DEV343 Demos

# NOTE: MAKE SURE EVERYTHING HAS BEEN REVERTED TO START!

# Semantic Markup

1. **Show off VS 2010 Features** (HTML5 Schema, Intellisense)
   1. File| New MVC3 Application
      1. Show that the MVC3 Tools update includes the ability to select an Html5 Markup option
   2. In Main Application, go to “Tools | Options” 🡪 “HTML | Validation” and change the target to HTML5.
   3. Open the HTML5 Page and show intellisense for aside tag and other HTML5 tags
2. **HTML5 Schema**
   1. Open XHTML.htm and show old way of writing markup
   2. Open HTML5.htm and copy in snippet
   3. Run and show in F12 how the browser adds the markup we are missing
   4. Use the snippet to add it anyway to be a good citizen
3. **Basic Blog Page**
   1. Open up BlogPage.htm and copy in snippet
   2. Show off all the new types
   3. Open css/style and show how we are styling all of those types
   4. Run the site
4. **Run the site in IE8 and show it broken**
   1. F12 change document mode to IE8
   2. Rounded corners are gone, everything is unstyled
5. **Modernizr and Polyfills**
   1. Show modernizr-1.7.js in the JS folder, then drag a reference to BlogPage.htm
   2. Refresh the page and show that things have gotten a little bit better because Modernizr has added all of the HTML elements to the DOM so that my styles will show up properly.
   3. But I still don’t have rounded corners. To get rounded corners, I can go a step further.
      1. First add the jQuery snippet to load jQuery from the MS CDN
      2. Add in the snippet to check Modernizr for the borderradius property and add the plugin if it’s not supported.
      3. Run the site again and show the new rounded corners. Go to the network tab and turn on capturing. Show that the plugin is downloaded. Change the document mode back and show how the script isn’t loaded.
6. **Demo F12 Developer tools in IE9**
   1. Show that we’ve looked at the network tab and the html tab, as well as the ability to change the Document mode and browser mode.
   2. Show that modernizr is minified and that this is a big problem when debugging production issues. Show the Tools, Format JavaScript option.

# Canvas and SVG

1. **Canvas Paintball Demo**
   1. <http://ie.microsoft.com/testdrive/Performance/Paintball/Default.html>
   2. Hit F12 and show off the canvas element
2. **[IF FAST] Create a simple canvas that we manipulate ourselves**
   1. Open StickFigure.htm and walk through the code.
3. **Data Vizualization with Canvas**
   1. Open Chart.html and show the table with the charting data we have. Run it with no styling
   2. Add jquery, visualize.jquery and the two Stylesheets
   3. Add the script snippet to call visualize and run the page
   4. Hit F12 and show that there is a <canvas> element here in the background.
   5. Change the Document Type to IE8 and show the JS Error that happens when getContext() is called.
   6. Drag a modernizr.js reference into the page
   7. Modify the script to check for Canvas and show a message if not.
   8. Comment on how this canvas method is accessible because the main data still exists on the page
4. **SVG**
   1. Open SVG.html and show the two xml-based elements
   2. Run the page
   3. Now add CSS to style them, and set the fill property on the Style logo
   4. [IF FAST] Talk about the –ms-transform property and box-shadow

# Audio and Video

1. **Show off WebMatrix HTML5 Features**
   1. Open Demos site as a WebMatrix Site
   2. Create a new page called Video.html
   3. Show the default HTML5 markup in WebMatrix
2. **Add Full Video Tag**
   1. Discuss serving videos properly into web.config via Mime Mappings
   2. Add Text Snippet “No Video for You” in the element.
3. **JavaScript to Manipulate Video**
   1. Add Script to play, pause and speed up when I click the video
   2. [IF FAST] Add some script to figure out if I can play this video or not
      1. Show canPlayType with just the mp4 type (maybe)
      2. Show canPlayType with a codec (probably)
4. **Show IE8 with no fallback**
5. **Fallback to Silverlight**
   1. Add script to fallback to Silverlight (goes to different video)
   2. Reload the page

# Geolocation

1. **Add basic Geolocation to site**
2. **Run alert location**. Show the popup bar asking for permission. Make sure to mention that Geolocation is opt-in only. Sites and browsers cannot use it without your permission. Show what happens when you decline.
3. **Add a Bing Map using the second snippet. Run the site and show the location on the map.**
4. **Hit F12 and change to run in IE8. Show errors.**
5. **Add Modernizr support and show graceful fallback to a form that allows the user to enter their location.**
   1. Show Modernizr Referenced on the page
   2. Copy in the script snippet that uses modernizr to check for support. Also show that this mechanism is being used if the user says no.
6. **Use this address for search**: Disney World

# Storage

1. **Show form**
2. **Use local storage to save user preferences from a form (copy snippet) and show saving**
3. **Run, save, Hit F12 and show the window.localStorage object in the console**
4. **Add snippet to check for values to populate the form**
5. **Close and re-open the browser and show things preserved**
6. **Add activateSettings snippet to act on preferences**

# CSS3

1. **Show off Expression Web 4 SP1 Features**
   1. Open Demos and show new intellisense in any file
   2. Click New Style… and show the style editor dialog
   3. Open style.css and show pseudo-class selector intellisense by typing “input:”
2. **Add rounded corners to the regions of my form**
   1. Open BlogPage.html and run to show my page without the rounded corners
   2. Click New Style... and select the borderradius property
   3. Set it to 10px and look at the generated property.
   4. Copy in the snippet to add moz and webkit support and talk about vendor prefixes in CSS3
3. **CSS Pseudo Selectors**
   1. Open BlogPage.html and add :not(.odd) to the article element, and move the background style from the above declaration.
4. **@font-face**
   1. Add the font-face snippet
   2. Open page, then open F12 and show the font being retrieved
5. **[IF FAST] Media Queries Demo**
   1. Navigate to sweethatclub.org and show what happens when I resize the browser.
   2. Open sweethatclub.css and show how they are using media queries.

# IE10 PP

1. **Show Flexbox Demo (CSS3 Flexible Layout demo)**
2. **Show CSS Gradient Background Maker**
3. **[IF FAST] Show the SVG Gradient Maker, and add an SVG Background to my Existing SVG Demos**

# Web Sockets

1. **Show the chat demo for sockets from html5Labs (**[**http://html5labs.cloudapp.net/WebSockets/ChatDemo/wsdemo.html**](http://html5labs.cloudapp.net/WebSockets/ChatDemo/wsdemo.html)**).**
2. **[IF FAST] Show this running locally.**

# FileAPI

1. **Open FileAPI.html and show loading the contents of a text file.**
2. **Show loading the contents of an image into a blob URL in memory then displaying that image on the page**
3. **[IF FAST] Show audio.html**
   1. Progresive Enhancement by using the File API to pull ID3 tags and show album metadata on a tooltip jQuery plugin