AngularJS

Superheroic Javascript MVW framework by Google™





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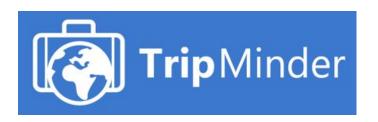
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Where do I use AngularJS?



domofera.com | github.com/Domofera

Finalist of 1st Innovation & Technology iAlfas awards



github.com/alexjoverm/TripMinder

Winner of Best Mobility TFG/TFM Vectalia awards

GCB Creator

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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

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 = Model View Whatever
- 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', []);
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 binds data to view and directives

```
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

Views

View home.html

This will be injected into ng-view directive

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

 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
- o 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/V4TtWjpq9m7mJlkuZ8Jj
- ng-repeat power in a simple app
 - Plain js: http://plnkr.co/edit/14U1BtCnU8kS6K2DQiLd
 - AngularJS: http://plnkr.co/edit/RTHRCE7HmU7cNMTMweXz