**Configure i18n with Angular 12**



Photo by [Alexander Schimmeck](https://unsplash.com/@alschim?utm_source=medium&utm_medium=referral) on [Unsplash](https://unsplash.com/?utm_source=medium&utm_medium=referral" \t "_blank)

**Build configuration**

First add the [localize](https://angular.io/guide/i18n-common-add-package#add-the-localize-package) package to use the localization features of Angular

ng add @angular/localize

**angular.json**

*Ref:*[*Define locales in the build configuration*](https://angular.io/guide/i18n-common-merge#define-locales-in-the-build-configuration)

**Note**: when I use *app* you should use your project name defined in *defaultProject*

Under ***projects/{projectName}/i18n*** all locales must be defined in order to be used

Under ***projects/{projectName}/architect/build/configurations***we define the configurations for each environment. Keep in mind that each language needs a different configuration, despite the fact that many things will be repeated.

Under ***projects/{projectName}/architect/serve/configurations*** we define the configurations we want to be served in development mode, these will refer to the build section

Finally, under ***projects/{projectName}*** we must define the configuration to extract these translations into a file, so it can be easily translated and added to the app.

**Translate**

*Ref:*[*Prepare component for translation*](https://angular.io/guide/i18n-common-prepare#prepare-component-for-translation)

In the html templates where we want to use translations, we will insert *i18n* attributes to mark text for translation.

[adrisons](https://gist.github.com/adrisons) / **[messages.es.xlf](https://gist.github.com/adrisons/0b026ed487c5e58a9e216046d2fc51f5)**

Created 5 months ago

angular localize example | messages.es.xlf

|  |  |
| --- | --- |
|  | <unit id="2392488717875840729"> |
|  | <notes> |
|  | <note category="location">src/app/pages/login/login.component.html:28</note> |
|  | <note category="description">User name label in login form</note> |
|  | </notes> |
|  | <segment> |
|  | <source>User</source> |
|  | <target>Usuario</target> |
|  | </segment> |
|  | </unit> |

* [1 file](https://gist.github.com/adrisons/96d0814a3ddcf9ecec11258f293742ac)
* [0 forks](https://gist.github.com/adrisons/96d0814a3ddcf9ecec11258f293742ac/forks)
* [0 comments](https://gist.github.com/adrisons/96d0814a3ddcf9ecec11258f293742ac#comments)
* [0 stars](https://gist.github.com/adrisons/96d0814a3ddcf9ecec11258f293742ac/stargazers)

[@adrisons](https://gist.github.com/adrisons)

[adrisons](https://gist.github.com/adrisons) / [**login.html**](https://gist.github.com/adrisons/96d0814a3ddcf9ecec11258f293742ac)

Created 5 months ago

angular localize example | login.html

|  |  |
| --- | --- |
|  | <mat-form-field appearance="outline"> |
|  | <mat-label for="username" i18n="User name label in login form" |
|  | >User</mat-label |
|  | > |
|  | <input |
|  | matInput |
|  | name="username" |
|  | formControlName="username" |
|  | type="text" |
|  | placeholder="User" |

* [1 file](https://gist.github.com/adrisons/74516529e21fb1742b8978ee12bf3f58)
* [0 forks](https://gist.github.com/adrisons/74516529e21fb1742b8978ee12bf3f58/forks)
* [0 comments](https://gist.github.com/adrisons/74516529e21fb1742b8978ee12bf3f58#comments)
* [0 stars](https://gist.github.com/adrisons/74516529e21fb1742b8978ee12bf3f58/stargazers)

[@adrisons](https://gist.github.com/adrisons)

[adrisons](https://gist.github.com/adrisons) / [**angular.json-i18n.json**](https://gist.github.com/adrisons/74516529e21fb1742b8978ee12bf3f58)

Created 5 months ago

angular localize example | angular.json-i18n.json

|  |  |
| --- | --- |
|  | "i18n": { |
|  | "sourceLocale": "en-US", |
|  | "locales": { |
|  | "es": "src/locale/messages.es.xlf" |
|  | } |
|  | } |

* [1 file](https://gist.github.com/adrisons/9a57b7805b6f11aca64623125377696e)
* [0 forks](https://gist.github.com/adrisons/9a57b7805b6f11aca64623125377696e/forks)
* [0 comments](https://gist.github.com/adrisons/9a57b7805b6f11aca64623125377696e#comments)
* [0 stars](https://gist.github.com/adrisons/9a57b7805b6f11aca64623125377696e/stargazers)

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[adrisons](https://gist.github.com/adrisons) / [**angular.json-extract-i18n.json**](https://gist.github.com/adrisons/9a57b7805b6f11aca64623125377696e)

Created 5 months ago

angular localize example | angular.json-extract-i18n.json

|  |  |
| --- | --- |
|  | "extract-i18n": { |
|  | "builder": "@angular-devkit/build-angular:extract-i18n", |
|  | "options": { |
|  | "browserTarget": "app:build", |
|  | "format": "xliff2", |
|  | "outputPath": "src/locale" |
|  | } |
|  | } |

* [1 file](https://gist.github.com/adrisons/8286b74726cb4100eac54f3c56354340)
* [0 forks](https://gist.github.com/adrisons/8286b74726cb4100eac54f3c56354340/forks)
* [0 comments](https://gist.github.com/adrisons/8286b74726cb4100eac54f3c56354340#comments)
* [0 stars](https://gist.github.com/adrisons/8286b74726cb4100eac54f3c56354340/stargazers)

[@adrisons](https://gist.github.com/adrisons)

[adrisons](https://gist.github.com/adrisons) / **[angular.json-architect-serve-configurations.json](https://gist.github.com/adrisons/8286b74726cb4100eac54f3c56354340)**

Created 5 months ago

angular localize example | angular.json-architect-serve-configurations.json

|  |  |
| --- | --- |
|  | "mock-es": { |
|  | "browserTarget": "app:build:mock-es" |
|  | } |

* [1 file](https://gist.github.com/adrisons/bb3bbac6c943c3c4581efd1bb31a8fcf)
* [0 forks](https://gist.github.com/adrisons/bb3bbac6c943c3c4581efd1bb31a8fcf/forks)
* [0 comments](https://gist.github.com/adrisons/bb3bbac6c943c3c4581efd1bb31a8fcf#comments)
* [0 stars](https://gist.github.com/adrisons/bb3bbac6c943c3c4581efd1bb31a8fcf/stargazers)

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[adrisons](https://gist.github.com/adrisons) / **[angular.json-architect-build-configurations.json](https://gist.github.com/adrisons/bb3bbac6c943c3c4581efd1bb31a8fcf)**

Created 5 months ago

angular localize example | angular.json-architect-build-configurations.json

|  |  |
| --- | --- |
|  | "mock-es": { |
|  | "fileReplacements": [ |
|  | { |
|  | "replace": "src/environments/environment.ts", |
|  | "with": "src/environments/environment.mock.ts" |
|  | } |
|  | ], |
|  | "localize": ["es"], |
|  | "baseHref": "/app/es/" |
|  | } |

* [1 file](https://gist.github.com/adrisons/1e51f064c0a7497a445129d1fc3af24f)
* [0 forks](https://gist.github.com/adrisons/1e51f064c0a7497a445129d1fc3af24f/forks)
* [0 comments](https://gist.github.com/adrisons/1e51f064c0a7497a445129d1fc3af24f#comments)
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[adrisons](https://gist.github.com/adrisons) / [**Angular I18n Editor error.xml**](https://gist.github.com/adrisons/1e51f064c0a7497a445129d1fc3af24f)

Created 5 months ago

angular localize example | Angular I18n Editor error

|  |  |
| --- | --- |
|  | <target>!MISSING\_TRANSLATION!</target> |

* [1 file](https://gist.github.com/adrisons/1d4764f3459d6559193b25ac33249da9)
* [0 forks](https://gist.github.com/adrisons/1d4764f3459d6559193b25ac33249da9/forks)
* [0 comments](https://gist.github.com/adrisons/1d4764f3459d6559193b25ac33249da9#comments)
* [0 stars](https://gist.github.com/adrisons/1d4764f3459d6559193b25ac33249da9/stargazers)

[@adrisons](https://gist.github.com/adrisons)

[adrisons](https://gist.github.com/adrisons) / **[messages.xlf](https://gist.github.com/adrisons/1d4764f3459d6559193b25ac33249da9)**

Last active 5 months ago

angular localize example | messages.xlf

|  |  |
| --- | --- |
|  | <unit id="9065302855510757295"> |
|  | <notes> |
|  | <note category="location">src/app/pages/login/login.component.html:41</note> |
|  | <note category="description">Error message: user not correct</note> |
|  | </notes> |
|  | <segment> |
|  | <source>User name is not correct</source> |
|  | </segment> |
|  | </unit> |

* [1 file](https://gist.github.com/adrisons/0223b51813474abbaead70770a3e2727)
* [0 forks](https://gist.github.com/adrisons/0223b51813474abbaead70770a3e2727/forks)
* [0 comments](https://gist.github.com/adrisons/0223b51813474abbaead70770a3e2727#comments)
* [0 stars](https://gist.github.com/adrisons/0223b51813474abbaead70770a3e2727/stargazers)

[@adrisons](https://gist.github.com/adrisons)

[adrisons](https://gist.github.com/adrisons) / [**infinite-scroll.component.ts**](https://gist.github.com/adrisons/0223b51813474abbaead70770a3e2727)

Created 10 months ago

Infinite scroll component in Angular

|  |  |
| --- | --- |
|  | import { |
|  | AfterViewInit, |
|  | Component, |
|  | ElementRef, |
|  | EventEmitter, |
|  | Input, |
|  | OnDestroy, |
|  | Output, |
|  | ViewChild, |
|  | ChangeDetectionStrategy, |

Example of login field:

It is a good practice to provide additional information or context to each translation, to help the translator.

Once we have the template with *i18n* tags, run ***ng extract-i18n*** and a translation file will be generated with name ***messages.xlf*** (or another extension, depending on the one we chose in build options ***outputPath***). This file has the reference of each *i18n* tag we wrote. For example:

We will copy this file and paste it for each locale we want to implement (e.g. ***messages.es.xlf***), and add the corresponding translations under each *<segment>* tag using a *<target>* tag. Example:

In order not to leave fields untranslated, there are tools like [Angular I18n Editor for VSCode](https://marketplace.visualstudio.com/items?itemName=Roman-Lo.vscode-ng-i18n-editor), which when it finds an untranslated field, it introduces:

**Deploy**

*Ref:*[*Deploy multiple locales*](https://angular.io/guide/i18n-common-deploy)

For each locale we should make different versions of the app, i.e. we will compile the app once for each locale (e.g. ***ng build — configuration prod-es***). It will be the server who decides which version to deliver to users.

Typical deployment of multiple languages serve each language from a different subdirectory. Users are redirected to the preferred language defined in the browser using the *Accept-Language* HTTP header. If the user has not defined a preferred language, or if the preferred language is not available, then the server falls back to the default language.

To local launch the app with Spanish locales we have to do:

* Generate translation files (***ng extract-i18n***)
* Serve a version with the specific locale (***ng serve — configuration mock-es***)