# 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

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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"**

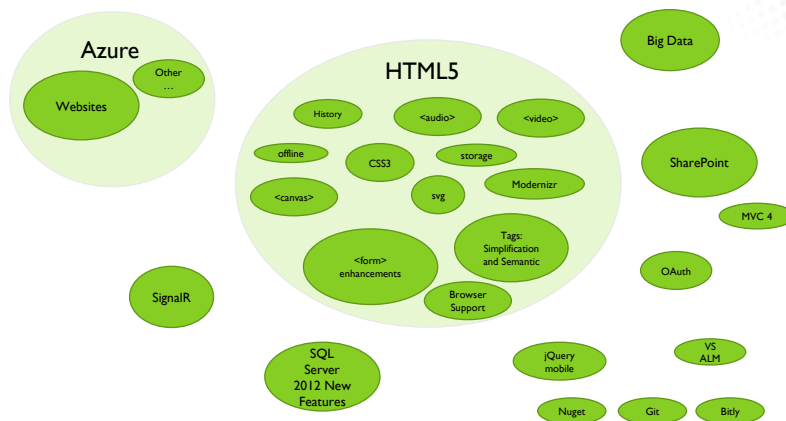▸ **Microsoft technologies but not hosted by Microsoft**

## 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...**
  - ▶ Windows phone... but looked like sessions were lacking
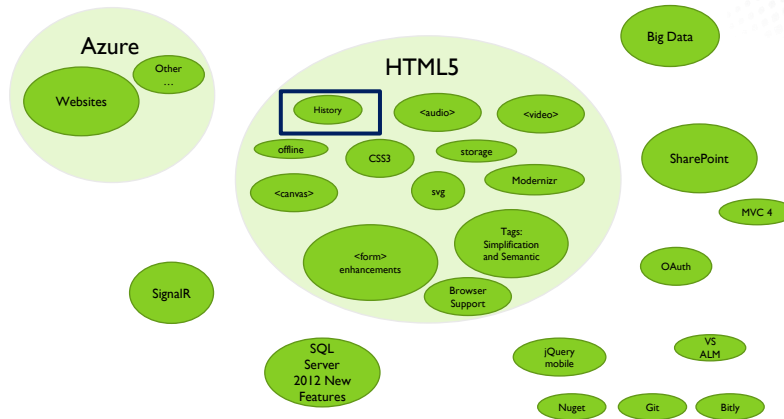- ▶ **Any trends?**

## What I learnt

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## What I learnt



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## HTML5 History

- ▶ **Wee bit of history[1]:**
    - ▶ 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 specifcations 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**
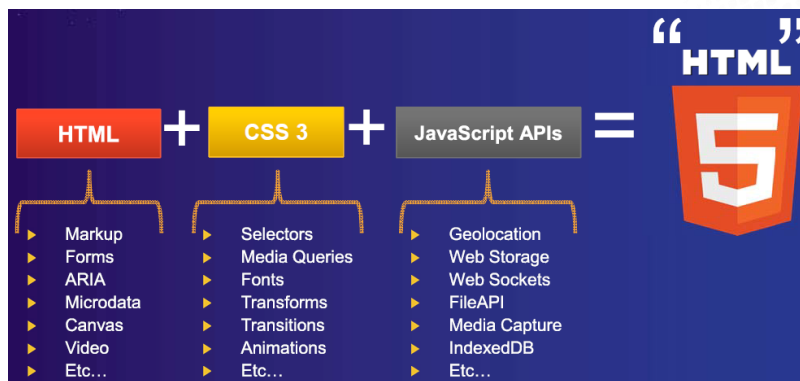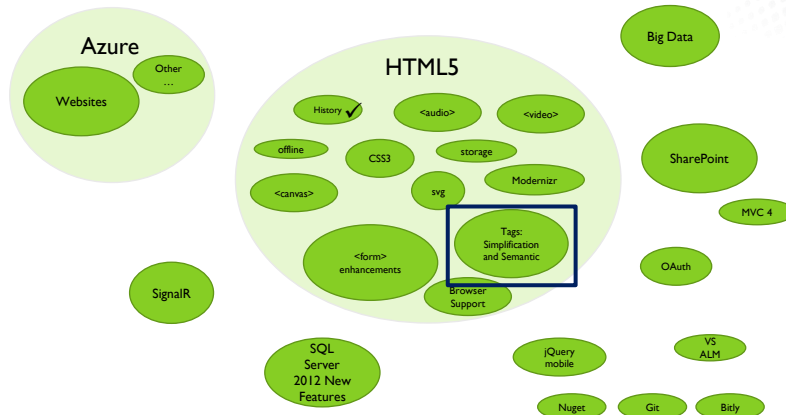- **Marketing material**

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## HTML5 – What is it?

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



| HTML | CSS 3 | JavaScript APIs |
|---|---|---|
| Markup | Selectors | Geolocation |
| Forms | Media Queries | Web Storage |
| ARIA | Fonts | Web Sockets |
| Microdata | Transforms | FileAPI |
| Canvas | Transitions | Media Capture |
| Video | Animations | IndexedDB |
| Etc… | Etc… | Etc… |

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# What I learnt



Azure
- Other ...
- Websites

HTML5
- History ✓
- <audio>
- <video>
- offline
- CSS3
- storage
- <canvas>
- svg
- Modernizr
- <form> enhancements
- Tags: Simplification and Semantic
- Browser Support

- Big Data
- SharePoint
- MVC 4
- OAuth
- SignalR
- SQL Server 2012 New Features
- jQuery mobile
- VS ALM
- Nuget
- Git
- Bitly

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# HTML5 - Simplification
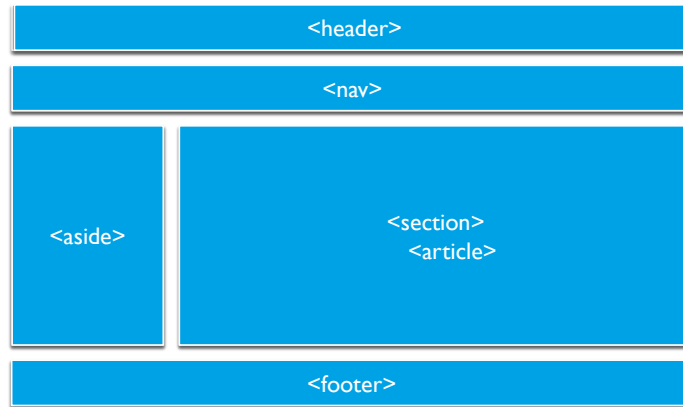
<!DOCTYPE html>

<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
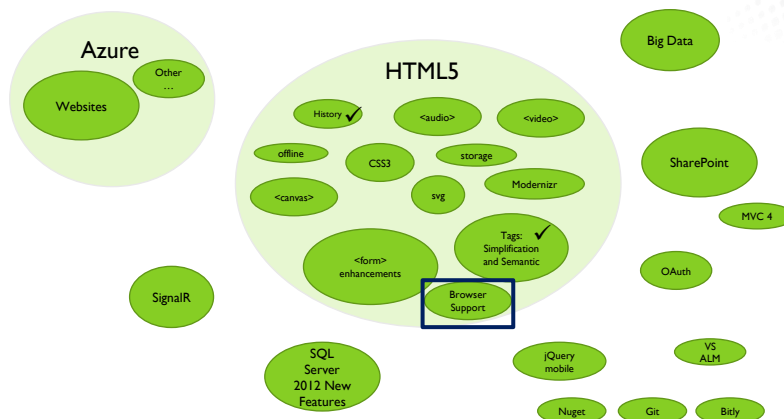  - br

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## HTML5 – New Tags

| &lt;header&gt; |
|---|

| &lt;nav&gt; |
|---|

| &lt;aside&gt; | &lt;section&gt;<br>&lt;article&gt; |
|---|---|

| &lt;footer&gt; |
|---|

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## What I learnt

Azure
- Other …
- Websites

HTML5
- History ✔
- &lt;audio&gt;
- &lt;video&gt;
- offline
- CSS3
- storage
- &lt;canvas&gt;
- Modernizr
- svg
- &lt;form&gt; enhancements
- Tags: Simplification and Semantic ✔
- Browser Support

Big Data

SharePoint

MVC 4

OAuth

SignalR

SQL Server 2012 New Features

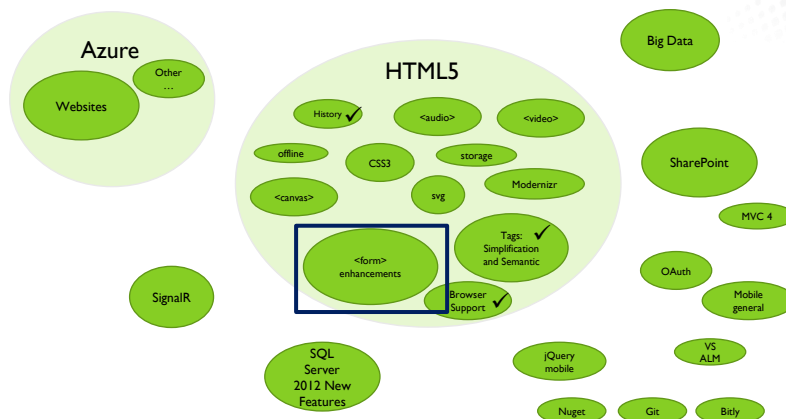jQuery mobile

VS ALM

Nuget

Git

Bitly

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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[1]

▶ **Don't "sniff" for browsers… test for features**

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

▶ **Adoption strategies: lowest common denominator, polyfill[2] enriched**

▶ **DEMO 1 – 2**
  ▶ http://html5demo1.azurewebsites.net/Index.html

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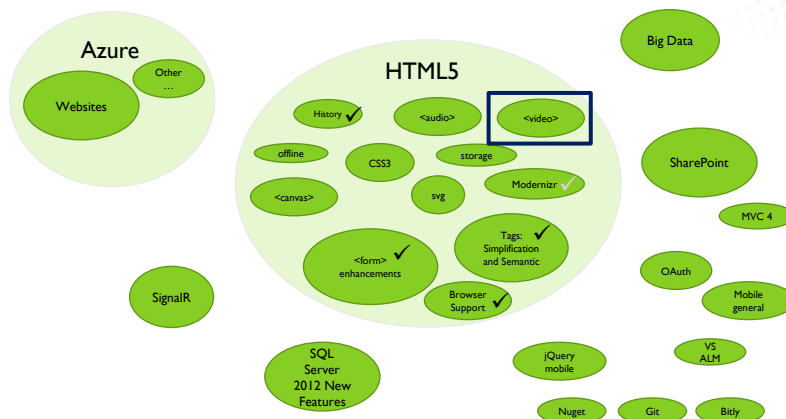
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## HTML5 Form Enhancements

- ▶ **<input type=**
  - ▶ Email, url, search, number, date, time, color, etc
- ▶ **New attributes**
  - ▶ Placeholder, autofocus
- ▶ **Contenteditable**
- ▶ **Remember sites mentioned previously: Html5test.com, canluse.com**
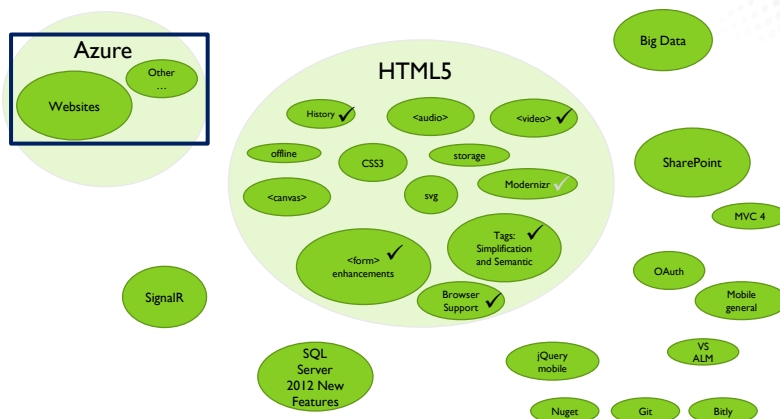- ▶ **Demo 3**
  - ▶ http://html5demo1.azurewebsites.net/Demo03-NewInputTypes.html

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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?**
  - ▶ 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"
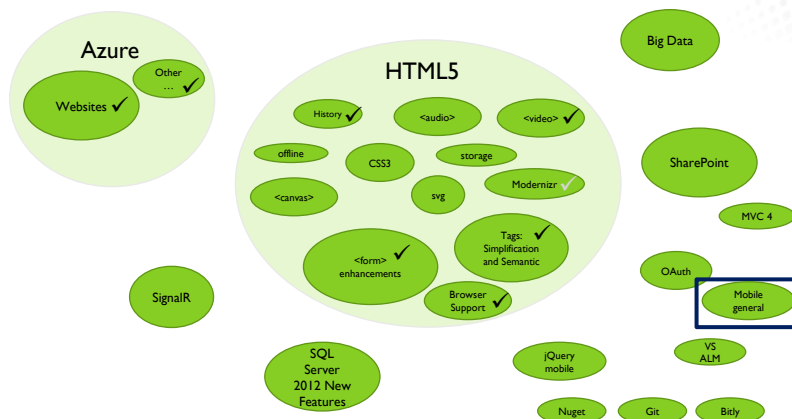  - ▶ abstraction over resources
- ▶ **Demo 5**
  - ▶ https://manage.windowsazure.com
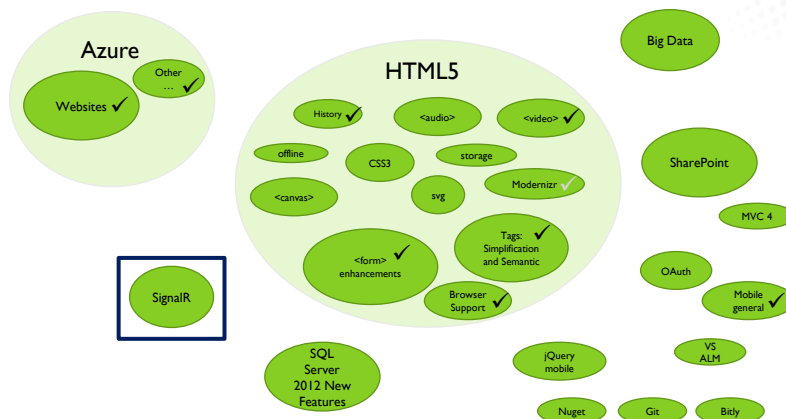
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# What I learnt



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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, user-scalable=no">
- **Demo 6**
    - Opera mobile emulator
    - Page with and without meta tag

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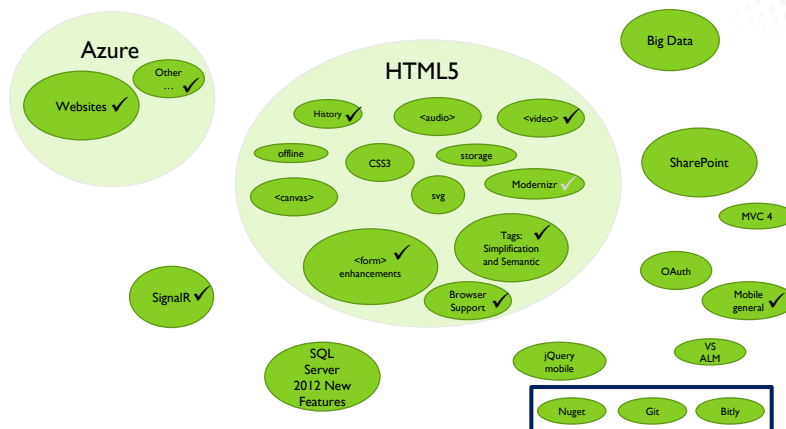
## What I learnt



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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 connections[2]**
- **Demo 7**
  - Start up demo site on Azure
  - 2 different demos here:
    - 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)

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