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AngularJS AJAX - $http

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$http is an AngularJS service for reading data from remote servers.

AngularJS $http

The AngularJS `$http` service makes a request to the server, and returns a response.

Example

Make a simple request to the server, and display the result in a header:

```
<div ng-app="myApp" ng-controller="myCtrl">

<p>Today's welcome message is:</p>
<h1>{{myWelcome}}</h1>

</div>

<script>
var app = angular.module('myApp', []);
app.controller('myCtrl', function($scope, $http) {
    $http.get("welcome.htm")
    .then(function(response) {
        $scope.myWelcome = response.data;
    });
});
</script>
```

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Methods

The example above uses the `.get` method of the `$http` service.

The .get method is a shortcut method of the $http service. There are several shortcut methods:

- `.delete()`
- `.get()`
- `.head()`
- `.jsonp()`
- `.patch()`
- `.post()`
- `.put()`

The methods above are all shortcuts of calling the $http service:

Example

```
var app = angular.module('myApp', []);
app.controller('myCtrl', function($scope, $http) {
    $http({
        method : "GET",
        url : "welcome.htm"
    }).then(function mySucces(response) {
        $scope.myWelcome = response.data;
    }, function myError(response) {
        $scope.myWelcome = response.statusText;
    });
});
```

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The example above executes the $http service with an object as an argument. The object is specifying the HTTP method, the url, what to do on success, and what to do on failure.

Properties

The response from the server is an object with these properties:

- `.config` the object used to generate the request.
- `.data` a string, or an object, carrying the response from the server.
- `.headers` a function to use to get header information.
- `.status` a number defining the HTTP status.
- `.statusText` a string defining the HTTP status.

Example

```
var app = angular.module('myApp', []);
app.controller('myCtrl', function($scope, $http) {
    $http.get("welcome.htm")
    .then(function(response) {
        $scope.content = response.data;
        $scope.statuscode = response.status;
        $scope.statustext = response.statustext;
    });
});
```

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To handle errors, add one more functions to the `.then` method:

Example

```
var app = angular.module('myApp', []);
app.controller('myCtrl', function($scope, $http) {
    $http.get("wrongfilename.htm")
    .then(function(response) {
        //First function handles success
        $scope.content = response.data;
    }, function(response) {
        //Second function handles error
        $scope.content = "Something went wrong";
    });
});
```

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JSON

The data you get from the response is expected to be in JSON format.

JSON is a great way of transporting data, and it is easy to use within AngularJS, or any other JavaScript.

Example: On the server we have a file that returns a JSON object containing 15 customers, all wrapped in array called `records`.

Take a look at the JSON object.

Example

The `ng-repeat` directive is perfect for looping through an array:

```
<div ng-app="myApp" ng-controller="customersCtrl">

<ul>
```

```
    {{ x.Name + ', ' + x.Country }}
  </li>
</ul>

</div>

<script>
var app = angular.module('myApp', []);
app.controller('customersCtrl', function($scope, $http) {
    $http.get("customers.php").then(function(response) {
        $scope.myData = response.data.records;
    });
});
</script>
```

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Application explained:

The application defines the `customersCtrl` controller, with a `$scope` and `$http` object.

`$http` is an **XMLHttpRequest object** for requesting external data.

`$http.get()` reads **JSON data** from http://www.w3schools.com/angular/customers.php.

On success, the controller creates a property, `myData`, in the scope, with JSON data from the server.

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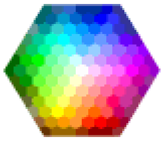

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