

DI Providers

Examples and utilities

DI FRAMEWORK

providers: [LanguageService]

```
{ provide: LanguageService, useClass: LanguageService }
    DITOKEN PROVIDER
```

TOKEN: key for locating a dependency value

• PROVIDER: definition object to create dependency value

DI TOKEN

Class type

```
{ provide: LanguageService, useClass: LanguageService }
```

• string

```
{ provide: 'api', useValue: 'http://myapp/api' }
```

InjectionToken

```
{
  provide: HTTP_INTERCEPTORS,
  useClass: CustomHttpInterceptor,
  multi: true,
},
```

PROVIDERS

- useValue use native value, object
- useClass creates a new dependencies
- useExisting reuses an existing dependencies
- useFactory function to create a dependencies based on runtime values/dependencies

useValue

- Configuration
 - Shared in app
 - Shared to a library
- Testing: mock, stubs, spies

```
APP_CONFIG = new InjectionToken<MyConfig>('config');
{
   provide: APP_CONFIG,
   useValue: importedConfig,
}
```

```
const translateServiceStub = {
  instant: (label: string): string => {
    return prefixes[label];
  },
};

{ provide: TranslateService, useValue: translateServiceStub }
```

useClass

- Use testing
 - {provide: TranslateService, useClass: TranslateServiceStub}
- Specialization/Overrides behavior CustomDatepickerI18n
- Configuration WebpackTranslateLoader
- Defines a dependencies for a fake service in lib

 CustomI18nService extends LibI18nService
 - Fake dependencies, leaves decision of right library to application

useExisting

• Fake service in library, defining in app with already used service

DateUtils extends LibDateUtils

useFactory

Setup Angular based on own service

useFactory: LocaleFactory

Fake service in library with default dependency

useFactory: LibI18nServiceFactory

- Lib could tested without real dependencies
- Division of work

Resources

- https://angular.io/guide/dependency-injection-providers
- https://medium.com/swlh/angular-dependency-providers-60a0400f370
- https://www.tektutorialshub.com/angular/angular-providers/

• Repo: https://github.com/oreynaldocl/di-examples
Presentation: notes/DI Providers.pdf



Oscar Callisaya
oreynaldo.cl@gmail.com
@oreynaldocl

THANK YOU