**Understanding Filters in Angular JS**

Filters are used to change modify the data and can be clubbed in expression or directives using pipe character. Following is the list of commonly used filters.

**Filters in angular can do 3 different things**  
1. Format data  
2. Sort data  
3. Filter data   
  
Filters can be used with a binding expression or a directive  
  
To apply a filter use pipe (|) character  
  
**Syntax :** **{{** expression | filterName:parameter **}}**

**Angular filters for formatting data**

|  |  |
| --- | --- |
| **Filter** | **Description** |
| lowercase | Formats all characters to lowercase  e.g. {{student.fullName() | lowercase}} |
| uppercase | Formats all characters to uppercase  e.g. {{student.fullName() | uppercase}} |
| number | Formats a number as text. Includes comma as thousands separator and the number of decimal places can be specified |
| currency | Formats a number as a currency. $ is default. Custom currency and decimal places can be specified |
| date | Formats date to a string based on the requested format |

**Angular Date formats**

|  |  |
| --- | --- |
| **Format** | **Result** |
| yyyy | 4 digit year. Exampe 1998  E,g, {{1288323623006 | date:'yyyy-MM-dd HH:mm:ss Z'}} |
| yy | 2 digit year. Example 1998 => 98 |
| MMMM | January - December |
| MMM | Jan - Dec |
| MM | 01 - 12 |
| M | 1 - 12 (No leading ZEROS) |
| dd | 01 - 31 |
| d | 1 - 31 (No leading ZEROS) |

**Angular date format documentation**  
<https://docs.angularjs.org/api/ng/filter/date>  
  
**limitTo filter :** Can be used to limit the number of rows or characters in a string.  
  
**Syntax :** **{{** expression | limitTo : limit : begin**}}**

Attached is a sample application that will demonstrate the usage of filters in angular JS

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