

number FILTER IN ANGULARJS

- The **number** filter is used to format a number as a string or text.
- The **input** value must be a **number**, otherwise it will just be **return**.
- The **fractionSize** value is used to define the number of **decimal**.

Syntax for number filter in AngularJS:

```
{{ number_expression | number : fractionSize }}
```

Parameter value for number filter in AngularJS:

Value	Type	Description
fractionSize	number string	The fractionSize is an optional value. if The value must be a number . It is used to specifying the number of decimal . The default value of fractionSize is 3 .

Sample coding for number 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="numberCtrl">
      <h1> Wikitechy json filter in AngularJS </h1>
      <h3> The original number : {{value}} </h3>
      <h3>Default formatting: {{ value | number}}</h3>
      <h3>No fractions : {{ value | number: 0 }} </h3>
      <h3>Negative number: {{ -value | number: 4 }} </h3>
    </div>
    <script>
      var app = angular.module('myApp', [ ]);
      app.controller('numberCtrl', function($scope) {
        $scope.value = 2312.9117;
      });
    </script>
  </body>
</html>
```



number Filter in AngularJS:

- The number filter used to displays a different number format in our AngularJS application.

```
<h3> The original number : {{value}} </h3>  
<h3>Default formatting: {{ value | number}}</h3>  
<h3>No fractions : {{ value | number: 0 }} </h3>  
<h3>Negative number: {{ -value | number: 4 }} </h3>
```

Data:

- The data has been defined for our AngularJS Application.

```
value = 2312.9117;
```

Logic:

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

```
app.controller('numberCtrl', function($scope)  
{  
  $scope.value = 2312.9117;  
});
```

HTML:

- Viewable HTML contents in AngularJS Application.

```
<div ng-app="myApp" ng-controller="numberCtrl">  
  <h1> Wikitechy json filter in AngularJS </h1>  
  <h3> The original number : {{value}} </h3>  
  <h3>Default formatting: {{ value | number}}</h3>  
  <h3>No fractions : {{ value | number: 0 }} </h3>  
  <h3>Negative number: {{ -value | number: 4 }} </h3>  
</div>
```

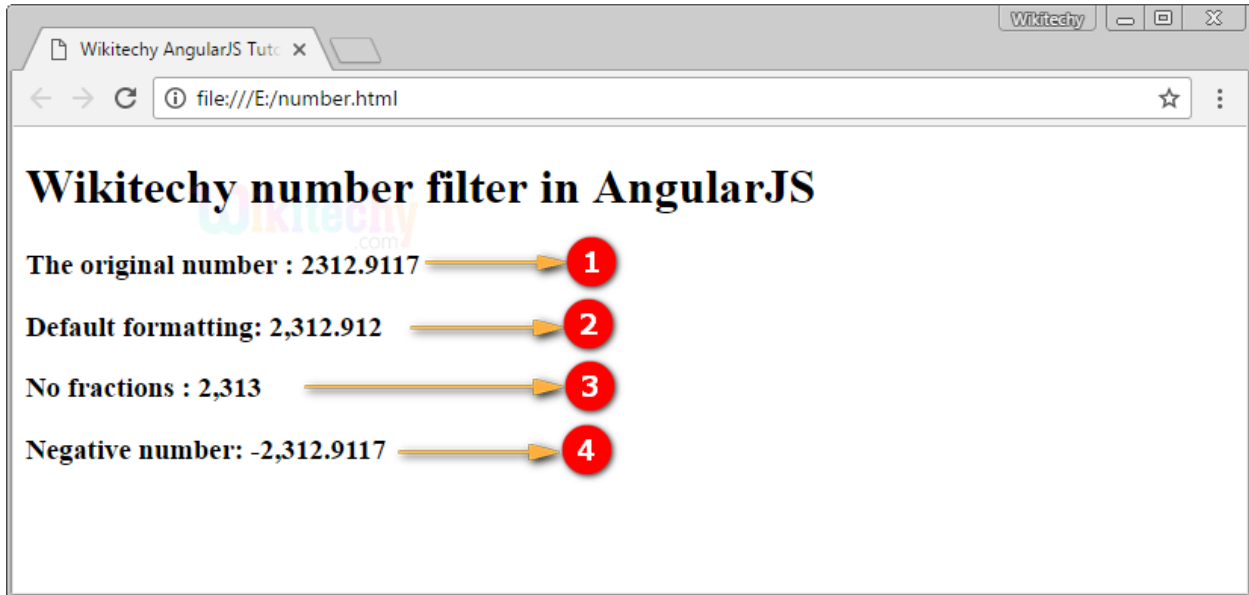
Code Explanation for number filter in AngularJS:

```
<!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="numberCtrl">
      <h1> Wikitechy number filter in AngularJS </h1>
      <h3> The original number : {{value}} </h3>
      <h3> Default formatting:{{value | number}}</h3>
      <h3> No fractions :{{value | number: 0}}</h3>
      <h3> Negative number:{{-value | number:4}}</h3>
    </div>
    <script>
      var app = angular.module('myApp', []);
      <h3> 8 ← app.controller('numberCtrl', function($scope) {
        $scope.value = 2312.9117; ← 10
      });
    </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](#)="numberCtrl" is an AngularJS directive. It is used to define a controller name as "numberCtrl".
4. **{{value}}** is used to bind a input value.
5. The **{{value | number}}** is used to bind a default number format. Here the original input value is displayed with the comma and three decimal point, for example (2,312.912)
6. The **{{value | number: 0}}** is used to bind a no fraction number format. Here the input value displayed without **decimal**, for example (2,313).
7. The **{{-value | number: 4}}** is used to bind a **negative** number format. Here the input number is displayed with negative symbol and four decimal point, for example (-2,312.9117)
8. The [angular.module](#) function is used to create a Module. We have passed an empty array to it.
9. Here we have declared a controller **numberCtrl** module using **apps.controller()** function. 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.value=2,312.9117;** which are to be used to display the number format values in the HTML [<div>](#) element.

Sample Output for number filter in AngularJS:



1. The output displays an original input value by using **{{value}}**.
2. The output displays a **default** number formatting by using a **number filter**.
3. The output displays a **no fraction** number format by using a **number filter**.
4. The output displays a **negative** number format by using a **number filter**.