Live 360! Events

Conference Review

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Quick Summary

- Historically, Visual Studio Live annual event in Orlando

- 1ˢᵗ time "combined 4 events into 1":
  - Visual Studio
  - SharePoint
  - SQL Server
  - Cloud & Virtualization

- 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

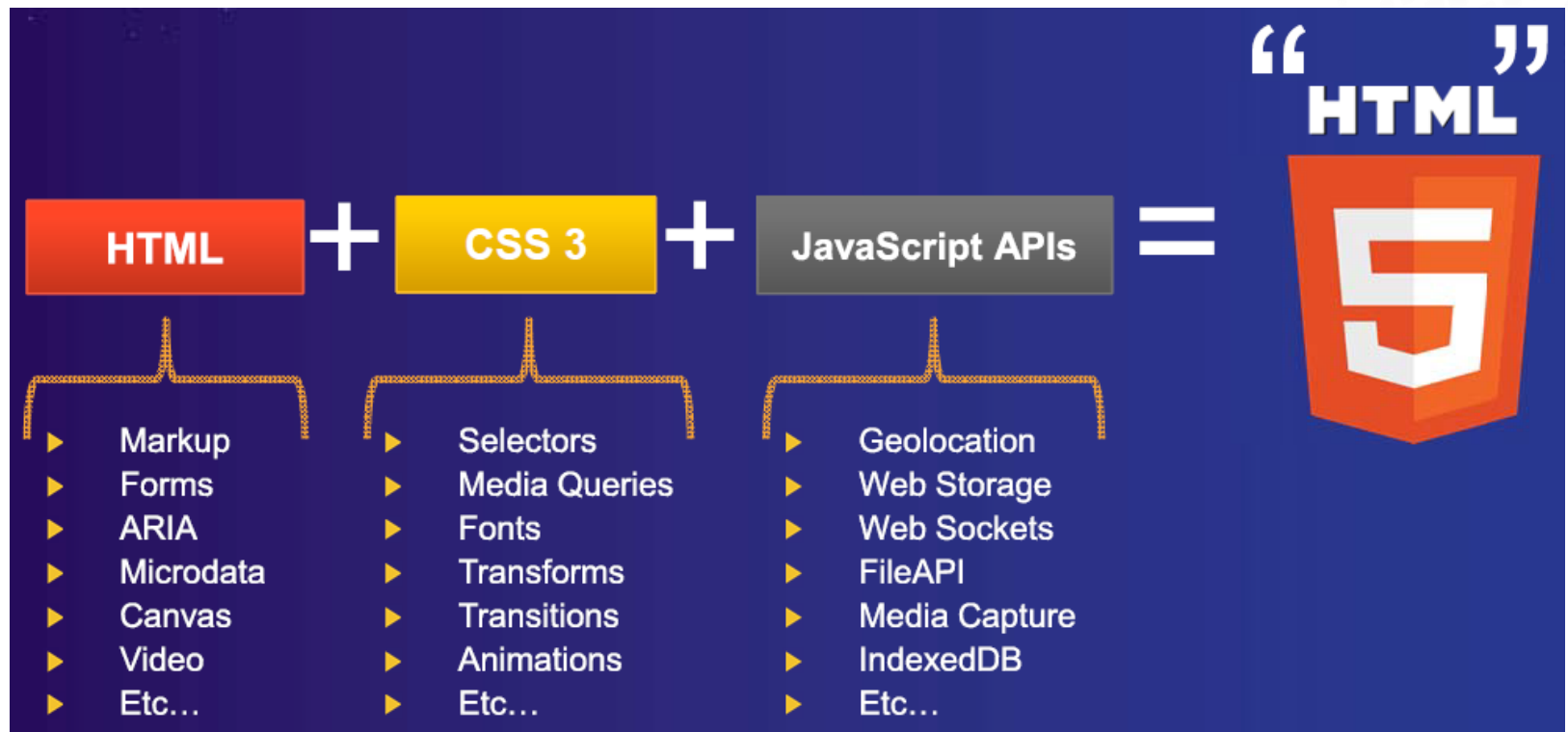▶ Any trends that I did not previously know about

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	main_eye_nav	16,472	0.3%
89	section	16,297	0.3%
90	description	16,071	0.3%
185	row1	8,652	0.2%
186	article	8,649	0.2%
187	h1	8,625	0.2%

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](#)
- **"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

- CSS 3
- "Big Data"
- Modernizr… only mentioned it, didn't really show it
- Other HTML 5 features
  - 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