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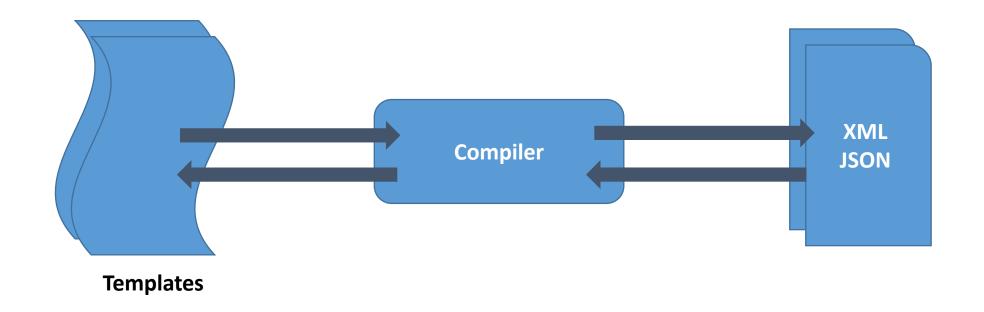
Angular Compiler



Angular Compiler

XML Localisation Interchange File Format (XLIFF, version 1.2)

XML Message Bundle (XMB)





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
i18n="Description">To
i18n="Meaning|Description">Passengers
i18n="Meaning|Description@@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
```



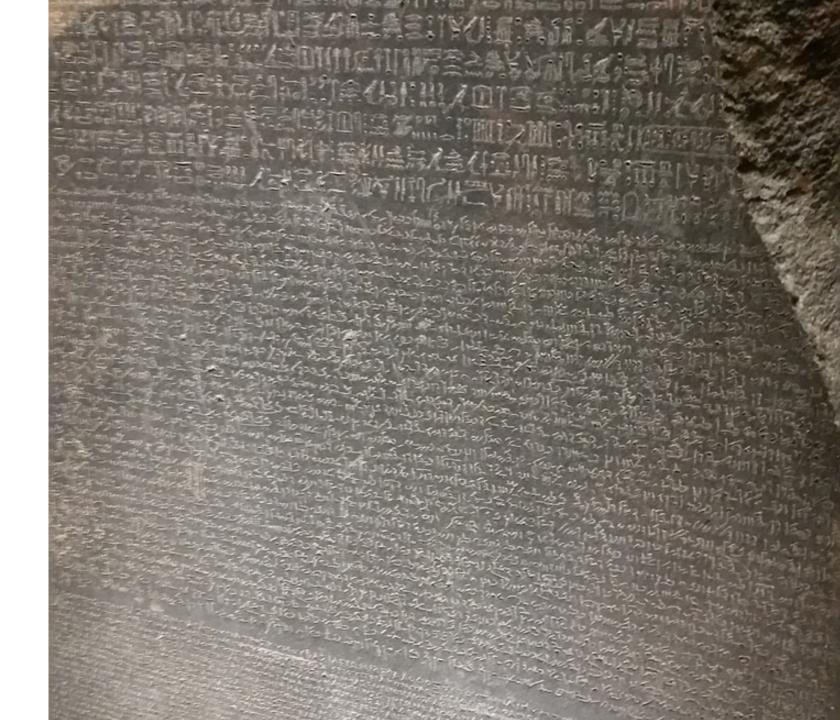
angular.json

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

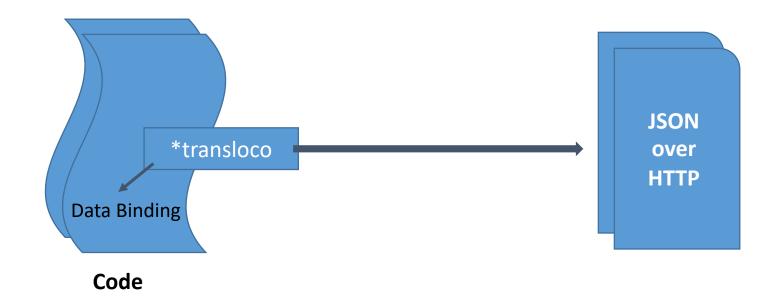
ng build --localize



Transloco



Transloco



Data format and way of loading are adaptable



Transloco

One Build

Change
Language at
Runtime!

Read
Translations in
Code

Data Binding
Influences
Performance



Usage

Using angular/cli

-> ng add @ngneat/transloco

Using nx

-> npm install @ngneat/transloco

-> nx g @ngneat/transloco:ng-add --project flight-app



Generated code - Module

```
@NgModule({
exports: [TranslocoModule],
providers: [
   provide: TRANSLOCO CONFIG,
   useValue: translocoConfig({
    availableLangs: ['de', 'en'],
    defaultLang: 'de',.
    reRenderOnLangChange: true,
    prodMode: environment.production,
  { provide: TRANSLOCO LOADER, useClass: TranslocoHttpLoader }
export class TranslocoRootModule {}
```



Generated code - Loader

```
@Injectable({ providedIn: 'root' })
export class TranslocoHttpLoader implements TranslocoLoader {
  constructor(private http: HttpClient) {}

getTranslation(lang: string) {
  return this.http.get<Translation>(`/assets/i18n/${lang}.json`);
  }
}
```



Resource File

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



Translation



DEMO



LAB





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

