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Pipes

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Concept of Pipes

- Reusable across components & directives – like Services
- 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 {}
```



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