Package 'deephelp'

November 25, 2026

Type Package

Title Translate R Help Pages to Chinese with 'DeepSeek'

Version 0.3.5

Description Renders on-the-fly Simplified-Chinese translations of R help pages in the help pane of 'RStudio' or 'Positron', using the 'DeepSeek' chat model with reasoning (thinking mode) disabled for fast, low-cost, clean output. Works as a drop-in replacement for ? and help(). Translations are cached on disk.

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URL https://github.com/Exceptions-del/deephelp

BugReports https://github.com/Exceptions-del/deephelp/issues

Encoding UTF-8

Depends R (>= 4.1.0)

Imports httr, jsonlite, tools, utils, xml2

Suggests rstudioapi

Config/roxygen2/version 8.1.0

NeedsCompilation no

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Repository CRAN

Date/Publication 2026-11-25 12:40:14 UTC

Contents

deephelp 2
deephelp_clear_cache 2
deephelp_off 3
deephelp_on 3
deephelp_search 3
deephelp_status 4
deephelp_use 4

Index **6**

deephelp *Translate and display an R help page in Chinese*

Description

Translate and display an R help page in Chinese

Usage

```
deephelp(topic, package = NULL, lang = NULL, type = NULL, ...)
```

Arguments

topic	A name or character string specifying the help topic.
package	Optional package name. If ‘NULL‘, loaded packages are searched.
lang	Target language. Defaults to the value set via [deephelp_use()].
type	Output type: ‘"html"‘ (default, opens the translated page in the Help pane of RStudio or Positron) or ‘"text"‘ (prints plain text).
...	Currently ignored.

Value

An object of class ‘"deephelp_topic"‘, a list with components ‘topic‘, ‘package‘, ‘rd‘ (the parsed, translated Rd object) and ‘type‘. It has a ‘print()‘ method that renders the translated help page. On error, the call falls back to [utils::help()] and returns its value instead.

deephelp_clear_cache *Clear the translation cache*

Description

Clear the translation cache

Usage

```
deephelp_clear_cache(cache = NULL)
```

Arguments

cache	Cache directory to clear. Defaults to the current cache location.

Value

Invisibly ‘NULL‘. Called for its side effect of deleting the on-disk translation cache.

deephelp_off *Disable automatic translation of '¿ and 'help()'*

Description

Disable automatic translation of '¿ and 'help()'

Usage

```
deephelp_off()
```

Value

Invisibly 'FALSE'. Called for its side effect of disabling automatic translation.

deephelp_on *Enable automatic translation of '¿ and 'help()'*

Description

Enable automatic translation of '¿ and 'help()'

Usage

```
deephelp_on()
```

Value

Invisibly 'TRUE'. Called for its side effect of enabling automatic translation and attaching the '¿/'help()' shims.

deephelp_search *Translate fuzzy help-search results ('?¿, 'help.search')*

Description

Translate fuzzy help-search results ('?¿, 'help.search')

Usage

```
deephelp_search(pattern, package = NULL, ...)
```

Arguments

pattern	Keyword pattern to search for.
package	Optional package name to restrict the search.
...	Passed to [utils::help.search()].

Value

The value returned by [utils::help.search()], an object of class ‘"help_files_with_topic"‘ (a list including the ‘matches‘ data frame), with the ‘Title‘ column of ‘matches‘ translated to the target language.

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deephelp_status *Print the current configuration*

Description

Print the current configuration

Usage

```
deephelp_status()
```

Value

Invisibly, the current configuration as a named list. Called for its side effect of printing the configuration.

Examples

```
deephelp_status()
```

---

deephelp_use *Configure the DeepSeek backend*

Description

Configure the DeepSeek backend

Usage

```
deephelp_use(
  api_key = NULL,
  model = NULL,
  base_url = NULL,
  lang = NULL,
  cache = NULL,
  temperature = NULL,
  max_tokens = NULL,
  timeout = NULL,
  cjk_spacing = NULL,
  glossary = NULL
)
```

Arguments

api_key	DeepSeek API key. Falls back to ‘getOption("deephelp.api_key")‘ and then the ‘DEEPSEEK_API_KEY‘ environment variable.
model	Model name. Defaults to ‘"deepseek-flash"‘ (fast, cheap, non-reasoning). Use ‘"deepseek-v4-pro"‘ for higher quality at higher cost.
base_url	API base URL. Defaults to ‘"https://api.deepseek.com"‘.
lang	Target language. Defaults to Simplified Chinese.
cache	Cache directory. ‘NULL‘ uses the default location; ‘""‘ disables caching; otherwise a directory path.
temperature	Optional sampling temperature passed to the API.
max_tokens	Optional maximum number of output tokens.
timeout	HTTP timeout in seconds.
cjk_spacing	Logical. Insert consistent single spaces between Chinese and Latin letters/digits (and around code) in the translated output. Defaults to ‘TRUE‘.
glossary	Named character vector mapping English statistical terms to Chinese translations. Merged over the built-in glossary; use ‘character(0)‘ to disable the glossary entirely.

Value

Invisibly, the updated configuration as a named list. Called for its side effect of updating the stored configuration and printing the new status via [deephelp_status()].

Index

deephelp, 2
deephelp_clear_cache, 2
deephelp_off, 3
deephelp_on, 3
deephelp_search, 3
deephelp_status, 4
deephelp_use, 4