

AngularJS & RequireJS

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What are we talking about here?

- Maintainable, organized app structure
- Lazy loading controllers and directives per route at runtime
- Small components via reusable directives
- Separation of concerns and single responsibility

Where I came from...

Anyone been here?

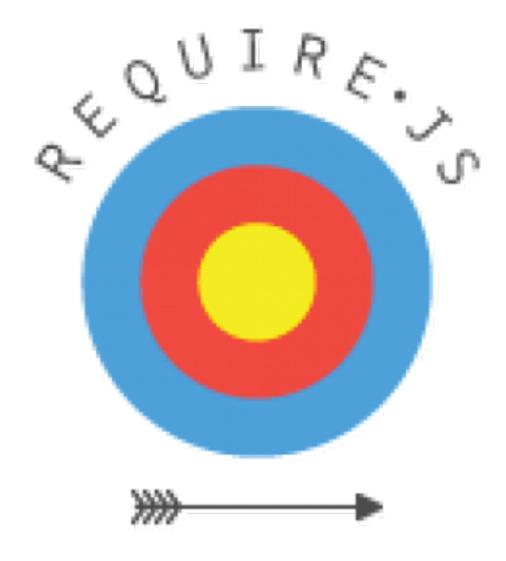
Or here?

```
app.directive('navigation', ['$translate', '$timeout', function($translate, $timeout, $state) {
    return {
        restrict: 'E',
templateUrl: '/_themes/root/angular/views/nav.html',
        link: function(scope) {
            scope.language = $translate.proposedLanguage() || $translate.use();
            scope.setLanguage = function(lang) {
                $translate.use(lang);
                scope.language = $translate.proposedLanguage() || $translate.use();
            };
            $timeout( function() {
                $(".global-nav-toggle").click(function() {
                    $(this).toggleClass("active");
                    $(".global-nav").toggleClass("show");
                });
                $(".country-switcher").click(function(e) {
                    e.preventDefault();
                    var val = $(this).attr("id");
                    window.location.href = window.location.href.replace(/(us|uk|en-ca|fr-ca)/, val).split("?")[0];
               });
           });
}1);
app.directive('airportDetails', [ function() {
    return {
        restrict: 'E',
        templateUrl: '/_themes/root/angular/views/airport.html'
}1);
app.directive('venueDetails', [ function() {
    return {
        restrict: 'E',
        templateUrl: '/_themes/root/angular/views/venue.html'
}]);
app.directive('defaultReport', [ function() {
    return {
        restrict: 'E',
        templateUrl: '/_themes/root/angular/views/default-report.html'
}1);
app.directive('reportDetails', [ function() {
        restrict: 'E',
        templateUrl: '/_themes/root/angular/views/report-details.html'
```



What we had..

- One file for directives, one file for controllers
- Business rules, presentation rules all crammed in huge unreadable files
- A million load scripts in our index.html file



To the rescue!

Your new best friends...

- \$controllerProvider.register
- \$compileProvider.directive
- \$filterProvider.register
- \$provide.factory
- \$provide.service

How does it work?

Basic outline:

- Main app file defines app-level dependencies, and loads them at initial run time.
- App bootstrapped using angular.bootstrap
- Routes/states defined and loaded when route/state activated.
- Route/state level dependencies use Angular providers to register controllers and directives
- Can still call resolves and services at route activation.

CODE DEMO!

App Config:

```
var app = angular.module('App', dependencies, function () { });
app.config(function ($locationProvider, $stateProvider, $urlRouterProvider, $controllerProvider, $compileProvider, $filterProvider, $filterProvider, $filterProvider, $filterProvider, $filterProvider.segister, directive: $controllerProvider.register, filter: $filterProvider.register, factory: $provide.factory, service: $provide.service
};
```

Controller syntax:

```
define([], function () {
   var controllerName = 'HomeCtlr';
   var fn = function ($rootScope, $scope) {
   };
   angular.module('App').lazy.controller(controllerName, fn);
});
```

Directive syntax:

Github:

https://github.com/seanmthompson/Angular-RequireJS-Starter