

Package ‘air’

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Type Package

Title AI Assistant to Write and Understand R Code

Version 0.2.3

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 what-is questions by explaining what given code does. You must provision your own key for the 'OpenAI' API
<<https://platform.openai.com/docs/api-reference>>.

Depends R (>= 4.1.0)

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Encoding UTF-8

Imports httr, keyring, result, rjson

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

Config/testthat/edition 3

RoxygenNote 7.3.2

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

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

NeedsCompilation no

Author Davis Vaughan [aut, cre],
Soumya Ray [aut]

Maintainer Davis Vaughan <davis@posit.co>

Repository CRAN

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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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