SOLVERA

CRAFTING RESULTS

Live 360! Events

Conference Review

Follow along at:

http://bit.ly/15u1FQ8 or http://html5demo1.azurewebsites.net/

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CANADA'S **BEST MANAGED COMPANIES**

Quick Summary

- Historically, [Visual Studio Live]{.orange} annual event in Orlando
- 1st time "combined 4 events into 1":
  - [Visual Studio]{.orange}
  - [SharePoint]{.orange}
  - [SQL Server]{.orange}
  - [Cloud & Virtualization]{.orange}
- Often there were 16 sessions happening at once!
- Typical day was sessions running from 8 am to 5:30 pm
- First and last days were "workshops"
- Microsoft technologies but not hosted by Microsoft

What my objectives were…

▶ HTML 5… learn more including the "state" of it and how to get browsers to work with it

▶ Azure… what "state" is it in? How to use, etc

▶ Mobile… Windows phone… but knew coming in that did not seem to be a lot regarding it

▶ Any trends that I did not previously know about

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What I learnt – HTML 5

- **Sessions I attended:**
  - CVM3 – Workshop HTML5 – Cloud: Reach Everyone, Everywhere
  - VSW9 – HTML5 Forms
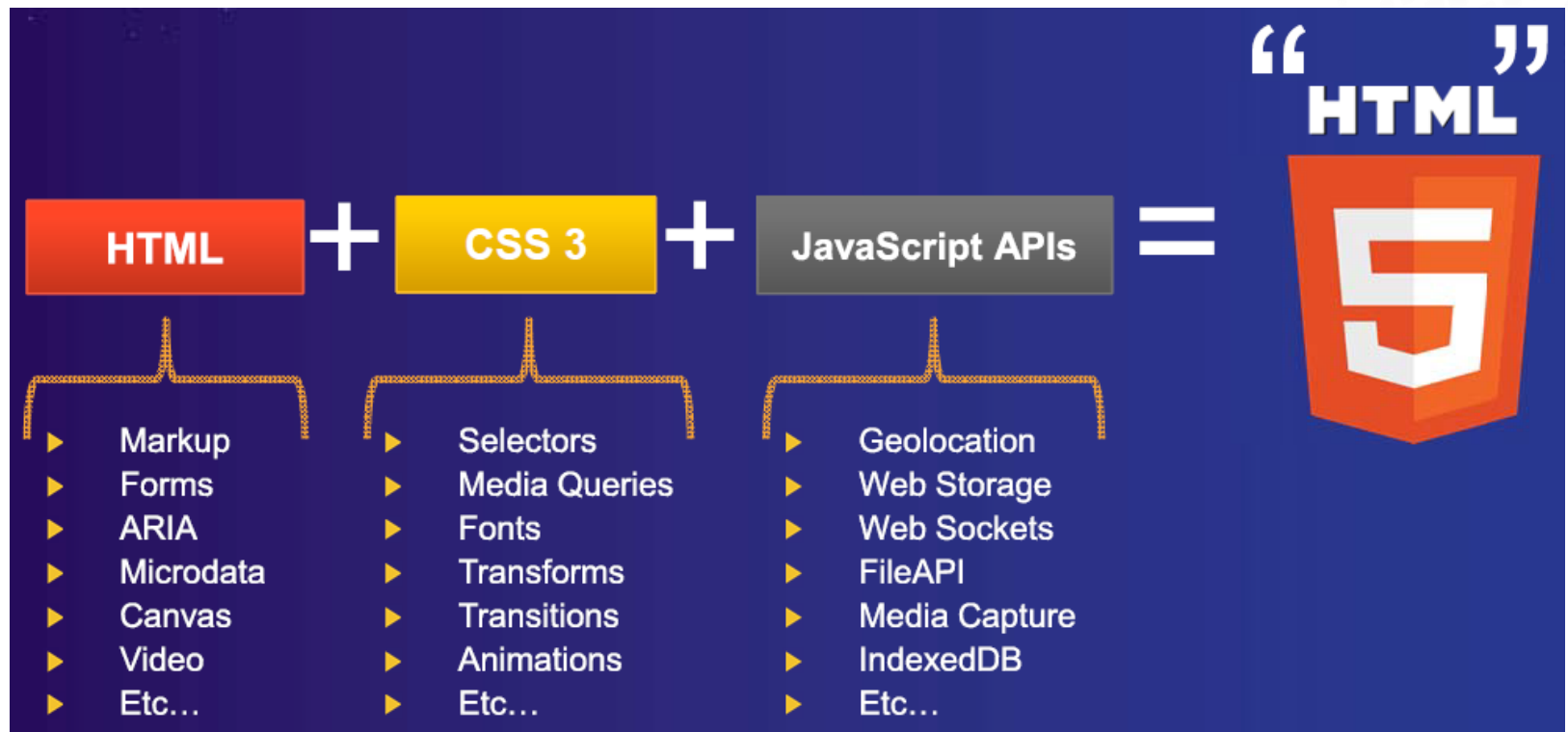 - VSW13 – HTML5 Everywhere
- **Wee bit of history:**
  - HTML (1991), HTML2 (1994), HTML3 (1995), HTML3.2 & 4 (1997), XHTML1 (2000), AJAX (2005), HTML5 (2007)
- **W3C wanted XHTML 2, browser groups wanted HTML 5… so they created WHATWG[1].**
- **W3C's XHTML 2 ultimately died on July 2, 2009**
- **WHATWG survived**
- **WHATWG gave W3C permission to publish HTML 5… so really are 2 "specs" out there**

HTML 5 (cont'd)

- **Apple's affect:**
  - "The world is moving to HTML 5" – Steve Jobs
  - iDevices have no support for Flash
- **Logo / marketing material[2]**
- **Spec moves through:**
  - 1st Published Working Draft -> Working Draft -> Last Call -> Candidate Recommendation -> Recommendation
  - IE goal is CR and up[1] … as a result, they "score" much lower
  - WHATWG said "maybe" 2022 for finalization ☹ HOWEVER, there are sections that go through above spec movement / flow
  - What does "recommendation" really mean? 2 independent browsers must implement spec 100%... That's it. Again, it's the browser groups that are creating it and have to agree together
  - Current main browsers are: IE, Chrome, Firefox, Safari and Opera

HTML 5 – What is it?

► What is it? HTML + CSS3 + JavaScript APIs

HTML 5 – Simplification

▶ **The new doctype is simply: <!DOCTYPE HTML>.**

▶ **The character set is simply declared with: <meta charset="UTF-8">.**

▶ **The type attribute is no longer required on <style> and <script> tags**

▶ **Elements that are by nature self-closing now do not need "/"**

    ▶ img

    ▶ br

HTML 5 – Semantic Markup / New Tags

▶ Opera did a 2 year study for common id's used

Rank	Value	Frequency	%
1	footer	179,528	3.6%
2	menu	146,673	2.9%
3	style1	138,308	2.8%
4	msonormal	123,374	2.5%
5	text	122,911	2.5%
6	content	113,951	2.3%
7	title	91,957	1.8%
8	style2	89,851	1.8%
9	header	89,274	1.8%
10	copyright	86,979	1.7%
11	button	81,503	1.6%
12	main	69,620	1.4%
13	style3	69,349	1.4%
14	small	68,995	1.4%
15	nav	68,634	1.4%
16	clear	67,571	1.4%
88	mainlevel_nav	16,472	0.3%
89	section	16,297	0.3%
90	description	16,071	0.4%
185	row1	8,652	0.2%
186	article	8,649	0.2%
187	h1	8,625	0.4%

Source: http://devfiles.myopera.com/articles/572/classlist-url.htm

HTML 5 – New Tags

HTML 5 - Browser Support

▶ **Before get much further though... how is browser support?**

▶ **Html5test.com, canluse.com, and lots of others**

▶ **Don't sniff browsers... test for features**

▶ **WHAT ABOUT IE? One option is Google Chrome Frame for <=8[1]**

▶ **Adoption strategies: lowest common denominator, polyfill enriched**

▶ **What is a "Polyfill"?[2]**

   ▶ JavaScript that implants HTML5 functionality in a browser that does not offer native support

▶ **Modernizr[3]**

   ▶ Small JavaScript library that aids backwards compatibility with polyfills for HTML5 & CSS3 features

▶ **DEMO 1 – 3**

   ▶ http://html5demo1.azurewebsites.net/Index.html

HTML 5 Form Enhancements

▶ **<input type=**

    ▶ Email, url, search, number, date, time, color, etc

▶ **New attributes**

    ▶ Placeholder, autofocus

▶ **Contenteditable**

▶ **Remember sites mentioned previously: Html5test.com, canluse.com**

▶ **Demo 4**

    ▶ http://html5demo1.azurewebsites.net/Demo04-NewInputTypes.html

HTML 5 MultiMedia Enhancements

▶ New "audio" and "video" tags

▶ Demo 5

  ▶ http://html5demo1.azurewebsites.net/Demo05-Multimedia.html

Azure

▶ **Sessions I attended:**
  ▶ Most made reference to it / used it

▶ **What is it?**
  ▶ cloud computing is really doing just-in-time provisioning and scaling of services, software and solutions delivered as a service on a pool of hardware
  ▶ On demand provisioning
  ▶ scaling resources... example "tonight I need 10,000 nodes for an hour until batch is done"
  ▶ abstraction over resources

▶ **Demo 6**
  ▶ Create a website using Azure... show other options here
    ▶ https://manage.windowsazure.com
  ▶ Link to my github repository
  ▶ Create new site and download publish settings for deploying in Visual Studio

Mobile

- **Sessions I attended:**
  - [VSW8 – MVC4 and jQuery mobile](#)
  - [VST8 – Windows Phone 8 enhancements](#) (was a waste of time)
- **Unfortunately not the conference to learn a lot of mobile**
- **Concentration on HTML5 including CSS3 for formatting with mobile in mind**
- **3 good takeaways**
  - JSON for serialized data for smaller payload
  - [Opera mobile emulator](#)
  - By default, add the below "[viewport](#)" to all web pages:
    - `<meta name="viewport" content="width=device-width, user-scalable=no">`
- **Demo 7**
  - [Opera mobile emulator](#)
  - Page with and without meta tag

Trends – SignalR

- **Sessions I attended:**
  - [CVTH05 – Real-Time Communications with SignalR And Windows Azure](CVTH05)
- **"Any sufficiently advanced technology is indistinguishable from magic" – Arthur C. Clarke**
- **An open source series of libraries that provide an abstraction around persistent HTTP connections**
- **Makes real-time HTTP so easy it seems like "magic"**
  - Uses HTML 5 WebSockets if available then does fallbacks
- **http://www.asp.net/signalr/**
- **Demo 8**
  - [Start up demo site on Azure](#)
  - 2 different demos here:
    - [HitCounter](#)
    - [Chat](#)

Other observations

- **Nuget**
  - Visual Studio add-in to import in external resources easily
- **Git**
  - Cvs -> svn -> git
- **Bit.ly**
  - Less and less people using tinyurl.com
- "**Big data**" still in infancy (IMO)

Missing from presentation / not enough time

- ▶ Azure… just touched on it
- ▶ CSS 3… For example: media queries
- ▶ "Big Data"
- ▶ Modernizr… only mentioned it, didn't really show it
- ▶ Other HTML 5 features
  - ▶ More MultiMedia capabilities (i.e. Video and Audio)
    - ▶ Ex. Closed captioning
  - ▶ Storage
  - ▶ Offline
  - ▶ Geolocation
  - ▶ Canvas
  - ▶ SVG
  - ▶ etc

Overall Opinion of Conference

- **While there…**
  - Wanted more… more HTML 5, more mobile
  - Logistics… felt could have been better
  - Accomodations… beautiful, close to Universal Studios
  - Not a "swag" conference
- **Looking back…**
  - I am surprised at how much I did actually learn… or at least spark an interest in
  - Would recommend in the future
  - Ability to jump from session to session because of so many running concurrently was a big benefit