

# 118N mit Angular

Manfred Steyer **SOFTWARE** architekt.at

#### Inhalt

- Angular Compiler
- ngx-translate

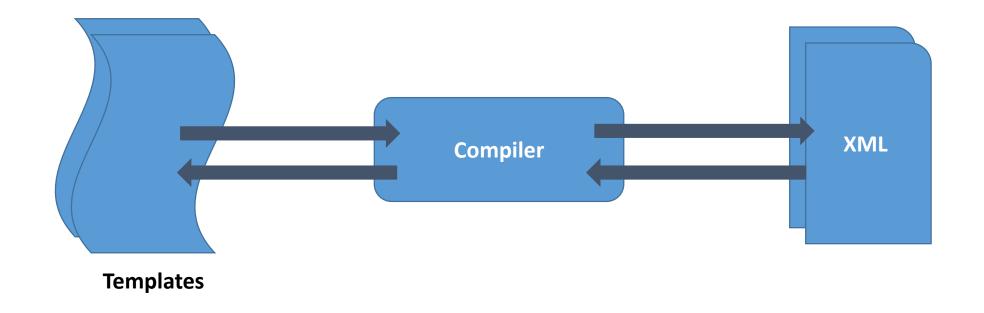
Angular Compiler



## 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
```

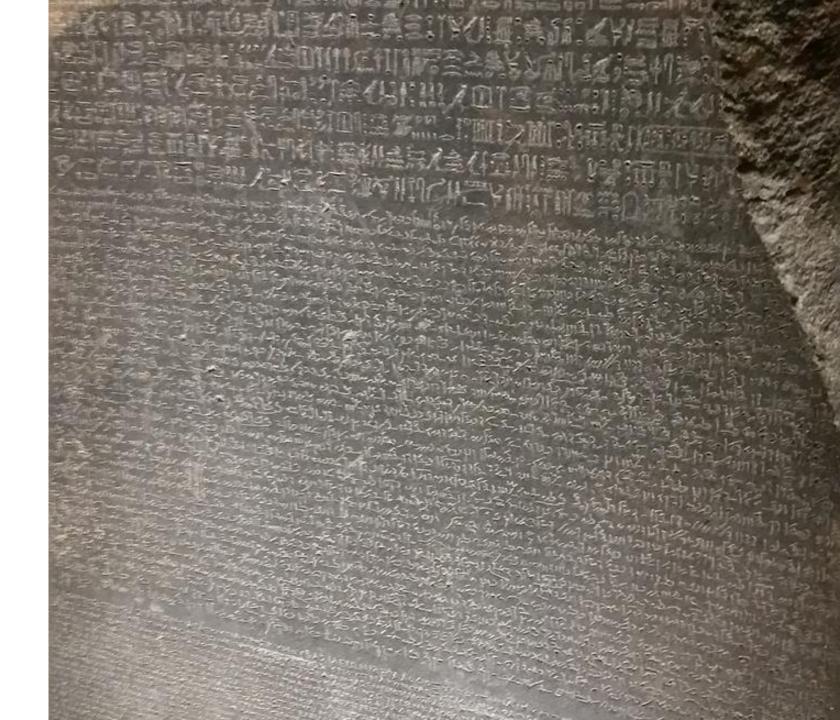
# Texte extrahieren (Angular CLI)

ng xi18n

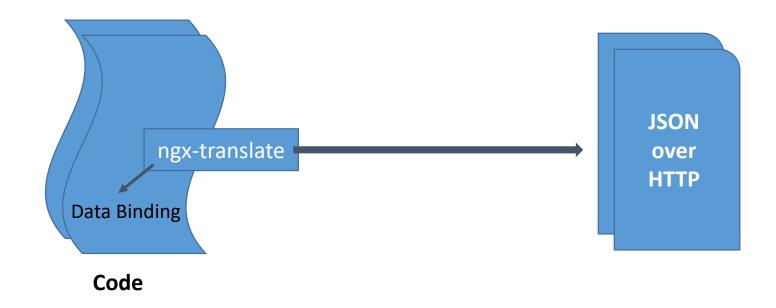
# Übersetzungen und AOT (Angular CLI)

# 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':'p '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