

APEX 4 + HTML 5 = Awesome II

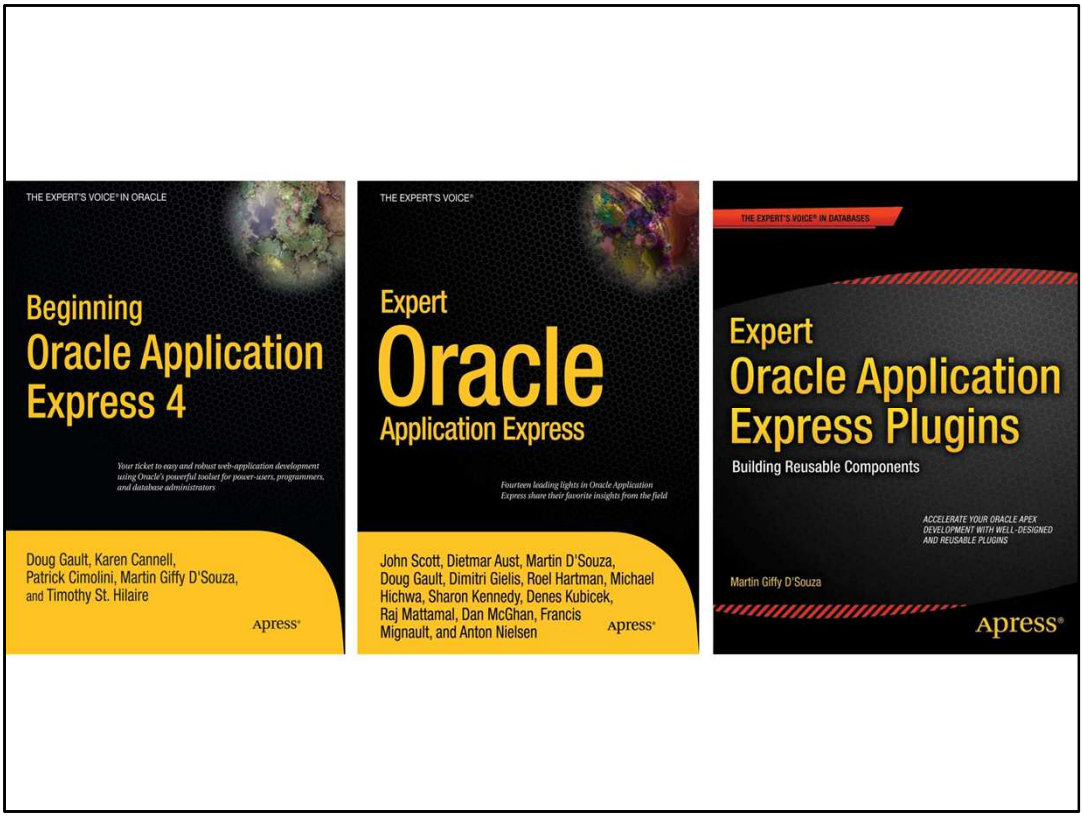
This presentation is a continuation of last year's award winning talk on some of the new HTML 5 features and how to integrate them in APEX. HTML 5 is the next major version for HTML. It consists of many new features which will make developer's jobs a lot easier and improve end-user experience. This presentation 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.

Martin Giffy D'Souza



ORACLE ACE Director

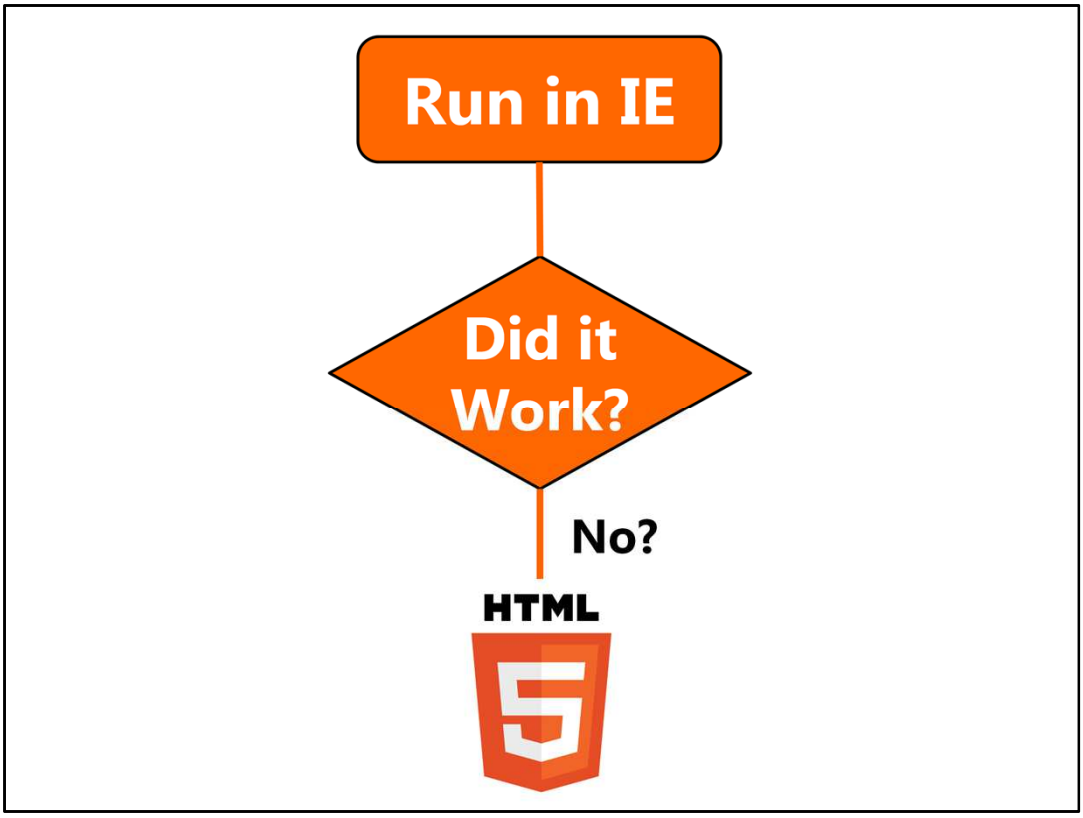
- CTO and Co-founder at ClariFit: http://www.ClariFit.com
- Author of Oracle APEX blog: http://www.TalkApex.com
- Director for Oracle Development Tools User Group (ODTUG): http://www.odtug.com
- Oracle ACE Director



- Beginning Oracle Application Express 4: http://goo.gl/NxHoF
- Expert Oracle Application Express: http://goo.gl/tXm3P
  - More info about this book: http://jes.blogs.shellprompt.net/2011/03/30/expert-oracle-application-express
- Expert Oracle Application Express Plugins: http://goo.gl/089zi



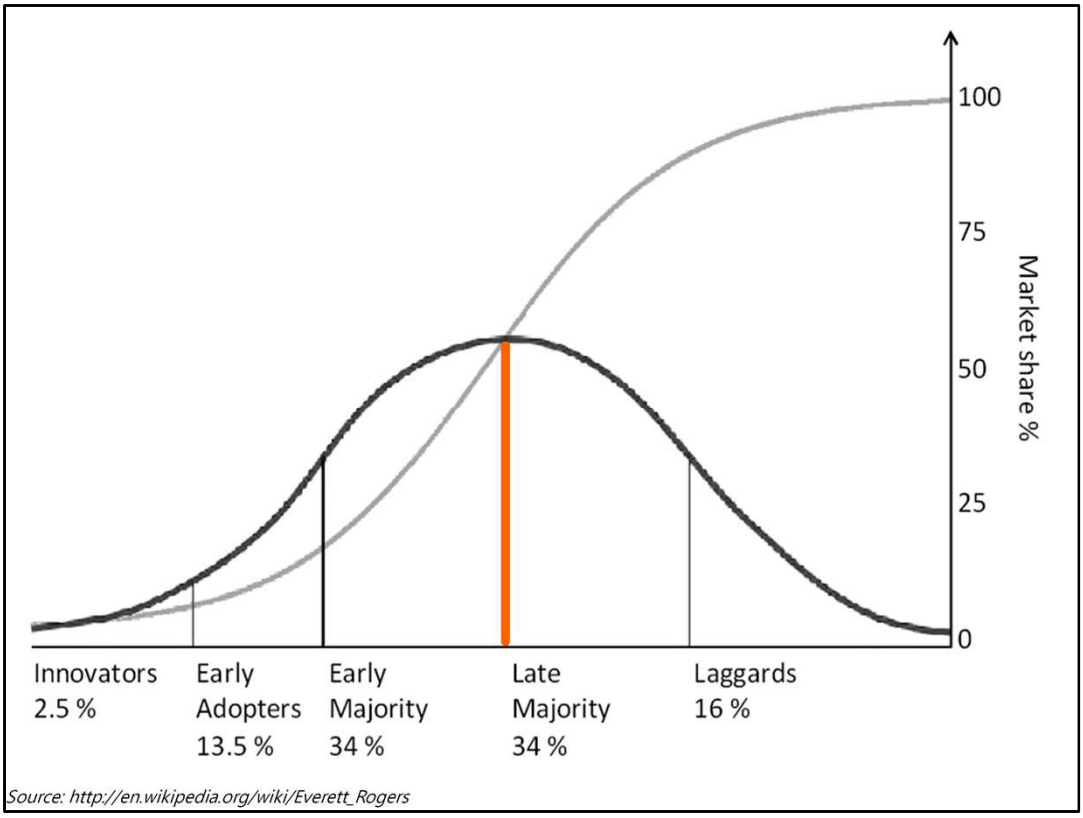
• ClariFit is a Oracle APEX and PL/SQL consulting and training firm based out of Calgary, Alberta, Canada
• For more information please visit http://www.ClariFit.com or email: info@ClariFit.com



Classic way to tell if webpage uses HTML5



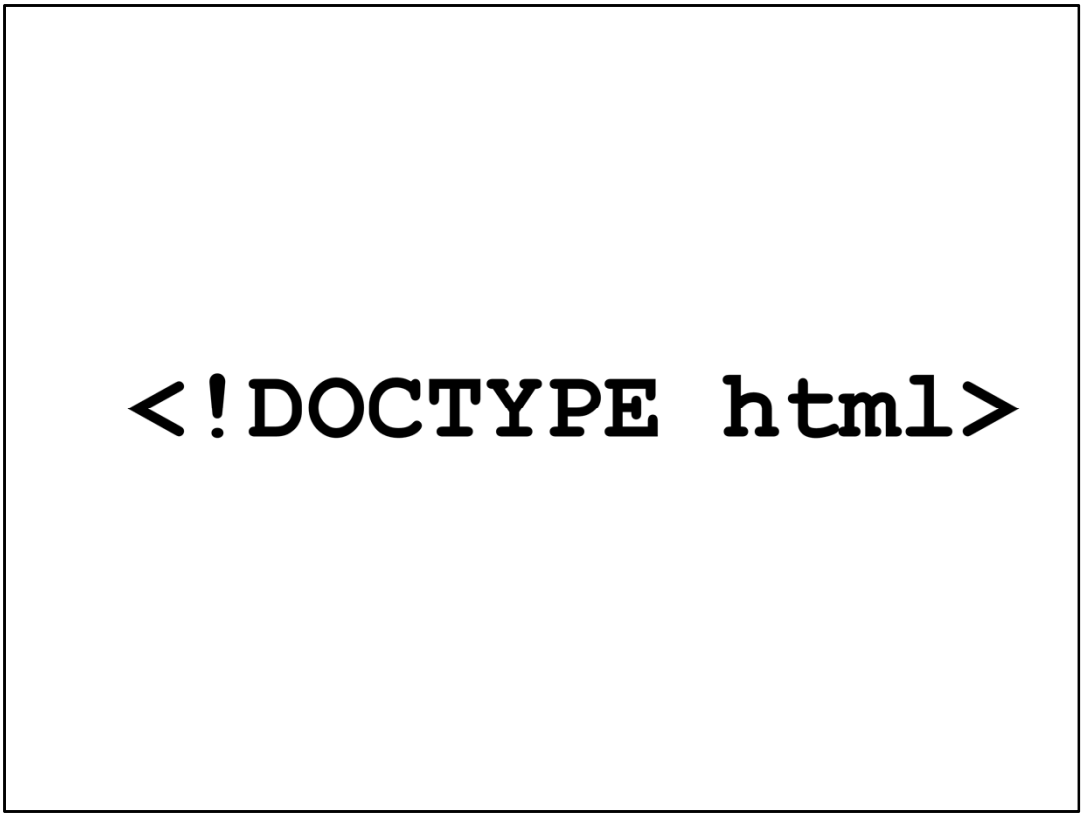
- Pros
  - Standards estimated to be finalized by 2014
  - Most standards are in place and being used by major web sites (Google, Twitter, Facebook, etc)
  - HTML 5 phones to hit 1 billion by 2013
  - Support for major modern tablets and phones (iOS doesn't support flash)
- Cons
  - Some state that flash 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
    - http://designrfix.com/web-design/facts-html5-flash-usage-real-world



- 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

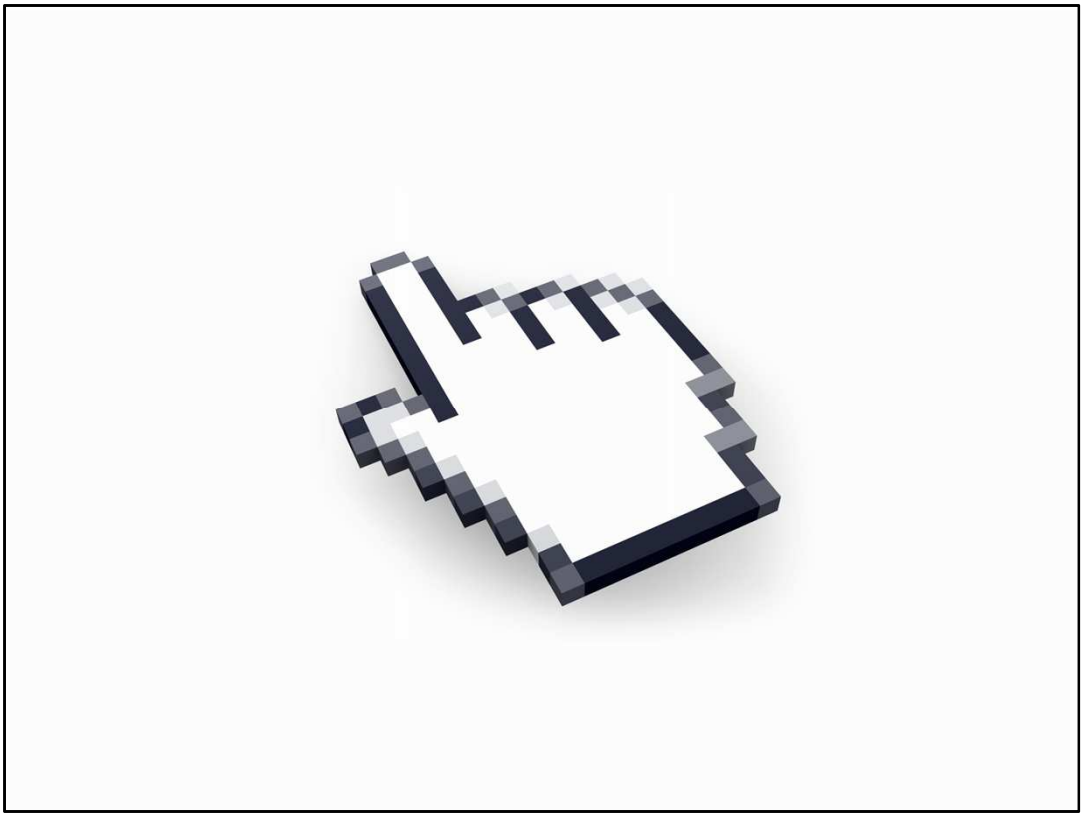


- HTML 5 video removes the need for flash video
  - Browsers player's will be slightly different
  - 2 types of video standards (you need to support both for now)
    - .ogg and .mp4
  - To convert videos to each format following free tools are available:
    - .mp4: Handbreak: http://handbrake.fr/
    - .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
- Demo: http://www.sitepoint.com/html5-speech-input-fields/#fbid=oKobpusO-yb



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
    - http://www.apex-plugin.com/oracle-apex-plugins/odtug-competition/filedrop_202.html



Canvas

- Canvas allows you to draw on a predefined area.
- Demo: 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



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