



filter FILTER IN ANGULARIS

- The filter is used to filter an array, which returns the matching item from an array.
- This filter only support with an array.

Syntax for filter Filter in AngularJS

{{ arrayexpression | filter : expression : comparator }}

Parameter value for filter Filter in AngularJS:

Value	Туре	Description
expression		The expression used when selecting items from the array. There are three types of expression
		are available in filter. They are:
	string	String: the array items that match the string will be returned.
	object	Object: The object is a pattern to search for in the array. For example {"firstname" : "S", "lastname" : "M" }.
	function()	Function: A function which will be called for each array item, the result array containing the item where the function returns true.
comparator		This value is used for defining how strict the
	function(actual	comparison should be. This is an optional
	, expected)	value. The value can be:
	true	true: Returns a match only if the value of the
		array item is exactly what we compare it with.









false	false: Returns a match if the value of the array item <i>contains</i> what we compare it with. This comparison is not case sensitive. This is the default value.
	function: A function where we can define what will be considered a match or not.

Sample coding for filter Filter 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>
           <div ng-app="myApp" ng-controller="filterCtrl">
           <h2> Wikitechy filter in AngularJS </h2>
                 ul>
                      {{ x }}
                      </div>
           <script>
                var app = angular.module('myApp', []);
                app.controller('filterCtrl', function($scope) {
                  $scope.flowers = ["Lily", "Rose", "Jasmine","Poppy"];
                });
           </script>
     </body>
</html>
```







filter Filter in AngularJS:

• If the flowers array item has a character "o" then it will be displayed.

Data:

Collection of data has been defined using array for our AngularJS application.

```
Rose
Poppy
```

Logic:

• <u>Controller</u> logic for the AngularJS Application.

HTML:

• Viewable HTML contents in AngularJS Application.









Code Explanation for filter Filter 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>
       <div ng-app="myApp" ng-controller="filterCtrl">
       <h2> Wikitechy filter in AngularJS </h2>
           <l
              -----{{x}}
              </div>
       <script>
           var app = angular.module('myApp', []);
          -app.controller('filterCtrl', function($scope) {
              $scope.flowers = ["Lily", "Rose", "Jasmine", "Poppy"];
           });
       </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". application runs inside the <div> tag. It's also used to define a <div> tag as a root element.









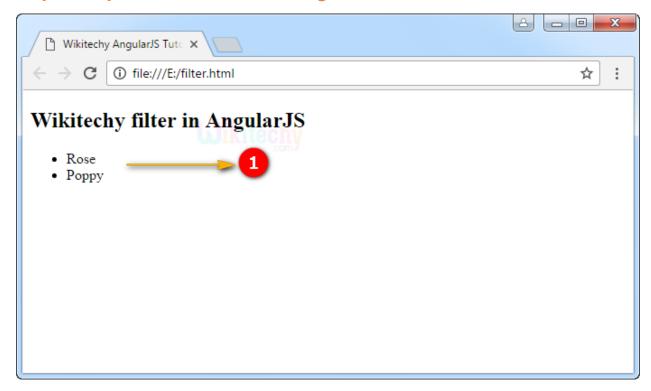
- 3. The ng-controller="filterCtrl" is an AngularJS directive. It is used to define a controller name as "filterCtrl".
- 4. The <u>ng-repeat</u> directive is used to repeat the <u></u> tag for each **data** in the **flowers** array.
- 5. The **filter** is used a string **'o'** for filter a flowers array.
- 6. **{{ x }}** is used to bind a filtered array, which containing an matching item.
- 7. Here we create a module by using <u>angular.module</u> function. We have passed an empty array to it.
- Here we have declared a controller filterCtrl module using apps.controller() function.
- 9. 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.
- 10. Here we have set the value of \$scope.flower= ["Lily", "Rose", "Jasmine", "Poppy"] which are to be used to display the {{ x }} values in the HTML <div> element.







Sample Output for filter Filter in AngularJS:



1. The output shows a filter list item from a flowers array which is used the string 'o' for filter an array.

