



Pipes

— or —

Effectively using change detection and pure pipes in Angular

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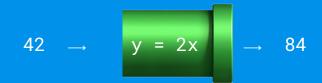
Head dev @FlowUp







A pipe takes in data as input and transforms it to a desired output





Built-in pipes

- DatePipe
- *UpperCasePipe*
- LowerCasePipe
- CurrencyPipe
- PercentPipe
- JsonPipe



What is pipe

- A class decorated with pipe metadata
- Implements the PipeTransform interface's transform method
 - Accepts an input value and params
 - Returns the transformed value
- Can be pure and impure



Pure

vs. Impure

- Transform method is basically a pure function
- Executed only when it detects a pure change to the input value
 - Runs only reference check
- Restrictive but fast

- Executed on every digest cycle
 - Called as often as every
 keystroke or mouse-move
- Expensive, long-running pipe could destroy the user experience



Parameterizing a pipe

- A pipe can accept any number of optional parameters.
- parameters are separated by a colon :

```
The hero's birthday is {{ birthday | date:"MM/dd/yy" }}
```



Chaining pipes

Pipes can be chained together in potentially useful combinations

```
● ● ●

The chained hero's birthday is {{ birthday | date:'fullDate' | uppercase}}
```

This example displays MONDAY, MAY 28, 2018



github.com/vmasek/ng-beer-pipes