



## 3.2.1 STEP 2.1 - CREATING AND TRANSLATING TEXTS

This document is a step-by-step presentation of how to generate **all the textual content** of the Mooc in any target language. The methodology requires the DeepL API <https://www.deepl.com/pro-api?cta=header-pro-api/>. It is based on the work carried out by the Inria Learning Lab (Laurence Farhi / Benoit Rospars + the team members primarily involved in the AI4T project: Marie Collin and Bénédicte Cardon) to **produce and distribute the Mooc content** and associated teaching resources in 5 languages.

To illustrate the different stages of translation, we propose a recurring example with the translation of Mooc content into Spanish.

Note : This document is complemented by a specific-tutorial for the proof reading of the created files once the machine translation step is completed.

### 1- ACCESS TO YOUR FORK OF THE GITHUB REPOSITORY OF THE PROJECT

Example of URL of a created fork from AI4T : <https://github.com/> \*\*YOURNAME /ai4t\*\*

### 2- DOWNLOAD YOUR FORK OF THE GITHUB REPOSITORY AS ZIP

The screenshot shows a GitHub repository page for 'benedictecardon / ai4t'. The 'Code' tab is selected. A context menu is open over the repository name, with 'Download ZIP' highlighted. Other options in the menu include 'Local', 'Codespaces', 'Clone' (with HTTPS, SSH, and GitHub CLI options), and 'Open with GitHub Desktop'.

Downloading a repository in github as ZIP.

### 3- UNZIP THE FOLDER

You then have a "ai4t-main" folder

### 4- CREATE THE SCRIPT IN YOUR TARGET LANGUAGE



- Copy the file "trad.py" and paste it under the relevant name using for example "tradXX.py" (🚩 tradES.py for spanish)
- Open the new file "tradXX.py" - the code shown before any modification is for translating english files into french.

Then you have to change the target language according to your needs: the "fr" mention has to be replaced at two places:

```
27             targetPath = srcPath.replace('.en.md', '.fr.md')
28             print('Out : ' + targetPath)
29             if not args.dryrun:
30                 result = str(translator.translate_text(
31                     s,
32                     target_lang="FR", ②
33                     tag_handling="xml",
34                     ignore_tags=['img', 'a'])
```

*Example of extract of the trad.py script with mention of the target language (ie.FR).*

① \*\*line 27\*\* : `targetPath = srcPath.replace('.en.md','fr.md')`

② \*\*and line 32\*\* : `target_lang="FR",`

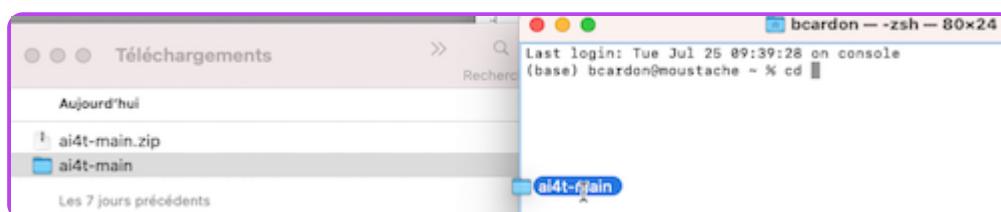
## 🚩 For translating to spanish

```
27             targetPath = srcPath.replace('.en.md', '.es.md')
28             print('Out : ' + targetPath)
29             if not args.dryrun:
30                 result = str(translator.translate_text(
31                     s,
32                     target_lang="ES", ②
33                     tag_handling="xml",
34                     ignore_tags=['img', 'a'])
```

*Example of extract of trad.py script with adaptation for translation to Spanish.*

## 5- OPEN A TERMINAL AND ACCESS TO THE "AI4T-MAIN" FOLDER

Run the command: `cd+space` then drag and drop the "ai4t-main" folder :





*Visualisation of moving the file from file explorer to terminal.*

## 6- SET UP DEEPL

■ Run the command: pip install deepl`

```
% pip install deepl
```

*Code command-pip-install-deepl.*

## 7- GENERATE THE NEW FILES IN TARGET LANGUAGES

■ Run the command: python tradXX.py --key=xxxxxxxx --path=<folder to translate>

- With "xxxxxxxx": key of your DeepL API
- "Folder to translate" : mention a unit folder - use drag and drop

The Mooc is in 4 modules, each module has 3 units (from N-1 to N-3) and an introduction (N-0).

There is also an introductory and a concluding section.

💡 for translating from EN to ES the folder containing all pages of Module 4 Unit 3 "artificial-intelligence-at-our-service"

```
4-3-artificial-intelligence-at-our-service
```

*Example of unit folder to drag-and-drop for generating translation.*

■ Run the command : python tradES.py --key=xxxxxxxx --path=

Two new files in Spanish are generated

- 4-3-1v-artificial-intelligence-at-our-service.es.md
- 4-3-2a-case-study-with-ai-templates.es.md

## 8- REVIEW THE CREATED FILES (FORMAL REVIEW)

Using this method, all elements in English in the reference file are translated to the target language.

The some adjustment are to be made for each file as:

- The elements of the header : title, description (and the author and type of resources when relevant)



- And the elements of metadata have to be reviewed to ensure the proposer running of the web pages and the presence of compatible Metadata in each languages.

## Translation of a file from EN to ES

```
1  ---
2  title: 1.0.1 Presentation of Module 1
3  description: Presentation of Module 1
4  ---
5  ??? info "Metadata"
6      - Id: EU.AI4T.01.M1.0.1t
7      - Title: 1.0.1 Presentation of Module 1
8      - Type: text
9      - Description: Presentation of Module 1
10     - Subject: Artificial Intelligence for and by Teachers
11     - Authors:
12         - AI4T
13     - Licence: CC BY 4.0
14     - Date: 2022-11-15
15
16 # Presentation of Module 1
```

*Header and Metadata in the reference EN file.*

```
1  ---
2  título: 1.0.1 Presentación del Módulo 1
3  descripción: Presentación del Módulo 1
4  ---
5  info "Metadatos"
6      - Id: EU.AI4T.01.M1.0.1t
7      - Título: 1.0.1 Presentación del Módulo 1
8      - Tipo: texto
9      - Descripción: Presentación del Módulo 1
10     - Asunto: Inteligencia artificial por y para profesores
11     - Autores:
12         - AI4T
13     - Licencia: CC BY 4.0
14     - Fecha: 2022-11-15
15
```

*Header and Metadata in the ES file before review markdown file in spanish.*

**Changes to be made:**

### IN THE HEADER

- **title** instead of **título**
- **description** instead of **descripción**



And when relevant:

- **contributors** instead of **colaborador**
- **type** instead of **tipo**
- **text** instead of **texto**
- **activity** instead of **actividad**
- **video** instead **vídeo**

## IN THE METADATA

- **Title** instead of **Titulo**
- **Tipe** instead of **Tipo**
- **Text** instead of **Texto**
- **Activity** instead of **Actividad**
- **Video** instead **Vídeo**
- **Description** instead of **Descripción**
- **Subject : Artificial intelligence for and by Teachers** instead of **Asunto: Inteligencia artificial por y para profesores**
- **Authors** instead of **Autores**
- **Licence** instead of **Licencia**
- **Date** instead of **Fecha**

**Note:** Be careful with upper and lower case: some elements require a capital letter at the beginning of the word, others do not.

```
1 ---  
2 title: 1.0.1 Presentation of Module 1  
3 description: Presentation of Module 1  
4 ---  
5 ??? info "Metadata"  
6 - Id: EU.AI4T.01.M1.0.1t  
7 - Title: 1.0.1 Presentation of Module 1  
8 - Type: text  
9 - Description: Presentation of Module 1  
10 - Subject: Artificial Intelligence for and by Teachers  
11 - Authors:  
12     - AI4T  
13 - Licence: CC BY 4.0  
14 - Date: 2022-11-15  
15  
16 # Presentation of Module 1  
17 Artificial intelligence (AI) has been making its way into our daily lives for a few  
18 years. In the educational domain, the field of jobs that will be most affected by AI in the  
19 future is likely to be teaching and learning. This is because AI can help teachers to  
20 manage their classes more efficiently and effectively. For example, AI can help  
21 teachers to grade student assignments faster and more accurately. It can also help  
22 teachers to provide personalized feedback to students based on their individual  
23 needs. Additionally, AI can help teachers to create more engaging and interactive  
24 lessons. For example, AI can generate quizzes and games that are tailored to each  
25 student's level of understanding. This can make learning more fun and  
26 effective.  
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```



The files in the new target languages were created locally on your computer. You now need to update your github fork.

**Note** that due to the large number of files, it's not possible to do this in one time.

A screenshot of a GitHub fork repository page for 'ai4t'. The top navigation bar shows the repository name 'ai4t' (Public), forks (8), and stars (0). Below the navigation, there are buttons for 'main' (with a dropdown arrow), 'Branches' (with a dropdown arrow), and 'Tags'. A yellow circle labeled '1' highlights the 'Add file' button, which has a dropdown menu open with 'Create new file' and 'Upload files'. A red box surrounds the 'Upload files' option. Another yellow circle labeled '2' highlights the 'Upload files' option in the dropdown menu. To the right of the main content area, there is an 'About' sidebar with links to the repository's website, README, license, activity, stars, watching, and forks. Below the main content, there is a list of recent commits, including one from 'benedictecardon' and another from 'inrialearninglab'.

Where to upload files in a fork - screen caption of github.

A screenshot of the GitHub commit changes interface. At the top, there is a placeholder text 'Drag files here to add them to your repository' with a file icon and a link 'Or choose your files'. Below this, there is a section titled 'Commit changes' with two input fields. The first field, 'Add files via upload', is highlighted with a red box and a yellow circle labeled '1'. The second field, 'Add an optional extended description...', is also highlighted with a red box and a yellow circle labeled '2'.

How to upload files in a fork - screen caption of github.

Do not hesitate to add description of your upload for an easier tracking of the fork evolution and notably for synchronisation with other repositories when wanted

## 10- REVIEW THE CREATED FILES (CONTENT + LANGUAGE REVIEW)

Directly on github, in order to:

- Guarantee the linguistic quality of the proposed translation



- Improve or complement the text according to the local context when required
- Suggest substitutions or additions in the target language for resources cited in the original language (articles, books, websites, activities, etc.).

**See dedicated tutorial:** [Step 2.2 - Proofreading texts](#)