

Angular i18n

May the 4th be with you

i18n

- Officially supported but some parts are still experimental
- Start using it now to avoid headache in the future because you WILL serve non-English speakers
- Anecdote: recent production deployment = already getting website usage increase

Simple cases

- `<p i18n>Hello</p>`
- `<p i18n="@@hello">Hello</p>` 
- `<p i18n="A greeting">Hello</p>`
- `<p i18n="site header|A greeting">Hello</p>`
- `<p i18n="site header|A
greeting@@hello">Hello</p>` 

Translation file

- `<trans-unit id="introductionHeader" datatype="html">`
- `<source>Hello!</source>`
- `<note priority="1" from="description">A greeting</note>`
- `<note priority="1" from="meaning">site header</note>`
- `</trans-unit>`

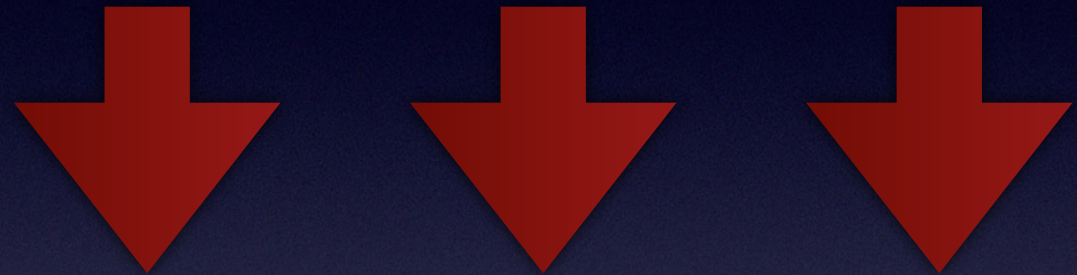
I don't want to create a new element

- `<ng-container i18n>I don't output any element</ng-container>`

Translate element attributes

- ``

Singular and plural

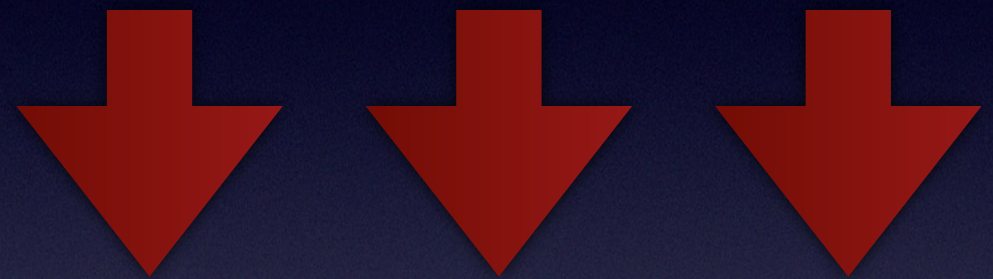


- `Updated {minutes, plural, =0 {just now} =1 {one minute ago} other {{{minutes}} minutes ago}}`

Translation file

- `<trans-unit
id="5a134dee893586d02bffc9611056b9cadf9abfad"
datatype="html">`
- `<source>{VAR_PLURAL, plural, =0 {just now} =1 {one
minute ago} other {<x id="INTERPOLATION" equiv-
text="{{minutes}}"/> minutes ago} }</source>`
- `<target>{VAR_PLURAL, plural, =0 {à l'instant} =1 {il y a
une minute} other {il y a <x id="INTERPOLATION" equiv-
text="{{minutes}}"/> minutes} }</target>`
- `</trans-unit>`

Alternative text messages



- `The author is {gender, select, male {male} female {female} other {other}}`

Translation file

- `</trans-unit>`
- `<trans-unit id="f99f34ac9bd4606345071bd813858dec29f3b7d1" datatype="html">`
- `<source>The author is <x id="ICU" equiv-text="{gender, select, male {...} female {...} other {...}}"/></source>`
- `<target>L'auteur est <x id="ICU" equiv-text="{gender, select, male {...} female {...} other {...}}"/></target>`
- `</trans-unit>`
- `<trans-unit id="eff74b75ab7364b6fa888f1cbfae901aaaf02295" datatype="html">`
- `<source>{VAR_SELECT, select, male {male} female {female} other {other} }</source>`
- `<target>{VAR_SELECT, select, male {un homme} female {une femme} other {autre} }</target>`
- `</trans-unit>`

Pipes

- Currency, date, decimal, percent formatting. You **will** run into this!

src/app/app.module.ts

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```
import { registerLocaleData } from '@angular/common';  
import localeFr from '@angular/common/locales/fr';  
  
// the second parameter 'fr' is optional  
registerLocaleData(localeFr, 'fr');
```



Experimental

API / @angular/common



registerLocaleData

FUNCTION

EXPERIMENTAL

Register global data to be used internally by Angular. See the ["I18n guide"](#) to know how to import additional locale data.

```
registerLocaleData(data: any, localeId?: string | any, extraData?: any): void
```

Parameters

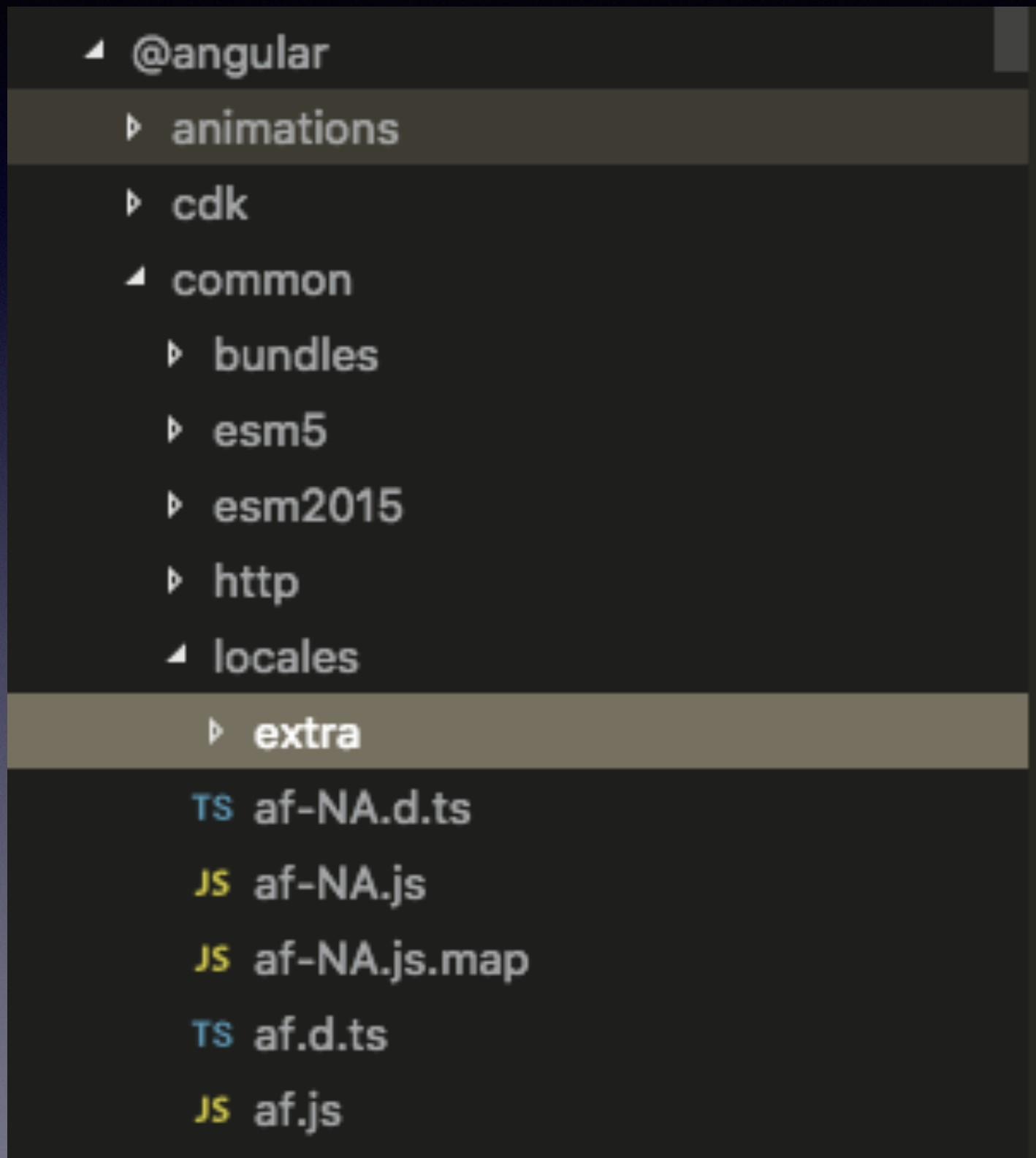
data	Type: any.
localeId	Type: string any. Optional. Default is undefined.
extraData	Type: any. Optional. Default is undefined.



Returns

void

Check if you need extra



Locale Extra

- `import { registerLocaleData } from '@angular/common';`
- `import localeFrCa from '@angular/common/locales/fr-CA';`
- `import localeFrCaExtra from '@angular/common/locales/extra/fr-CA';`
- `registerLocaleData(localeFrCa, 'fr-CA' localeFrCaExtra);`

Locale extra approaches

- CLI “should” do this for you but check just in case when you give flag `--locale fr-CA`
- angular-seed does NOT do this for you (yet).

AOT vs JIT

Discussion time

AOT Compiler

```
ng serve --aot --i18nFile=src/locale/messages.fr.xlf --i18nFormat=xlf --  
locale=fr
```

- `--i18nFile`: the path to the translation file.
- `--i18nFormat`: the format of the translation file.
- `--locale`: the locale id.

That's it!

- Questions
- Comments
- Suggestions
- Feelings
- Thoughts