

ANGULAR CLI

```
npm i -g @angular/cli

ng new my-project
cd my-project
ng serve -o

ng generate component MyComponent
ng generate service MyService
ng generate pipe MyPipe

ng build --prod
```



COMPONENT

```
@Component({
    selector: 'flight-search',
    templateUrl: './flight-search.component.html'
})
export class FlightSearchComponent {
    from: string;
    to: string;
    flights: Array<Flight> = [];
    selectedFlight: Flight;
    search(): void { [...] }
    select(f: Flight): void {
        this.selectedFlight = f;
    }
}
```



TEMPLATE AND DATA BINDING



```
Search
</button>
</div>
 0"> <!-- condition -->
 <!-- iteration -->
{{f.id}}

{{f.from}}
{{f.from}}
{{f.to }}
{td>{{f.to }}
{td>{{f.date | date: 'dd.MM.yyyy HH:mm'}}
{td>{td>{td>{{f.date | date: 'dd.MM.yyyy HH:mm'}}
<!-- pipe -->

<t-- condt. fmt. -->
<a (click)="select(f)">Select</a>
```



CONSUMING SERVICE



Angular Cheat Sheet Concept & Content by Manfred Steyer



CUSTOM PIPE

```
@Pipe({
  name: 'city', // name to use in template
  pure: true
})
export class CityPipe implements PipeTransform {
  transform(value: string, fmt: string): string {
  [...]
  return formattedCity;
}
```



INPUTS AND OUTPUTS



CALLING COMPONENTS WITH INPUTS AND OUTPUTS



ROUTING CONFIGURATION



IMPORTING THE ROUTERMODULE WITH THE CONFIGURATION



MARKUP FOR ROUTING

```
<a routerLink="home"></a>
<a routerLink="flight-booking/flight-search">

[...]
<router-outlet></router-outlet>
```





ROUTING CONFIG WITH PARAMETER



LINK WITH ROUTING PARAMETER

```
<a [routerLink]=

"['/flight-booking/flight-edit', item.id,
{showDetails: true}]">Edit</a>
```



LIFECYCLE HOOKS

```
@Component({
    selector: 'flight-card',
    templateUrl: './flight-card.component.html'
})
export class FlightCardComponent
    implements OnInit, OnChanges, OnDestroy {
    ngOnInit() {
      [...]
    }
```



READING ROUTING PARAMETER

```
ngOnChanges(changes: SimpleChanges): void {
  if (changes['item']) {
    // item changed
  }
}
ngOnDestroy(): void {
  [...]
}
[...]
```



LIFECYCLE HOOKS

```
@NgModule({
 imports: [
  CommonModule,
  FormsModule,
  SharedModule.
  [...]],
 declarations: [
  FlightSearchComponent,
  FlightCardComponent,
  PassengerSearchComponent,
  FlightEditComponent],
 providers: [
   // Providers are global!
   // Traditional way for registering a service
   // Alternative to { providedIn: 'root' }
   { provide: FlightService, useClass: FlightService }
   // Alternative, when provide
   // and useClass points to same type:
 exports: [
   // Exports can be used in other modules
   // which are importing this module
  FlightSearchComponent1
export class FlightBookingModule {
```



Manfred Steyer is a Trainer and Consultant with a focus on Angular. He is a Google Developer Expert (GDE) who writes for O'Reilly, Java Magazin, windows.developer, and Heise. He regularly speaks at conferences.

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