



ANGULAR  
**ARCHITECTS**  
INSIDE KNOWLEDGE

# Angular Pipes

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# Concept of Pipes

- Transform data before output in template ("format")
- Grammar:
  - {{ flight.from | **city** }}
  - {{ flight.from | **city:'short'** }}
  - {{ flight.from | **city:'short':'en'** }}
  - {{ flight.from | **city:'short':'en' | uppercase** }}

# Build-in Pipes

DatePipe

UpperCasePipe

LowerCasePipe

DecimalPipe

CurrencyPipe

PercentPipe

JsonPipe

AsyncPipe



# Pure Pipes

- Output depends only on input parameters
- Benefit: performance can be optimized



# Declaration of a pipe

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

@Pipe({
  name: 'city',
  pure: true
})
export class CityPipe implements PipeTransform {

  transform(value: any, param1: any, param2: any, ...): any {
    [...]
    return [...];
  }
}
```



# Register the pipe in a module

```
@NgModule({  
  imports: [  
    BrowserModule, HttpClientModule, FormsModule  
  ],  
  declarations: [  
    AppComponent, FlightSearchComponent, CityPipe  
  ],  
  bootstrap: [  
    AppComponent  
  ]  
})  
export class AppModule {}
```



# DEMO



# LAB

