

118N mit Angular

Manfred Steyer **SOFTWARE** architekt.at

Inhalt

- Angular Compiler
- ngx-translate

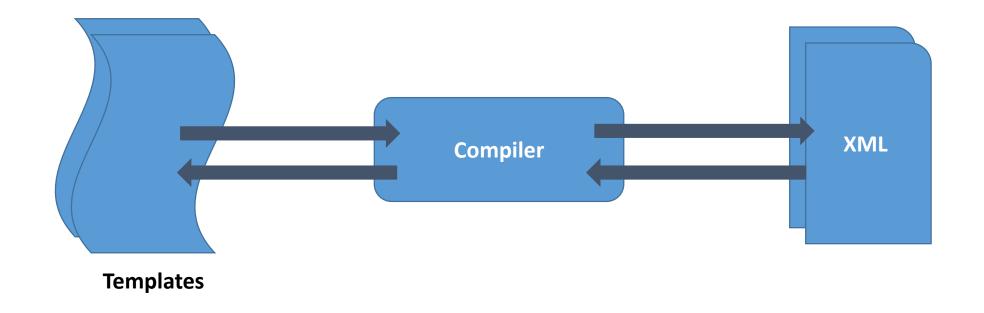
Angular Compiler



Angular Compiler

XML Localisation Interchange File Format (XLIFF, version 1.2)

XML Message Bundle (XMB)



SOFTWARE architekt.at

Angular Compiler

Great Performance

One Build per Language

Cannot Change Language at Runtime! Cannot Read Translations in Code

Texte markieren

```
From
To
Passengers
```

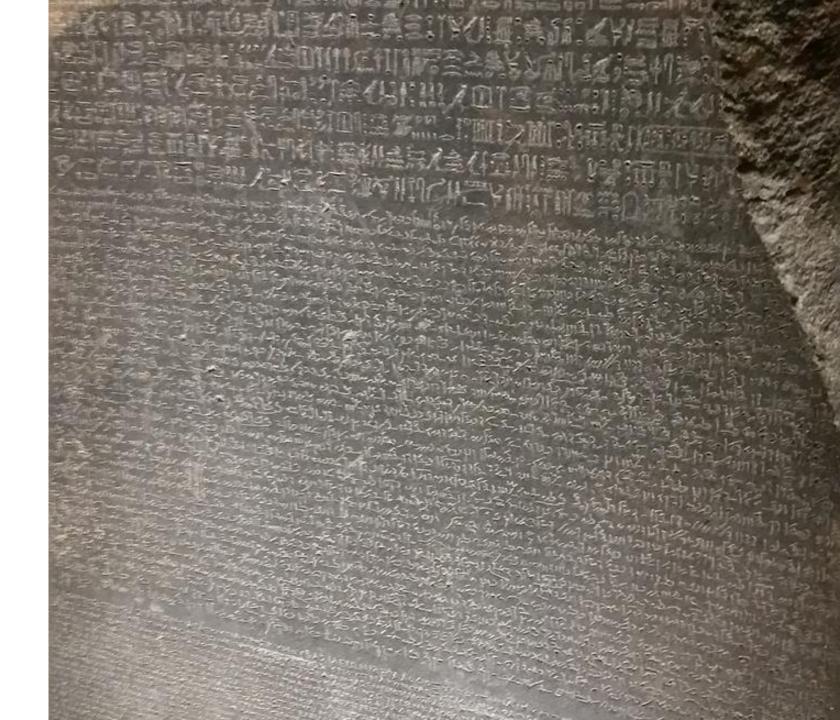
Texte extrahieren (Angular CLI)

ng xi18n

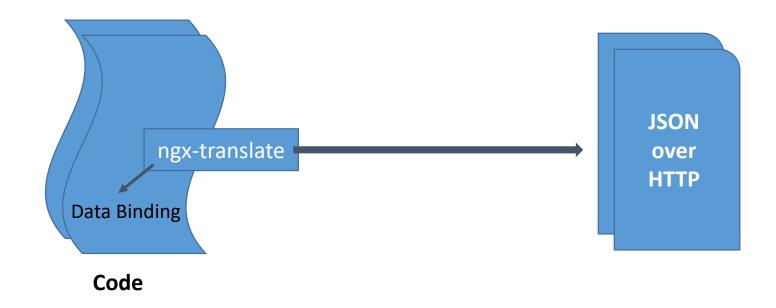
Übersetzungen und AOT (Angular CLI)

Übersetzungen und JIT

ngx-translate



ngx-translate



Data format and way of loading are adaptable

SOFTWARE architekt.at

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