

Package: air (via r-universe)

August 22, 2024

Type Package

Title AI Assistant to Write and Understand R Code

Version 0.2.2

Description An R console utility that lets you ask R related questions to the 'OpenAI' large language model. It can answer 'how-to()' questions by providing code, and 'whatis()' questions by explaining what given code does. You must provision your own key for the 'OpenAI' API
<<https://platform.openai.com/docs/api-reference>>.

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Encoding UTF-8

LazyData true

Imports httr, keyring, rjson

Suggests testthat (>= 3.0.0), vcr (>= 0.6.0)

Config/testthat/edition 3

RoxygenNote 7.2.3

URL <https://github.com/soumyaray/air>

BugReports <https://github.com/soumyaray/air/issues>

Repository <https://soumyaray.r-universe.dev>

RemoteUrl <https://github.com/soumyaray/air>

RemoteRef HEAD

RemoteSha 6cef73a62e04281c945e7e5e2536bba61b336005

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```
delete_keyring_credentials
```

Deletes your securely stored OpenAI API key and preferred model from your OS keyring.

Description

Deletes your securely stored OpenAI API key and preferred model from your OS keyring.

Usage

```
delete_keyring_credentials()
```

Value

result list of success or failure class with:

status	A character string of operation status.
value	A character string of descriptive message of status.

Examples

```
# CAREFUL: Deletes OpenAI API key and preferred model from your OS keyring
## Not run:
delete_keyring_credentials()

## End(Not run)
```

```
howto
```

Ask OpenAI to write R code for a problem. The answer is written to console and returned as a string.

Description

Ask OpenAI to write R code for a problem. The answer is written to console and returned as a string.

Usage

```
howto(do, call_api = call_openai)
```

Arguments

do	Character string of what you want to do
call_api	Optional function to call another API

Value

Invisible character string of R code

Examples

```
# You must provision an OpenAI API key before using this function.
## Not run:
howto("read a csv file")
howto("get last element of a vector")

## End(Not run)
```

set_key

Securely stores your your OpenAI API key to your OS keyring.

Description

Securely stores your your OpenAI API key to your OS keyring.

Usage

```
set_key(key = NULL)
```

Arguments

key Optional string of your OpenAI API key; if not provided, a popup will ask you to enter it (safer).

Value

No return value; only side-effect and message printed to console

Examples

```
# CAREFUL: Changes your OpenAI API key in your OS keyring
## Not run:
set_key("sk-my-api-key") # sets the key directly (will show in .Rhistory)
set_key()                # opens a system popup for secure entry

## End(Not run)
```

set_model	<i>Securely stores your your OpenAI API key to your OS keyring.</i>
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Description

Securely stores your your OpenAI API key to your OS keyring.

Usage

```
set_model(model = "gpt-4")
```

Arguments

model	String of your preferred model; defaults to 'gpt-4'.
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Value

No return value; only side-effect and message printed to console

Examples

```
# CAREFUL: Changes your OpenAI API model in your OS keyring
## Not run:
set_model("gpt-4-1106-preview")
set_model() # use default

## End(Not run)
```

whatis	<i>Ask OpenAI to explain what given R code does. The answer is written to console and returned as a string.</i>
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Description

Ask OpenAI to explain what given R code does. The answer is written to console and returned as a string.

Usage

```
whatis(this, call_api = call_openai)
```

Arguments

this	Character string of code to be explained
call_api	Optional function to call another API

Value

Invisible character string of explanation

Examples

```
# You must provision an OpenAI API key before using this function.  
## Not run:  
whatis("paste0(vector1, vector2)")  
whatis("length(x) %% 2 == 1 ? x[(length(x) + 1) / 2] : NA")  
  
## End(Not run)
```

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