

How do we get instances of Angular
components into our unit tests?

Essential ngMock Functions

module

Used to load our module(s)

inject

Used to get instances of components from modules

Creating the Angular Code

```
angular.module( 'omdbModule', [ ] )
```

Creating the Angular Code

```
angular.module( 'omdbModule', [ ] )  
  .factory( 'omdbApi', function omdbApiFactory() {  
    return {  
      search: function() {  
        // logic to get data  
        return movieData;  
      }  
    }  
  }  
}
```

Loading Modules in an Application

```
<!doctype html>  
<html ng-app="omdbModule">  
  <body>  
    ...  
    <script src="angular.js"></script>  
  </body>  
</html>
```

Testing the Angular Code

```
describe('omdb service', function() {  
  
    it('should return movie data for search query', function() {  
  
        expect(omdbApiFactory.search('star wars')).toEqual(movieData);  
  
    });  
  
});
```

Testing the Angular Code

```
describe('omdb service', function() {  
  
    it('should return movie data for search query', function() {  
        var omdbApiFactory = ???;  
        expect(omdbApiFactory.search('star wars')).toEqual(movieData);  
  
    });  
  
});
```

Essential ngMock Functions

`module`

Used to load our module(s)

3 *module* Function Argument Types

string

function

object

Registering Modules in Unit Tests

String Alias

```
angular.mock.module( 'omdbModule' );
```

Registering Modules in Unit Tests

Anonymous Function

```
angular.mock.module(function($provide) {  
  $provide.factory('omdbApi', function() {  
    return {  
      search: function(query) {  
        return movieData;  
      }  
    }  
  }  
});
```

Registering Modules in Unit Tests

Anonymous Object Literal

```
angular.mock.module( {  
  'omdbApi': {  
    search: function(query) {  
      return movieData;  
    }  
  }  
});
```

Function vs. Object Argument

```
angular.mock.module(function($provide, $http) {  
  $provide.factory('omdbApi', function() {  
    return {  
      search: function(query) {  
        return movieData;  
      }  
    }  
  }  
});
```

Registering Multiple Modules

```
var alias = 'omdb';
```

Registering Multiple Modules

```
var alias = 'omdb';  
var anonFunc = function() { ... }
```

Registering Multiple Modules

```
var alias = 'omdb';  
var anonFunc = function() { ... }  
var anonObj = {};
```


Registering Multiple Modules

```
var alias = 'omdb';  
var anonFunc = function() { ... }  
var anonObj = {};  
  
angular.mock.module(alias, anonFunc, anonObj);
```

Essential ngMock Functions

inject

Used to get instances of components from modules

angular.mock.module

someModule

omdbModule

angular.mock.inject

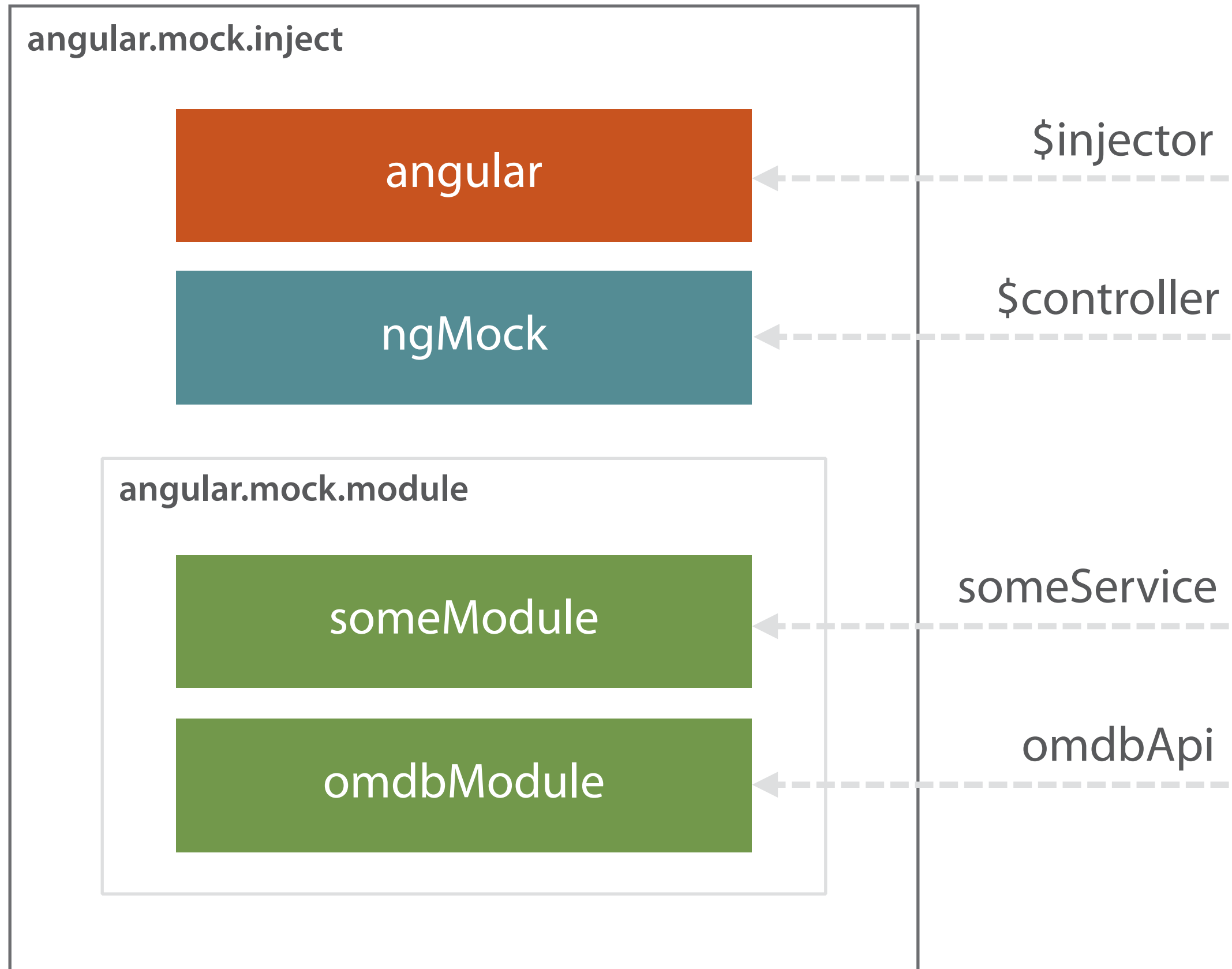
angular

ngMock

angular.mock.module

someModule

omdbModule



ngMock Public Functions

module

Used to load our module(s)

inject

Used to get instances of components from modules

dump

Serializes common objects for debugging