



## Live 360! Events Review

Mini HTML 5 Overview

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



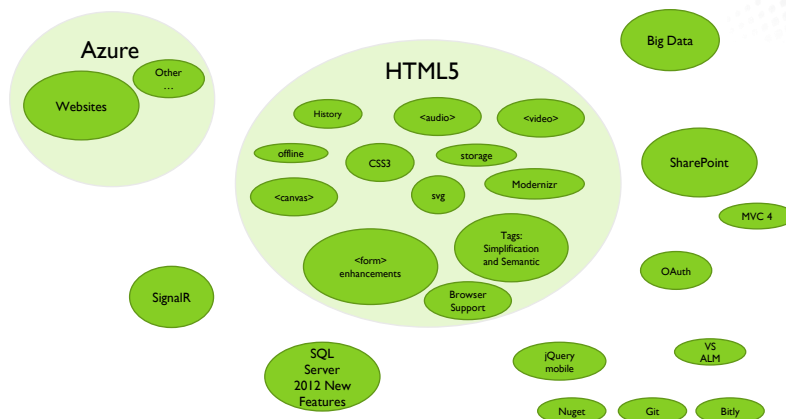
## What my objectives were...

- ▶ **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
- ▶ **Any trends?**

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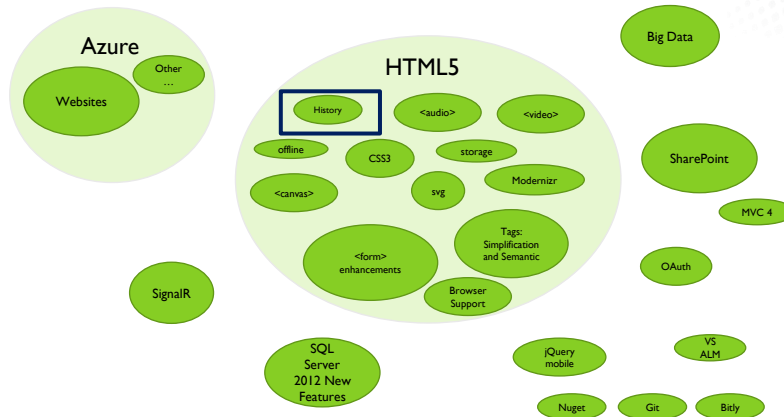


## What I learnt



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## What I learnt



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## HTML5 History

- ▶ Wee bit of history<sup>1</sup>:
  - ▶ 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**<sup>2</sup> 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**



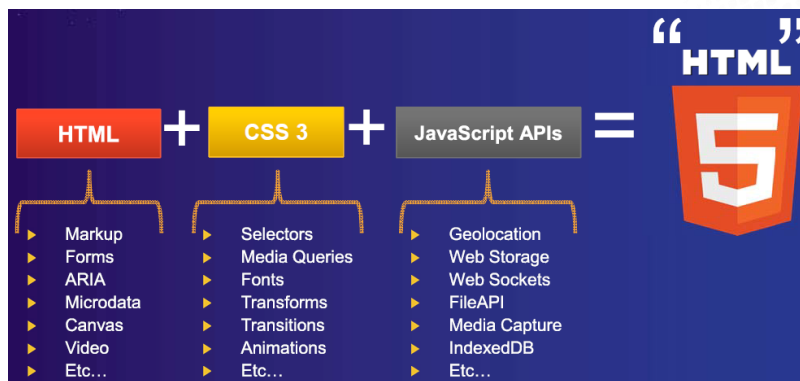
- ▶ **Marketing material**



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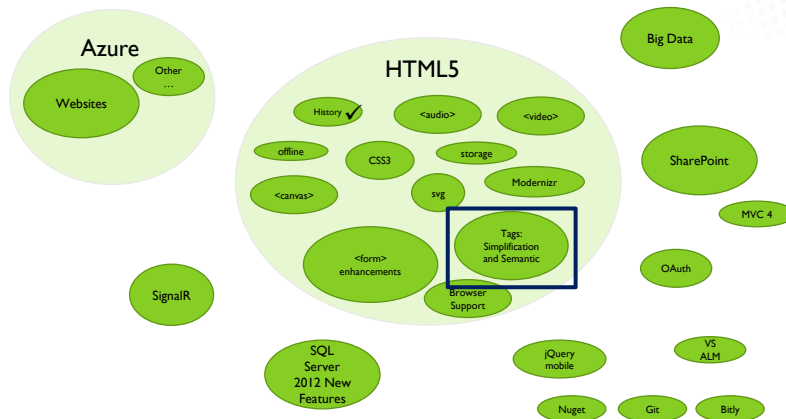
## HTML5 - What is it?

- ▶ **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">
```

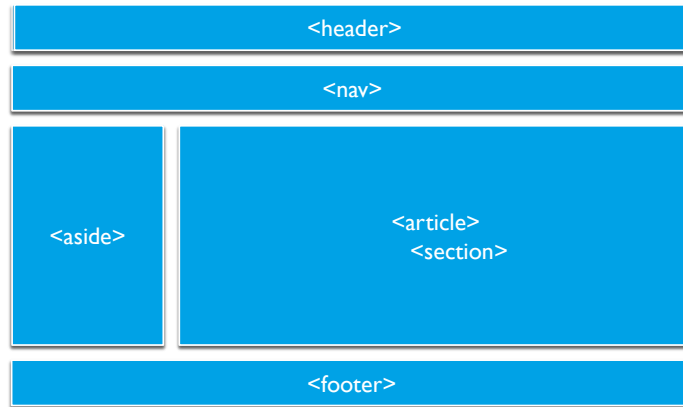
```
<meta charset="utf-8">
```

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

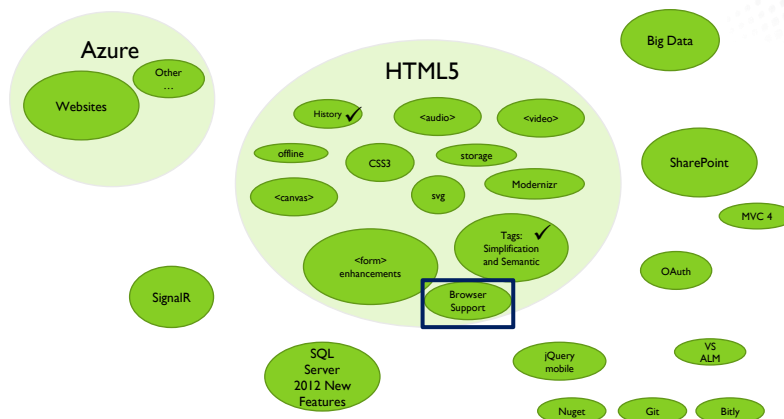
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## HTML5 - New Tags



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## What I learnt



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## HTML5 - Browser Support

- ▶ Spec moves through:
  - ▶ 1<sup>st</sup> 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<sup>1</sup>

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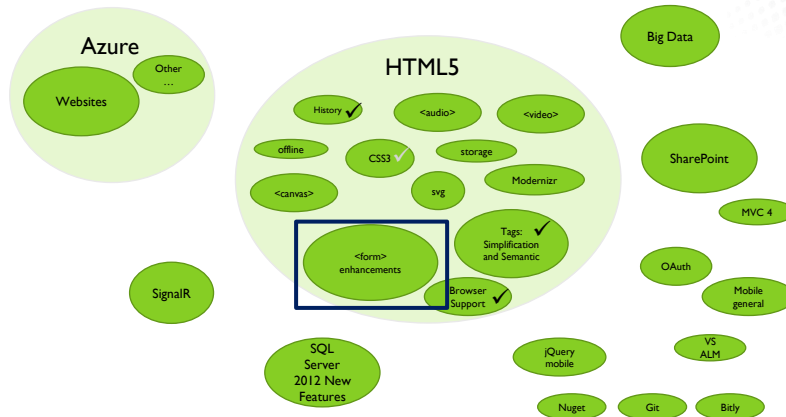
## HTML 5 - Browser Support (cont'd)

- ▶ [Html5test.com](#), [Canluse.com](#), and lots of others
- ▶ Adoption strategies: lowest common denominator, polyfill<sup>1</sup> enriched
- ▶ DEMO 1 - 2 from
  - ▶ <http://html5demo1.azurewebsites.net/Index.html>

	Score	Bonus
Maxthon 4.0 »	464	15
Chrome 25 »	463	13
Opera 12.10 »	419	9
Firefox 19 »	393	10
Safari 6.0 »	378	8
Internet Explorer 10 »	320	6
<i>Microsoft Surface and others</i>		
Internet Explorer 9 »	138	5
Opera 10.00 »	132	0
Firefox 3.0 »	78	0
Internet Explorer 8 »	42	0
Internet Explorer 7 »	27	0
Internet Explorer 6 »	26	0

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## What I learnt



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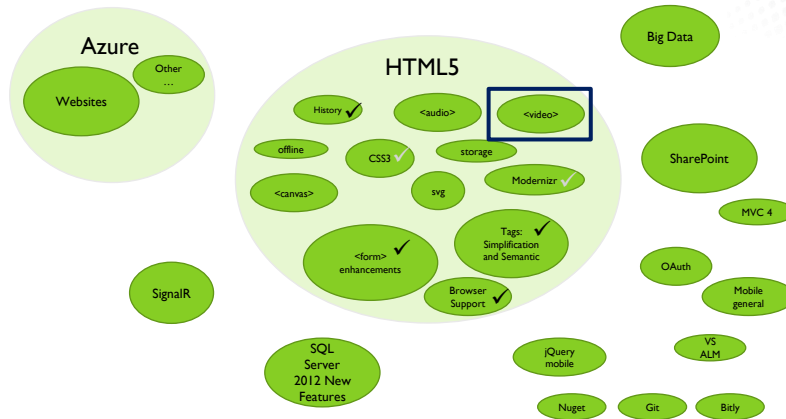
## HTML5 Form Enhancements

- ▶ **<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 from**
  - ▶ <http://html5demo1.azurewebsites.net/Index.html>

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## What I learnt



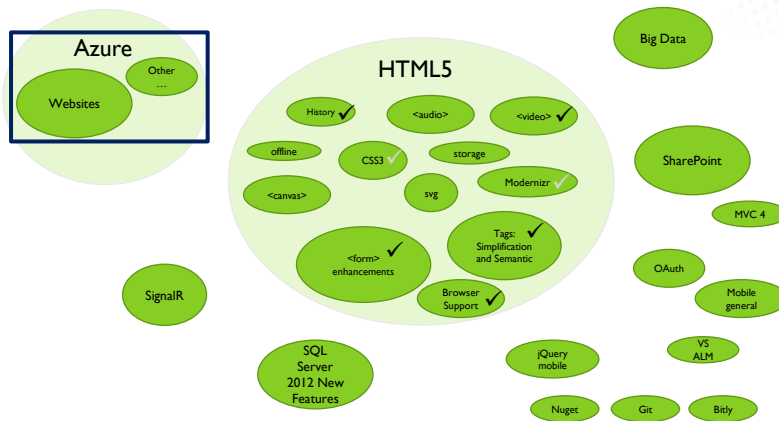
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## HTML5 MultiMedia Enhancements

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

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## What I learnt



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## Windows Azure

### ► What is it?

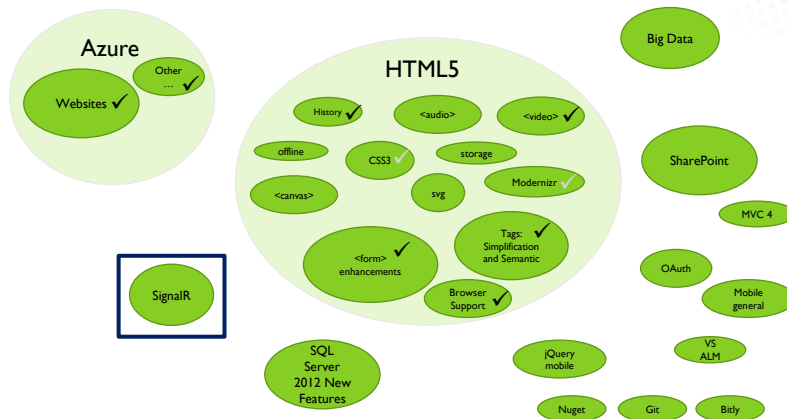
- From Wikipedia: “is a Microsoft cloud computing platform for building, deploying and managing applications and services through a global network of Microsoft-managed datacenters”
- Some interesting aspects of this are:
  - Easy on demand provisioning
  - Easy scaling of resources... for example “tonight 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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## Trends - SignalR

- ▶ Makes real-time HTTP so easy it seems like “magic”<sup>1</sup>
- ▶ An open source series of libraries that provide an abstraction around persistent HTTP connections<sup>2</sup>
- ▶ Demo 6
  - ▶ [HitCounter](#)

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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)

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