

## FILTERS IN ANGULARJS

- [Filters](#) are providing additional support to the AngularJS application by format the value of an expression or directives which are displayed to the users.
- AngularJS provides collection of built-in filters.
- AngularJS transform the data by specified filter.
- Filters can be used in view templates, controllers or services.
- Following are some important built-in filters in AngularJS.

### Syntax:

#### Regular filter

```
{{ expression | filter }}
```

#### Ex. `{{50 | currency}}`

The expression 50 executed as a currency format using **currency** filter.

The result will be **\$50**.

#### Chaining filter

```
{{ expression | filter1 | filter2 | ..... }}
```

The result of filter (**filter1**) can be applied to another filter (**filter2**). It is called "**chaining**".



## Filters with arguments

```
{{ expression | filter : argument1 : argument2: ..... }}
```

Ex: `{{12345 | number: 2}}`

The expression 10000 executed as a **decimal** points using the **number** filter.

The result will be **12345.00**

## Sample coding for Filters in Expression and Directives:

```
<DOCTYPE html>
<html>
  <head>
    <title>Wikitechy AngularJS Tutorial</title>
    <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.5.6/angular.min.js">
    </script>
  </head>
  <body>
    <div ng-app="myApp" ng-controller="namesCtrl">
      <h3>Using expression and directive in AngularJS Tutorial</h3>
      <p>Looping with objects:</p>
      <ul>
        <li ng-repeat="x in names | orderBy :'country'">
          {{ x.name + ', ' + x.country | uppercase }}
        </li>
      </ul>
    </div>
    <script>
      angular.module('myApp', []).controller('namesCtrl', function($scope) {
        $scope.names = [
          {name:'Jani',country:'Denmark'},
          {name:'Carl',country:'America'},

```



```
        {name:'Margareth',country:'England'},
    ];
});
</script>
</body>
</html>
```

### Data:

```
$scope.names = [
    {name:'Jani',country:'Denmark'},
    {name:'Carl',country:'America'},
    {name:'Margareth',country:'England'},
];
```

- [Scope](#) is an object that refers to the application model in an AngularJS application.

### HTML:

```
<div ng-app="myApp" ng-controller="namesCtrl">
  <h3>Using expression and directive in AngularJS Tutorial</h3>
  <p>Looping with objects:</p>
  <ul>
    <li ng-repeat="x in names | orderBy :'country'">
      {{ x.name + ', ' + x.country | uppercase }}
    </li>
  </ul>
</div>
```

- Viewable HTML contents in AngularJS application



**Logic:**

```
angular.module('myApp', []).controller('namesCtrl', function($scope) {
  $scope.names = [
    {name:'Jani',country:'Denmark'},
    {name:'Carl',country:'America'},
    {name:'Margareth',country:'England'},
  ];
});
```

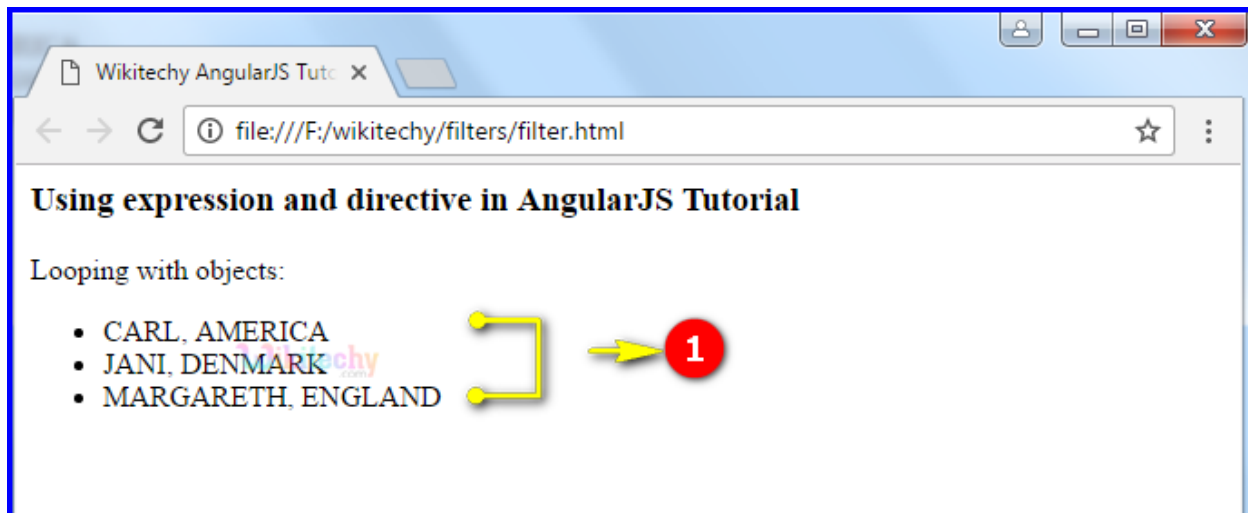
- [Controller](#) logic for the AngularJS application.

**Code explanation for Filters in Expression and Directives:**

```
<DOCTYPE html>
<html>
  <head>
    <title>Wikitechy AngularJS Tutorial</title>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.5.6/
angular.min.js"></script>
  </head>
  <body>
    <div ng-app="myApp" ng-controller="namesCtrl">
      <h3>Using expression and directive in AngularJS Tutorial</h3>
      <p>Looping with objects:</p>
      <ul>
        <li ng-repeat="x in names | orderBy:'country'"
          {{ x.name + ', ' + x.country | uppercase}}
        </li>
      </ul>
    </div>
    <script>
      angular.module('myApp', []).controller('namesCtrl', function($scope) {
        $scope.names = [
          {name:'Jani',country:'Denmark'},
          {name:'Carl',country:'America'},
          {name:'Margareth',country:'England'},
        ];
      });
    </script>
  </body>
</html>
```

1. The `ng-app` specifies the root element (**myApp**) to define AngularJS application.
2. The `ng-controller` specifies the application controller in AngularJS the controller value is given as **"namesCtrl"**.
3. Here the `orderBy` filter using by directive (like `ng-repeat`) and the output will be displayed in the `<li>` tag.
4. The `uppercase` filter is using by expression ( `{{ }}` ) and the output will be displayed in the `<li>` tag.
5. **\$scope.name** is declare the objects as name and country.

### Sample output for Filters in Expression and Directives:



1. The output displays the country in `orderBy` using directive as well as the output displays the name and country in uppercase using expression.

### AngularJS Filters list:

Filter	Description
<a href="#">currency</a>	It is used to formats a number as a currency(i.e \$589) Current Locale is the default symbol.
<a href="#">date</a>	It is used to design a date for specified format.
<a href="#">filter</a>	It is used to select a subset of items from an array and it returns the new array.
<a href="#">json</a>	It is used to convert a JavaScript object into JSON string.
<a href="#">limitTo</a>	It is used to returns an array or a string containing only a specified number of elements
<a href="#">lowercase</a>	It is used to converts string to a lowercase.
<a href="#">number</a>	It is used to formats a number to a string or text.
<a href="#">orderBy</a>	It is used to specify orders an array by an expression
<a href="#">uppercase</a>	It is used to converts string to a uppercase.

