

filter

```
{{ currency expression | currency : symbol : fractionSize}}
$filter('currency')(amount, symbol, fractionSize)
<script>
  angular.module('currencyExample', [])
    .controller('ExampleController', ['$scope', function($scope) {
      scope.amount = 1234.56;
   }1);
</script>
<div ng-controller="ExampleController">
  <input type="number" ng-model="amount" aria-label="amount">
   <br>
 default currency symbol ($):
    <span id="currency-default">{{amount | currency}}</span><br>
 custom currency identifier (USD$):
    <span id="currency-custom">{{amount | currency:"USD$"}}</span>
 no fractions (0):
    <span id="currency-no-fractions">{{amount | currency: "USD$":0}}</span>
</div>
```

```
{{ number expression | number : fractionSize}}
$filter('number')(number, fractionSize)
angular.module('numberFilterExample', [])
  .controller('ExampleController', ['$scope', function($scope) {
   scope.val = 1234.56789;
} ] );
<div ng-controller="ExampleController">
  <label>Enter number:
   <input ng-model='val'></label><br>
  Default formatting:
    <span id='number-default'>{{val | number}}</span><br>
  No fractions: <span>{{val | number:0}}</span><br>
  Negative number: <span>{{-val | number:4}}</span>
</div>
```

- Create array of products objects
- Each object should have price, name and count
- Show list of products
- Add filter for name
- Output price with currency
- Output formatted count
- Apply filter in JS and in HTML

```
{{ date expression | date : format : timezone}}
$filter('date')(date, format, timezone)
<span ng-non-bindable>{{1288323623006 | date:'medium'}}</span>:
   <span>{{1288323623006 | date:'medium'}}</span><br>
<span ng-non-bindable>{{1288323623006 | date:'yyyy-MM-dd HH:mm:ss Z'}}</span>:
  <span>{{1288323623006 | date:'yyyy-MM-dd HH:mm:ss Z'}}
<span ng-non-bindable>{{1288323623006 | date:'MM/dd/yyyy @ h:mma'}}</span>:
  <span>{{'1288323623006' | date:'MM/dd/yyyy @ h:mma'}}</span><br>
<span ng-non-bindable>{{1288323623006 | date: "MM/dd/yyyy 'at' h:mma"}}</span>:
  <span>{{'1288323623006' | date:"MM/dd/yyyy 'at' h:mma"}}</span><br>
```

```
{{ lowercase expression | lowercase}}
$filter('lowercase')()
{{ uppercase expression uppercase}}
$filter('uppercase')()
```

```
{{ limitTo expression | limitTo : limit : begin}}
$filter('limitTo')(input, limit, begin)
<script>
  angular.module('limitToExample', [])
    .controller('ExampleController', ['$scope', function($scope) {
      scope.numbers = [1,2,3,4,5,6,7,8,9];
     $scope.letters = "abcdefghi";
     $scope.longNumber = 2345432342;
     $scope.numLimit = 3;
     $scope.letterLimit = 3;
     $scope.longNumberLimit = 3;
   }1);
</script>
<div ng-controller="ExampleController">
  <label>
    Limit {{numbers}} to:
    <input type="number" step="1" ng-model="numLimit">
 </label>
 Output numbers: {{ numbers | limitTo:numLimit }}
 <label>
    Limit {{letters}} to:
    <input type="number" step="1" nq-model="letterLimit">
  </label>
  Output letters: {{ letters | limitTo:letterLimit }}
  <label>
    Limit {{longNumber}} to:
    <input type="number" step="1" ng-model="longNumberLimit">
 </1abel>
 Output long number: {{ longNumber | limitTo:longNumberLimit }}
</div>
```

```
{{ orderBy expression | orderBy : expression : reverse : comparator}}
$filter('orderBy')(collection, expression, reverse, comparator)
<div ng-controller="ExampleController">
 Name
   Phone Number
   Age
  {{friend.name}}
   {friend.phone}}
   {{friend.age}}
  </div>
```

- Create array of products objects
- Each object should have price, name, release date and quantity
- Show list of products
- Order list by price
- Show list of top3 products with high price
- Show release date
- Add possibility to order list by price, release date, quantity and name

```
angular.module('app', [])
.filter('mfilter', function() {
  return function(input, param1, param2) {
    //... implementation of filter
    return input + param1 + param2;
{{hello|mfilter:'hello':'javascript'}}
$filter('mfilter')(input, param1, param2)
```

- Create your own filter for convert string to smiles
- Create filter for show number as size in Kb, Mb and Gb
- Filter for convert camelCase to string separated by space

\$scope

Scopes

```
< Scope (1)
< Scope (2)
< <u>Scope (3)</u>
```

Models for (3)

```
{
   ctrl: { }
}
```

Enable Inspector

Watch Tree

```
Scope (1) | toggle
    Scope (2) | toggle
         Scope (3) | toggle
          • {{'Hola ' + framework + 'JS!' +
            ctrl.fName}}!
```

Watch Expressions

```
{{'Hola ' + framework + 'JS!' +
ctrl.fName}}! | 100% | 0.5250ms
```

```
<!DOCTYPE html>
<html ng-app="Lesson5App">
  <head>
   <meta charset="utf-8">
   <title>JS+Angular Classes: Lesson 5</title>
   <script src="lib/boundle.js" charset="utf-8"></script>
  </head>
  <body ng-controller="IndexController">
    <h1>JS+Angular Classes: Lesson 5</h1>
   <div class="HolaApp">
      <div ng-controller="MyController as ctrl">
        <h2>Hola App</h2>
        {{ 'Hola ' + framework + 'JS!' + ctrl.fName}}!
     </div>
   </div>
  </body>
</html>
```

\$rootScope

```
let $scope = $rootScope.$new();
$rootScope.$on(name, listener);
$rootScope.$emit(name, args);
$rootScope.$broadcast(name, args);
$scope.$on(name, listener);
$scope.$emit(name, args);
$scope.$broadcast(name, args);
```

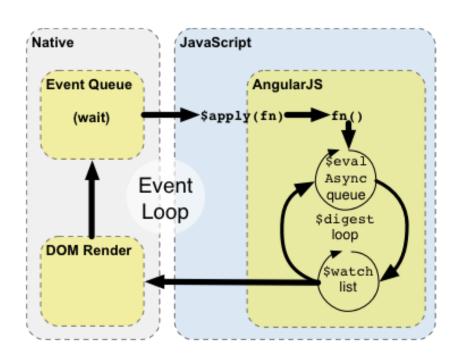
```
<div ng-controller="EventController">
 Root scope <tt>MyEvent</tt> count: {{count}}
 <l
  <button ng-click="$emit('MyEvent')">$emit('MyEvent')
    <button ng-click="$broadcast('MyEvent')">$broadcast('MyEvent')
    <br>
    Middle scope <tt>MyEvent</tt> count: {{count}}
    <l
     Leaf scope <tt>MyEvent</tt> count: {{count}}
     </div>
angular.module('eventExample', [])
.controller('EventController', ['$scope', function($scope) {
 $scope.count = 0;
 $scope.$on('MyEvent', function() {
  $scope.count++;
 });
} 1);
```

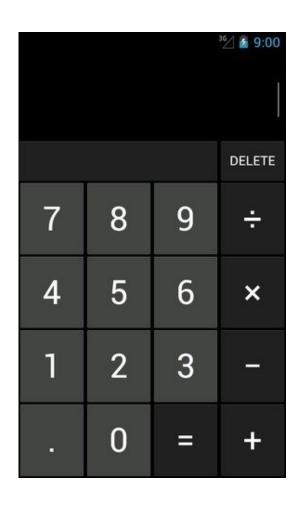
\$watch

```
$scope.$watch('name', function(newValue, oldValue) {
  $scope.counter = scope.counter + 1;
});
$scope.names = ['igor', 'matias', 'misko', 'james'];
$scope.dataCount = 4;
$scope.$watchCollection('names', function(newNames, oldNames) {
 $scope.dataCount = newNames.length;
});
```

\$scope

```
$scope.$digest();
$scope.$destroy();
$scope.$new(isolate, parent);
$scope.$apply(function() {})
```





Calculator

services

\$document

```
angular.module('documentExample', [])
.controller('ExampleController', ['$scope', '$document', function($scope, $document) {
 $scope.title = $document[0].title;
 $scope.windowTitle = angular.element(window.document)[0].title;
}]);
```

\$cacheFactory

```
let cache = $cacheFactory('cacheId');
$cacheFactory.get('cacheId');
$cacheFactory.get('noSuchCacheId');
cache.put("key", "value");
cache.put("another key", "another value");
```

\$controller

```
$controller(constructor, locals);
let MyController = $controller('MyController', {
    $http,
   MyService
```

\$interpolate

```
let $interpolate = ...; // injected
let exp = $interpolate('Hello {{name | uppercase}}!');
expect(exp({name: 'Angular'})).toEqual('Hello ANGULAR!');
```

\$interval & \$timeout

```
$interval(fn, delay, [count], [invokeApply], [Pass]);
$timeout([fn], [delay], [invokeApply], [Pass]);
let stopTime = $interval(updateTime, 1000);
$iterval.cancel(stopTime);
```

\$templateCache

```
<script type="text/ng-template" id="templateId.html">
 This is the content of the template
</script>
$templateCache.put('templateId.html', 'This is the content of the template');
```



```
let promise = $q(function(resolve, reject) {
        setTimeout(function() {
          if (okToGreet(name)) {
            resolve('Hello, ' + name + '!');
          } else {
            reject('Greeting ' + name + ' is not allowed.');
       }, 1000);
 });
promise.then(function(greeting) {
  alert('Success: ' + greeting);
}, function(reason) {
 alert('Failed: ' + reason);
});
```

```
angular.service('myService', myServiceFunction);
angular.factory('myFactory', myFactoryFunction);

myInjectedService // new myServiceFunction();
myInjectedFactory // myFactoryFunction()
```



Pet Project