

Unit Testing Controllers with ngMock



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How do we use Angular's `$controller` service in our unit tests?

AngularJS Controller Code

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

myApp.controller( 'GreetingController' , function( $scope ) {
    $scope.greeting = 'Hola!';
} );
```

AngularJS Controller Code

```
<div ng-controller="GreetingController">  
  {{ greeting }}  
</div>
```

Getting a Controller Instance

```
angular.mock.inject(function(_GreetingController_) {  
  
    controllerInstance = _GreetingController_;  
  
});
```

Getting a Controller Instance

```
angular.mock.inject( function(__GreetingController__) {  
    // this won't work!!  
    controllerInstance = __GreetingController__;  
});
```

\$controller

A decorator for \$controller with an additional bindings parameter.

ngMock \$controller Service

```
$controller(constructor, locals, [bindings]);
```


ngMock \$controller Service

```
$controller( constructor, locals, [bindings] );
```

```
$controller( 'GreetingController', locals, [bindings] );
```

constructor

This can be either the name (string) of a controller, or a function that creates a new controller.

ngMock \$controller Service

```
$controller( constructor, locals, [bindings] );  
  
$controller( 'GreetingController', locals, [bindings] );  
$controller( getInstance(), locals, [bindings] );
```

constructor

This can be either the name (string) of a controller, or a function that creates a new controller.

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```
$controller(constructor, locals, [bindings]);
```

```
$controller(constructor, { $scope: myScope }, [bindings]);
```

locals

Accepts an object that maps by key names to the arguments of the controller constructor function e.g. \$scope, \$http, someService.

AngularJS Controller Code

```
var myApp = angular.module( 'myApp' , [ ] );  
  
myApp.controller( 'GreetingController' , function( $scope ) {  
    $scope.greeting = 'Hola!';  
} );
```

AngularJS Controller Code

```
var myApp = angular.module('myApp',[]);  
  
myApp.controller('GreetingController', function($scope) {  
    $scope.greeting = 'Hola!';  
});
```

AngularJS Controller Code

```
var myApp = angular.module('myApp',[]);  
  
myApp.controller('GreetingController', function($scope) {  
    $scope.greeting = 'Hola!';  
});
```

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```
$controller(constructor, locals, [bindings]);
```

```
$controller(constructor, locals, { name: 'Brad' });
```

bindings

This is optional, accepts an object, where the values of the object e.g. properties or functions, will be bound to the controller's this binding.

AngularJS Controller Code

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

myApp.controller( 'GreetingController' , function() {
    this.greeting = 'Hola!' + this.name;
} );
```


ngMock \$controller Service

```
$controller(  
    constructor,  
    locals,  
    [bindings]  
);
```

ngMock \$controller Service

```
$controller(  
    constructor, // string or function  
    locals,  
    [bindings]  
);
```

ngMock \$controller Service

```
$controller(  
    constructor, // string or function  
    locals,      // $scope object, other controllers args  
    [bindings]  
);
```

ngMock \$controller Service

```
$controller(  
    constructor, // string or function  
    locals,      // $scope object, other controllers args  
    [bindings]  // object for controllerAs this binding  
);
```