

# **AngularJS Part 1**

Single Page Applications

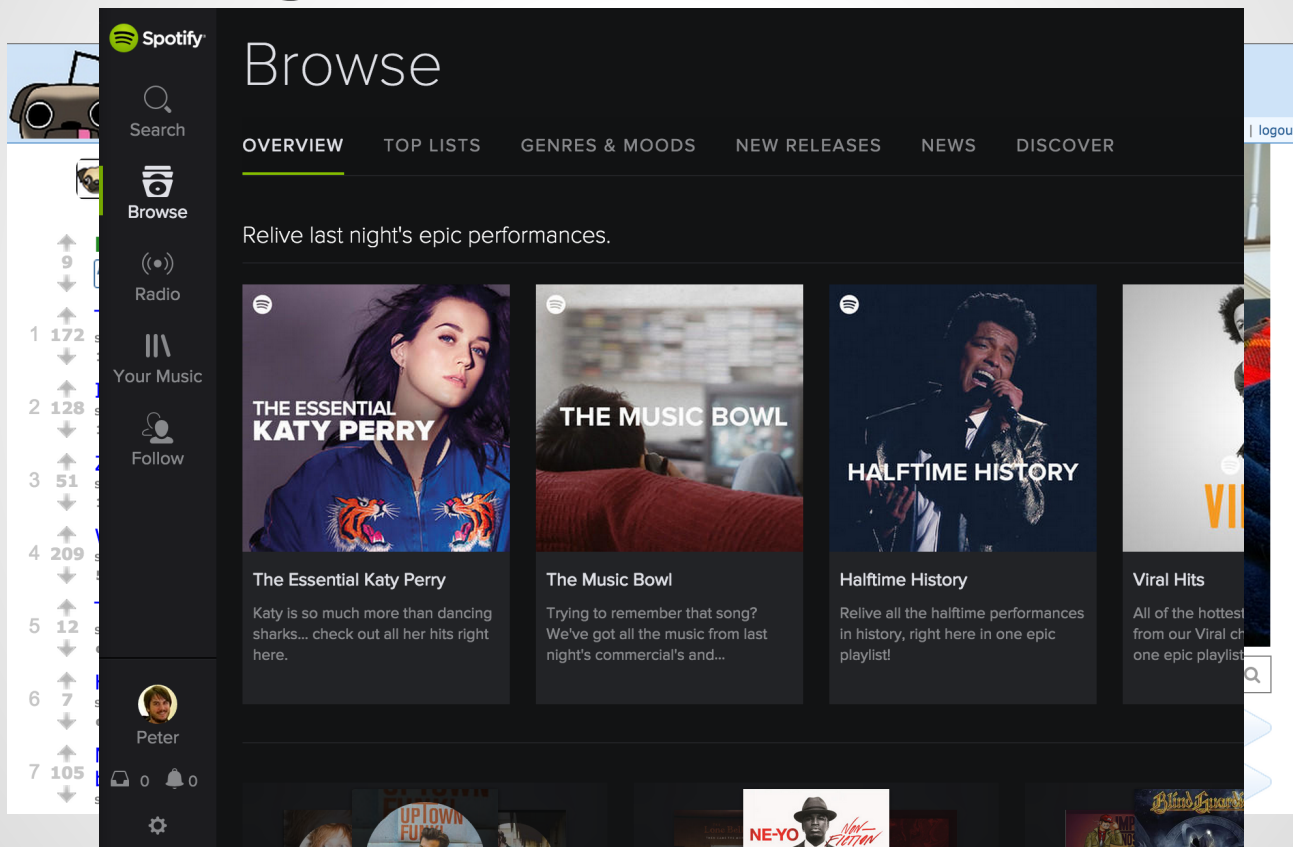
# What is AngularJS?

MVW?

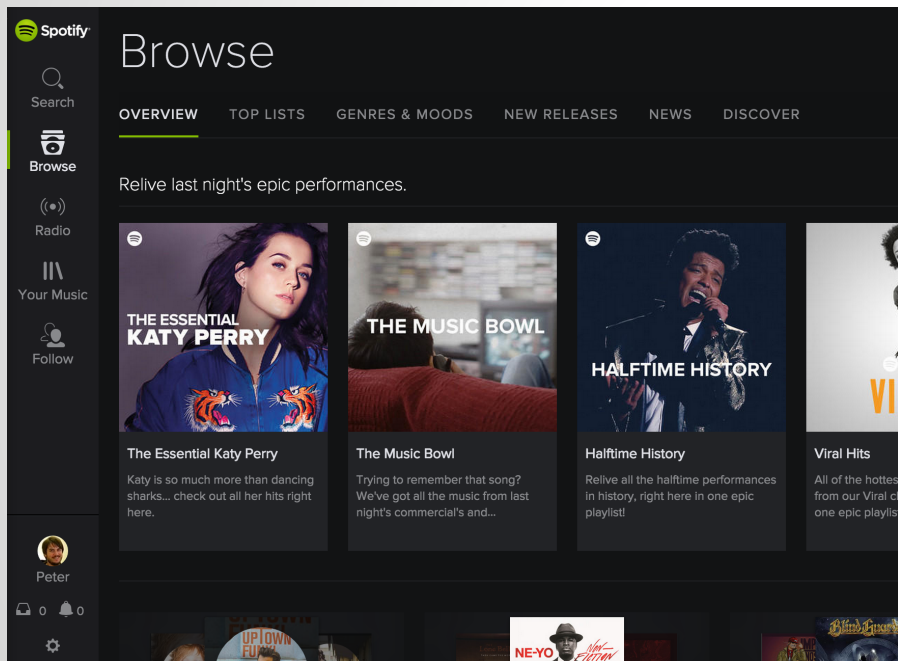
*“Having said, I'd rather see developers build kick-ass apps that are well-designed and follow separation of concerns, than see them waste time arguing about MV\* nonsense. And for this reason, I hereby declare AngularJS to be MVW framework - Model-View-Whatever. Where Whatever stands for "whatever works for you".”*

-Igor Minar  
AngularJS Lead

# What is it good for?



# What is a SPA?



REST

```
{
  "firstName": "John",
  "lastName": "Smith",
  "age": 25,
  "address": {
    "streetAddress": "21 2nd Street",
    "city": "New York",
    "state": "NY",
    "postalCode": "10021"
  },
  "phoneNumber": [
    {
      "type": "home",
      "number": "212 555-1234"
    },
    {
      "type": "fax",
      "number": "646 555-4567"
    }
  ],
  "gender": {
    "type": "male"
  }
}
```

# Let's get started

```
<p>Hello {{name}}</p>
```

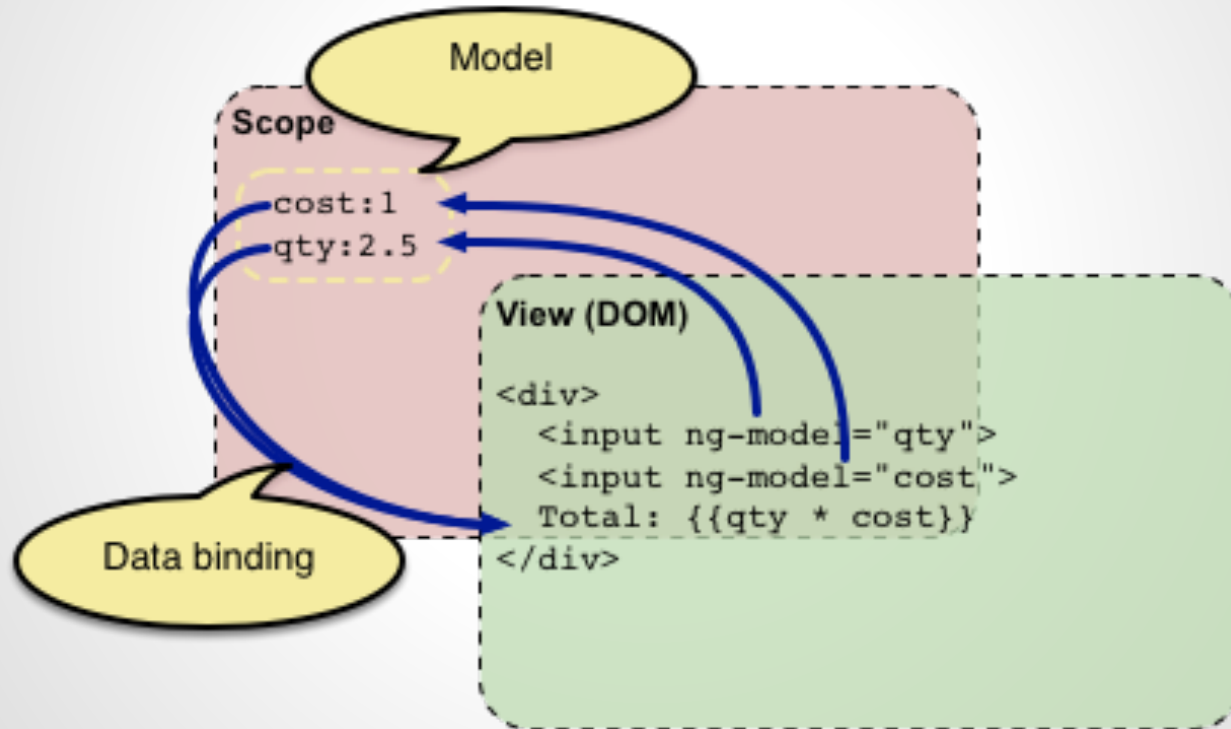
```
<p>Name: <input type="text" ng-model="name"></p>
```

```
<p>Hello {{name}}</p>
```

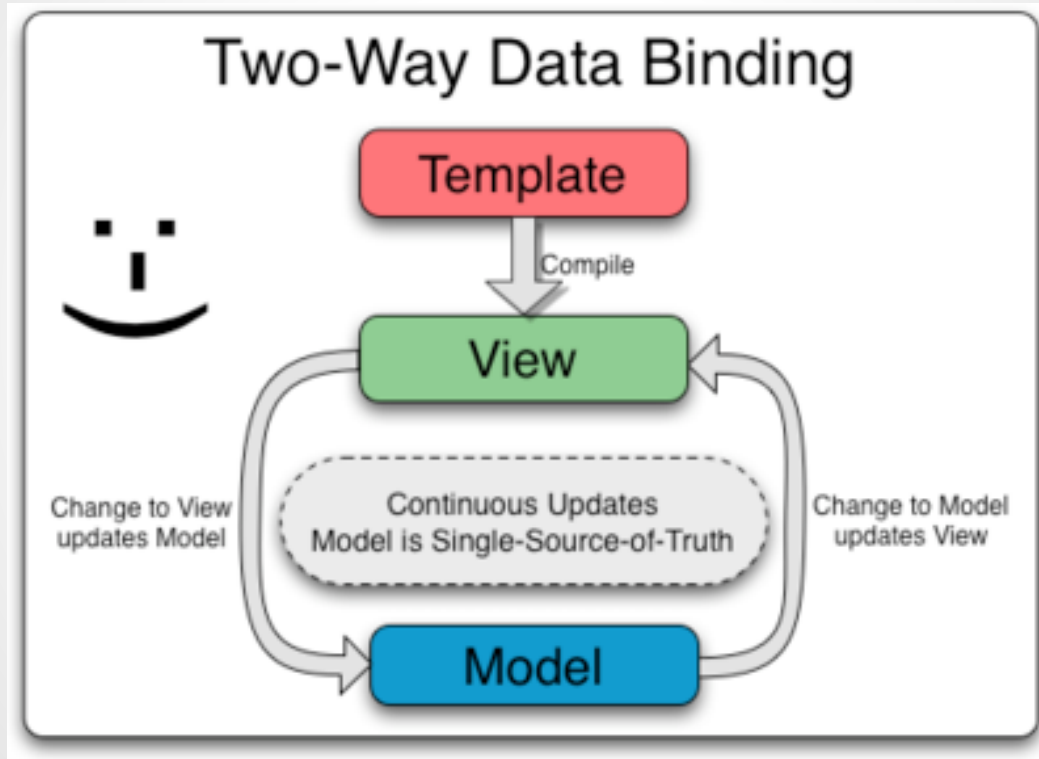
Name:

Hello



# Let's get started





# Let's get started










# The Javascript

 branch: **master** **angularjs-part-01** / + 

A couple more markdown changes.

 **petershafer** authored 34 minutes ago latest commit **a319c09807** 


 <a href="#">img</a>	Initial Commit. Note: Google Documents for lecture notes and exercise...	3 days ago
 <a href="#">scripts</a>	Initial Commit. Note: Google Documents for lecture notes and exercise...	3 days ago
 <a href="#">style</a>	Initial Commit. Note: Google Documents for lecture notes and exercise...	3 days ago
 <a href="#">templates</a>	Initial Commit. Note: Google Documents for lecture notes and exercise...	3 days ago
 <a href="#">.gitignore</a>	Initial Commit. Note: Google Documents for lecture notes and exercise...	3 days ago
 <a href="#">README.md</a>	A couple more markdown changes.	34 minutes ago
 <a href="#">index.html</a>	Initial Commit. Note: Google Documents for lecture notes and exercise...	3 days ago





# A Note...


- Examples have been incorporated directly into the repo.
- These examples have been commented and are available for your perusal.


# The Javascript


 branch: **master** ▾

**angularjs-part-01** / **scripts** / +






 

Initial Commit. Note: Google Documents for lecture notes and exercise... 

 **petershafer** authored 3 days ago

latest commit **4ac56da459** 

..

 <b>angularjs</b>	Initial Commit. Note: Google Documents for lecture notes and exercise...	3 days ago
 <b>controllers</b>	Initial Commit. Note: Google Documents for lecture notes and exercise...	3 days ago
 <b>services</b>	Initial Commit. Note: Google Documents for lecture notes and exercise...	3 days ago
 <b>app.js</b>	Initial Commit. Note: Google Documents for lecture notes and exercise...	3 days ago
 <b>routes.js</b>	Initial Commit. Note: Google Documents for lecture notes and exercise...	3 days ago

# The Javascript

22 lines (22 sloc) | 0.842 kb

Raw

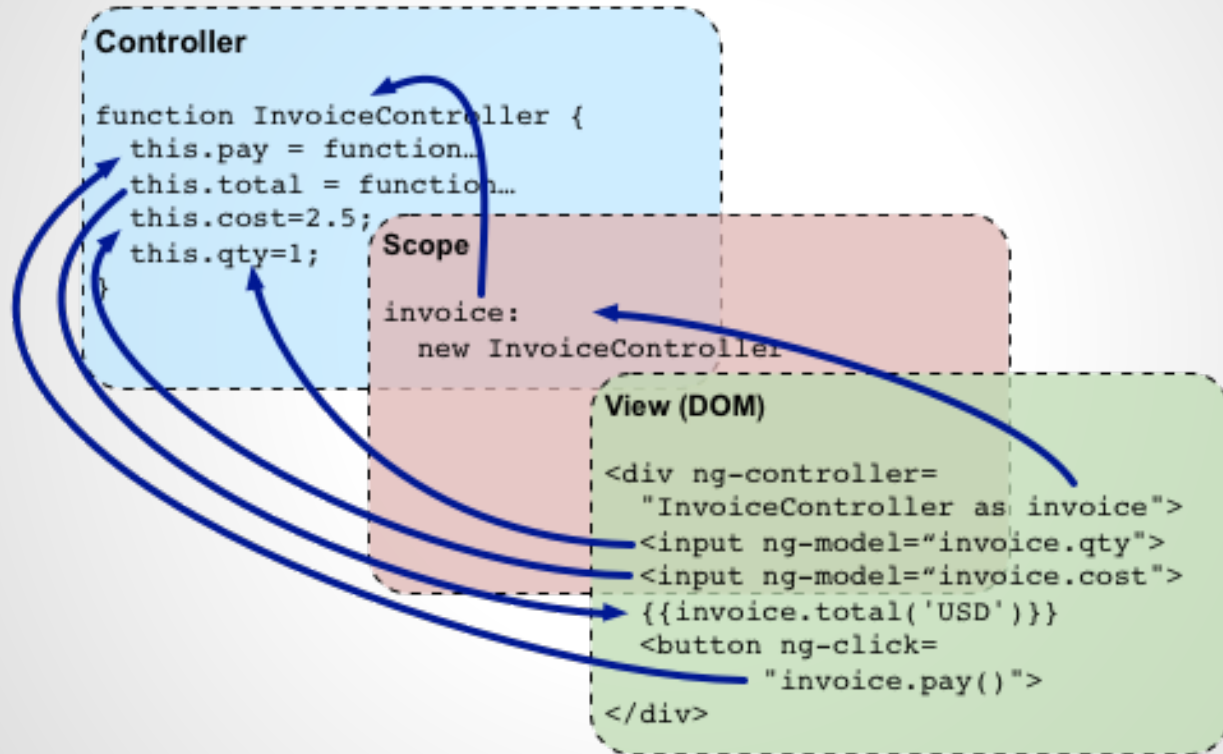
Blame

History



```
1  'use strict';
2  // Firstly, we need to wire this controller into the myApp module
3  angular.module('myApp')
4    // Here we see the name of the controller defined.
5    // Following the name, we see an anonymous function with two arguments.
6    // These arguments are functionality being injected into the controller.
7    // Think of this as being like including scripts in HTML.
8    // Unless they are referenced here, you cannot utilize them.
9    .controller('DemoController', function ($scope, DemoService, Tools) {
10     // The rest of the function defines the behavior & data that the controller will manage.
11     $scope.items = [
12       'Apples',
13       'Oranges',
14       'Bananas',
15       'Pears',
16       'Avocados'
17     ];
18     $scope.sayHello = function(name){
19       alert("Hello " + name);
20     };
21     $scope.sayHelloFromService = DemoService.sayHello;
22   });
```

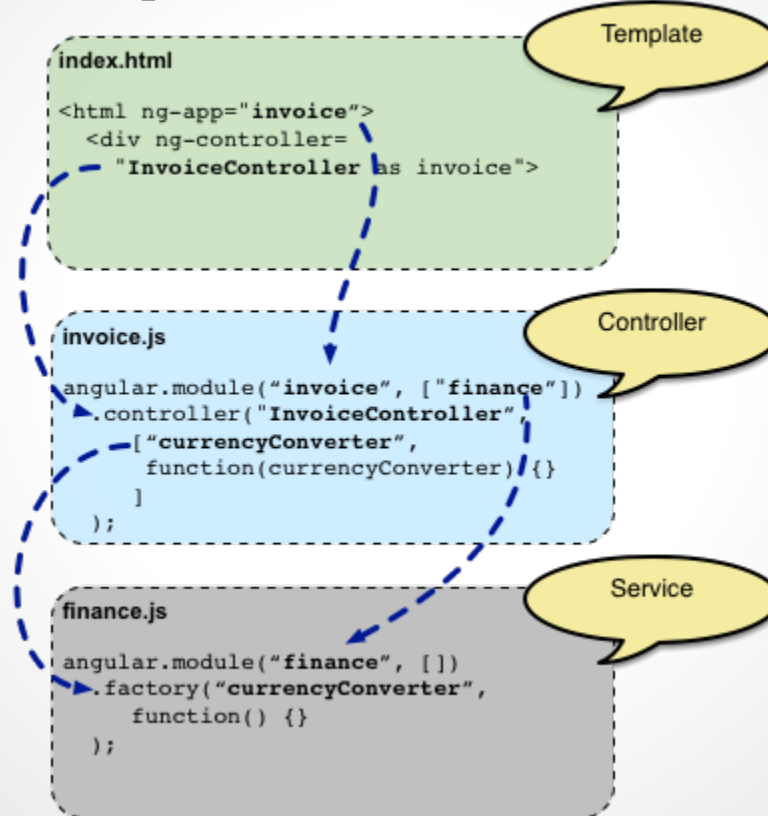
# The Javascript



# The Javascript - Services

- Does not have direct access to the scope.
- They persist for the lifecycle of the SPA.
- Business logic should live here.

# The Javascript - Services



# Reviewing Repo Content

```
<!doctype html>
<html>
  <head>
    <meta charset="utf-8">
    <title>AngularJS Part 1</title>
    <link rel="stylesheet" type="text/css" href="style/style.css">
  </head>
  <!-- Declare our app on the page -->
  <body ng-app="myApp">

    <!-- Example of how to use ng-include -->
    <div ng-include="'templates/demo.html'"></div>

    <hr>

    <!-- Example of how to instantiate a controller from a template -->
    <div ng-controller="DemoController">
      <p>Name: <input type="text" ng-model="name"></p>
      <p>Hello {{name}}</p>
      <p><button ng-click="sayHello(name)">Say Hello from DemoController</button></p>
      <p><button ng-click="sayHelloFromService(name)">Say Hello from DemoService</button></p>
      <p>Here's a demo list.</p>
      <ul>
        <li ng-repeat="item in items">{{item}}</li>
      </ul>
      <!-- This changes the route, which loads another controller into the ng-view below -->
      <p><a href="#/demo">Try out some of the routes</a>.</p>
    </div>
```

# Final Questions?

Best of Luck