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);
}
```

```html
<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:

```html
<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:

```html
<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	CurrencyPipe	P	DatePipe
P	DecimalPipe	P	DeprecatedCurrencyPipe	P	DeprecatedDatePipe
P	DeprecatedDecimalPipe	P	DeprecatedPercentPipe	P	I18nPluralPipe
P	I18nSelectPipe	P	JsonPipe	P	LowerCasePipe
P	PercentPipe	P	SlicePipe	P	TitleCasePipe
P	UpperCasePipe				

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

```typescript
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

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

→ **Title: (10 chars)**

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Eduardo García Ibaseta

eduardo.garcia-ibaseta@gft.com
+34 935 639476

GFT IT Consulting, S.L.
Av. Alcalde Barnils, 69-71
08174 Sant Cugat del Vallès (BARCELONA)