

# Loading Views with MVVM and Knockout

John Papa



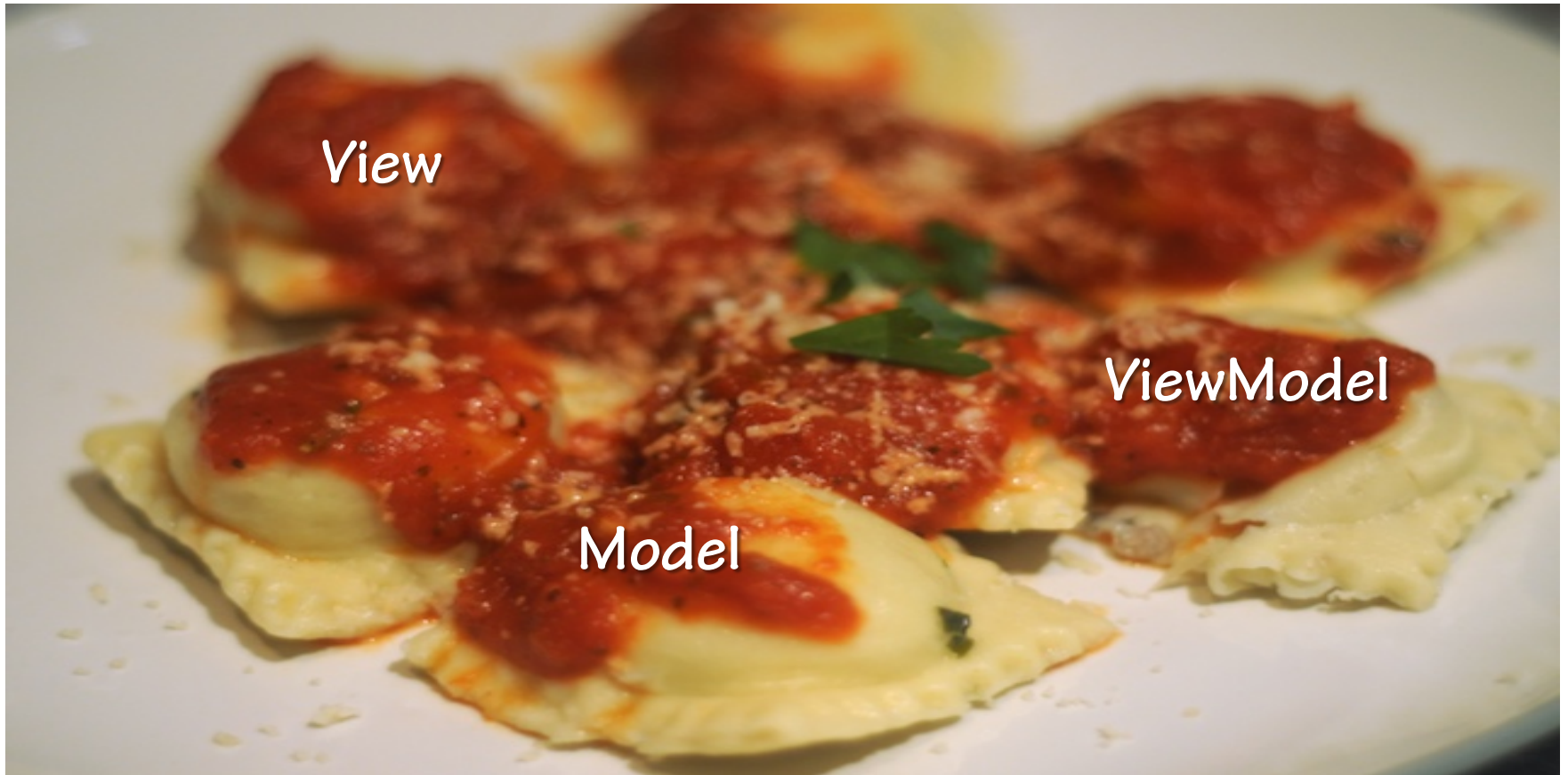
# Agenda

- **MVVM, KnockoutJS and Data Binding**
- **Breaking down the View and the ViewModel**
  - Event dates
  - Filter
  - Sessions
- **Activating a View and ViewModel**

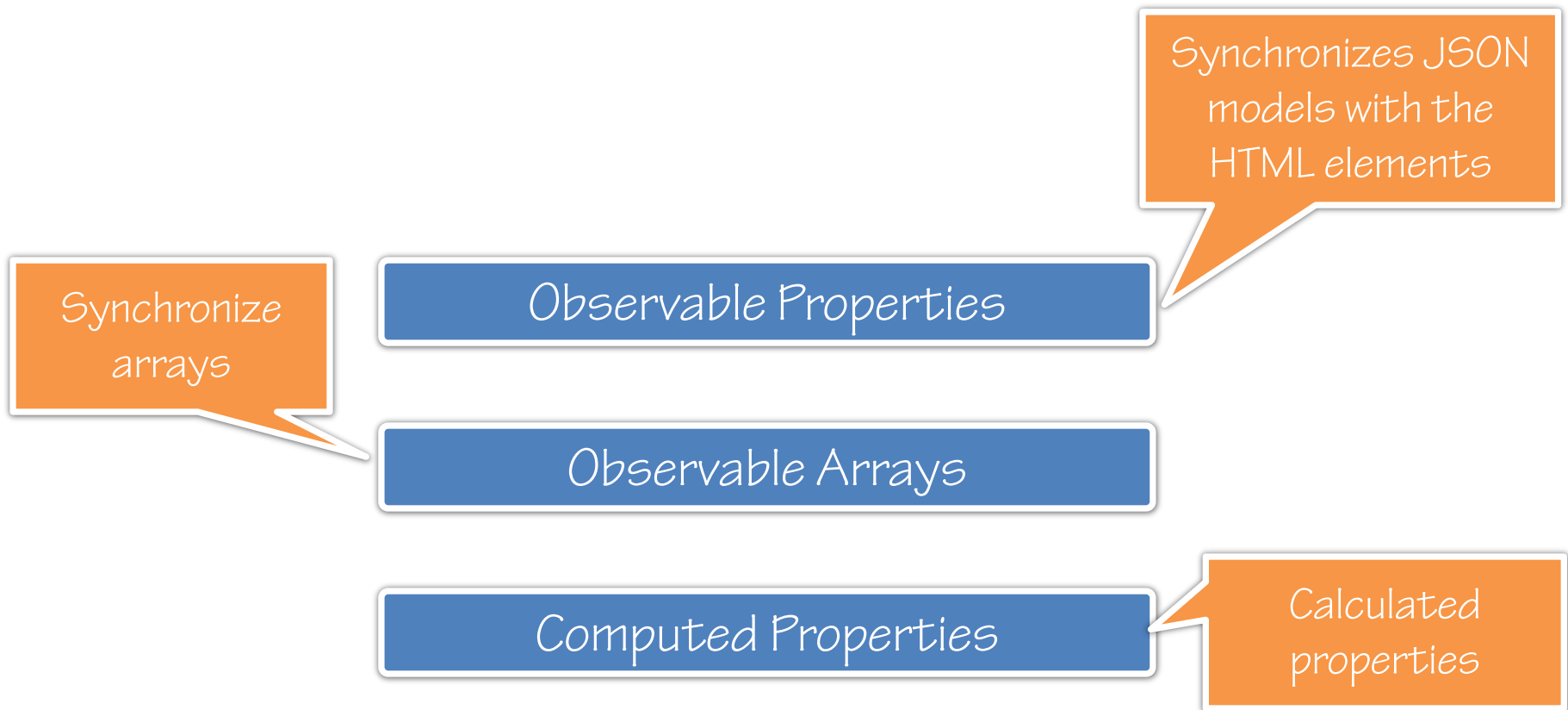
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# MVVM and Ravioli Code



# How Does Knockout Help?



**pluralsight**  
hardcore developer training



## Building HTML5 and JavaScript Apps with MVVM and Knockout

Learn how to build robust and maintainable Web applications with JavaScript patterns, MVVM, and KnockoutJS.

# Knockout in a Nutshell

1  
Declarative  
Binding

```
<input data-bind="value: firstName" />
```

2  
Create an  
Observable

```
var myViewModel = {  
  firstName: ko.observable('John')  
};
```

```
ko.applyBindings(myViewModel);
```

3  
Connect the  
ViewModel to the View

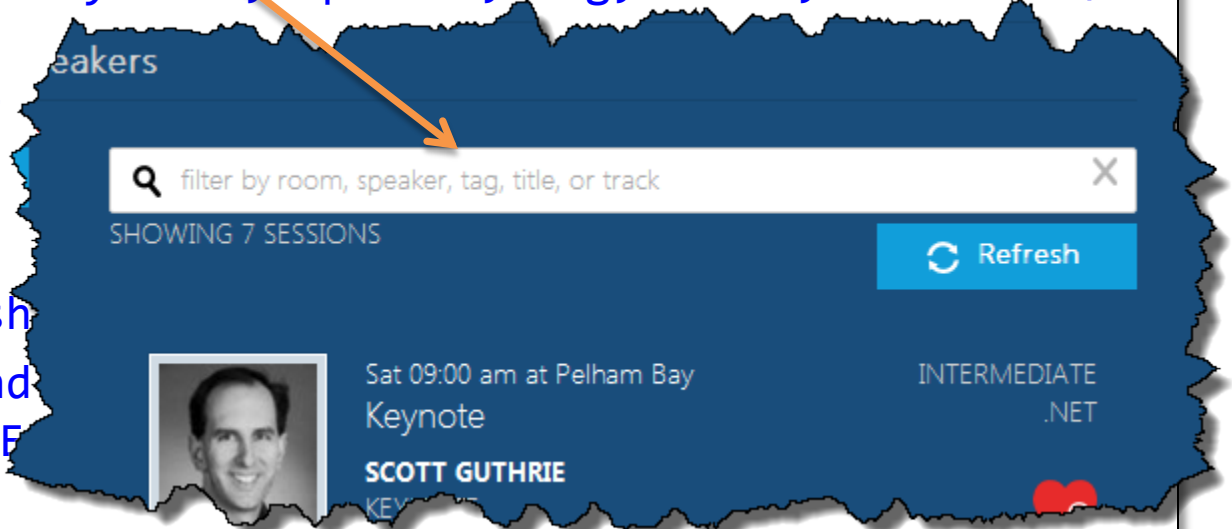
# Knockout in Code Camper

```
<input class="filter-box" type="text"  
  data-bind="value: sessionFilter.searchText,  
  valueUpdate: 'afterkeydown', escape: clearFilter"  
  placeholder="filter by room, speaker, tag, title, or track"/>
```

```
<a class="clear-text"  
  title="Clear"></a>
```

```
<button class="refresh"  
  data-bind="command: forceRefreshCmd.isF  
  Refresh</button>
```

```
<small>Showing <span data-bind="text:sessions().length"></span>  
  sessions</small>
```





# CODE CAMPER

JOHN PAPA

favorites

sessions

speakers

SAT MAY 18



SUN MAY 19



1

Date bindings

3

Session List Bindings

2

Filter Bindings



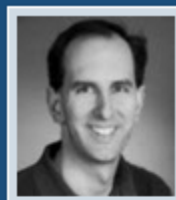
filter by room, speaker, tag, title, or track



SHOWING 7 SESSIONS



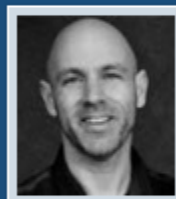
Refresh



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





# Modularity

- **MVVM**
  - Separation of HTML and behavior
- **KnockoutJS**
  - Data Binding
  - Data driven Views
- **ViewModels**
  - JavaScript modules
  - Functionality for the View

# Summary

## ■ Knockout Features We Saw

- Observables
- Computed Observables
- Templates
- Binding Handlers (favorite hearts)
- Manual Subscriptions (filter change)
- Throttle (filters)

## ■ We Saw a Sneak Peak of ...

- DataContext to get our data
- Messenger
- Storage
- Routing / navigation

**pluralsight**  
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