

Live 360! Events

Conference Review

Follow along at:

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

Presented by Darek Tomyń

Darek.Tomyn@solvera.ca

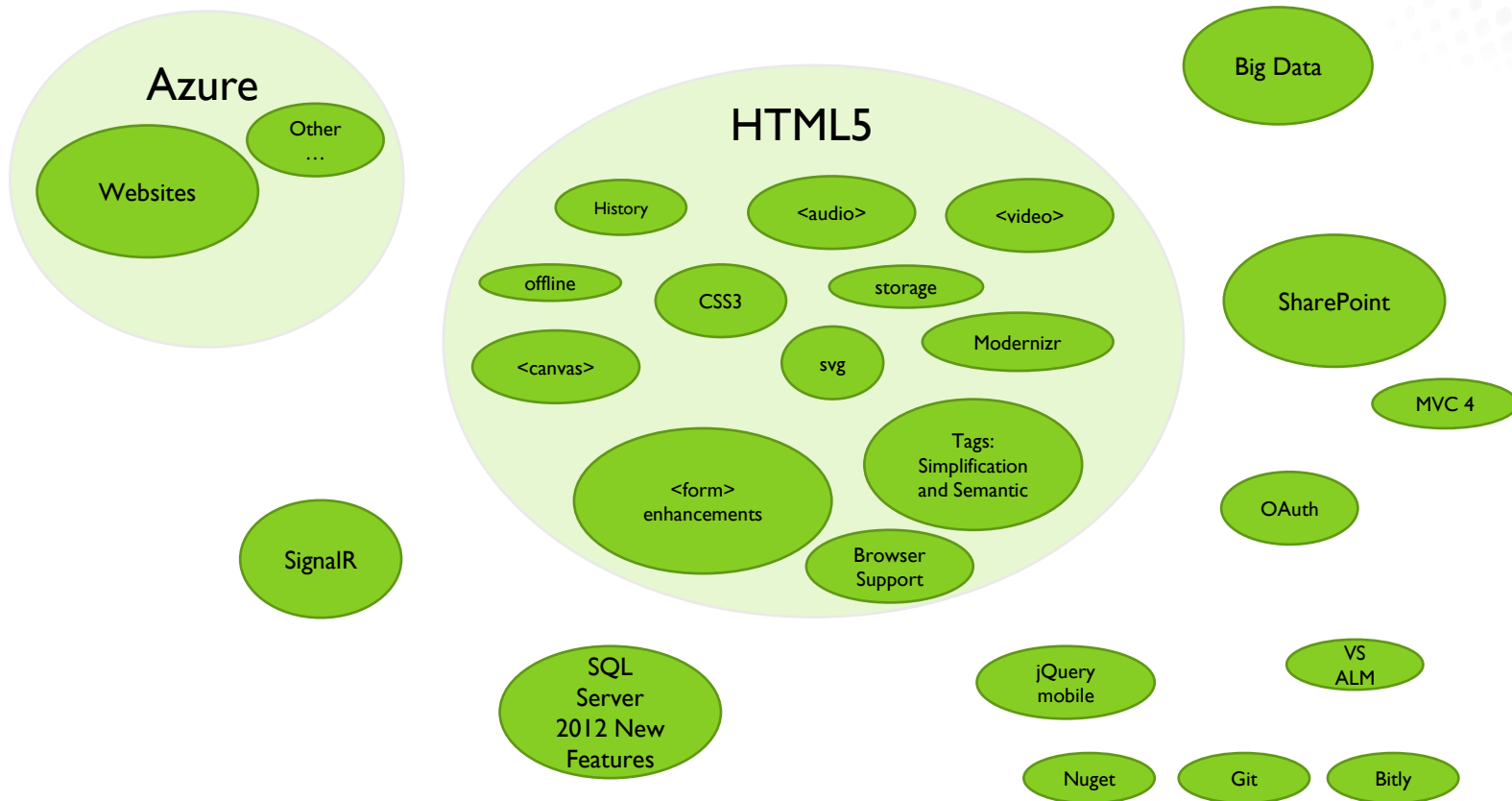
Quick Summary

- ▶ 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

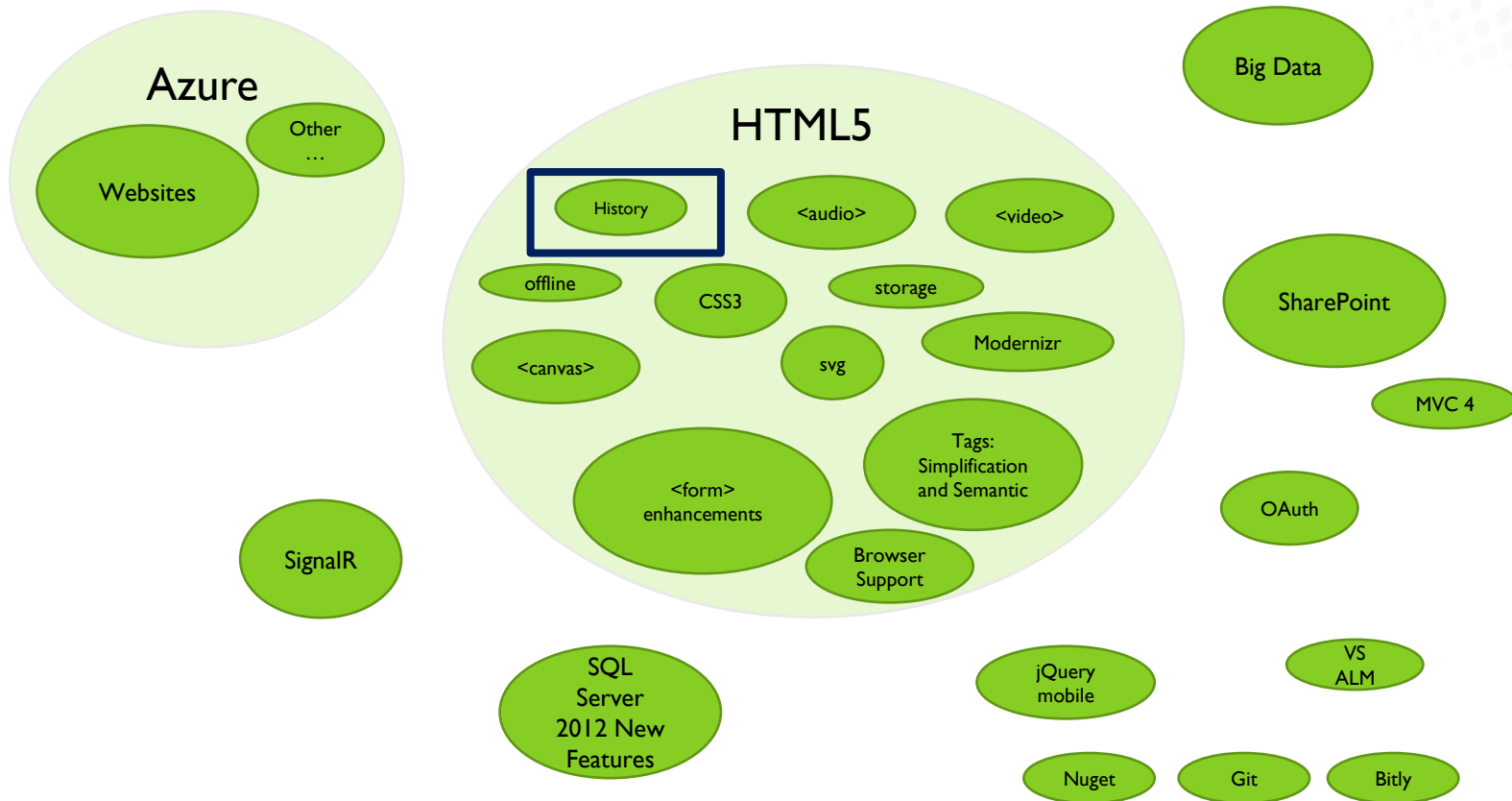
What my objectives were...

- ▶ **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?**

What I learnt



What I learnt



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 WHATWG² 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**

HTML5 History

- ▶ Apple's affect:

- ▶ "The world is moving to HTML5" - Steve Jobs
- ▶ iDevices have no support for Flash

- ▶ Logo

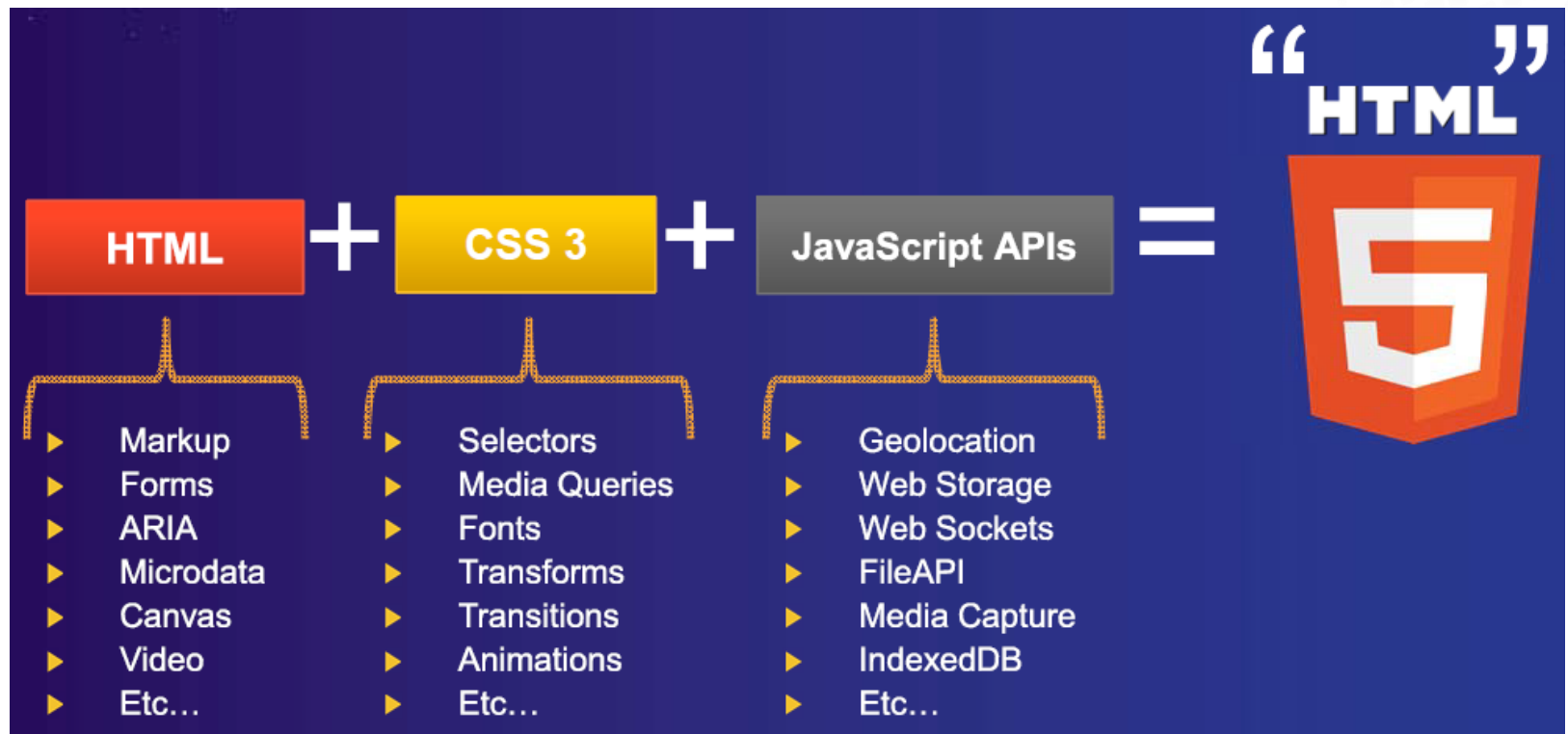


- ▶ Marketing material

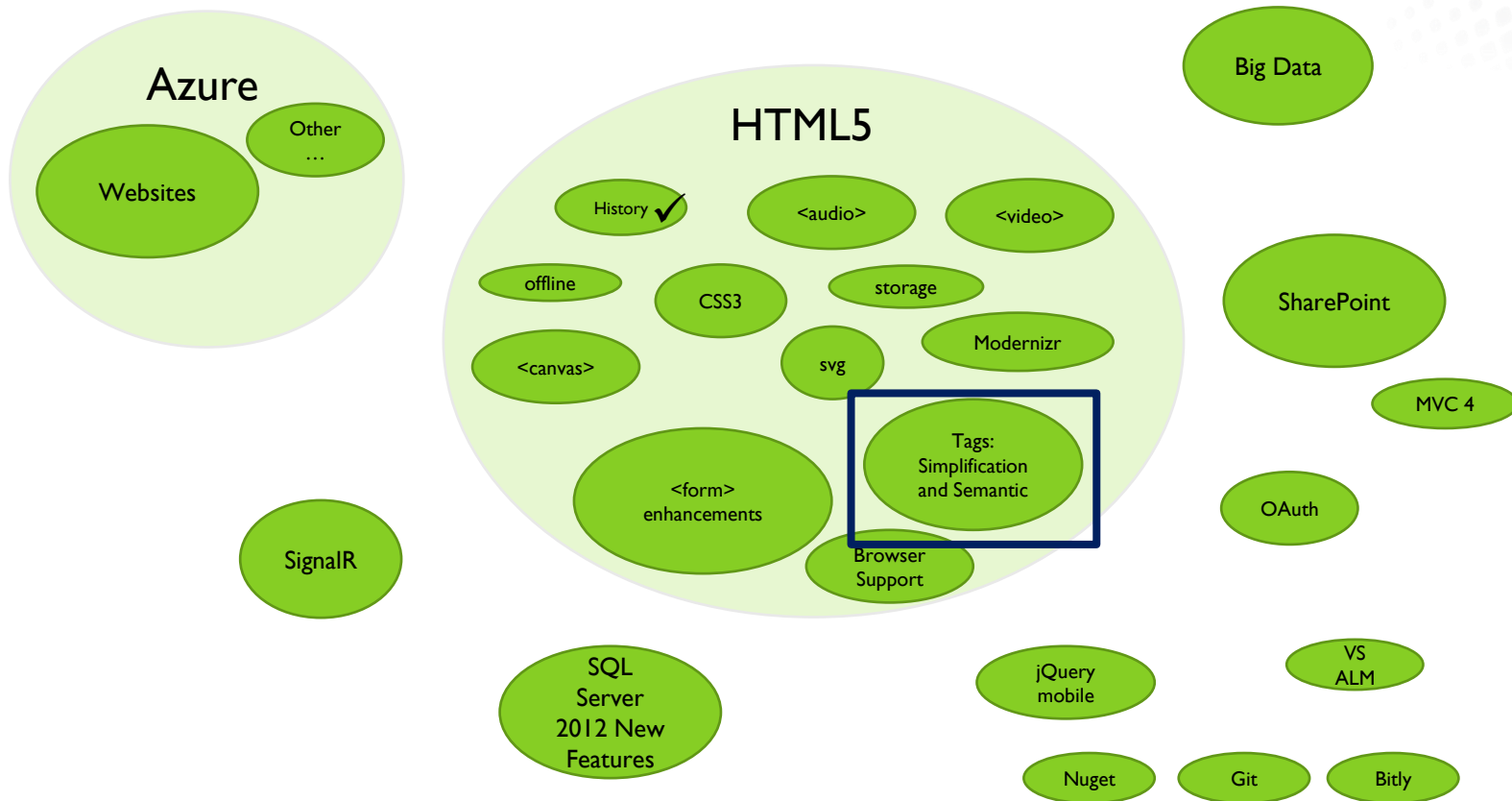


HTML5 - What is it?

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



What I learnt



HTML5 - Simplification

```
<!DOCTYPE html>
```

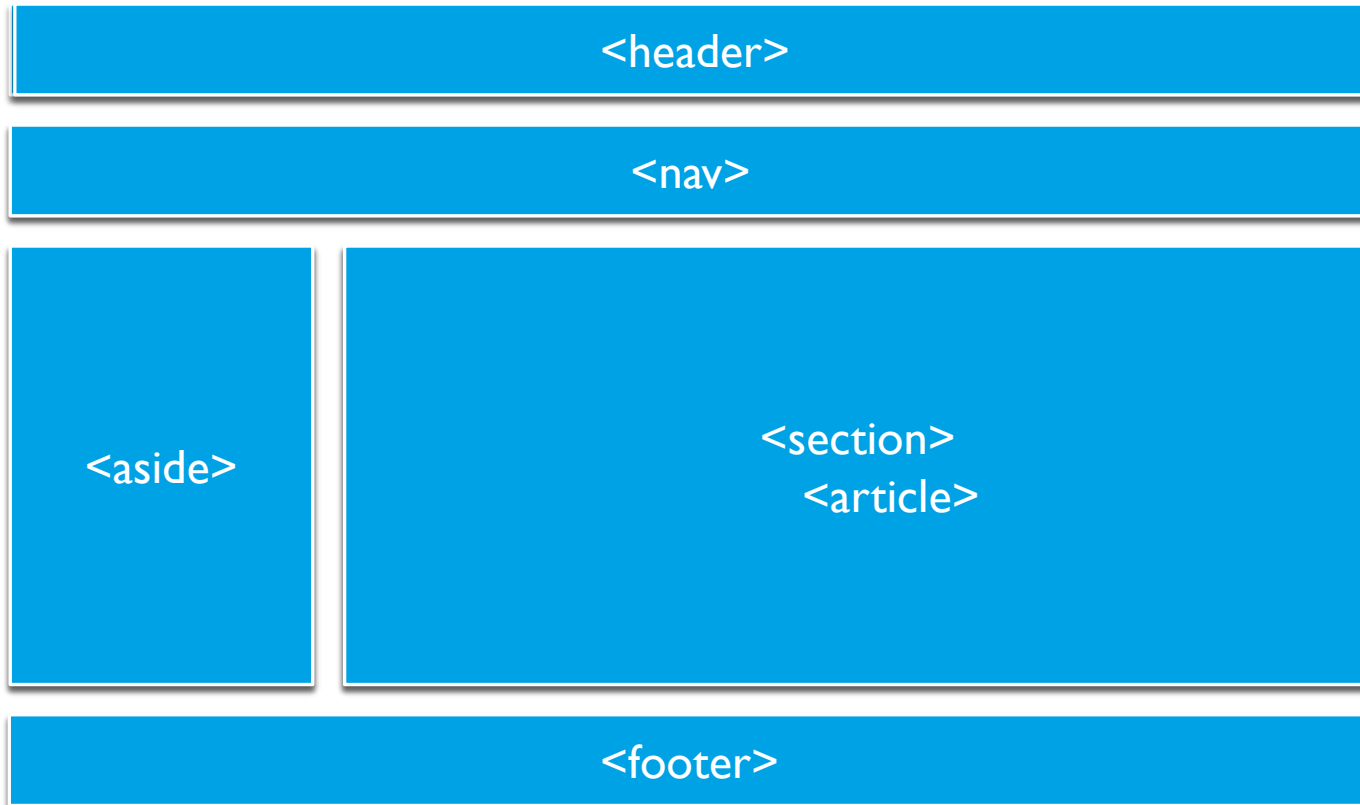
```
<html lang="en">
```

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

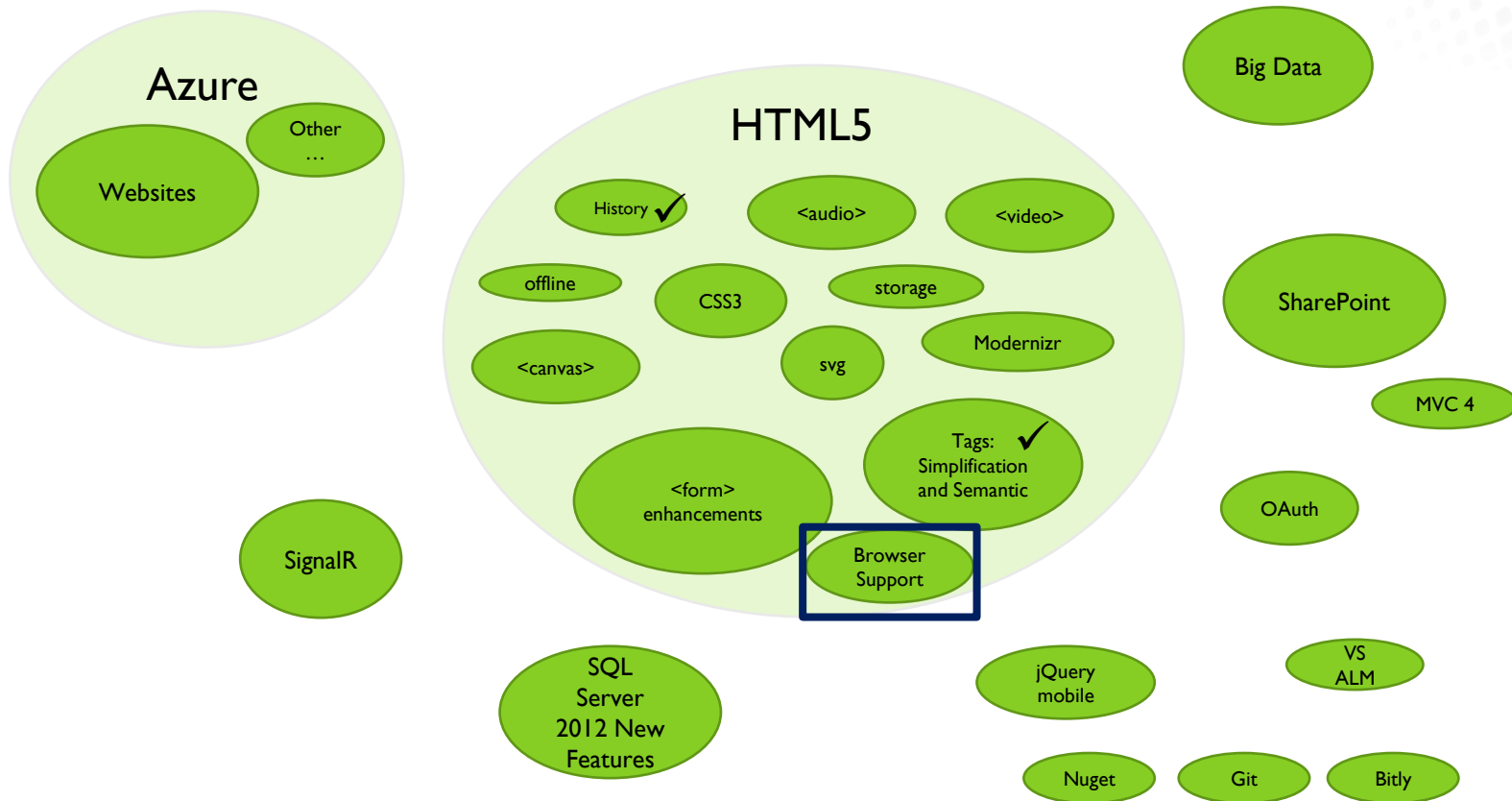
Some others:

- ▶ 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`

HTML5 - New Tags



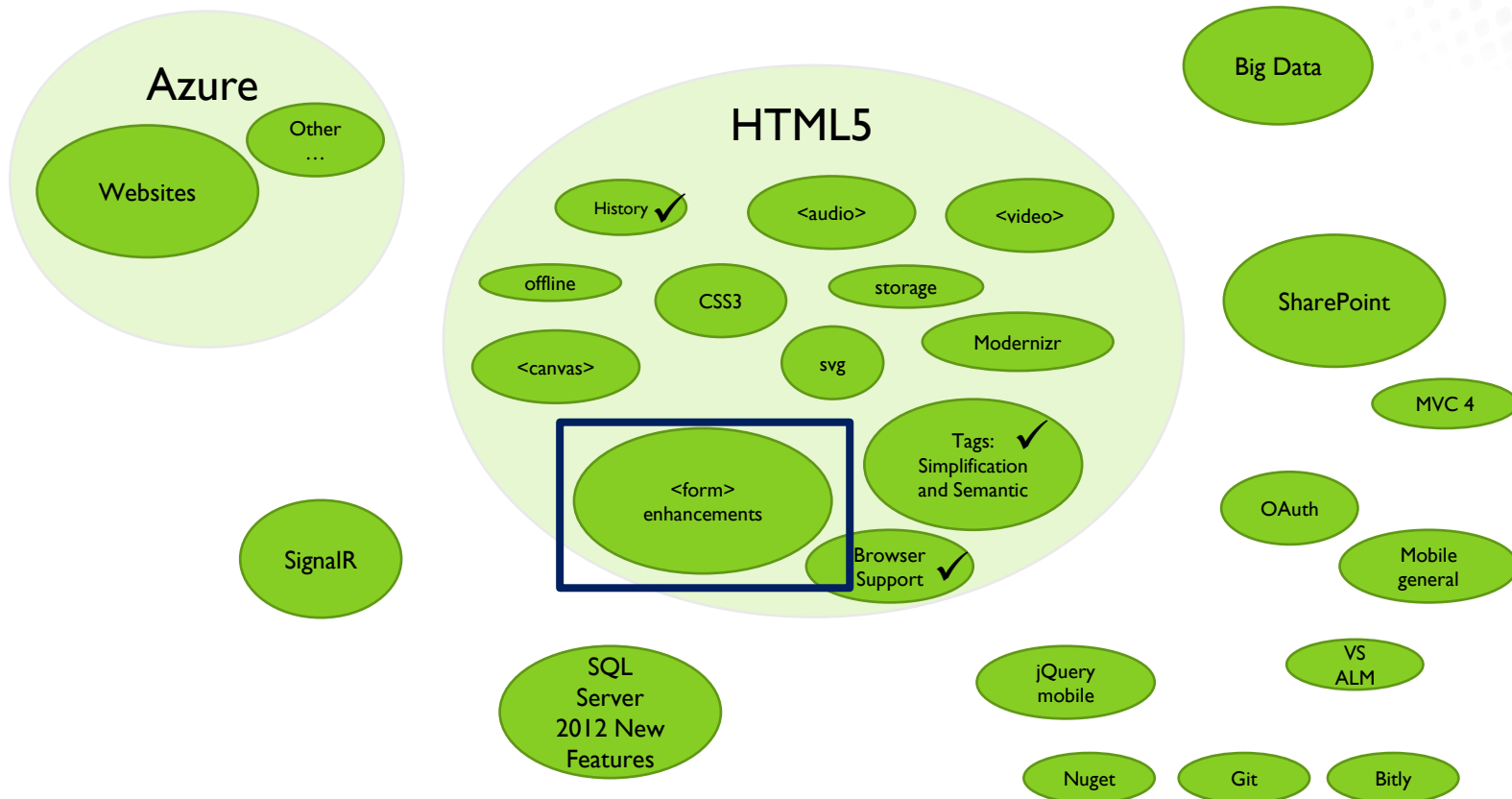
What I learnt



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 $\leq 8^1$
- ▶ [Html5test.com](#), [Canluse.com](#), and lots of others
- ▶ Adoption strategies: lowest common denominator, polyfill² enriched
- ▶ DEMO 1 - 2
 - ▶ <http://html5demo1.azurewebsites.net/Index.html>

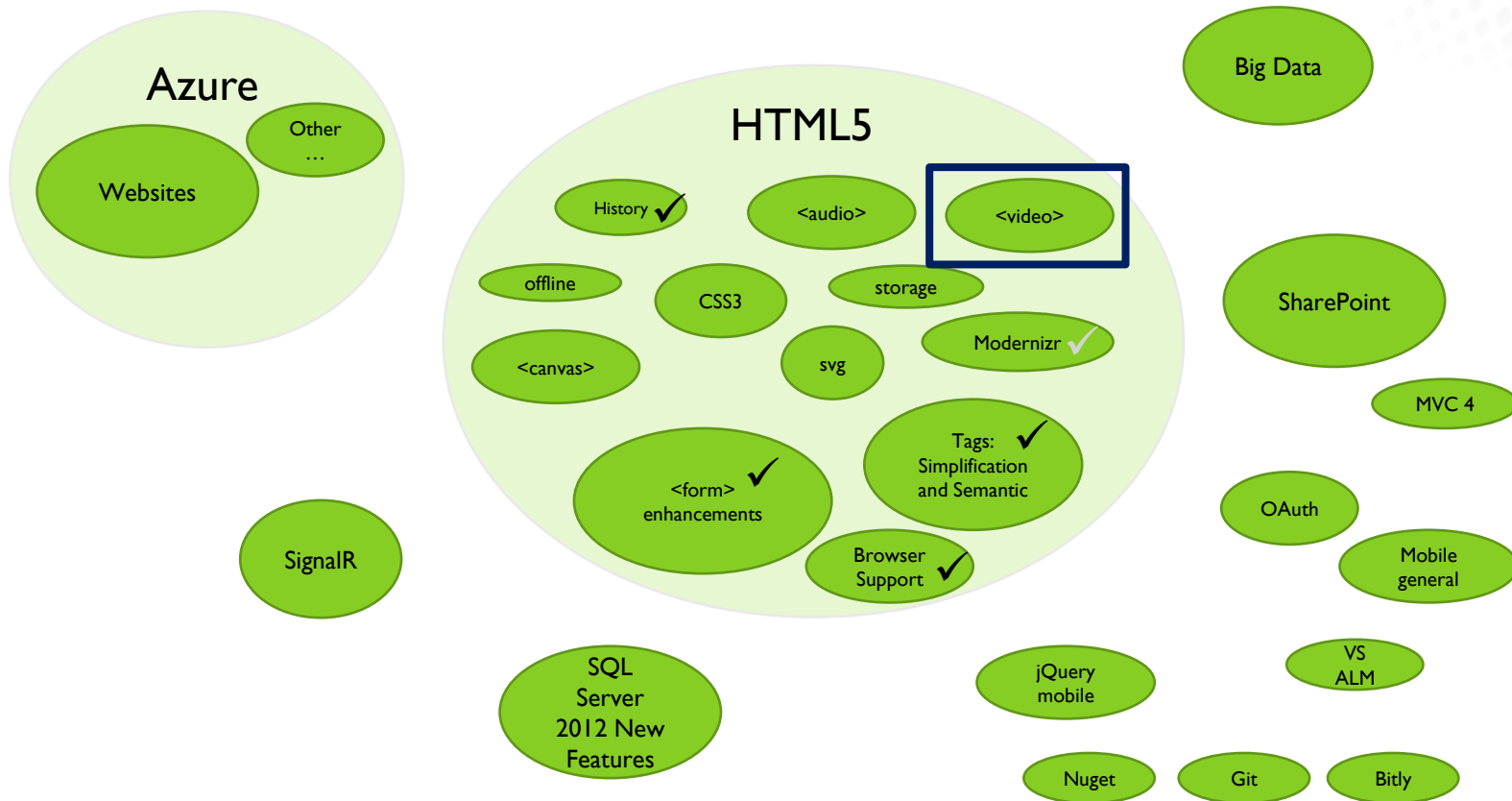
What I learnt



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>

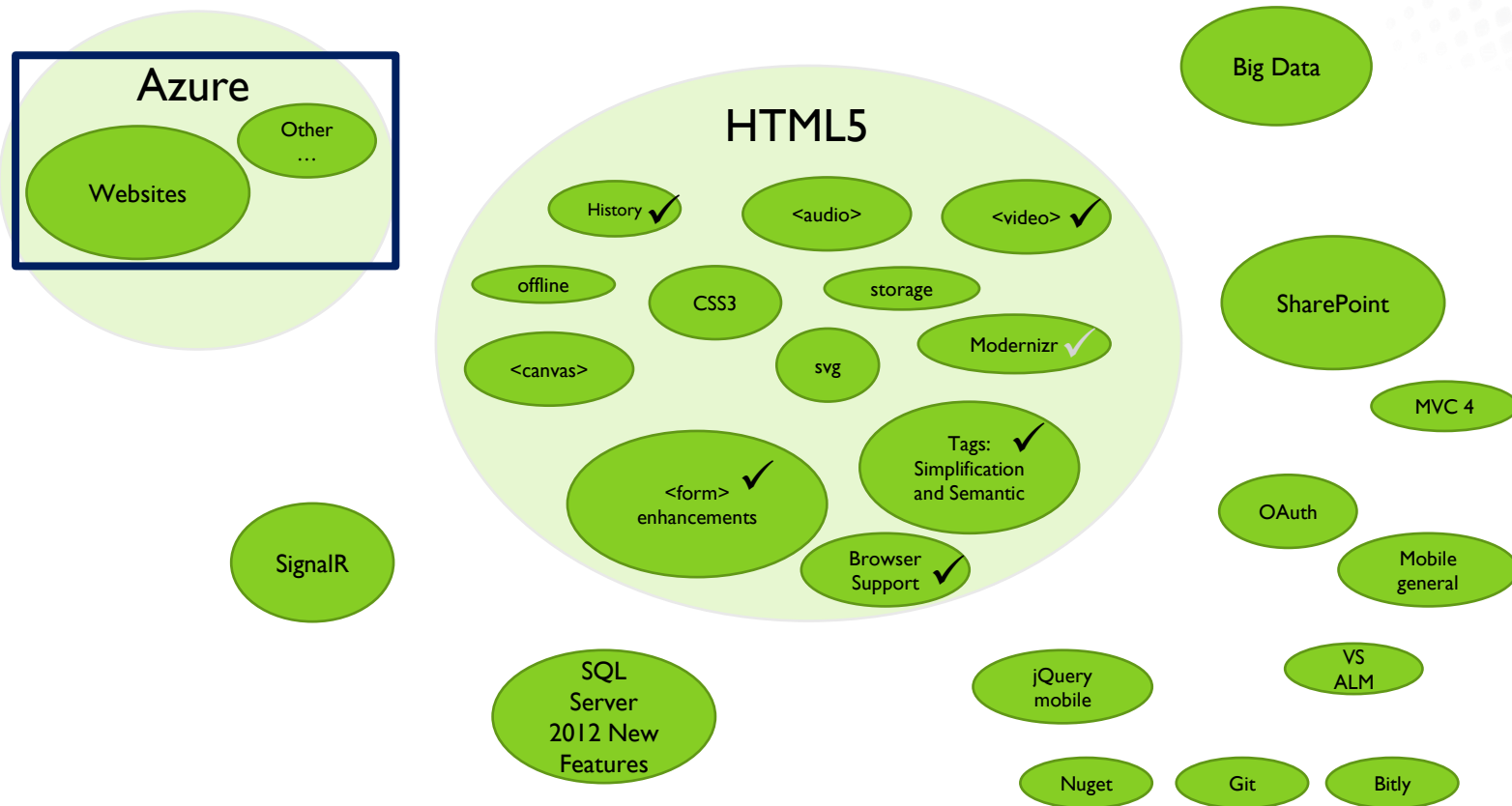
What I learnt



HTML5 MultiMedia Enhancements

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

What I learnt



Azure

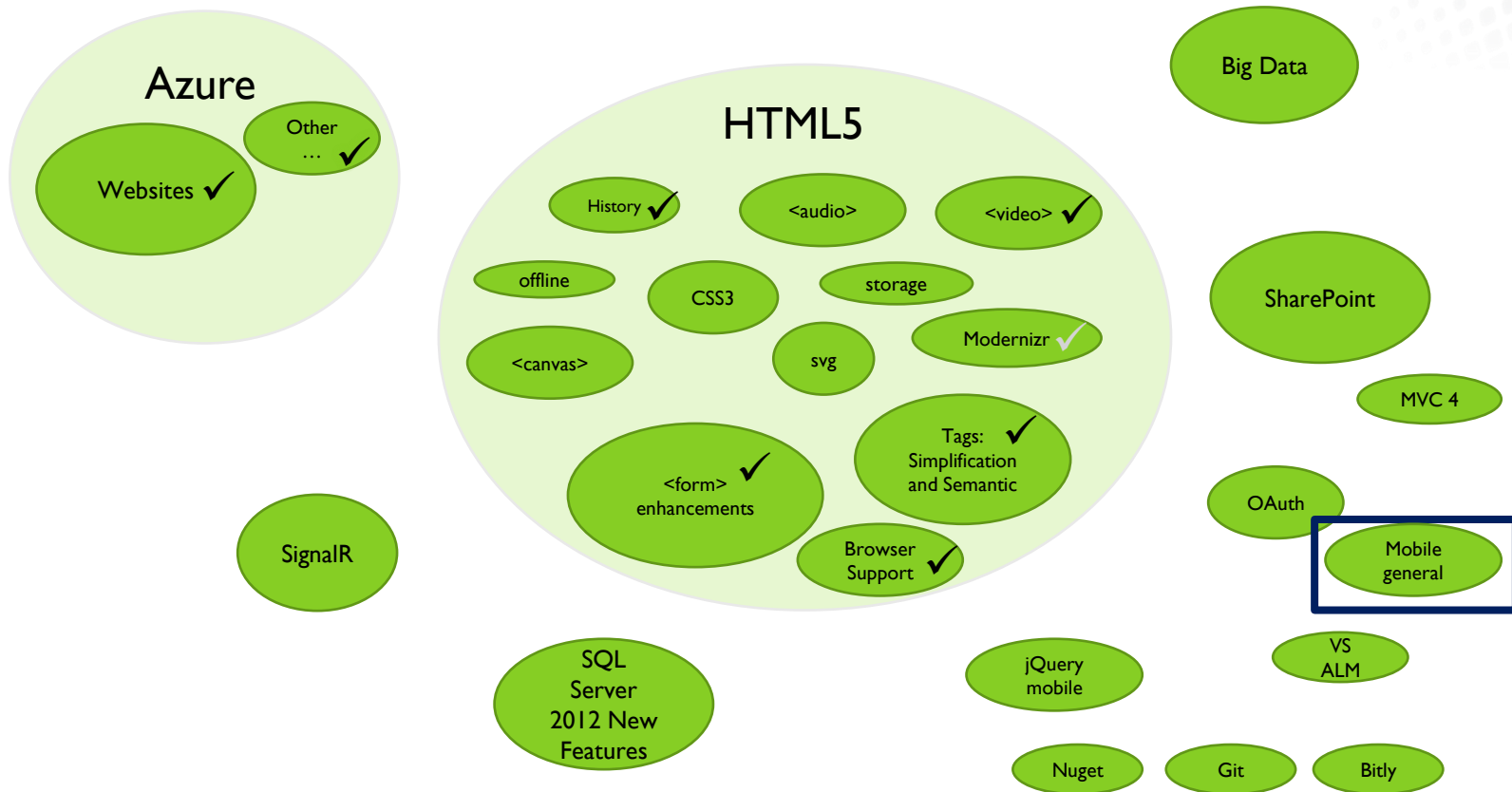
► What is it?

- 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>

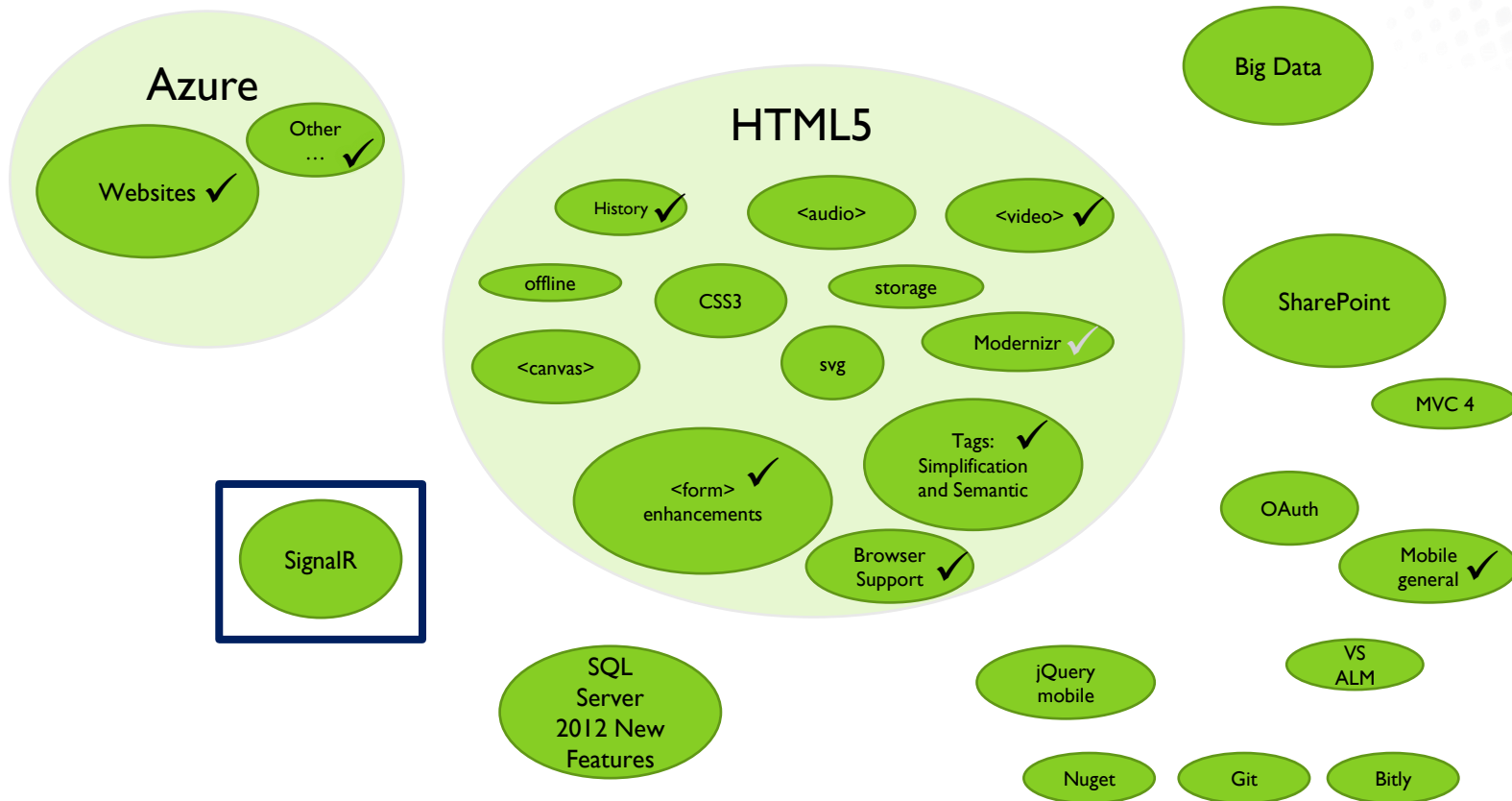
What I learnt



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

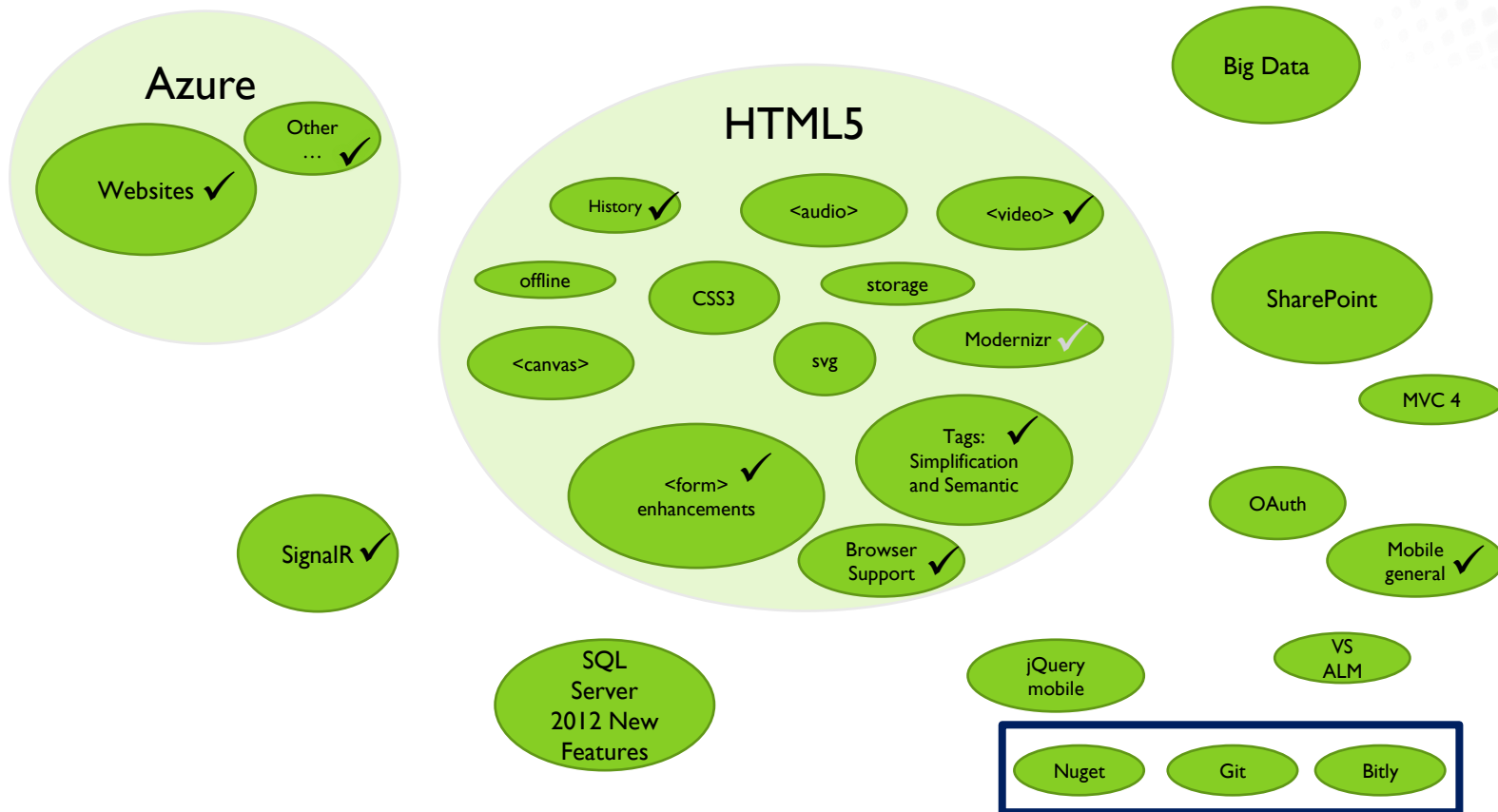
What I learnt



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
 - ▶ [Start up demo site on Azure](#)
 - ▶ 2 different demos here:
 - ▶ [HitCounter](#)
 - ▶ [Chat](#)

What I learnt



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)