

Getting Started with SignalR



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About Me



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Agenda

- A Little Bit of History
- Introducing SignalR
- Demos Demos Demos!



The Web v1.0.0.0



The Web v2.0.0.0



The Web v2.5.0.0



**“Real Time”
Applications**

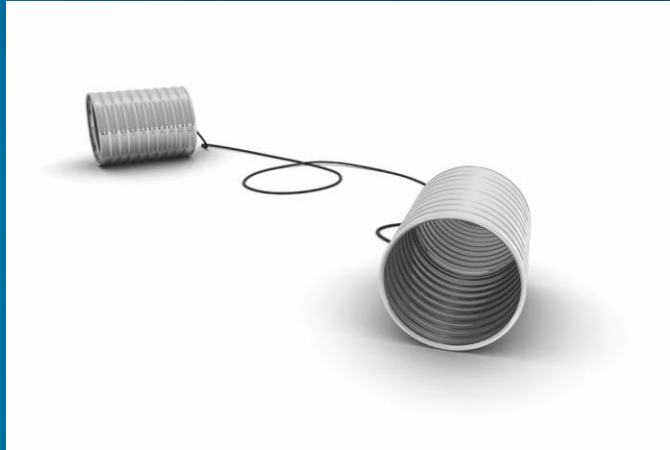
AJAX

**Single Page
Applications**

jQuery



Where are we headed?



The Web v3.0.0.0



Approaches

MOST
COMMON



SignalR

- Interval Polling

Long Polling

LEAST
COMMON

- Web Sockets



Web Sockets

- The future of asynchronous applications
- Client opens socket connection to server
- New URL scheme: ws:// or wss://
- SignalR is both a library and polyfill
- SignalR can use WebSockets if supported (otherwise, long polling)
- Hint: IIS8 is needed for ASP.NET ☺



Browser Support

- <http://www.caniuse.com/#search=socket>

Web Sockets - **Working Draft**

Bidirectional communication technology for web apps

Resources: [WebSockets information](#) [Details on newer protocol](#) [Wikipedia](#)

[Show all versions](#)

	IE	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Opera Mobile	Android Browser
	6.0	3.6				3.2		10.0	2.1
	7.0	9.0	Max			4.0-4.1		11.0	2.2
	8.0	10.0	17.0	5.0		4.2-4.3		11.1	2.3
Current	9.0	11.0	18.0	5.1	11.6	5.0	5.0-6.0	11.5	3.0
Near future	10.0	12.0	19.0	5.2	12.0			12.0	4.0
Farther future		13.0	20.0						

Usage stats: Global

Support:	44.72%
Partial support:	9.75%
Total:	54.47%

Note: Partial support refers to the websockets implementation using an older version of the protocol and/or the implementation being disabled by default (due to security issues with the older protocol). Microsoft is currently [experimenting](#) with the technology.

[Feedback](#)



Not Just for ASP.NET

- SignalR is separate from ASP.NET as of version .4
- Silverlight
- Windows Phone
- ObjectiveC
- Self Hosted

SignalR.Client.Samples	1
SignalR.Client.Silverlight	9
SignalR.Client.WP7.Sample	1
SignalR.Client.WP7	9
SignalR.Client.WP71	9
SignalR.Client	8
SignalR.Hosting.AspNet.Samples	1
SignalR.Hosting.AspNet	1
SignalR.Hosting.Owin.Samples	1
SignalR.Hosting.Owin	1
SignalR.Hosting.Self.Samples	1
SignalR.Hosting.Self	1



Internals

- “Signals” exchanged to pass data and call methods
- Persistent Connection
- Hubs
- Clients and Callers
- Works over http



DEMO



What is it good for?

- Dashboards
- Slide decks
- Chatrooms (JabbR)
- The next Twitter?
- Order/fulfillment systems
- Monitoring
- Diagnostics



Other Web Sockets Libraries

- <http://xsockets.net/>
- <http://socket.io/>
- <https://github.com/gimite/web-socket-js>
- ...and more!



Wijmo



TechConnection Live

- <http://techconnectionlive2.eventbrite.com/>



Branches and Merges are Bears, Oh My!
Craig Berntson
Chief Software Gardener at Mojo Software Works & Microsoft MVP



Intro to SignalR
Kevin Griffin
Technical Evangelist at ComponentOne & Microsoft MVP



Intro to JUICE UI
Andrew Powell
Senior Developer at appendTo



Practical MVVM
Joel Cochran
Director of Operations at Stonewall Technologies, Inc and Expression Blend MVP



Wild Card Session
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Questions?



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