



# Services und Injection

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# What are Services?

Reusable

Replaceable

Testable

Classes

Example:  
FlugService



# Service

global scope

```
@Injectable({ providedIn: 'root' })  
export class FlugService {  
  
    [...]  
  
}
```

**services are singletons  
(in their “scope”)**



# Alternative

Service is loaded with module

```
@Injectable({ providedIn: LazyApiModule })  
export class FlugService {  
  
    [...]  
  
}
```

**Makes only sense with Lazy Loading!**

**Details, later in chapter „Routing“**



# Service

```
@Injectable({ providedIn: 'root' })  
export class FlugService {  
  
    [...]  
  
}
```



# Consumer gets injected service in constructor

```
@Component({
  selector: 'flight-search',
  templateUrl: 'flight-search.html'
})
export class FlightSearchComponent {

  from: string;
  to: string;
  flights: Flight[];

  constructor(flightService: FlightService) { ... }

  search(): void { [...] }
  select(flight): void { [...] }
}
```



# DEMO



ANGULAR  
**ARCHITECTS**  
INSIDE KNOWLEDGE



SOFTWARE  
**ARCHITECT**

# Register service locally

```
@Component({  
  selector: 'flight-search',  
  templateUrl: flight-search.html',  
  providers: [FlightService]  
})  
export class FlightSearchComponent {  
  
  [...]  
  
}
```





# Register service locally w. useClass

```
@Component({  
  selector: 'flight-search',  
  templateUrl: flight-search.html',  
  providers: [{ provide: FlightService, useClass: AdvancedFlightService}]  
})  
export class FlightSearchComponent {  
  
  [...]  
  
}
```

**Only used for current component and children**

# DEMO



# One more thing: Angular Dev Tools

- <https://chrome.google.com/webstore/detail/angular-devtools/ienfalfjdbdpebioblackkekamfmbnh>