



# **Best Practices**

From Nutshell To Awesome Thing



- Quick Intro
- Main Features And Why It's Awesome
- Single Page Apps vs Classical Apps
- Best Practices
- SEOs
- What's Next With Angular 2.0?
- Resources



AngularJS is built around the belief that declarative programming should be used for building UIs and wiring software components, while imperative programming is excellent for expressing business logic.[1] The framework adapts and extends traditional HTML to better serve dynamic content through two-way data-binding that allows for the automatic synchronization of models and views. As a result,

AngularJS deemphasizes DOM manipulation and improves testability.



Extends HTML

Cool

2 ways data-binding

**SPAs** 

Template

Reuse component

All static file



# Main Features & Why It's Awesome

- Template
- 2 ways data-binding
- Routing
- Directives
- Services / Factory
- Dependency injection
- Testing



## Main Features & Why It's Awesome

```
<html ng-app="phonecatApp">
<head>
 <script src="lib/angular/angular.js"></script>
 <script src="is/controllers.is"></script>
</head>
<body ng-controller="PhoneListCtrl">
 <l
  < i ng-repeat="phone in phones">
     {{phone.name}}
     {{phone.snippet}}
  }];
                                            });
</body>
</html>
```

```
var phonecatApp =
angular.module('phonecatApp', []);
phonecatApp.controller('PhoneListCtrl',
function ($scope) {
   $scope.phones = [{
      'name': 'Nexus S'.
      'snippet': 'Fast ...with Nexus S.'
      'name': 'Motorola ... with Wi-Fi'.
      'snippet': 'The ...tablet.'
      'name': 'MOTOROLA XOOMTM'.
      'snippet': 'The ... let.'
```



# Single Page Apps vs Classical Apps

Single Page Apps	Classical Apps
ng-app	html string
controller	jQuery object
template	manual bootstrap
done	done
, <del>_</del>	_
_	-



# Single Page Apps vs Classical Apps

#### Manual Bootstrap Angular Code

```
angular.module('myModule', []).controller('myCtrl', function($scope){
    // do something
});

var template = "<div ng-controller='myCtrl'>Your html code with angular binding {{data}}</div>";

var $template = $(template);

angular.bootstrap($template, ['myModule']);

// $template is a jQuery object which already bootstrapped by AngularJS.
```



#### **Best Practices**

- AngularJS style guide <u>https://github.com/.../angularjs-style-guide</u>
- Best practices from Father of AngularJS http://www.youtube.com/watch?v=...CY
- Full stack vs Classical App
- Single Page App vs Classical App (manual)
- MVC vs Module
- JS All-in-one vs RequireJS
- ng boilerplate (<u>see here</u>)
- boilerplate+ + sailsjs + Java API + gruntjs + bowerjs



### **Best Practices**

#### **ANGULARJS**

```
app
  -- app.js
  --- controllers
      --- page1
          -- FirstCtrl.js
          L-- SecondCtrl.js
      L-- page2
          L-- ThirdCtrl.js
     directives
      --- page1
          L-- directive1.js
      L-- page2
          -- directive2.js
          L-- directive3.js
    - filters
      --- page1
      L-- page2

    services

       — CommonService.js
        -- cache
          -- Cache1.js
          L-- Cache2.is
      L-- models
          --- Model1.js
          L-- Model2.is
- lib
test
```

#### MVC vs Module

```
    app

    --- app.js
      common
          - controllers
            directives

    filters

        L-- services
       page1
          - controllers
            --- FirstCtrl.js
            L-- SecondCtrl.js

    directives

            L-- directive1.js
        --- filters
            --- filter1.js
            L-- filter2.js
        L-- services
            -- service1.js
            L-- service2.is
    L-- page2
        -- controllers
            L-- ThirdCtrl.is
         - directives
            -- directive2.js
            L-- directive3.js
         - filters
            L-- filter3.is
         - services
            L-- service3.js
--- lib
L-- test
```



#### The problem of MOST SPAs

#### **SOME SOLUTIONS**

Search engine \_escaped\_fragment\_

- → from: http://...#html5-pushstate
- → to: http://...?\_escaped\_fragment\_=html5-pushstate

Prerender.io – Opensource project

**Brombone.com** – Commercial project



## What's Next With Angular 2.0?

- Airbnb Rendr
   Backbone in apps in the browser and Node.
- jQuery on nodejs
- Polymer-projectWeb component
- AngularJS 2.0
   Server-side prerendering
   Simplify directive
   Animation

Airbnb

http://nerds.airbnb.com/weve-open-sourced-rendr-run-your-backbonejs-a/

AngularSEO

http://www.yearofmoo.com/2012/11/angularjs-and-seo.html

- AngularJS Video
   <a href="http://egghead.io/lessons">http://egghead.io/lessons</a>
- gruntjs, bowerjs, ng-boilerplate, sailjs, requirejs, less