

Dealing with Models

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pluralsight 
hardcore developer training

Agenda

Introduction

Models with
\$http

Models with
\$resource

Models with
Restangular

Models with
Backbone.Model

Models with
Breeze

What is a Model?

**Represents
Data and State**

Business Logic

Caching

Change Notification

\$resource models

Restangular models

Backbone Models

Backbone.Collection

Backbone.Model

Backbone.Events

Using Backbone Models

```
model.set('title', 'My Title');
```

```
model.attributes.title = 'My Title';
```

```
{{model.attributes.title}}
```

```
model.on('registered', function() {..});
```

```
this.trigger('registered', data);
```

Backbone Benefits

Represents
Data and State

Business Logic

Caching

Change Notification

Simple

Lifecycle

Breeze

Save
Offline
Data

Strongly
Typed
Query
Syntax

Change
Tracking

Object
Navigation

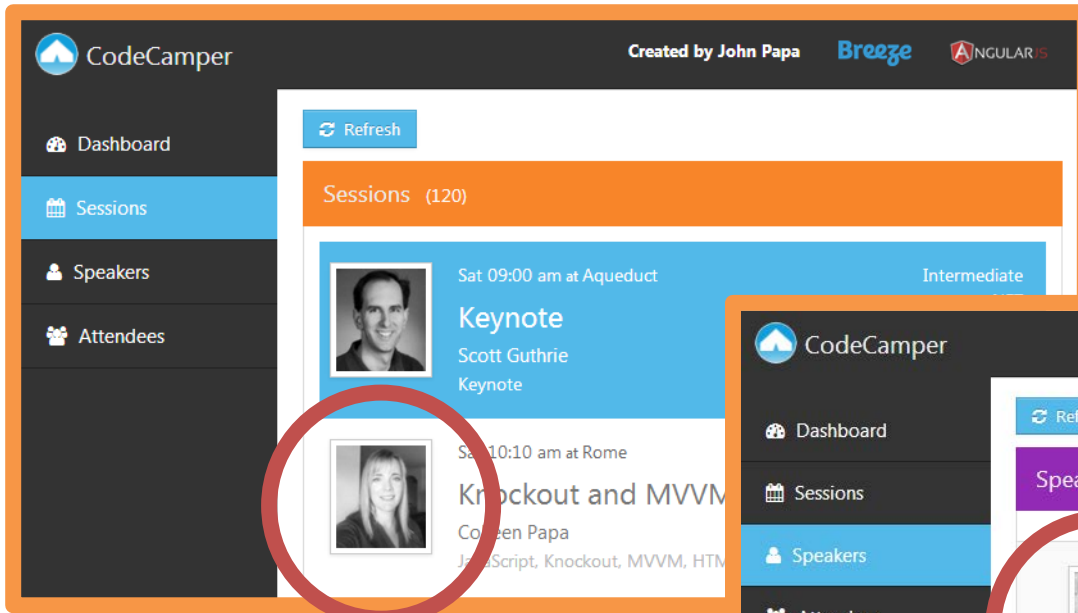
Consume
and
Extend
Models

Remote &
Local
Queries

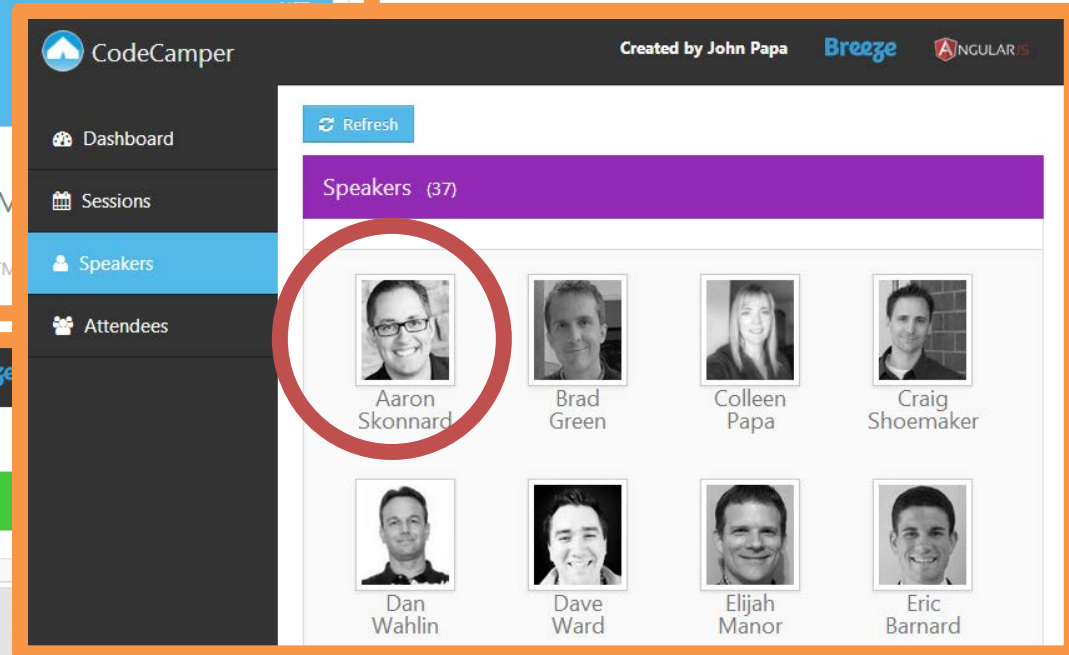
Sharing
Data

Works
Great
with
Angular

Sharing Data

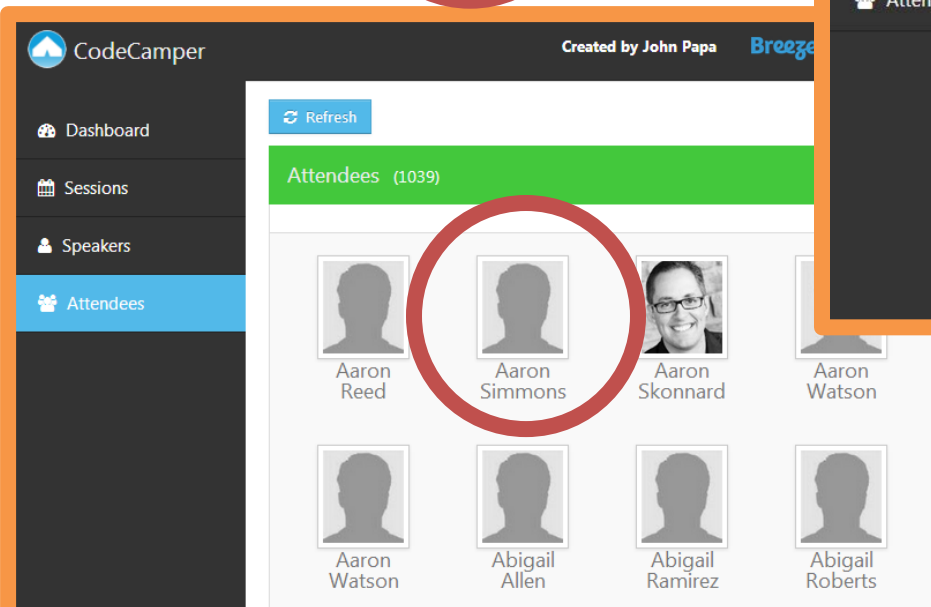


This screenshot shows the 'Sessions' page of the CodeCamper application. The left sidebar contains links for Dashboard, Sessions (highlighted), Speakers, and Attendees. The main content area has a 'Refresh' button and a header for 'Sessions (120)'. Below this, a session titled 'Keynote' by Scott Guthrie is shown, scheduled for Saturday at 09:00 am at Aqueduct. A red circle highlights a speaker's profile picture for a session titled 'Knockout and MVVM' by Colleen Papa.



This screenshot shows the 'Speakers' page of the CodeCamper application. The left sidebar contains links for Dashboard, Sessions, Speakers (highlighted), and Attendees. The main content area has a 'Refresh' button and a header for 'Speakers (37)'. Below this, a grid of speaker profiles is displayed. A red circle highlights the profile of Aaron Skonnard.

Speaker	Speaker	Speaker	Speaker
Aaron Skonnard	Brad Green	Colleen Papa	Craig Shoemaker
Dan Wahlin	Dave Ward	Elijah Manor	Eric Barnard



This screenshot shows the 'Attendees' page of the CodeCamper application. The left sidebar contains links for Dashboard, Sessions, Speakers, and Attendees (highlighted). The main content area has a 'Refresh' button and a header for 'Attendees (1039)'. Below this, a grid of attendee profiles is displayed. A red circle highlights the profile of Aaron Simmons.

Attendee	Attendee	Attendee	Attendee
Aaron Reed	Aaron Simmons	Aaron Skonnard	Aaron Watson
Aaron Watson	Abigail Allen	Abigail Ramirez	Abigail Roberts

Filtering Breeze Queries

Define the predicate

```
var predicate = breeze.Predicate.create('isSpeaker', '==', true);
```

```
return EntityQuery.from(resource)  
    .orderBy(ordering)  
    .where(predicate)  
    .using(manager)  
    .executeLocally();
```

Use the predicate

Extending a Model with Breeze

Use this Constructor

```
metadataStore.registerEntityTypeCtor('Person', Person);
```

```
function Person() {  
    this.isSpeaker = false;  
}
```

Extend the Client Model

Breeze in Action

Building Apps with Angular and Breeze by John Papa
<http://jpapa.me/ngzps>

Building Data-Centric SPAs with Breeze by Brian Noyes
<http://jpapa.me/noyesbreeze>

Conclusion

`$http`

`$resource`

`Restangular`

`Backbone.Model`

`Breeze`

Course Summary

Clean Code

Right Code
in the Right place

Testability

Versatile

Domain Specific HTML