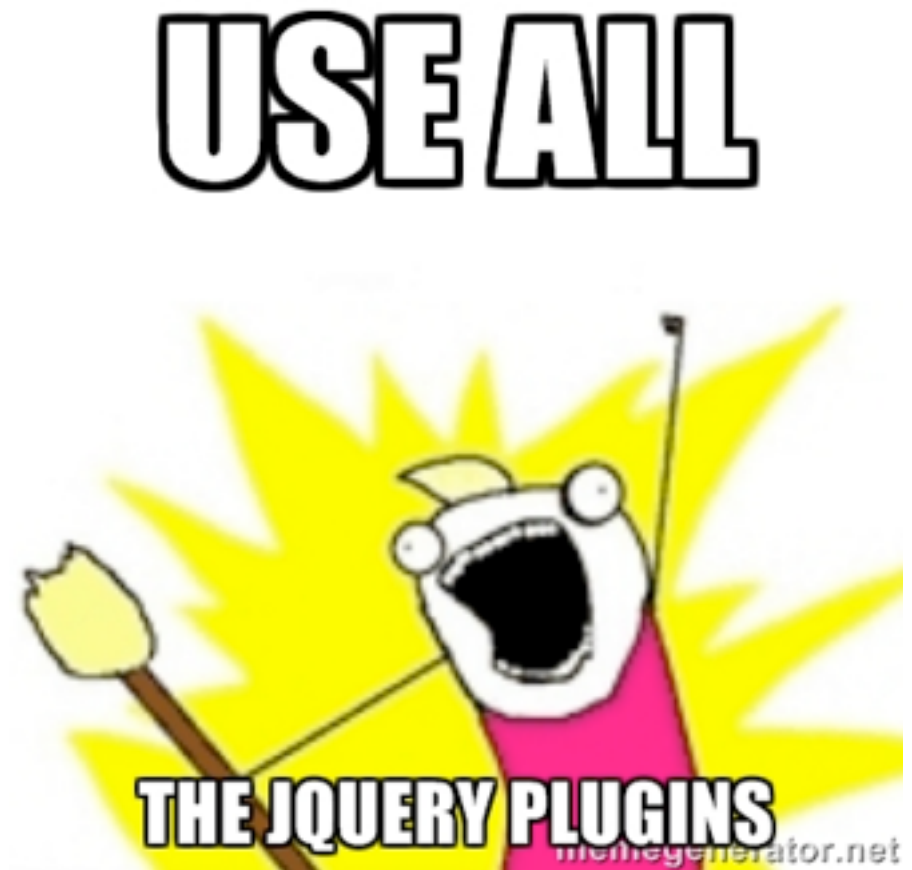
CODEALONG – BASIC FORM

Processing, Validation

FORMS WITH PROCESSING

Take a look at the form I'm using on josephjbliss.com

JQUERY PLUGINS

We have already used the easing plugin. We have so many plugins that other people have made and spend time actively developing. Why not use some of them?

COLOR ANIMATIONS

http://www.bitstorm.org/jquery/color-animation/

Previously, we had no way to animate a color. This plugin let's us animate (for example) the following:

- ‣ color
- ‣ backgroundColor
- ‣ borderColor

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JQUERY UI

https://jqueryui.com/

A bunch of pre-built "cool stuff" - widgets, sliders, modals, datepickers, etc.

Let's take a look.

mmmmmm .... sliders

CODEALONG – COLOR ANIMATION

Let's have the sliders change the color in the small box. On accepting, we will animate the background color of the entire page.

FANCYBOX

"REAL" PROJECT WORKFLOW

I will have a "handout" for you.

FINAL CLASS

Principles of Version Control

GitHub Mini-Tutorial

Principles of Content Management Systems

Next Steps …

FINAL PROJECT PRESENTATIONS!