

# Single Page Apps with HTML5, ASP.NET Web API, Knockout and jQuery

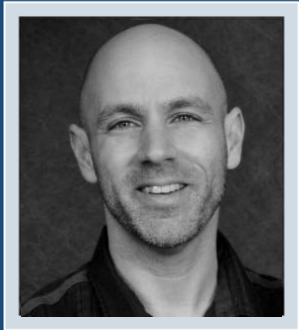
John Papa

Twitter: [@john\\_papa](https://twitter.com/john_papa)



**pluralsight**  
hardcore developer training

# Contact



**JOHN PAPA**  
@john\_papa

[www.johnpapa.net](http://www.johnpapa.net)

# Related Pluralsight Courses

- **Building HTML5 and JavaScript Apps with MVVM and Knockout**
  - John Papa
- **Introduction to the ASP.NET Web API**
  - Jon Flanders
- **Entity Framework 4.1 Code First**
  - Julie Lerman
- **A Better CSS: LESS and SASS**
  - Shawn Wildermuth
- **Using HTML5 and CSS3**
  - Michael Palermo
- **HTML5 Fundamentals**
  - Craig Shoemaker
- **jQuery Fundamentals**
  - Dan Wahlin

# Contributions



@wardbell

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IDEABLADE

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TELLURIAN INTERACTIVE

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# Special Thanks To ...



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# The Code Camper Application

John Papa



# Agenda

- Single Page Apps
- Introducing the Code Camper App
- Code Camper Technologies
- Solution Structure
- Key Resources

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- **Single Page Apps**
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# User Experience

Reliable

Responsive

Mobility

Available

# **Why a Single Page App (SPA) ?**

As rich and responsive as a desktop app but  
built with HTML5, CSS and JavaScript

# What's a SPA?

Web app that fits on a single web page  
providing a fluid UX by loading all necessary  
code with a single page load

Wikipedia  
<http://jpapa.me/wikispa>

## **You May be a SPA if ...**

maintain navigation, history, deep linking

fits on a single web page

persisting important state on the client

fully (or mostly) loaded in the initial page load

progressively downloads features as required

# SPA Similarities to RIA Plug-In Apps

## Similar problems and solutions

- Async services
- Client-side application & business logic
- Long-lived client-side state
- 2-way data binding (MVVM)
- Tombstoning / dropped connections

# DEMO

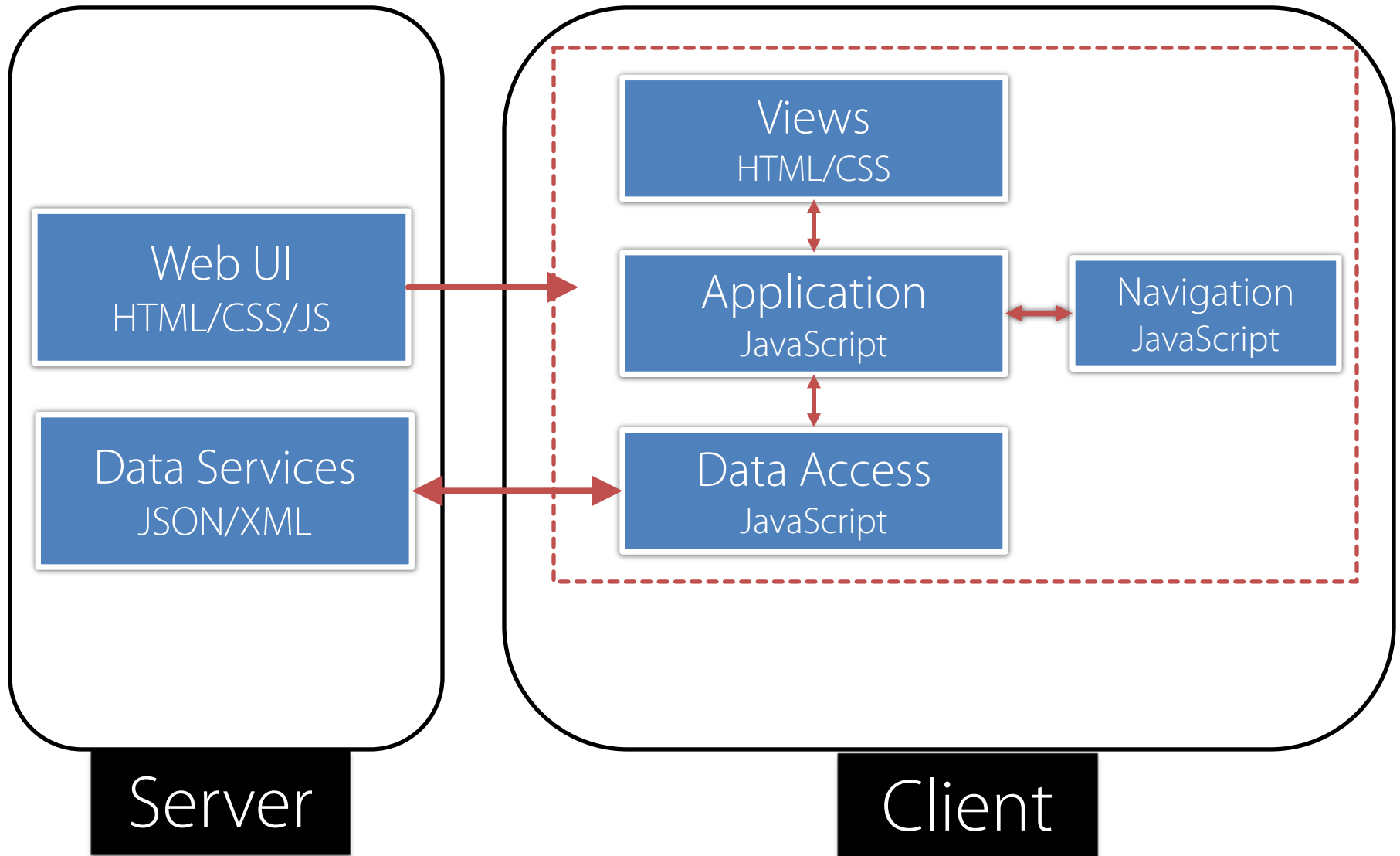
Code Camper



# Agenda

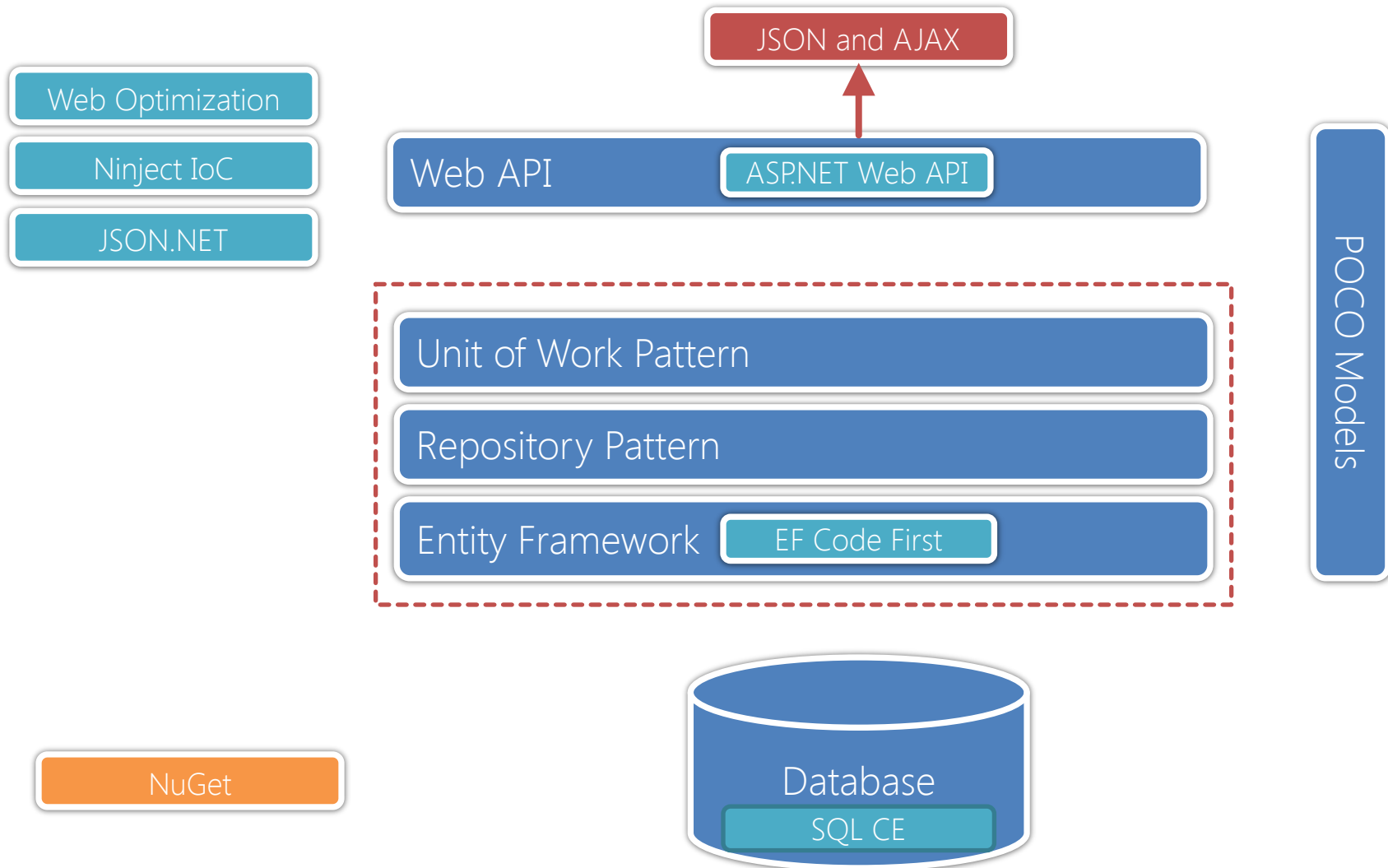
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# SPA Architecture - High Level





# Server Technologies



# HTML and CSS

HTML5

CSS

Modernizr

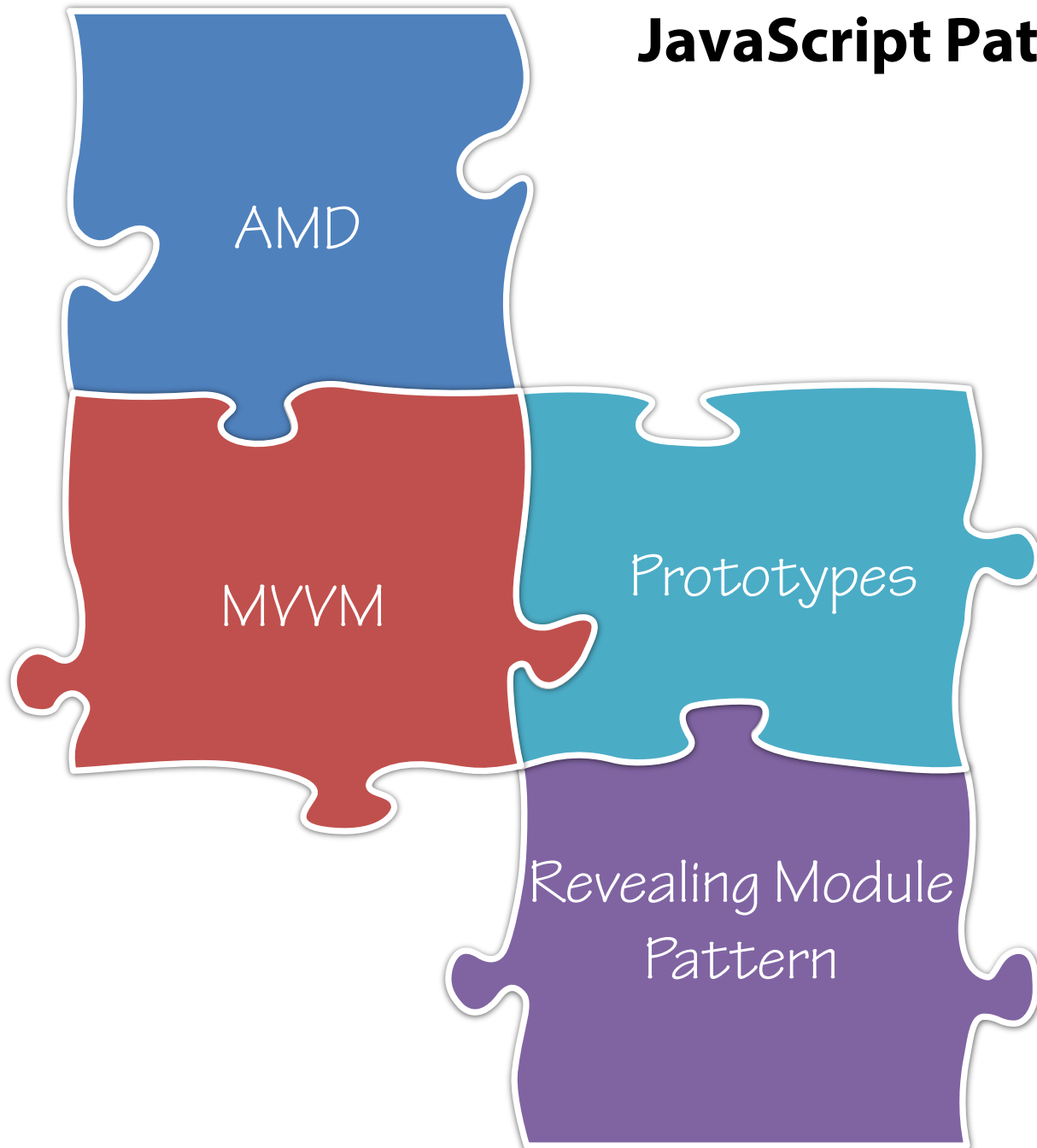
LESS

HTML5 Boilerplate

Media Queries

Responsive Design

# JavaScript Patterns



# Key Code Camper Libraries

DOM / AJAX	jQuery	jquery.mockjson
Data Binding / MVVM	knockout.js	jquery.activity
Data Push/Pull, Client Storage, Messaging	amplify.js	Commanding
		Change Tracking
Nav / History	Sammy.js	Templating
Dependency Resolution	require.js	Validation
	underscore.js	
JavaScript Helpers	moment.js	
	toastr.js	
Testing	qunit	

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# Summary

Single Page App (SPA)

Reliable

Responsive

Mobility

Available

# Summary

JOHN PAPA



# CODE CAMPER

favorites

sessions

speakers

SAT MAY 18



SUN MAY 19



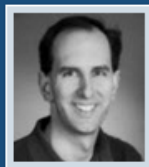
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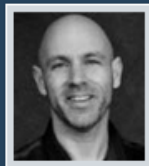
Refresh



Sat 09:00 am at Pelham Bay  
Keynote

**SCOTT GUTHRIE**  
KEYNOTE

INTERMEDIATE  
.NET



Sat 10:10 am at Venice  
Building HTML/JavaScript Apps with Knockout and MVVM

**JOHN PAPA**  
JAVASCRIPT, KNOCKOUT, MVVM, HTML5, WEB

ADVANCED  
JAVASCRIPT



Sat 10:10 am at Paris  
A JavaScript Toolbox

**WARD BELL**  
JAVASCRIPT, WEB

INTERMEDIATE  
JAVASCRIPT

