

# AngularJS

Superheroic Javascript MVW framework by Google™



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# Where do I use AngularJS?



Domofera

[domofera.com](http://domofera.com) | [github.com/Domofera](https://github.com/Domofera)

Finalist of [1st Innovation & Technology iAlfas awards](#)



[github.com/alexjoverm/TripMinder](https://github.com/alexjoverm/TripMinder)

Winner of [Best Mobility TFG/TFM Vectalia awards](#)

[GCB Creator](#)

[APitems](#)

[RelaxCoach](#)

[DBCityFinder](#)

# 1. Introduction



# Uses cases

Where AngularJS makes the difference

- Single-page apps (Ajax used behind)
- Desktop-like web apps
- Real-time apps
- Any medium and large projects in general
- Abscense of SEO

# Features

## Why AngularJS is so cool

- Two-way data binding.
- Data oriented, **NO** more DOM manipulation!!!
- Clean and organized structure
- Lots of third-party modules (<http://ngmodules.org>)
- Makes testing easy
  - Jasmine (Unit test)
  - Protractor (End-to-End)

# Future

Let's be predictive

- **1.4.x**: current stable version
- **1.5.x**: next 1.x series version
- **Angular 2.0**: next gen framework (<https://angular.io>)
  - ECMA script 6 and Typescript oriented
  - Still, there are discussions about compatibility

# MVW

What the hell??!!

- **MVW** = **M**odel **V**iew **W**hatever
- First, it was more like MVC
- Later, MVVM
- [See Igor Minar discussion](#)



# MVW

## Explanation

- **Model:** \$scope, ng-model
- **View:** Moustache-like views
- **Whatever:** \$scope + Controller + Directives

# 2. The basics



# Routing

## Types

- **ngRoute**, we'll use it (*remember to install it*)
- ui-router (<https://github.com/angular-ui/ui-router>)
- 1.5.x onwards: the ultimate router <https://github.com/angular/router>

# Routing

## Setup on *app.js*

```
var app = angular.module('myApp', ['ngRoute']);

app.config(function ($routeProvider) {
  $routeProvider
    .when('/', {
      templateUrl: 'views/home.html',
      controller: 'HomeCtrl'
    })
    .when('/detail', {
      templateUrl: 'views/detail.html',
      controller: 'DetailCtrl'
    })
    .otherwise({
      redirectTo: '/'
    });
});
```

### Tip

Prefix with “#” symbol the route on your views:

```
<a href="#/detail">Go</a>
```

# Controller

## Basic scaffolding

- Notice **\$scope** parameter (injection). It's the **AngularJS core**, and everything must be attached to there.

```
app.controller('MainCtrl', function($scope){  
    $scope.users = [  
        { id: 1, name: "Jason Givor" },  
        { id: 45, name: "Little Jonh" }  
    ]  
});
```

# Views

## Layout

- Master layout needed. See **ng-app**, **ng-view**

```
<!doctype html>
<html class="no-js">
  <head>
  </head>
  <body ng-app="myApp">

    <div ng-view=""></div>

    <script src="angular.js"></script>
    <script src="angular-route.js"></script>
    ...
  </body>
</html>
```

# Views

*View home.html*

- This will be injected into **ng-view** directive

```
<ul>
  <li ng-repeat="user in users">
    Id: {{user.id}}, Name: {{user.name}}
  </li>
</ul>
```

- We are using **ng-repeat**, which is one of the most powerful directives in AngularJS

# Directives

## The good and the bad

- Data oriented UI components. No DOM manipulation anymore!

`<my-analog-clock any-param="AnyValue"></my-analog-clock>`

- Example: <http://deepu105.github.io/angular-clock/>
- AngularJS has several built-in directives. *Examples:*
  - ng-repeat
  - ng-class
  - ng-show/ng-hide



# 3. Examples



# Plunkr snippets

Let's see some action code!

- **Binding:** we have seen it, but not talked about it!

<http://plnkr.co/edit/V4TtWjpgq9m7mJlkuZ8Jj>

- **ng-repeat** power in a simple app

Plain js: <http://plnkr.co/edit/14U1BtCnU8kS6K2DQiLd>

AngularJS: <http://plnkr.co/edit/RTHRCE7HmU7cNMTMwexZ>

# 4. DBCityFinder

Let's create a real app!



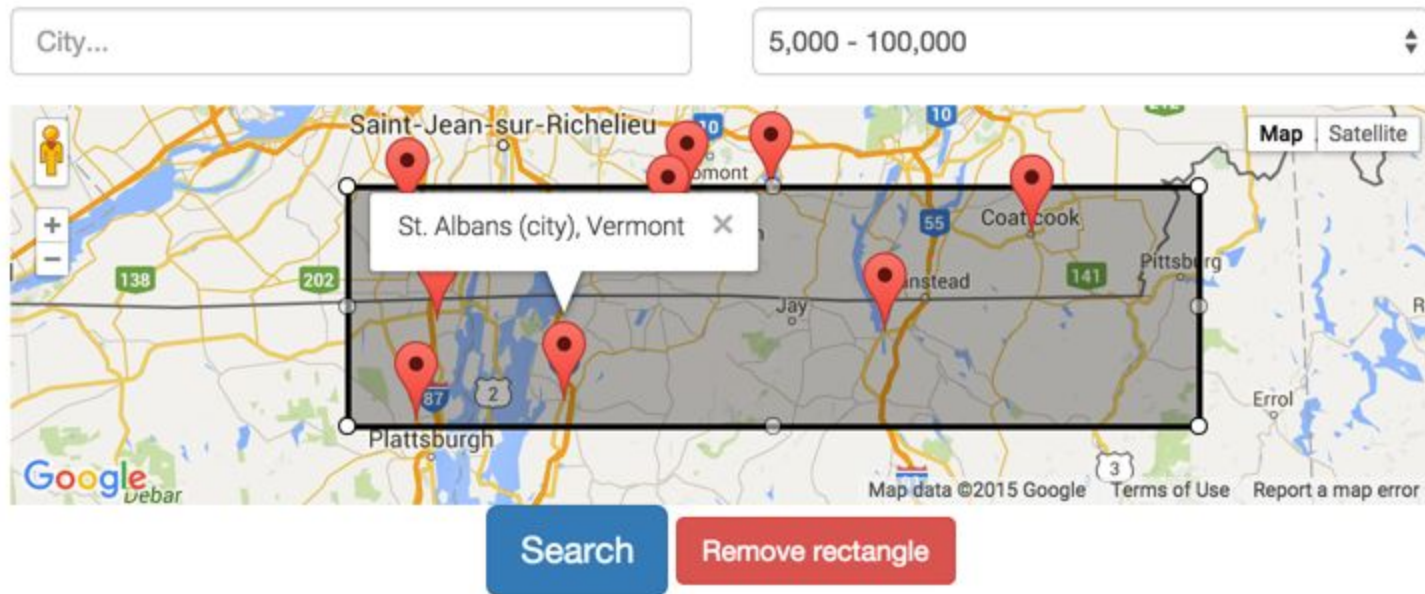
# DBCityFinder

## Requirements

- Search cities using DBpedia
- Filters for the searching
  - **City:** Includes “anysting” on the city name
  - **Population:** Between population ranges
  - **Area:** Rectangle area to search into

# DBCityFinder

What it should look like



City	Country	Population
Brome-Missisquoi Regional County Municipality	Canada	55621
Les Jardins-de-Napierville Regional County Municipality	Canada	26234

# DBCityFinder

Let's go!

[https://github.com/alexjoverm/MeetUp\\_DBCityFinder](https://github.com/alexjoverm/MeetUp_DBCityFinder)

# 5. Next Steps



# What should I do now?

- Get deeper into AngularJS (directive, interceptor, provider...)
- **Ionic Framework**: mobile multiplatform apps
- AngularJS 2.0 ECMA Script 6



# Thank you :)

