



Angular pipes

GFT INTERNAL TRAINING

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Pipes

- should be used only in templates
- useful for formatting dates, numbers,...
- in AngularJS were called Filters

Example: Using DatePipe

```
export class AppComponent {  
  title = 'app works!';  
  firstDayOfYear = new Date(2017, 0, 1);  
}
```

<h3>Without pipe: {{ firstDayOfYear }}</h3>

<h3>With pipe: {{ firstDayOfYear | date }}</h3>

Without pipe: Sun Jan 01 2017 00:00:00 GMT+0100 (CET)

With pipe: Jan 1, 2017

- Some default pipes can be parameterized:

```
<h3>With pipe: {{ firstDayOfYear | date }}</h3>  
<h3>With param-pipe: {{ firstDayOfYear | date:"MM/dd/yy" }}</h3>
```

- And the output will be:

With pipe: Jan 1, 2017

With param-pipe: 01/01/17

- The pipes can be chained too:

```
<h3>With param-pipe:  
  {{ firstDayOfYear | date:'fullDate' | uppercase }}  
</h3>
```

With pipe: Jan 1, 2017

With param-pipe: SUNDAY, JANUARY 1, 2017

Built-in pipes

<https://angular.io/api?type=pipe>

P AsyncPipe

P DecimalPipe

P DeprecatedDecimalPipe

P I18nSelectPipe

P PercentPipe

P UpperCasePipe

P CurrencyPipe

P DeprecatedCurrencyPipe

P DeprecatedPercentPipe

P JsonPipe

P SlicePipe

P DatePipe

P DeprecatedDatePipe

P I18nPluralPipe

P LowerCasePipe

P TitleCasePipe

Built-in pipes examples

| Value | Pipe | Output |
|----------|-----------|----------|
| Federico | uppercase | FEDERICO |
| Federico | lowercase | federico |
| Federico | slice:3 | erico |
| Federico | slice:0:3 | Fed |

Custom pipes

- to create a pipe we need a class with a method called transform

```
import { Pipe, PipeTransform } from '@angular/core';

@Pipe({ name: 'chars' })
export class CharsPipe implements PipeTransform {
  transform(value: string, parenthesis?: boolean): string {
    return (parenthesis)
      ? `(${value.length} chars)`
      : `${value.length} chars`
  }
}
```

- after declaring the pipe in a module we can use it in a template

```
<hr />
<h3>Title: {{ title | chars:true }}</h3>
<hr />
```



Title: (10 chars)

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