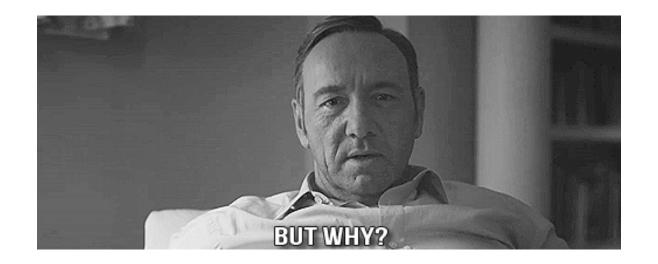
# **ANGULAR.JS FACTORIES**

Workhorses of our application

```
app.factory('MathTools', function () {
    var tools = {};
    tools.formatPercentage = function (n) {
        // """
    };
    return tools;
});
```

```
app.factory('MathTools', function () {
   var tools = {};
   tools.formatPercentage = function (n) {
       // ...
   };
   return tools;
});
app.controller('MicrosoftStock', function ($scope, MathTools) {
    // MathTools is the same object we returned from the factory
    // It has a method --> MathTools.formatPercentage
});
```



DRY (Don't Repeat Yourself)

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- Testability

# **DEPENDENCY INJECTION**

Registration and Retrieval

app.controller('MyCoolCtrl', function () {});

<div ng-controller="MyCoolCtrl">
</div>

```
app.factory('MathTools', function () {
   var tools = {};
   tools.formatPercentage = function (n) {
       // ...
   };
   return tools;
});
app.controller('MicrosoftStock', function ($scope, MathTools) {
    // MathTools is the same object we returned from the factory
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});
```

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

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```

## var app = angular.module('MyCoolApp', []);

#### **MathTools**

```
app.factory('MathTools', function () {
    // ...
});
```

#### Restaurants

### var app = angular.module('MyCoolApp', []);

## 

name: 'The Ritz'

});

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

```
MicrosoftStock

app.controller('MicrosoftStock', function ($scope, MathTools) {

// MathTools is the same object we returned from the factory

// It has a method ---> MathTools.formatPercentage

});
```

```
var app = angular.module('MyCoolApp', []);
    MathTools
                     Hotels
                                    Restaurants
                     MicrosoftStock
                           RestaurantList
 app.controller('RestaurantList', function ($scope, Restaurants) {
  // ...
 });
```

```
var app = angular.module('MyCoolApp', []);
    MathTools
                       Hotels
                                      Restaurants
                       MicrosoftStock
                       RestaurantList
                    FavoriteRestaurants
 app.factory('FavoriteRestaurants', function (Restaurants) {
     return _.where(Restaurants, { name: 'Potbellys' })
  });
```

## INJECTABLE FUNCTION

```
app.controller('MicrosoftStock', function ($scope, MathTools) {
    // MathTools is the same object we returned from the factory
    // It has a method --> MathTools.formatPercentage
});

app.factory('FavoriteRestaurants', function (Restaurants) {
    return _.where(Restaurants, { name: 'Potbellys' })
});
```

## INJECTABLE FUNCTION

```
app.controller('MicrosoftStock', function ($scope, MathTools) {
    // MathTools is the same object we returned from the factory
    // It has a method --> MathTools.formatPercentage
});

app.factory('FavoriteRestaurants', function (Restaurants) {
    return _.where(Restaurants, { name: 'Potbellys' })
});
```

# PRE-PACKAGED ANGULAR FACTORIES

AJAX and more!