

Contents

- Angular Compiler
- ngx-translate

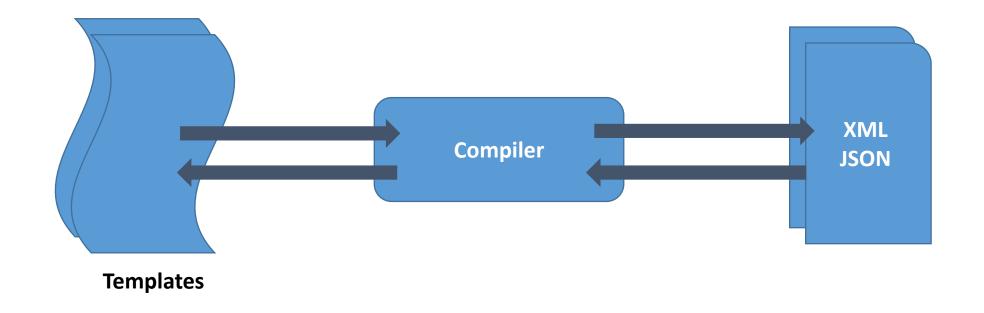
Angular Compiler



Angular Compiler

XML Localisation Interchange File Format (XLIFF, version 1.2)

XML Message Bundle (XMB)



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Angular Compiler

Great Performance One Build per Language

Cannot Change Language w/o Reload Reading Code at runtime (since Angular 9)

Add @angular/localize

ng add @angular/localize

Define texts to translate

```
From
To
Passengers
Passengers
Passengers
```

Text to Translate in TypeScript Files

title = \$localize `:meaning|description@@id:Hello World!`;

Extract texts

```
ng extract-i18n
```

(formerly ng xi18n)

Compile app with translated texts

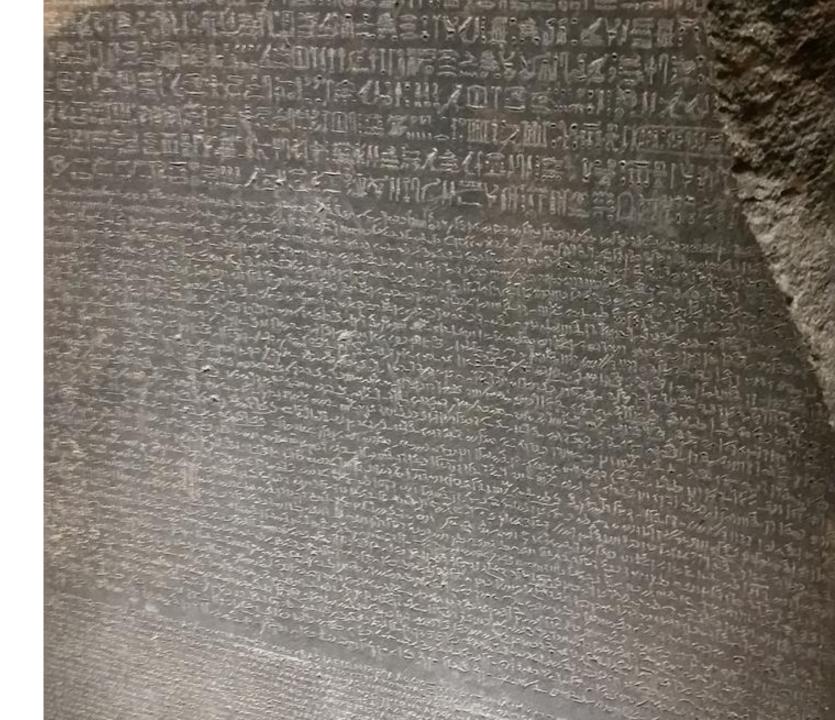
```
ng build --i18nFile=src/i18n/messages.de.xlf
--i18nFormat=xlf
--locale=de
--prod
```

angular.json

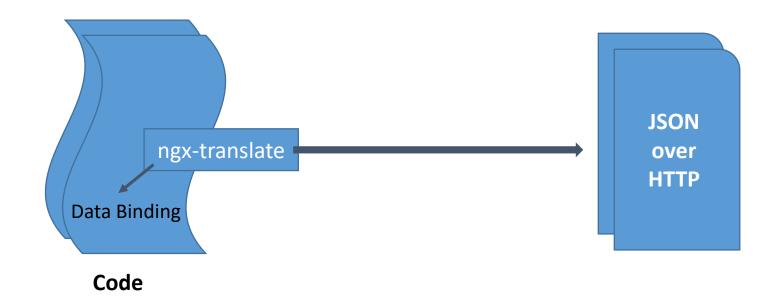
```
"i18n": {
    "locales": {
        "de": "messages.de.xlf",
        "fr": "messages.fr.xlf"
    },
    "sourceLocale": "en-US"
},
```

ng build --localize

ngx-translate



ngx-translate



Data format and way of loading are adaptable

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ngx-translate

One Build

Change
Language at
Runtime!

Read Translations in Code Data Binding
Influences
Performance

Import

```
export function createLoader(http: HttpClient) {
  return new TranslateStaticLoader(http, './i18n/', '.json');
}
```

Import

```
export function createLoader(http: HttpClient) {
  return new TranslateStaticLoader(http, './i18n/', '.json');
@NgModule({
  imports: [
    TranslateModule.forRoot({
      provide: TranslateLoader,
      useFactory: createLoader,
      deps: [HttpClient]
export class AppModule {
```

Initialize

```
this.translate.addLangs(['en', 'de']);
this.translate.setDefaultLang('de');
this.translate.use('de');
```

Resource File

```
{
    "FLIGHTS": {
        "from": "From",
        "to": "to",
        "search": "Search",
        "found": "{{count}} flights found."
    }
}
```

Translation

```
{{'FLIGHTS.from' | translate}}
{{'FLIGHTS.found' | translate:{count: 7} }}
```

DEMO



Pipes and local Formats

```
{{ flight.date | date:'long' }}
```

Import format information

```
import { registerLocaleData } from '@angular/common';
import localeDe from '@angular/common/locales/de';
import localeDeAt from '@angular/common/locales/de-AT';
import localeEs from '@angular/common/locales/es';

registerLocaleData(localeDe); // de-DE
registerLocaleData(localeDeAt); // de-AT
registerLocaleData(localeEs); // es-ES
```

Define default locale

```
providers: [
    [...]
    { provide: LOCALE_ID, useValue: 'de' },
]
```

Use Formats

```
Datum (Default=de): {{ item.date | date:'long' }}
Datum (de-AT): {{ item.date | date:'long':'': 'de-AT' }}
Datum (es): {{ item.date | date:'long':'': 'es' }}
```

I18N and Inputs?

- Pipes are just for outputs
- Use component lib (like Angular Material)
- General concept: ControlValueAccessor