

Package ‘chatgpt’

July 22, 2025

Type Package

Title Interface to 'ChatGPT' from R

Version 0.2.3

Maintainer Juan Cruz Rodriguez <jcrodriguez@unc.edu.ar>

Description

'OpenAI's 'ChatGPT' <<https://chat.openai.com/>> coding assistant for 'RStudio'. A set of functions and 'RStudio' addins that aim to help the R developer in tedious coding tasks.

License GPL (>= 3)

URL <https://github.com/jcrodriguez1989/chatgpt>

BugReports <https://github.com/jcrodriguez1989/chatgpt/issues>

Encoding UTF-8

RoxygenNote 7.2.3

Imports clipr, httr, jsonlite, miniUI, rstudioapi, shiny, utils

NeedsCompilation no

Author Juan Cruz Rodriguez [aut, cre]

Repository CRAN

Date/Publication 2023-05-05 23:00:06 UTC

Contents

chatgpt-package	2
ask_chatgpt	2
comment_code	3
complete_code	3
create_unit_tests	4
create_variable_name	5
document_code	5
explain_code	6
find_issues_in_code	6
gpt_get_completions	7

optimize_code	8
parse_response	8
refactor_code	9
reset_chat_session	9
run_addin	10
run_addin_ask_chatgpt	10

Index 11

chatgpt-package	<i>'OpenAI's 'ChatGPT' <https://chat.openai.com/> coding assistant for 'RStudio'. A set of functions and 'RStudio' addins that aim to help the R developer in tedious coding tasks.</i>
-----------------	--

Description

'OpenAI's 'ChatGPT' <https://chat.openai.com/> coding assistant for 'RStudio'. A set of functions and 'RStudio' addins that aim to help the R developer in tedious coding tasks.

Author(s)

Maintainer: Juan Cruz Rodriguez <jcrodriguez@unc.edu.ar>

See Also

Useful links:

- <https://github.com/jcrodriguez1989/chatgpt>
- Report bugs at <https://github.com/jcrodriguez1989/chatgpt/issues>

ask_chatgpt	<i>Ask ChatGPT</i>
-------------	--------------------

Description

Note: See also 'reset_chat_session'.

Usage

```
ask_chatgpt(question)
```

Arguments

question	The question to ask ChatGPT.
----------	------------------------------

Value

A character value with the response generated by ChatGPT.

Examples

```
## Not run:
cat(ask_chatgpt("What do you think about R language?"))

## End(Not run)
```

`comment_code`*ChatGPT: Comment Code*

Description

ChatGPT: Comment Code

Usage

```
comment_code(code = clipr::read_clip(allow_non_interactive = TRUE))
```

Arguments

<code>code</code>	The code to be commented by ChatGPT. If not provided, it will use what's copied on the clipboard.
-------------------	---

Value

A character value with the response generated by ChatGPT.

Examples

```
## Not run:
cat(comment_code("for (i in 1:10) {\n  print(i ** 2)\n}"))

## End(Not run)
```

`complete_code`*ChatGPT: Complete Code*

Description

ChatGPT: Complete Code

Usage

```
complete_code(code = clipr::read_clip(allow_non_interactive = TRUE))
```

Arguments

code	The code to be completed by ChatGPT. If not provided, it will use what's copied on the clipboard.
------	---

Value

A character value with the response generated by ChatGPT.

Examples

```
## Not run:  
cat(complete_code("# A function to square each element of a vector\nsquare_each <- function("))  
  
## End(Not run)
```

create_unit_tests	<i>ChatGPT: Create Unit Tests</i>
-------------------	-----------------------------------

Description

Create 'testthat' test cases for the code.

Usage

```
create_unit_tests(code = clipr::read_clip(allow_non_interactive = TRUE))
```

Arguments

code	The code for which to create unit tests by ChatGPT. If not provided, it will use what's copied on the clipboard.
------	--

Value

A character value with the response generated by ChatGPT.

Examples

```
## Not run:  
cat(create_unit_tests("squared_numbers <- function(numbers) {\n  numbers ^ 2\n}"))  
  
## End(Not run)
```

create_variable_name	<i>ChatGPT: Create Variable Name</i>
----------------------	--------------------------------------

Description

ChatGPT: Create Variable Name

Usage

```
create_variable_name(code = clipr::read_clip(allow_non_interactive = TRUE))
```

Arguments

code	The code for which to give a variable name to its result. If not provided, it will use what's copied on the clipboard.
------	--

Value

A character value with the response generated by ChatGPT.

Examples

```
## Not run:  
cat(create_variable_name("sapply(1:10, function(i) i ** 2)"))  
  
## End(Not run)
```

document_code	<i>ChatGPT: Document Code (in roxygen2 format)</i>
---------------	--

Description

ChatGPT: Document Code (in roxygen2 format)

Usage

```
document_code(code = clipr::read_clip(allow_non_interactive = TRUE))
```

Arguments

code	The code to be documented by ChatGPT. If not provided, it will use what's copied on the clipboard.
------	--

Value

A character value with the response generated by ChatGPT.

Examples

```
## Not run:
cat(document_code("square_numbers <- function(numbers) numbers ** 2"))

## End(Not run)
```

explain_code

ChatGPT: Explain Code

Description

ChatGPT: Explain Code

Usage

```
explain_code(code = clipr::read_clip(allow_non_interactive = TRUE))
```

Arguments

code	The code to be explained by ChatGPT. If not provided, it will use what's copied on the clipboard.
------	---

Value

A character value with the response generated by ChatGPT.

Examples

```
## Not run:
cat(explain_code("for (i in 1:10) {\n  print(i ** 2)\n}"))

## End(Not run)
```

find_issues_in_code

ChatGPT: Find Issues in Code

Description

ChatGPT: Find Issues in Code

Usage

```
find_issues_in_code(code = clipr::read_clip(allow_non_interactive = TRUE))
```

Arguments

code	The code to be analyzed by ChatGPT. If not provided, it will use what's copied on the clipboard.
------	--

Value

A character value with the response generated by ChatGPT.

Examples

```
## Not run:
cat(find_issues_in_code("i <- 0\nwhile (i < 0) {\n  i <- i - 1\n}"))

## End(Not run)
```

gpt_get_completions	<i>Get GPT Completions Endpoint</i>
---------------------	-------------------------------------

Description

Get GPT Completions Endpoint

Usage

```
gpt_get_completions(
  prompt,
  openai_api_key = Sys.getenv("OPENAI_API_KEY"),
  messages = NULL
)
```

Arguments

prompt	The prompt to generate completions for.
openai_api_key	OpenAI's API key.
messages	Available variable, to send the needed messages list to ChatGPT.

optimize_code	<i>ChatGPT: Optimize Code</i>
---------------	-------------------------------

Description

ChatGPT: Optimize Code

Usage

```
optimize_code(code = clipr::read_clip(allow_non_interactive = TRUE))
```

Arguments

code	The code to be optimized by ChatGPT. If not provided, it will use what's copied on the clipboard.
------	---

Value

A character value with the response generated by ChatGPT.

Examples

```
## Not run:
cat(optimize_code("i <- 10\nwhile (i > 0) {\n  i <- i - 1\n  print(i)\n}"))

## End(Not run)
```

parse_response	<i>Parse OpenAI API Response</i>
----------------	----------------------------------

Description

Takes the raw response from the OpenAI API and extracts the text content from it.

Usage

```
parse_response(raw_responses)
```

Arguments

raw_responses	The raw response object returned by the OpenAI API.
---------------	---

Value

Returns a character vector containing the text content of the response.

refactor_code	<i>ChatGPT: Refactor Code</i>
---------------	-------------------------------

Description

ChatGPT: Refactor Code

Usage

```
refactor_code(code = clipr::read_clip(allow_non_interactive = TRUE))
```

Arguments

code	The code to be refactored by ChatGPT. If not provided, it will use what's copied on the clipboard.
------	--

Value

A character value with the response generated by ChatGPT.

Examples

```
## Not run:  
cat(refactor_code("i <- 10\nwhile (i > 0) {\n  i <- i - 1\n  print(i)\n}"))  
  
## End(Not run)
```

reset_chat_session	<i>Reset Chat Session</i>
--------------------	---------------------------

Description

This function is intended to be used with 'ask_chatgpt'. If we are using 'ask_chatgpt' to chat with ChatGPT, and we want to start a new conversation, we must call 'reset_chat_session'.

Usage

```
reset_chat_session(system_role = "You are a helpful assistant.")
```

Arguments

system_role	ChatGPT's role as an AI assistant.
-------------	------------------------------------

run_addin	<i>Run a ChatGPT RStudio Addin</i>
-----------	------------------------------------

Description

Run a ChatGPT RStudio Addin

Usage

```
run_addin(addin_name)
```

Arguments

addin_name	The name of the adding to execute.
------------	------------------------------------

run_addin_ask_chatgpt	<i>Ask ChatGPT</i>
-----------------------	--------------------

Description

Opens an interactive chat session with ChatGPT

Usage

```
run_addin_ask_chatgpt()
```

Index

ask_chatgpt, [2](#)

chatgpt (chatgpt-package), [2](#)
chatgpt-package, [2](#)
comment_code, [3](#)
complete_code, [3](#)
create_unit_tests, [4](#)
create_variable_name, [5](#)

document_code, [5](#)

explain_code, [6](#)

find_issues_in_code, [6](#)

gpt_get_completions, [7](#)

optimize_code, [8](#)

parse_response, [8](#)

refactor_code, [9](#)
reset_chat_session, [9](#)
run_addin, [10](#)
run_addin_ask_chatgpt, [10](#)