



Live 360! Events

Conference Review

Follow along at:

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

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Quick Summary

- ▶ Historically, was a 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!
- ▶ First and last days were “workshops”
- ▶ Microsoft technologies but not hosted by Microsoft



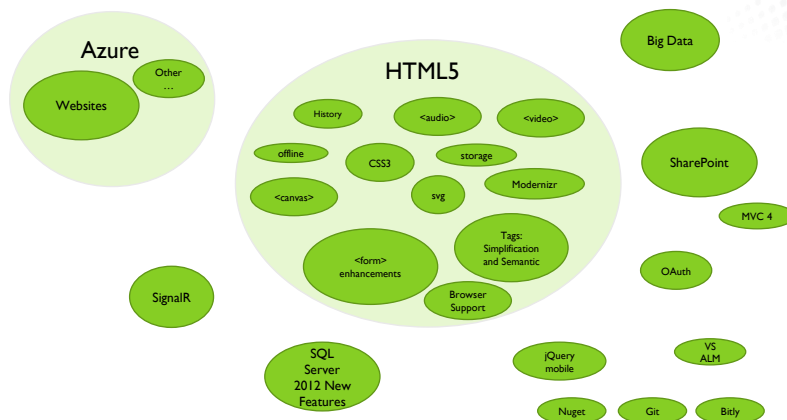
What my objectives were...

- ▶ **HTML5...**
 - ▶ 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...**
 - ▶ Pretty much anything
- ▶ **Any trends?**

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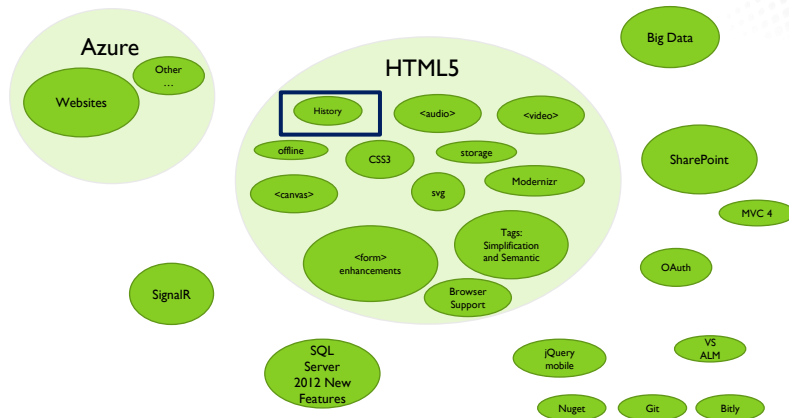
What I learnt



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What I learnt



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HTML5 History

- ▶ Wee bit of history¹:
 - ▶ CERN and IETF: HTML (1991), HTML2 (1994)
 - ▶ W3C: HTML3 (1995), HTML3.2 & 4 (1997)
 - ▶ W3C decided to stop evolving "HTML" (1998)
 - ▶ W3C: XHTML1 (2000), XHTML 1.1 (2001)
- ▶ W3C wanted XHTML 2... but was very strict standard
- ▶ Browser group formed **WHATWG**² and created HTML5
 - ▶ Group contained: Apple, Mozilla, Opera
- ▶ W3C's XHTML 2 ultimately died on July 2, 2009
- ▶ WHATWG gave W3C permission to publish HTML5... so really there are 2 specifications out there

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HTML5 History

- ▶ Apple's affect:
 - ▶ [“The world is moving to HTML5”](#) - Steve Jobs
 - ▶ [iDevices have no support for Flash](#)

- ▶ [Logo](#)



- ▶ [Marketing material](#)

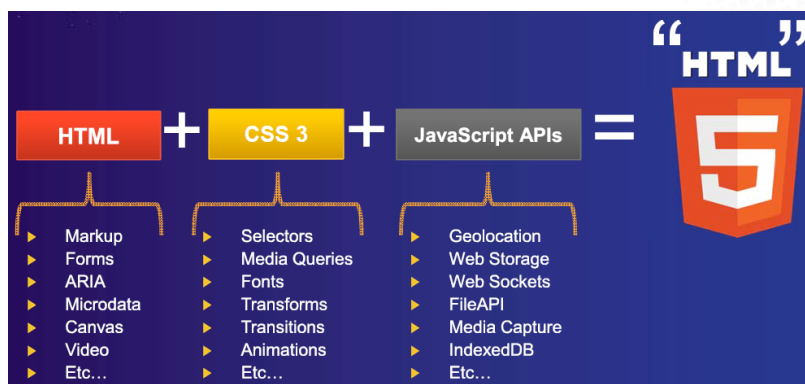


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HTML5 - What is it?

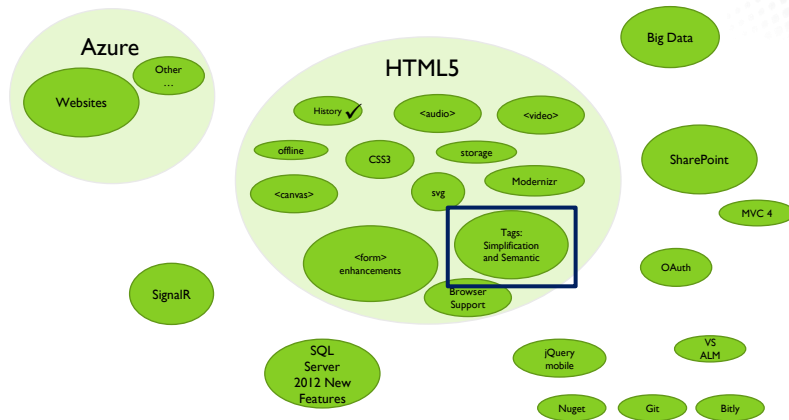
- ▶ What is it? HTML + CSS3 + JavaScript APIs



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What I learnt



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HTML5 - Simplification

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<meta charset="utf-8">
```

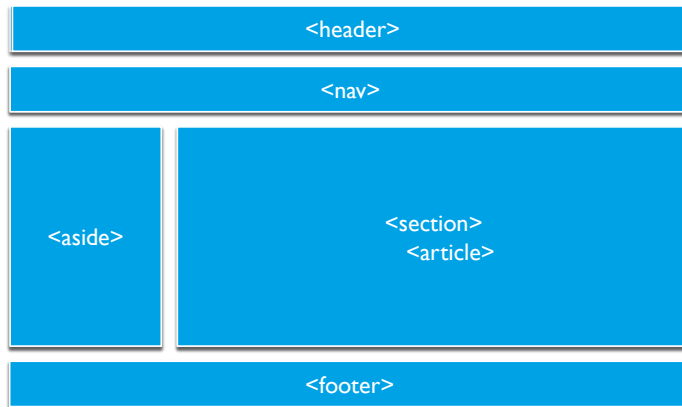
Some others:

- ▶ The type attribute is no longer required on <style> and <script> tags
- ▶ Elements that are by nature self-closing no longer need a "/"
 - ▶ img
 - ▶ br

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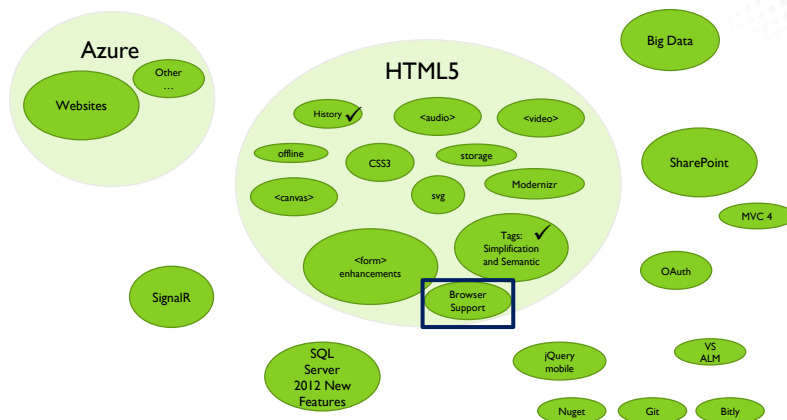
HTML5 - New Tags



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What I learnt



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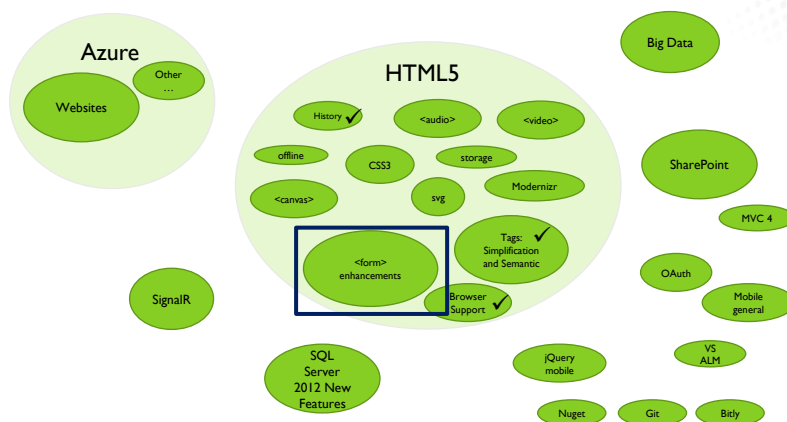
HTML5 - Browser Support

- ▶ Spec moves through:
 - ▶ 1st Published Working Draft
 - ▶ Working Draft
 - ▶ Last Call
 - ▶ Candidate Recommendation
 - ▶ Recommendation
- ▶ IE goal is CR and up ... as a result, they “score” much lower... but are getting better
 - ▶ One easy option is [Google Chrome Frame](#) for <=8!
- ▶ [Html5test.com](#), [Canluse.com](#), and lots of others
- ▶ Adoption strategies: lowest common denominator, polyfill² enriched
- ▶ DEMO 1 - 2
 - ▶ <http://html5demo1.azurewebsites.net/Index.html>

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What I learnt



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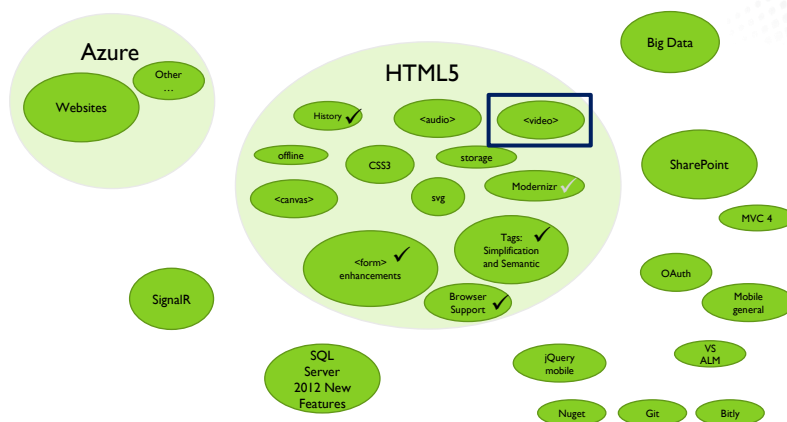
HTML5 Form Enhancements

- ▶ **<input type=**
 - ▶ Email, url, search, number, date, time, color, etc
- ▶ **New attributes**
 - ▶ Placeholder, autofocus, contenteditable
- ▶ **Remember sites mentioned previously:**
Html5test.com, canluse.com
- ▶ **Also... Don't "sniff" for browsers... test for features**
using something like Modernizr
- ▶ **Demo 3**
 - ▶ <http://html5demo1.azurewebsites.net/Demo03-NewInputTypes.html>

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What I learnt



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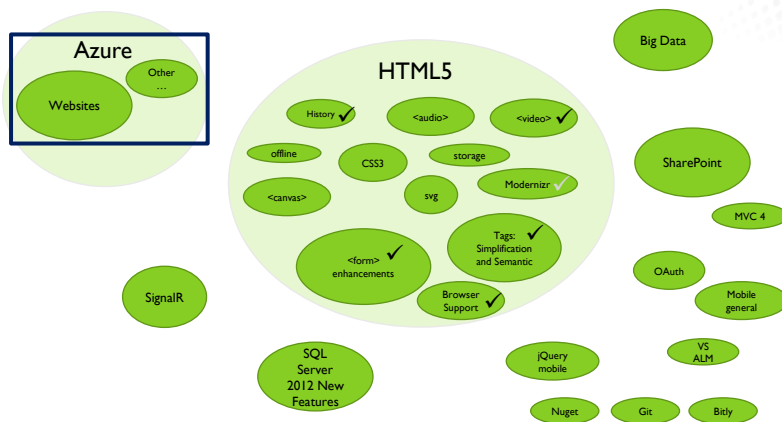
HTML5 MultiMedia Enhancements

- ▶ New “audio” and “video” tags
- ▶ Demo 4
 - ▶ <http://html5demo1.azurewebsites.net/Demo04-Multimedia.html>

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What I learnt



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Azure

► What is it?

- From Wikipedia: “is a Microsoft cloud computing platform for building, deploying and managing application and services through a global network of Microsoft-managed datacenters”
- Some interesting aspects of this are:
 - Easy on demand provisioning
 - Easy scaling of resources... for example “tonight I need 10,000 nodes for an hour until batch is done”

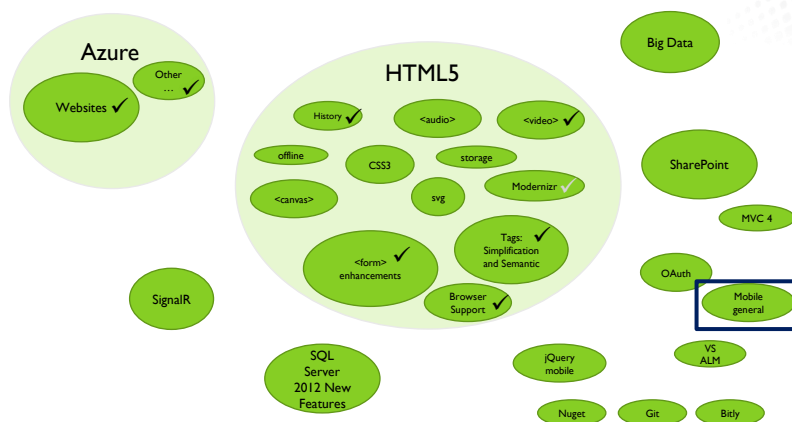
► Demo 5

- <https://manage.windowsazure.com>

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What I learnt



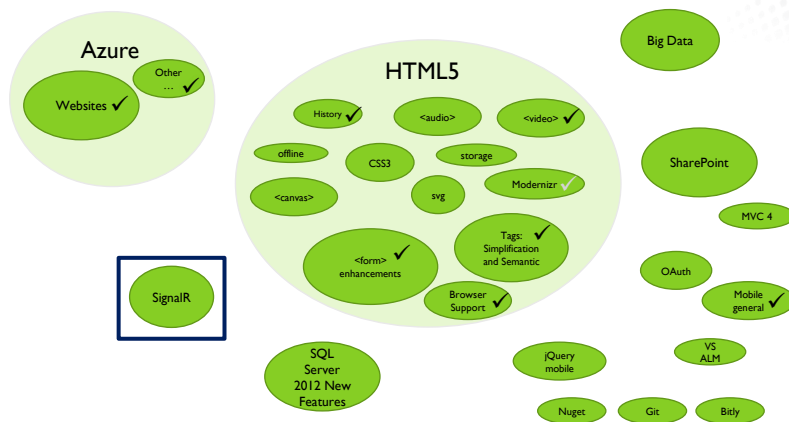
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Mobile

- ▶ **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">`
- ▶ **Demo 6**
 - ▶ [Opera mobile emulator](#)
 - ▶ Page with and without meta tag

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What I learnt



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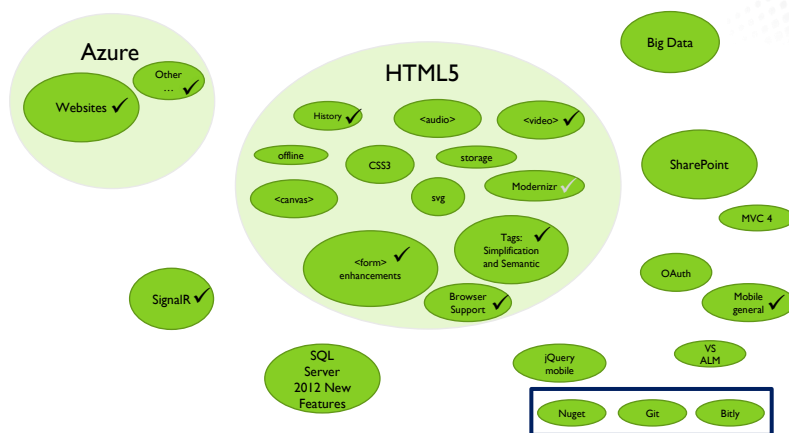
Trends - SignalR

- ▶ Makes real-time HTTP so easy it seems like “magic”¹
- ▶ An open source series of libraries that provide an abstraction around persistent HTTP connections²
- ▶ Demo 7
 - ▶ [HitCounter](#)
 - ▶ [Chat](#)

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What I learnt



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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)