

Package: babeldown (via r-universe)

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Title Helpers for Automatic Translation of Markdown-based Content

Version 0.0.0.9000

Description Provide workflows and guidance for automatic translation of Markdown-based R content using DeepL API.

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URL <https://docs.ropensci.org/babeldown>,
<https://github.com/ropensci-review-tools/babeldown>

BugReports <https://github.com/ropensci-review-tools/babeldown/issues>

Depends R (>= 4.1)

Imports babelquarto (>= 0.0.0.9000), brio, cli, digest, glue, httr2, lifecycle, memoise, purrr, readr, rlang, rstudioapi, snakecase, tibble, tinkr (>= 0.2.0.9001), withr, xml2, yaml (>= 2.3.8)

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| | |
|-----------------|---|
| deepl_languages | <i>Languages supported by DeepL API</i> |
|-----------------|---|

Description

Languages supported by DeepL API

Usage

```
deepl_languages(type = c("target", "source"))
```

Arguments

| | |
|------|-----------------------------|
| type | Either "target" or "source" |
|------|-----------------------------|

Value

A data.frame of languages (language code as "language", name as "name", whether formality is supported as "supports_formality").

Examples

```
## Not run:
deepl_languages(type = "source")
deepl_languages(type = "target")

## End(Not run)
```

| | |
|-----------------|----------------------------------|
| deeph_translate | <i>Translate a Markdown file</i> |
|-----------------|----------------------------------|

Description

Translate a Markdown file

Usage

```
deeph_translate(  
  path,  
  out_path,  
  yaml_fields = c("title", "description"),  
  glossary_name = NULL,  
  source_lang = NULL,  
  target_lang = NULL,  
  formality = c("default", "more", "less", "prefer_more", "prefer_less")  
)
```

Arguments

| | |
|---------------|--|
| path | Path to the Markdown file to be translated (character). |
| out_path | Path where the new translated file should be saved (character). |
| yaml_fields | Vector of character names of YAML fields to translate. |
| glossary_name | Name of the glossary to be used, if any (character). |
| source_lang | Name or code of source language. See DeepL docs . |
| target_lang | Name or code of source language. See DeepL docs . |
| formality | Formality level to use (character), one of <ul style="list-style-type: none">"default" (default)"less" – for a more informal language"prefer_more" – for a more formal language if available, otherwise fallback to default formality"prefer_less" – for a more informal language if available, otherwise fallback to default formality |

Value

None

Examples

```
## Not run:  
english_lines <- c(  
  "## A cool section", "",  
  "This is the first paragraph. `system.file()` is cool, right?", "",
```

```

"Another paragraph. I really enjoy developing R packages.", "",
"Do you enjoy debugging?"
)
file <- withr::local_tempfile()
brio::write_lines(english_lines, file)
out_path <- withr::local_tempfile()
babeldown::deepl_translate(
  path = file,
  out_path = out_path,
  source_lang = "EN",
  target_lang = "ES",
  formality = "less"
)
readLines(out_path)

## End(Not run)

```

```
deepl_translate_clipboard
```

Translate Markdown string from clipboard

Description

Read the string from the clipboard using the clipr package. Guesses the source language using the cld3 package.

Usage

```

deepl_translate_clipboard(
  target_lang,
  source_lang = NULL,
  glossary_name = NULL,
  formality = c("default", "more", "less", "prefer_more", "prefer_less")
)

```

Arguments

| | |
|---------------|---|
| target_lang | Name or code of source language. See DeepL docs . |
| source_lang | Name or code of source language. Guessed using cld3 if not provided. See DeepL docs . |
| glossary_name | Name of the glossary to be used, if any (character). |
| formality | Formality level to use (character), one of <ul style="list-style-type: none"> "default" (default) "less" – for a more informal language "prefer_more" – for a more formal language if available, otherwise fallback to default formality "prefer_less" – for a more informal language if available, otherwise fallback to default formality |

Details

To make this function less chatty, set the `babeldown.quiet` option to `TRUE`.

Value

Translated Markdown string, also put on the clipboard.

Examples

```
## Not run:
clipr::write_clip("Je suis en vacances, en fait.")
deopl_translate_clipboard(target_lang = "EN-US")

clipr::write_clip("Je suis en vacances.")
deopl_translate_clipboard(target_lang = "EN-US")

## End(Not run)
```

deopl_translate_hugo *Translate a Hugo post*

Description

This translates the Markdown content including the "alt", "caption", "title" fields of shortcodes.

If it translates the title, it will update the slug.

This assumes the Hugo website uses

- YAML metadata at the top of posts;
- leaf bundles (each post in a folder, `leaf-bundle/index.md`);
- multilingualism so that a post in say Spanish lives in `leaf-bundle/index.es.md`.

Usage

```
deopl_translate_hugo(
  post_path = NULL,
  force = FALSE,
  yaml_fields = c("title", "description"),
  glossary_name = NULL,
  source_lang = NULL,
  target_lang = NULL,
  formality = c("default", "more", "less", "prefer_more", "prefer_less")
)
```

Arguments

| | |
|---------------|---|
| post_path | Path to post. If RStudio IDE is installed, it will default to the currently open document. If you use Quarto or R Markdown for Hugo, translate the source file (qmd or Rmd) and then render it to Markdown. |
| force | Whether to overwrite the post in the target language. |
| yaml_fields | Vector of character names of YAML fields to translate. |
| glossary_name | Name of the glossary to be used, if any (character). |
| source_lang | Name or code of source language. See DeepL docs . |
| target_lang | Name or code of source language. See DeepL docs . |
| formality | Formality level to use (character), one of <ul style="list-style-type: none"> "default" (default) "less" – for a more informal language "prefer_more" – for a more formal language if available, otherwise fallback to default formality "prefer_less" – for a more informal language if available, otherwise fallback to default formality |

Value

None

Examples

```
## Not run:
dir <- withr::local_tempdir()
blogdown::new_site(dir = dir)
deepl_translate_hugo(
  file.path(dir, "content", "post", "2016-12-30-hello-markdown", "index.md"),
  source_lang = "en",
  target_lang = "fr",
  formality = "less"
)
readLines(file.path(dir, "content", "post", "2016-12-30-hello-markdown", "index.fr.md"))

## End(Not run)
```

deepl_translate_markdown_string

Translate Markdown string

Description

Translate Markdown string

Usage

```
deeph_translate_markdown_string(  
  markdown_string,  
  glossary_name = NULL,  
  source_lang,  
  target_lang,  
  formality = c("default", "more", "less", "prefer_more", "prefer_less")  
)
```

Arguments

| | |
|-----------------|--|
| markdown_string | Markdown string to translate |
| glossary_name | Name of the glossary to be used, if any (character). |
| source_lang | Name or code of source language. See DeepL docs . |
| target_lang | Name or code of source language. See DeepL docs . |
| formality | Formality level to use (character), one of <ul style="list-style-type: none">"default" (default)"less" – for a more informal language"prefer_more" – for a more formal language if available, otherwise fallback to default formality"prefer_less" – for a more informal language if available, otherwise fallback to default formality |

Value

Translated Markdown string

Examples

```
## Not run:  
deeph_translate_markdown_string(  
  "[So _incredibly_ **wonderful**](https://ropensci.org)!",  
  source_lang = "EN",  
  target_lang = "FR",  
  formality = "less"  
)  
  
## End(Not run)
```

 deepl_translate_quarto

Translate a Quarto book chapter

Description

This assumes the book is set up à la [babelquarto](#).

Usage

```
deepl_translate_quarto(
  book_path,
  chapter,
  force = FALSE,
  render = TRUE,
  yaml_fields = c("title", "description"),
  glossary_name = NULL,
  source_lang = NULL,
  target_lang = NULL,
  formality = c("default", "more", "less", "prefer_more", "prefer_less")
)
```

Arguments

| | |
|---------------|---|
| book_path | Path to book source |
| chapter | Chapter name |
| force | Whether to overwrite the chapter in the target language. |
| render | Whether to run <code>babelquarto::render_bool()</code> after translation. |
| yaml_fields | Vector of character names of YAML fields to translate. |
| glossary_name | Name of the glossary to be used, if any (character). |
| source_lang | Name or code of source language. See DeepL docs . |
| target_lang | Name or code of source language. See DeepL docs . |
| formality | Formality level to use (character), one of <ul style="list-style-type: none"> "default" (default) "less" – for a more informal language "prefer_more" – for a more formal language if available, otherwise fallback to default formality "prefer_less" – for a more informal language if available, otherwise fallback to default formality |

Value

None

Examples

```
## Not run:
temp_dir <- withr::local_tempdir()
babelquarto::quarto_multilingual_book(
  parent_dir = temp_dir,
  book_dir = "blop",
  main_language = "en",
  further_languages = "es"
)
book_path <- file.path(temp_dir, "blop")
deeph_translate_quarto(
  book_path = book_path,
  chapter = "intro.qmd",
  force = TRUE, # the existing chapter is a placeholder
  render = TRUE,
  source_lang = "EN",
  target_lang = "ES",
  formality = "less"
)
# have a look at the translation
readLines(file.path(book_path, "intro.es.qmd"))
# servr::http(file.path(book_path, "_book"))

## End(Not run)
```

deeph_translate_vtt *Translate a VTT subtitles file*

Description**[Experimental]****Usage**

```
deeph_translate_vtt(
  path,
  out_path,
  glossary_name = NULL,
  source_lang = NULL,
  target_lang = NULL,
  formality = c("default", "more", "less", "prefer_more", "prefer_less")
)
```

Arguments

| | |
|---------------|---|
| path | Path to the Markdown file to be translated (character). |
| out_path | Path where the new translated file should be saved (character). |
| glossary_name | Name of the glossary to be used, if any (character). |

| | |
|-------------|---|
| source_lang | Name or code of source language. See DeepL docs . |
| target_lang | Name or code of source language. See DeepL docs . |
| formality | Formality level to use (character), one of <ul style="list-style-type: none"> • "default" (default) • "less" – for a more informal language • "prefer_more" – for a more formal language if available, otherwise fallback to default formality • "prefer_less" – for a more informal language if available, otherwise fallback to default formality |

Value

None

Examples

```
## Not run:
vtt <- system.file("pecan.vtt", package = "babeldown")
temp_dir <- withr::local_tempdir()
deepl_translate_vtt(
  vtt,
  out_path = file.path(temp_dir, "pecan.es.vtt"),
  source_lang = "EN",
  target_lang = "ES",
  formality = "less"
)
head(readLines(file.path(temp_dir, "pecan.es.vtt")))

## End(Not run)
```

 deepl_update

Update a translation of a file in a Git repo

Description

Re-use existing translation where possible (at the node level: paragraph, heading, item of list at the first level, etc.) `deepl_update()` is based on the commit history in a single branch, `deepl_branch_update()` is based on the commit history in a branch against another (in a GitHub PR for instance), and requires a configuration file (see "Configuration" section).

Usage

```
deepl_update(
  path,
  out_path,
  yaml_fields = c("title", "description"),
  glossary_name = NULL,
```

```

    source_lang = NULL,
    target_lang = NULL,
    formality = c("default", "more", "less", "prefer_more", "prefer_less"),
    max_commits = 100L
)

deepL_branch_update(repo = ".", max_commits = 100)

```

Arguments

| | |
|---------------|---|
| path | Path to the Markdown file to be translated (character). |
| out_path | Path where the new translated file should be saved (character). |
| yaml_fields | Vector of character names of YAML fields to translate. |
| glossary_name | Name of the glossary to be used, if any (character). |
| source_lang | Name or code of source language. See DeepL docs . |
| target_lang | Name or code of source language. See DeepL docs . |
| formality | Formality level to use (character), one of <ul style="list-style-type: none"> • "default" (default) • "less" – for a more informal language • "prefer_more" – for a more formal language if available, otherwise fallback to default formality • "prefer_less" – for a more informal language if available, otherwise fallback to default formality |
| max_commits | Maximal number of commits to go back to to find when the target and source files were updated. You might need to increase it if your project is very active. |
| repo | path to the Git repository. |

Value

None

Limitations of deepL_update()

deepL_update() looks for the latest commit that updated the source file, and for the latest commit that updated the target file. If the target file was updated later than the source file, or at the same time, nothing happens: you might need to fix up the Git history with rebase for instance. Also note that if there were some commits irrelevant to the translation but containing edits to the source file, like typo fixes, too much of the target file will be translated automatically again.

Configuration for deepL_branch_update()

deepL_branch_update() is more automatic but needs configuration. In a branch, for any edits made to any Rmd/qmd/md file, it will update the translations of the Rmd/qmd/md file with the same name and a language code. For instance if a branch had commits updating pkg_building.Rmd, deepL_branch_update() will update pkg_building.es.Rmd. Do not run it if your PR updated

both `pkg_building.Rmd` and `pkg_building.es.Rmd`. Make sure to read the section about Mark-down formatting.

The configuration needed must live under `_deepL.yml` at the root of the Git repo. It must contains those fields:

- "preferences" that for any source-target pair, indicates the preference for the formality, glossary and `yaml_fields` arguments of `deepL_translate()`.
- "excludes" that indicates which files to exclude from the automatic detection (all `Rmd/qmd/md` files are otherwise considered). It is used as `glob` arguments in calls to `fs::dir_ls()`.
- "languages" that for any language code used in file names, indicates what DeepL API code to use when it is a source or target language.

Example (`_deepL.yml`):

```

preferences:
- source: en
  target: es-419
  formality: less
  glossary: "glosario"
  yaml_fields: ["title"]
- source: en
  target: pt-br
  formality: less
  yaml_fields: ["title", "description"]
- source: pt
  target: en-us
  formality: prefer_less
  yaml_fields: ["title", "description"]
- source: es
  target: en-us
  formality: prefer_less
  yaml_fields: ["title", "description"]

excludes: ["*.md"]

languages:
- extension: es
  target: es-419
  source: es
- extension: ''
  target: en-us
  source: en
- extension: pt
  target: pt-br
  source: pt

```

deepl_upsert_glossary *Create or update glossary*

Description

Create or update glossary

Usage

```
deepl_upsert_glossary(filename, glossary_name = NULL, source_lang, target_lang)
```

Arguments

| | |
|---------------|--|
| filename | Name of the glossary file. See DeepL docs on supported formats . babeldown is stricter: the columns need to be named like source_lang and target_lang. |
| glossary_name | Name for the glossary. Defaults to the filename without extension. |
| source_lang | Name or code of source language. See DeepL docs . |
| target_lang | Name or code of source language. See DeepL docs . |

Value

glossary ID

Examples

```
## Not run:
deepl_upsert_glossary(
  system.file("example-es-en.csv", package = "babeldown"),
  glossary_name = "rstats-glosario",
  target_lang = "Spanish",
  source_lang = "English"
)

## End(Not run)
```

deepl_usage *Get DeepL API usage data*

Description

Get DeepL API usage data

Usage

```
deepl_usage()
```

Value

A list with DeepL API usage data, depending on the account type.

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