

## ng-controller DIRECTIVE IN ANGULARJS

- The **ng-controller** directive is used to attach a controller class to the view (HTML element).
- The **ng-controller** directive creates a new **scope**.
- The **ng-controller** directive compiles at the priority level **500**.
- It is supported by all HTML elements.
- The ng-controller is a key aspect of how Angular supports the **Model-View-Controller** design pattern.

### MVC Component in AngularJS:

- **Model** – The models are the properties of a scope. This is the lowest level of the pattern. It is used to manipulate the data. The scope properties are accessed through the bindings.
- **View** – The view is a template (HTML with data bindings). It is used to display all or part of the data to the user.
- **Controller** – The **ng-controller** directive is used to define the controller classes. The controller class contains a software code that controls the interaction between the **Model** and **View** (HTML).

## Syntax for ng-controller directive in AngularJS:

```
<element ng-controller="expression"> </element>
```

## Parameter value for ng-controller directive in AngularJS:

Value	Description
expression	The name of the controller

## Sample coding for ng-controller directive in AngularJS:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Wikitechy AngularJS Tutorials</title>
  </head>
  <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.5.6/angular.min.js"> </script>
  <body>
    <h2> ng-controller Directive in AngularJS Tutorials.</h2>
    <div ng-app="myApp" ng-controller="myController">
      {{ msg }}
    </div>
    <script>
      var app= angular.module('myApp', [ ]);
      app.controller('myController', function($scope) {
        $scope.msg = "Welcome To AngularJS Tutorials";
      });
    </script>
```



```
</body>  
</html>
```

**Data:**

- The **msg** data been defined for our AngularJS Application.

```
msg = "Welcome To AngularJS Tutorials";
```

**Logic:**

- Controller logic for the AngularJS application

```
app.controller('scopeCtrl', function($scope)  
{  
  $scope.msg = "Welcome To AngularJS Tutorials";  
});
```

**HTML:**

- Viewable HTML contents in AngularJS Application.

```
<div ng-app="myApp" ng-controller="scopeCtrl">  
    {{ msg }}  
</div>
```

## Code Explanation for ng-controller Directive in AngularJS:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Wikitechy AngularJS Tutorials</title>
    1 ← <script src="https://ajax.googleapis.com/ajax/libs/
        angularjs/1.5.6/angular.min.js">
        </script>
    </head>
    <body>
      <h2>ng-controller Directive in AngularJS Tutorials.</h2>
      <div ng-app="myApp" ng-controller="myController">
        4 ← {{msg}}
      </div>
      <script>
        var app = angular.module('myApp', []);
        6 ← app.controller('myController', function($scope) {
            $scope.msg = "Welcome To AngularJS Tutorials";
        });
      </script>
    </body>
  </html>
```

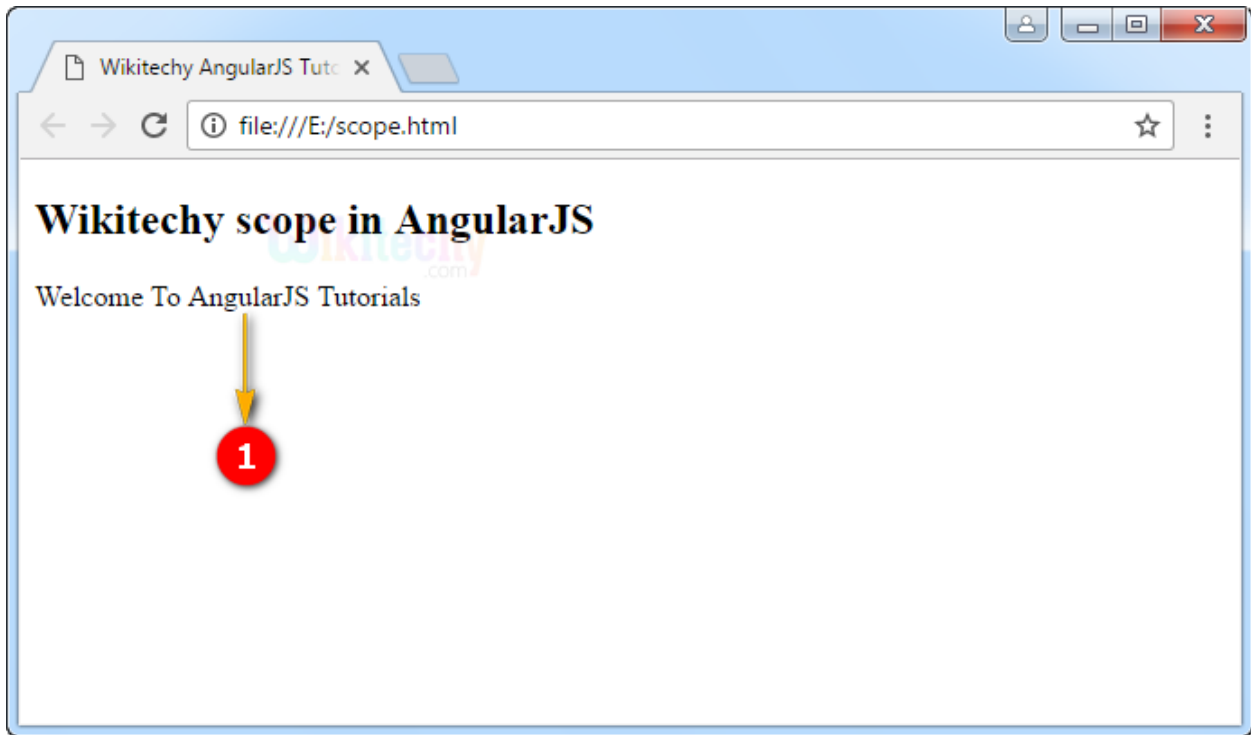


1. AngularJS is distributed as a JavaScript file, and can be added to a HTML page with a `<script>` tag.
2. The AngularJS application is defined by **`ng-app="myApp"`**. The application runs inside the `<div>` tag. It's also used to define a `<div>` tag as a root element.
3. The **`ng-controller="myController"`** is an AngularJS directive. It is used to define a controller name as **`"myController"`**.

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4. `{{ msg }}` is used to bind the controller value by using the scope object.
  5. **angular.module** function is used to create a module. Here has passed an empty array to it.
  6. Here we have declared a controller **myController** module using **apps.controller()** function.
  7. The value of the controller modules is stored in scope object. In AngularJS, **\$scope** is passed as first argument to **apps.controller** during its constructor definition.
  8. Here we have set the value of **\$scope.msg** as **“Welcome To AngularJS Tutorials”** which are to be used to display the `{{ msg }}` value in the HTML `<div>` element.



## Sample Output for ng-controller Directive in AngularJS :



1. The output displays a message of a variable **msg** by using a **ng-controller** directive.