DI Providers

Examples and utilities

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DI PROVIDERS

```
providers: [LanguageService]
```

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

DI TOKEN

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/instances

useValue

- Configuration

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

- Testing: mock, stubs, spies

```
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
```

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
```

Resources

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

Repository

- https://github.com/oreynaldocl/di-examples

THANK YOU

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