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Angular Compiler



Angular Compiler

- Extracts text from templates into xml files
- You can translate xml files (with a tool)
 - XML Message Bundle (XMB)
 - XML Localisation Interchange File Format (XLIFF, version 1.2)
- Compiles XML back into the application
 - JIT or AOT
- Very high performance
- You cannot change language without reloading the application
 - JIT: Reload application and use other language file
 - AOT: One build for each language

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Flag texts

```
From
To
Passengers
```

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Extract texts

ng-xi18n -p tsconfig.translate.json

Translations and AOT

```
ngc -p tsconfig.aot.json --i18nFile=src/i18n/messages.de.xlf
--locale=de
--i18nFormat=xlf
```

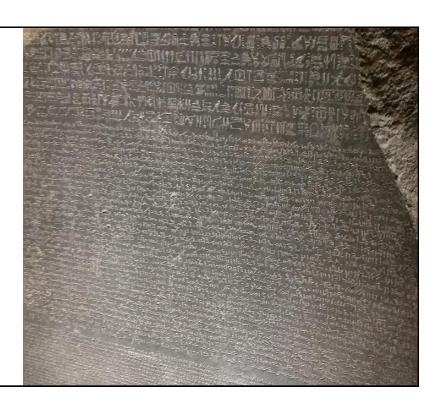
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Translations and JIT

DEMO

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Angular 2 Translate



Angular 2 Translate

- Community Solution
- · Light weight and extensible
- https://github.com/ocombe/ng2-translate
- Migration of a very popular translation lib for AngularJS 1.x
- JSON-based Files
 - Extension points and extensions for other formats
- · Changing language on the fly
- Uses data binding (performance?)
- Community Extension to extract texts from templates

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Import Library

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

Import Library

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Initialize

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

Resource Files

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

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Translation

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



Load Locale Data

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

Register Locale Data

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

import { registerLocaleData } from '@angular/common';

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

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Define Default Language (JIT)

Define Default Language (AOT)

```
ngc -p tsconfig.aot.json --locale=de
```

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Use Pipes

```
Copenie: {{item.date | date:'long'}}
Date: {{item.date | date:'long':'':'es'}}
```

DEMO

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I18N and Inputs?

- Pipes are just for outputs
- Use Component Lib (like Angular Material)
- General Concept: Control Value Accessor