APEX 4 + HTML 5 = Awesome II

This presentation is a continuation of last year's award winning talk on some of the new HTML 5 features and how to integrate them in APEX. HTML 5 is the next major version for HTML. It consists of many new features which will make developer's jobs a lot easier and improve end-user experience. This presentation will highlight some of these new features and demonstrate how to leverage them within an APEX application. New features include (but not limited to) Drag & Drop, Media, and Graphics.
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Classic way to tell if webpage uses HTML5
• Pros
  • Standards estimated to be finalized by 2014
  • Most standards are in place and being used by major web sites (Google, Twitter, Facebook, etc)
  • HTML 5 phones to hit 1 billion by 2013
  • Support for major modern tablets and phones (iOS doesn’t support flash)
• Cons
  • Some state that flash and other languages can reach a wider range of audience
  • This is true. As for 2011 99% of browsers worldwide support flash whereas 40% support HTML 5
• We’re at the tipping point in time for HTML5 to become ubiquitous. If you aren’t already using it you should be.
• This is also a good thing since a lot of the early issues/bugs/etc have been handled by the early adopters.
• Warning: Not all features mentioned in this presentation work in all versions of browsers.
  • Please verify and test with your IT group to ensure that the browsers you support can handle the HTML5 components you want to add
• Sites to help for verification and backwards compatibility
  • Modenizr: http://modernizr.com/
  • http://html5please.com/ (site to see what features are supported by which browser)
To make your website HTML5 compliant change your DOCTYPE to above
  • In APEX go to Shared Components > Templates > and modify the appropriate page templates
• HTML 5 video removes the need for flash video
  • Browsers player’s will be slightly different
  • 2 types of video standards (you need to support both for now)
    • .ogg and .mp4
  • To convert videos to each format following free tools are available:
    • .mp4: Handbreak: http://handbrake.fr/
    • .ogg: VLC: http://www.vlcapp.com/
  • Demo: http://www.w3schools.com/html5/html5_video.asp
Speech to Text

- Currently only available in webkit browsers (Chrome)
- Add attribute “x-webkit-speech” to input text item and you’ll see a small microphone popup
File Drag & Drop

• Demo: Will post a demo with code in the near future on http://www.talkapex.com
  • Plugins available now
    • http://www.apex-plugin.com/oracle-apex-plugins/item-plugin/multiple-file-upload_95.html
Canvas

- Canvas allows you to draw on a predefined area.
- Demo: [http://www.w3schools.com/html5/html5_canvas.asp](http://www.w3schools.com/html5/html5_canvas.asp)
Zurb Icons

• Instead of having small images for your icons can use a font so that it behaves as text and you can manipulate it as a text
  • This can really help improve modification during development and avoids the needs to have a lot of different image files for different colors etc
• Demo (and fonts): http://www.zurb.com/playground/foundation-icons