

# A Developer Diary

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## How to use Filter in Angular JS



Filters in Angular JS provides a way to format the data before displaying. Angular JS filters are useful to keep the business logic separated from the logic to display data and they are absolutely reusable across the application. In my experience, filter is an easy topic to discuss in Angular, so I will not be spending a ton of time explaining each filter. Lets find out how to use filter in Angular JS.

In The Best Way to Master Angular JS series I have given a high level overview of the Angular filter. Find it [here](#).

## Native Filters:

There are several native Angular Filters available. You can use the filters using a pipe ( | ). like {{name | uppercase}}. Here are the list of native Angular filters.

1. filter
2. currency
3. number
4. date
5. json
6. lowercase
7. uppercase
8. limitTo

## 9. orderBy

Most of these are self explanatory, except the first one. The **filter** is mainly used to filter elements from an array. e.g – If you have a list of names and you want to filter specific names then use the filter. (The last one in the example below)

Here are some of the example of how to use a filter. In the last example, we are filtering an array of names, anything you type in the text box that will be used to filter the names.

UpperCase :

```
{{name | uppercase}}
```

Date :

```
{{date | date: 'short'}}
```

Currency :

```
{{price|currency:$}}
```

Enter a Name :

```
{{ name }}
```

The demo of above code.

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UpperCase :  WORLD

Date :  3/28/24 3:10 PM

Currency :  \$999,999.00

Enter a Name :

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In case you have a JSON Object to filter you can always use a model. In order to filter the first name only, we can create model with `modelName.first`.

```
//HTML
```

```
...
```

```
...
```

```
// Controller code
```

```
$scope.fullNameList=[
    {
        first:'Mary',
        last:'Kane'
    },
    {
        first:'Lisa',
        last:'Mole'
    },
    {
        first:'George',
        last:'Chapel'
    }
]
```

```
    },  
  
    {  
      first: 'Chapel',  
      last: 'Hill'  
    }  
  
  ];  
};
```

Here is the demo.

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Any Name:

1st Name :

1. **First** : Mary, **Last** : Kane
2. **First** : Lisa, **Last** : Mole
3. **First** : George, **Last** : Chapel

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## Custom Filter :

We can create custom filters in angular using `filter()` function. Below we have created a greet filter.

// HTML

Greet Type :

Hello



```
{{name | greet:greetType}}
```

```
// JavaScript
```

```
module.filter('greet',function(){
```

```
    // The 2nd Parameter is the Greeting type
```

```
    return function(value,greetType){
```

```
        if(value!=""){
```

```
            var matches = value.match(/\d+/g);
```

```
            if (matches != null) {
```

```
                return value+" is not a name";
```

```
            }else{
```

```
                value=value[0].toUpperCase()
```

```
                +value.toLowerCase().substring(1,value.length);
```

```
                return greetType +" "+ value +" !";
```

```
            }
```

```
        }
```

```
    else
```

```
        return "Please enter a name";
```

```
    }
```

```
});
```

In the example here we have implemented few validations. Also, we are passing the Greet Type as a 2nd paramater. Try the demo below:

HTML
CSS
JS
Result
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Greet Type :

Please enter a name

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In case of `ng-repeat`, the value passed in filter will also be an Array.

There are many 3rd party filters already available. Check out this [Angular-filter](#).

In this article we saw few examples of how to use filter in Angular JS. Hope this will provide the basic understanding on Filters. Let me know if you need help with any question on Angular Filter.

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