# **Building a Game of Memory with SignalR**

Introduction

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## **Concept – A Game of Memory**





### What is SignalR?

- SignalR is an open source library developed by Microsoft
- SignalR simplifies the process of adding real-time web communications to an application

"Real-time web functionality is the ability to have server-side code push content to connected clients instantly as it becomes available"



## **Examples of SignalR Applications**

- Chat
- Long Polling to retrieve new data
  - Dashboards
  - Monitoring Applications
  - Real-time forms
- Real-time gaming

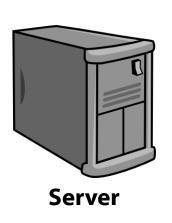


## What Does SignalR Do For Me?

- Manages Persistent Connections automatically
- Allows the broadcasting of messages simultaneously to:
  - Everyone connected
  - Caller
  - A group of callers
  - Specific connections
- Performance



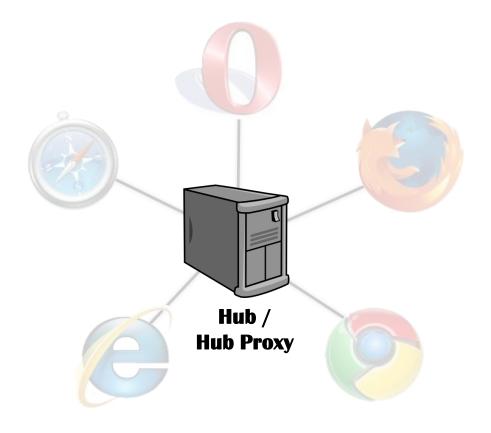
## **Transports and Fallbacks**





- WebSockets
- Server Sent Events (All browsers except IE)
- Forever Frame (for Internet Explorer only)
- Ajax long polling. (does not create a persistent connection)

#### **The Hub**



serverFunction
ASP.NET Server Application



clientFunction HTML Javascript Application

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