**Preparation**1. Open All Mobile Emulators  
2. Open Clipboard doc  
3. Close all not necessary apps (Lync, IM)  
4. Start ZoomIt

**\*\*\*\* 1 \*\*\*\***

* **Current State of MVC3 (Slide)**
  + Spin up site
  + Navigate around a bit
  + Explain Emulator vs Simulator
  + `Show site in Android Simulator (tiny)
  + Show site in iOS Simulator (a little better)
* **Vanilla MVC3 Issues (Slide)**
* **You Can Make Things Better**
  + You don’t have to upgrade to MVC 4
* **If you do nothing else... (Slide)**
* **...at least add a viewport meta tag (slide)**
  + Add viewport meta tag to \_layout.chtml
  + <meta name=”viewport” content=”width=device-width/>
  + Show site in WP7 emulator (**may be strange, refresh and dbl click)**
  + Show site in Android emulator
  + Show site in iOS emulator (same)
* **There is a lot more you can do (Slide)**
* **But we don't have to ... (Slide)**
* **MVC4: Mobile Specific Features (Slide)**
* **Mobile project template (Slide)**
  + File -> New Project
  + MVC4
  + Next
  + Notice 4 new options "Empty", "Mobile", “WebAPI”, “Single Page”
  + Select Mobile
  + Show site.Css is bare
  + Show it includes jQuery Mobile (scripts and CSS)
  + Run it in desktop browser – note how looks distinctly mobile
  + View on mobile emulators **(make sure to show log in screen on iPhone and note transitions)**
  + How cool is that!
  + If only we created mobile only sites! :)
* **Of course we don't create Mobile Only (JUST SAY)**
* **\*\*\*\*\* Spin up new MVC4 site \*\*\*\*\*\***
  + talk a little about the new template
  + Haack and the boys actually had a designer's input - looks Purdy
  + columns
  + Twitter/Facebook
  + overall more pleasing to the eye, but who uses the default template anyway!?

**\*\*\*\* 1 \*\*\*\***

**\*\*\*\* 2 \*\*\*\***

* **Enhancements for adaptive rendering (Slide)**
  + show viewport tag in \_Layout
  + show in mobile browsers
  + show mobile styles that use Media Queries (search @media)
  + spin up site IN DESKTOP BROWSER and make smaller to show adaptiveness
* **Display Modes (Slide)**
  + Go through slide
* **Mobile Specific Views (Slide)**
  + Go through slide
  + Layout files
    - Copy \_Layout.cshtml and rename to \_Layout.mobile.cshtml
    - Make a noticeable change “Dream Cars: MVC4 (\*\*MOBILE\*\*)”
    - Run
      * Show on desktop browser – no change
      * Show on mobile browsers - change
  + Views
    - Copy Views\Index.cshtml and reaname to Index.mobile.cshtml
    - Make a noticeable change “<br/>(\*\* MOBILE \*\*)”
      * Show on desktop browser – no change
      * Show on mobile browsers – change
* **Mobile Browser Specific Views (Slide)**
* Go through slide
  + Add iPhone display mode to Global.asax
  + Run
    - Show on mobile browser (non-iphone)
    - Show on iPhone browser
* **Dial it up to 11 (Slide)**
* **jQuery.Mobile (Slide)**
  + \*\*\*\* Note on HTML5 markup-driven configuration
  + Don't have to worry about a mobile browser not being up to par with the rest for the HTML 5 features...based on universally adopted standards.
  + Talk a bit about progressive enhancements and graceful degradation **(what they are, modernizr)**
  + Accessibility features, very important now mobile devices are the norm!
* **Supported Platforms (slide)**
* **data- attribute (slide)**
  + read slide
  + Show jQuery Mobile Demo
  + Look at data- attribute implementation
* **jQuery Mobile: Page Anatomy (slide)**
  + read slide
  + Show docType declaration in \_Layout and \_Layout.Mobile (html5 is the default in MVC 4)
  + Show \_Layout.mobile to discuss page anatomy

**\*\*\*\* 2\*\*\*\***

**\*\*\*\* 3 \*\*\*\***

* **Installing jQuery Mobile**
  + Install in default project (package-install jquery.mobile)
  + Note what it installed
  + images
  + couple of css files
  + scripts
  + Run it
  + No change on desktop
  + No change on Mobile either
  + Not Hooked Up because Nuget package just dumps the files.
  + So I could manually hook up everything or I could use jQuery.Mobile.MVC
* **jQuery.Mobile.MVC (Slide)**
  + install via NuGet…**and then talk about nuget while it installs**
  + \*\*\* Change versions of jQuery and jQuery Mobile in \_Layout.Mobile to match.
  + Show the new items
  + views/shared/\_Layout.mobile.cshtml
  + views/shared/\_ViewSwitcher.cshtml
  + controllers/ViewSwitcherController.cs
    - Run it
  + Desktop no-change
  + Mobile emulators
    - view switcher
      * Show it
      * Talk about it
      * Note how no way to go back to mobile from desktop
      * Fix it
    - color
    - images are now displayed
    - navigate to Account/LogOn (show log on screen)
* **Coding Time**
  + Bring up Dream Cars MVC4
  + Note it is a copy of the MVC3 app as a basic MVC4 app with jQuery.mobile.mvc installed
  + Manufacturers/Models/Engines Index
  + UL
    - data-role="listview"
    - data-filter="true"
    - repeat on Models/Engines
  + That looks pretty good now, but let's fancy up Model and Engine Index pages
    - Fancy Up Models/Engines Index from clipboard.txt
  + Models and Engines Details
    - remove h3 table div (on top of UL)
    - set colspan = td
    - add data-role and data-inset to UL
    - add a <li data-role="list-divider"><h3>Engines</h3></li>

**\*\*\*\* 3\*\*\*\***