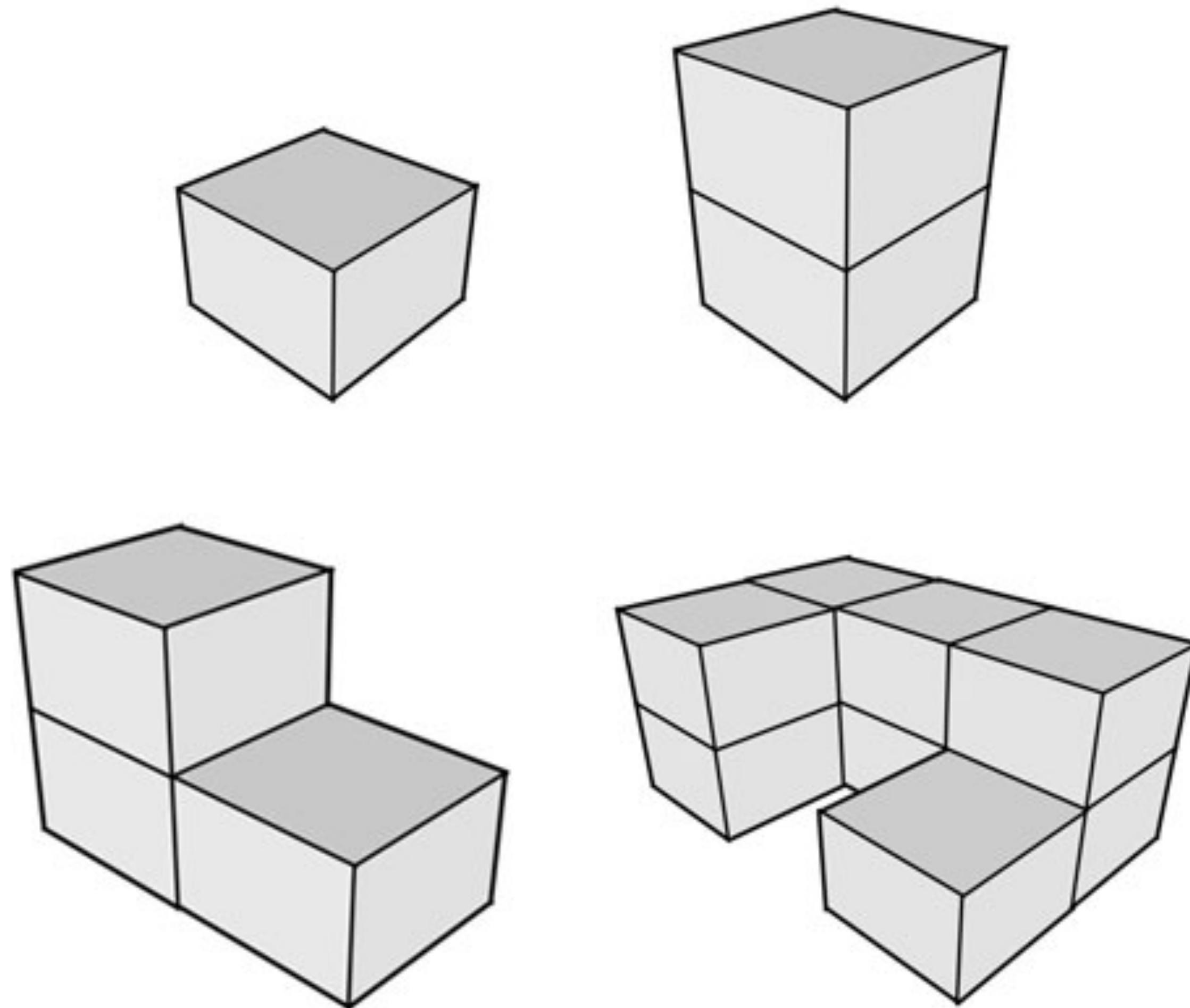


ANGULAR.JS MODULARITY

Emming the M-V-C



[Update Status](#)[Add Photos/Video](#)[Create Photo Album](#)

This is a post @gri|

**Griffin Telljohann****Photo Grid**

500,000+ monthly users · App

**Grimes**

744,385 like this · Musician/Band

**Grimm**

2,386,781 like this · TV Show

**GRiZ**

157,701 like this · Musician/Band

**grist.org**

212,577 like this · Media/News/Publishing

**Grizzly Bear**

674,862 like this · Musician/Band

**Grieves**

126,436 like this · Musician/Band

**Grip Rigs**

40,789 like this · Community

**Grimblee**



Omri Bernstein
March 18, 2013 ·

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Grace Donahue, Megan McGrath, Lyndie Wood and 16 others like this.



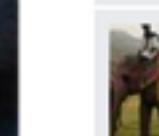
Nina Elizabeth AH!

March 18, 2013 at 1:03am · Like · 1



Sheila Bernstein Nice!!

March 18, 2013 at 1:51pm · Like



Nick Watson SMITHERS!

March 18, 2013 at 2:41pm · Like · 2



Raffi Sherak true love

May 21, 2014 at 4:52pm · Like · 1



@gri|



Griffin Telljohann



Hanna Grieb

Sherwood High · Hampshire



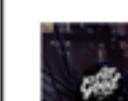
Grimes

Musician/Band



Grimm

TV Show



GRiZ

Musician/Band

People You May Know

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Arvin G Borkar

1 mutual friend

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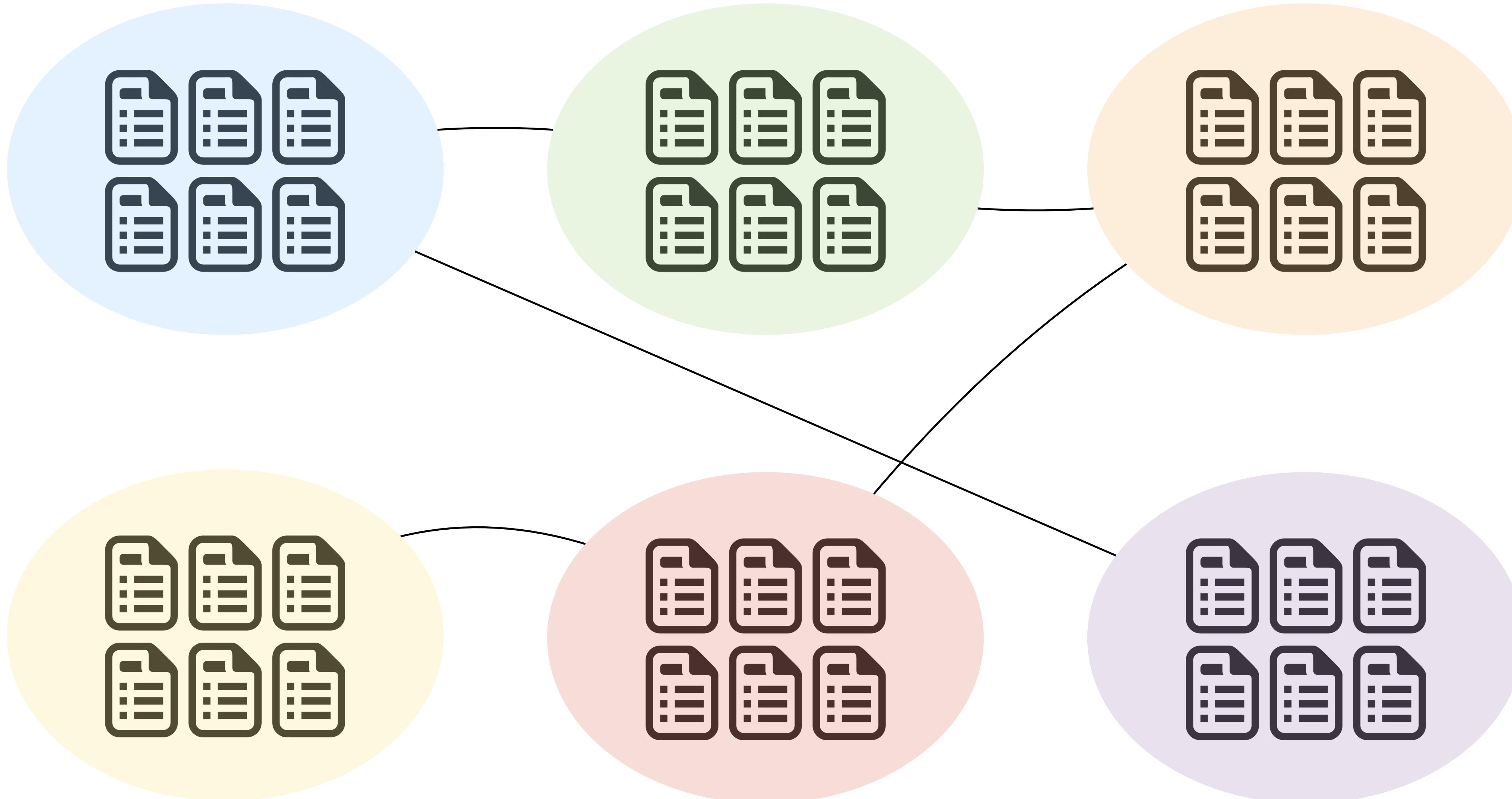








SEPARATION OF CONCERNS



“Always code as if the guy who ends up maintaining your code will be a violent psychopath who knows where you live.”

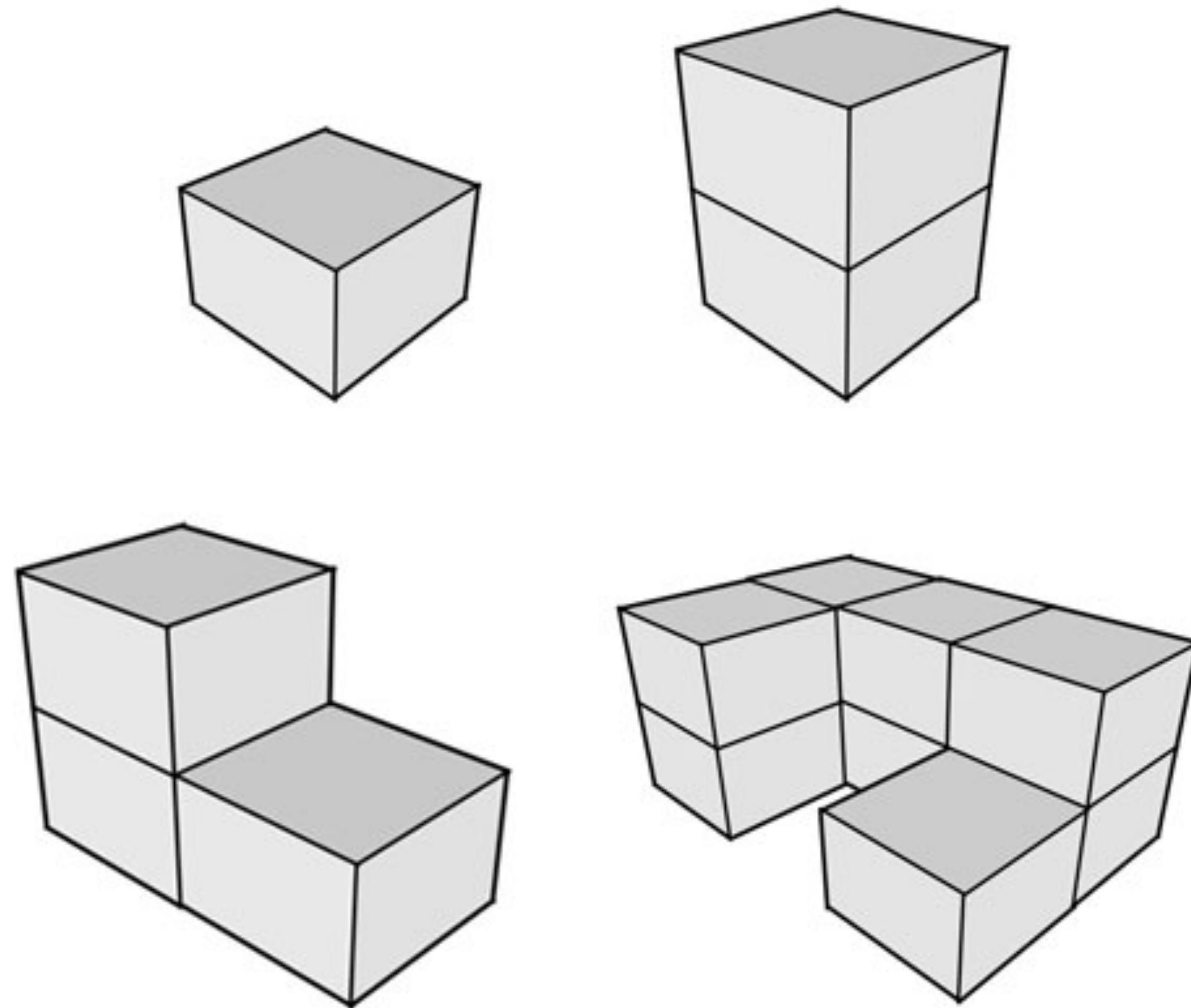
-JOHN WOODS

“Good code is easily extended.”

**ZUCK: WE NEED A NEW FEATURE.
TAGGING GROUPS IN COMMENTS.
GO.**

“Good code is easily extended.”

\$
\$
\$



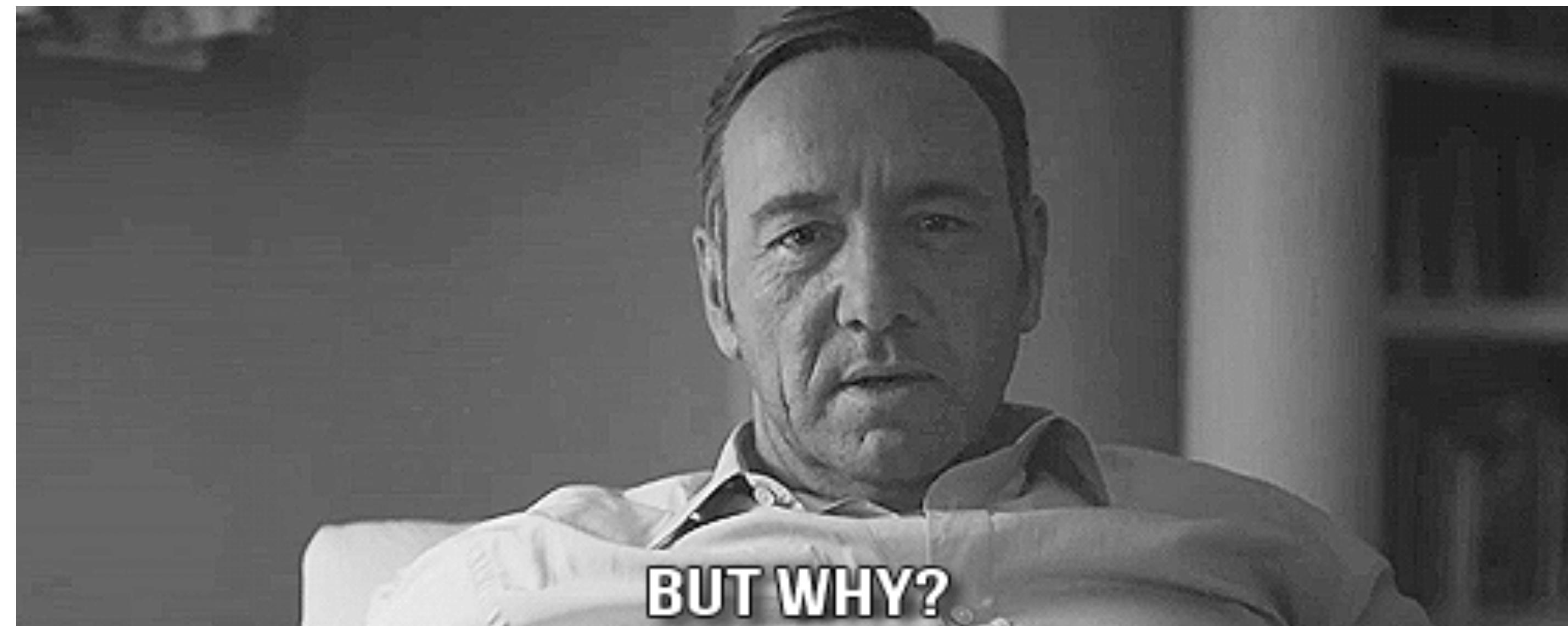
ANGULAR.JS FACTORIES

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  
});
```



REASONS FOR FACTORIES (MODULARITY IN GENERAL)

- DRY (Don't Repeat Yourself)

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- DRY (Don't Repeat Yourself)
- Abstracting away implementation details

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- Maintainability

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- Clarity

REASONS FOR FACTORIES (MODULARITY IN GENERAL)

- DRY (Don't Repeat Yourself)
- Abstracting away implementation details
- Maintainability
- Clarity
- 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;  
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```

```
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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```

MathTools

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

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

MathTools

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

Restaurants

```
app.factory('Restaurants', function () {  
  return [  
    {  
      name: 'Potbellys'  
    },  
    {  
      name: 'Shake Shack'  
    }  
  ];  
});
```

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

MathTools

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

Hotels

```
app.factory('Hotels', function () {
  return [
    {
      name: 'Best Western'
    },
    {
      name: 'The Ritz'
    }
  ];
});
```

Restaurants

```
app.factory('Restaurants', function () {
  return [
    {
      name: 'Potbellys'
    },
    {
      name: 'Shake Shack'
    }
  ];
});
```

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

Hotels

Restaurants

MicrosoftStock

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MathTools

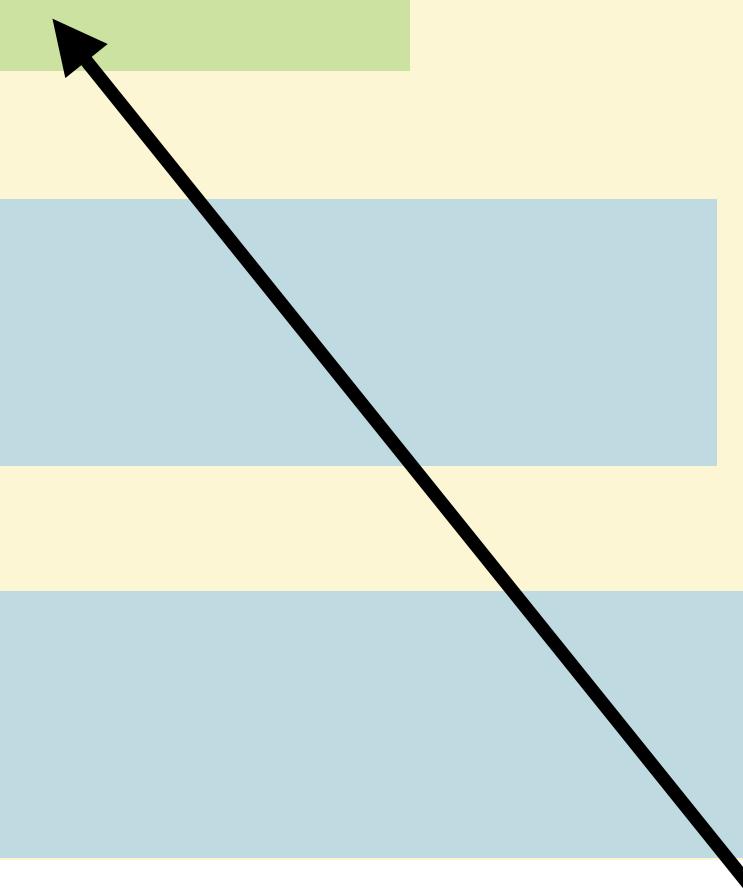
Hotels

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: 'Potbelly's' })
});
```





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

PRE-PACKAGED ANGULAR FACTORIES

AJAX and more!