

## filter FILTER IN ANGULARJS

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

	false	<p><b>false:</b> 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.</p> <p><b>function:</b> A function where we can define what will be considered a match or not.</p>
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### 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>
        <li ng-repeat="x in flowers| filter : 'o' ">
          {{ x }}
        </li>
      </ul>
    </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:

```
<li ng-repeat="x in flowers| filter : 'o' ">{{ x }}
</li>
```

- 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:

- [Controller](#) logic for the AngularJS Application.

```
app.controller('filterCtrl', function($scope)
    {
        $scope.flowers = ["Lily", "Rose", "Jasmine","Poppy"];
    });
```

### HTML:

- Viewable HTML contents in AngularJS Application.

```
<div ng-app="myApp" ng-controller="filterCtrl">
<h2> Wikitechy filter in AngularJS </h2>
  <ul>
    <li ng-repeat="x in flowers| filter : 'o' ">
      {{ x }}
    </li>
  </ul>
</div>
```



## Code Explanation for filter Filter in AngularJS:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Wikitechy AngularJS Tutorials</title>
  </head>
  <script
1 ← 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>
        <li ng-repeat="x in flowers| filter : 'o' ">
          <span>{{x}}</span>
          </li>
        </ul>
      </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"`. The 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 [ng-repeat](#) directive is used to repeat the [<li>](#) 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 [angular.module](#) function. We have passed an empty array to it.
8. 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.