



# Live 360! Events

## Conference Review

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# Quick Summary

- ▶ Historically, Visual Studio Live annual event in Orlando
- ▶ 1<sup>st</sup> 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

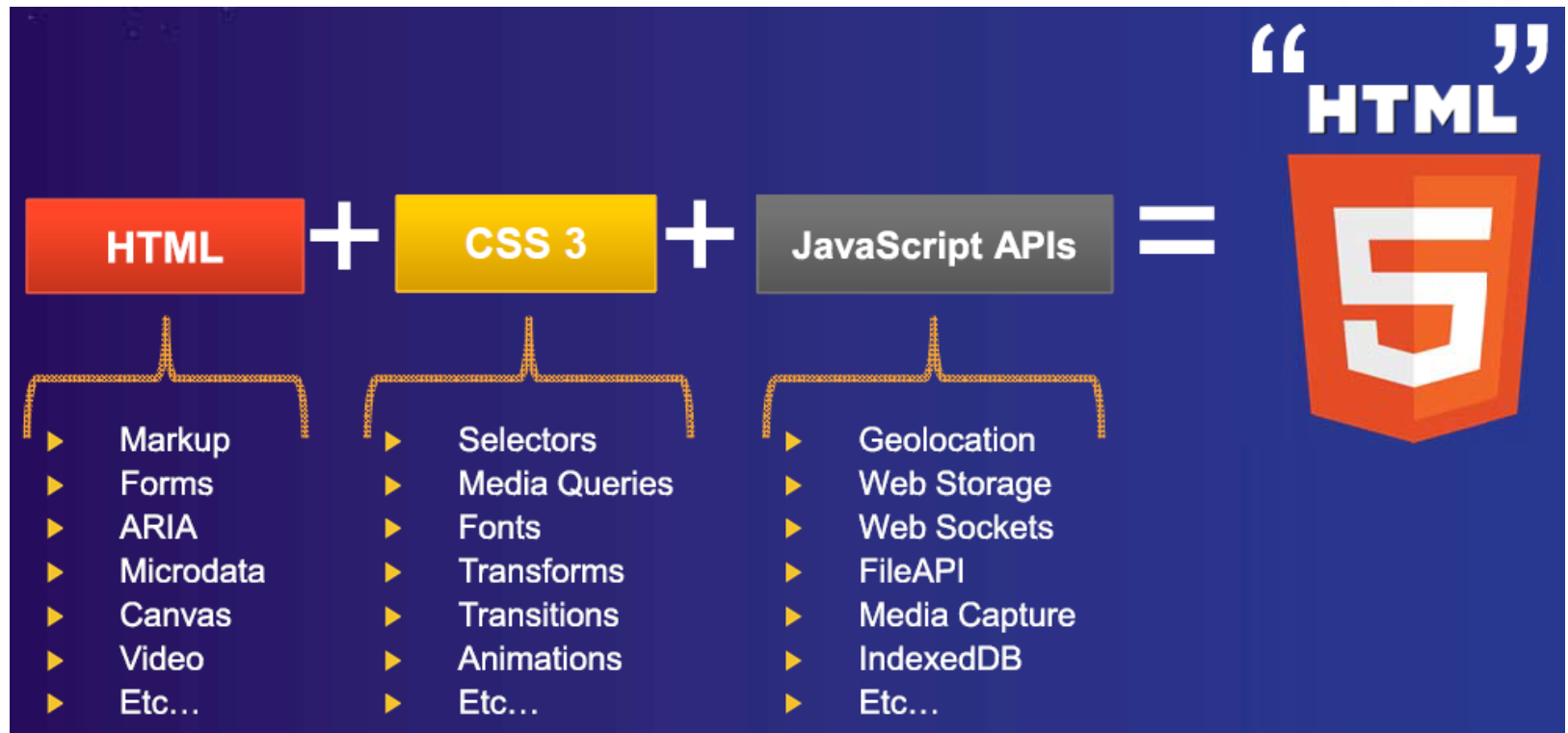
- ▶ Sessions I attended:
  - ▶ [CVM3 - Workshop HTML5 - Cloud: Reach Everyone, Everywhere](#)
  - ▶ [VSW9 - HTML5 Forms](#)
  - ▶ [VSW13 - HTML5 Everywhere](#)
- ▶ Wee bit of history:
  - ▶ HTML (1991), HTML2 (1994), HTML3 (1995), HTML3.2 & 4 (1997), XHTML1 (2000), AJAX (2005), HTML5 (2007)
- ▶ W3C wanted XHTML 2, browser groups wanted HTML 5... so they created [WHATWG](#)<sup>1</sup>.
- ▶ 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<sup>2</sup>
- ▶ Spec moves through:
  - ▶ 1<sup>st</sup> Published Working Draft -> Working Draft -> Last Call -> Candidate Recommendation -> Recommendation
  - ▶ IE goal is CR and up<sup>1</sup> ... 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	68,571	1.4%
148	main, eve, nav	14,472	0.3%
189	section	16,297	0.3%
190	description	15,071	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

`<header>`

`<nav>`

`<aside>`

`<section>`  
`<article>`

`<footer>`

# HTML 5 - Browser Support

- ▶ Before get much further though... how is browser support?
- ▶ [Html5test.com](http://Html5test.com), [canluse.com](http://canluse.com), and lots of others
- ▶ Don't sniff browsers... test for features
- ▶ WHAT ABOUT IE? One option is [Google Chrome Frame](http://Google Chrome Frame) for  $\leq 8^1$
- ▶ Adoption strategies: lowest common denominator, polyfill enriched
- ▶ What is a "Polyfill"?<sup>2</sup>
  - ▶ JavaScript that implants HTML5 functionality in a browser that does not offer native support
- ▶ **Modernizr**<sup>3</sup>
  - ▶ 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

- ▶ 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