Package 'simfinapi'

July 23, 2025

```
Type Package
Title Accessing 'SimFin' Data
Version 1.0.0
Description Through simfinapi, you can intuitively access the 'SimFin'
      Web-API (<a href="https://www.simfin.com/">https://www.simfin.com/">https://www.simfin.com/</a>) to make 'SimFin' data easily
      available in R. To obtain an 'SimFin' API key (and thus to use this
      package), you need to register at <a href="https://app.simfin.com/login">https://app.simfin.com/login</a>.
License GPL-3
URL https://github.com/matthiasgomolka/simfinapi
BugReports https://github.com/matthiasgomolka/simfinapi/issues
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```

param_doc

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param_doc

Parameter documentation

Description

Parameter documentation

Arguments

api_key	character Your 'SimFin' API key. It's recommended to set the API key globally using sfa_set_api_key.
cache_dir	character Your cache directory. It's recommended to set the cache directory globally using sfa_set_cache_dir.
ticker	integer Ticker of the companies of interest.
id	integer 'SimFin' IDs of the companies of interest. Any id will be internally translated to the respective ticker. This reduces the number of queries in case you query the same company via ticker <i>and</i> id.
asreported	logical If TRUE, retrieves the as-reported (not restated) data.
ttm	logical If TRUE, retrieves trailing twelve month periods.
start	Date Filter for the report dates (reserved for SimFin+ users). With this filter you can filter the statements by the date on which the reported period ended ('Report Date'). By specifying a value here, only statements will be retrieved with report dates ending AFTER the specified date.
end	Date Filter for the report dates (reserved for SimFin+ users). With this filter you can filter the statements by the date on which the reported period ended ('Report Date'). By specifying a value here, only statements will be retrieved with report dates ending BEFORE the specified date.
period	character Filter for periods. As a non-SimFin+ user, you have to provide exactly one period. As SimFin+ user, this filter can be omitted to retrieve all statements available for the company.
	'q1': First fiscal quarter.'q2': Second fiscal quarter.

- 'q3': Third fiscal quarter.
- 'q4': Fourth fiscal quarter.
- 'fy': Full fiscal year.
- 'h1': First 6 months of fiscal year.
- 'h2': Last 6 months of fiscal year.
- '9m': First nine months of fiscal year.
- '6m': Any fiscal 6 month period (first + second half years; reserved for SimFin+ users).
- 'quarters': All quarters (q1 + q2 + q3 + q4; reserved for SimFin+ users).

fyear

integer Filter for fiscal year. As a non-SimFin+ user, you have to provide exactly one fiscal year. As SimFin+ user, this filter can be omitted to retrieve all data available for the company.

ratios

logical With TRUE, you can display some price related ratios along with the share price data (reserved for SimFin+ users). The ratios that will be displayed are:

- Market-Cap
- Price to Earnings Ratio (quarterly)
- Price to Earnings Ratio (ttm)
- Price to Sales Ratio (quarterly)
- Price to Sales Ratio (ttm)
- Price to Book Value (ttm)
- Price to Free Cash Flow (quarterly)
- Price to Free Cash Flow (ttm)
- Enterprise Value (ttm)
- EV/EBITDA (ttm)
- EV/Sales (ttm)
- EV/FCF (ttm)
- Book to Market Value (ttm)
- Operating Income/EV (ttm).

Parallel processing

This function supports parallel processing via future.apply. If your machine has several cores (most have), you can make the API calls in parallel. To do so, define a future::plan() before calling the function.

sfa_load_common_shares_outstanding

Common Shares Outstanding

Description

Get the number of common shares outstanding for a company.

sfa_load_companies

Usage

```
sfa_load_common_shares_outstanding(
  id = NULL,
  ticker = NULL,
  start = NULL,
  end = NULL,
  api_key = getOption("sfa_api_key"),
  cache_dir = getOption("sfa_cache_dir")
)
```

Arguments

id	integer 'SimFin' IDs of the companies of interest. Any id will be internally translated to the respective ticker. This reduces the number of queries in case you query the same company via ticker <i>and</i> id.
ticker	integer Ticker of the companies of interest.
start	Date Filter for the report dates (reserved for SimFin+ users). With this filter you can filter the statements by the date on which the reported period ended ('Report Date'). By specifying a value here, only statements will be retrieved with report dates ending AFTER the specified date.
end	Date Filter for the report dates (reserved for SimFin+ users). With this filter you can filter the statements by the date on which the reported period ended ('Report Date'). By specifying a value here, only statements will be retrieved with report dates ending BEFORE the specified date.
api_key	character Your 'SimFin' API key. It's recommended to set the API key globally using sfa_set_api_key.
cache_dir	character Your cache directory. It's recommended to set the cache directory globally using sfa_set_cache_dir.

Value

data.table containing the common shares outstanding.

Description

Get a list of all companies in the SimFin database. See https://simfin.readme.io/reference/list-1 and https://simfin.readme.io/reference/general-1 for more information.

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Usage

```
sfa_load_companies(
   api_key = getOption("sfa_api_key"),
   cache_dir = getOption("sfa_cache_dir"),
   details = FALSE
)
```

Arguments

api_key character Your 'SimFin' API key. It's recommended to set the API key globally

using sfa_set_api_key.

cache_dir character Your cache directory. It's recommended to set the cache directory

globally using sfa_set_cache_dir.

details logical(1): If TRUE, return a more detailed data.table with additional columns.

Default: FALSE.

Value

data.table::data.table() containing basic company information.

```
sfa_load_shareprices Load share prices
```

Description

Retrieve share price data and ratios.

Usage

```
sfa_load_shareprices(
    ticker = NULL,
    id = NULL,
    start = NULL,
    end = NULL,
    ratios = FALSE,
    asreported = FALSE,
    api_key = getOption("sfa_api_key"),
    cache_dir = getOption("sfa_cache_dir")
)
```

Arguments

ticker integer Ticker of the companies of interest.

id integer 'SimFin' IDs of the companies of interest. Any id will be internally

translated to the respective ticker. This reduces the number of queries in case

you query the same company via ticker and id.

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start	Date Filter for the report dates (reserved for SimFin+ users). With this filter you can filter the statements by the date on which the reported period ended ('Report Date'). By specifying a value here, only statements will be retrieved with report dates ending AFTER the specified date.
end	Date Filter for the report dates (reserved for SimFin+ users). With this filter you can filter the statements by the date on which the reported period ended ('Report Date'). By specifying a value here, only statements will be retrieved with report dates ending BEFORE the specified date.
ratios	logical If TRUE, additional ratios and derived metrics are included.
asreported	logical If TRUE, retrieves the as-reported (not restated) data.
api_key	character Your 'SimFin' API key. It's recommended to set the API key globally using sfa_set_api_key.
cache_dir	character Your cache directory. It's recommended to set the cache directory globally using sfa_set_cache_dir.

Value

data.table with share price data.

Description

Fundamentals and derived figures can be retrieved here.

Usage

```
sfa_load_statements(
  ticker = NULL,
  id = NULL,
  statements,
  period = "fy",
  fyear = NULL,
  start = NULL,
  end = NULL,
  ttm = FALSE,
  asreported = FALSE,
  api_key = getOption("sfa_api_key"),
  cache_dir = getOption("sfa_cache_dir")
)
```

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Arguments

period

ticker integer Ticker of the companies of interest.

id integer 'SimFin' IDs of the companies of interest. Any id will be internally

translated to the respective ticker. This reduces the number of queries in case

you query the same company via ticker and id.

statements character vector of statements, available values: pl (Profit & Loss), bs (Balance

Sheet), cf (Cash Flow), derived (Derived Ratios and Indicators).

character Filter for periods. As a non-SimFin+ user, you have to provide exactly one period. As SimFin+ user, this filter can be omitted to retrieve all statements

available for the company.

• 'q1': First fiscal quarter.

• 'q2': Second fiscal quarter.

• 'q3': Third fiscal quarter.

• 'q4': Fourth fiscal quarter.

• 'fy': Full fiscal year.

• 'h1': First 6 months of fiscal year.

• 'h2': Last 6 months of fiscal year.

• '9m': First nine months of fiscal year.

 '6m': Any fiscal 6 month period (first + second half years; reserved for SimFin+ users).

• 'quarters': All quarters (q1 + q2 + q3 + q4; reserved for SimFin+ users).

fyear integer Filter for fiscal year. As a non-SimFin+ user, you have to provide exactly

one fiscal year. As SimFin+ user, this filter can be omitted to retrieve all data

available for the company.

start Date Filter for the report dates (reserved for SimFin+ users). With this filter you

can filter the statements by the date on which the reported period ended ('Report Date'). By specifying a value here, only statements will be retrieved with report

dates ending AFTER the specified date.

end Date Filter for the report dates (reserved for SimFin+ users). With this filter you

can filter the statements by the date on which the reported period ended ('Report Date'). By specifying a value here, only statements will be retrieved with report

dates ending BEFORE the specified date.

ttm logical If TRUE, retrieves trailing twelve month periods.

asreported logical If TRUE, retrieves the as-reported (not restated) data.

api_key character Your 'SimFin' API key. It's recommended to set the API key globally

using sfa_set_api_key.

cache_dir character Your cache directory. It's recommended to set the cache directory

globally using sfa_set_cache_dir.

Value

data.table containing the statement(s) data.

Parallel processing

This function supports parallel processing via future.apply. If your machine has several cores (most have), you can make the API calls in parallel. To do so, define a future::plan() before calling the function.

```
sfa_load_weighted_shares_outstanding

Weighted Shares Outstanding
```

Description

Get the number of weighted shares outstanding for a company.

Usage

```
sfa_load_weighted_shares_outstanding(
  id = NULL,
  ticker = NULL,
  fyear = NULL,
  period = NULL,
  start = NULL,
  end = NULL,
  ttm = NULL,
  ttm = NULL,
  api_key = getOption("sfa_api_key"),
  cache_dir = getOption("sfa_cache_dir")
)
```

Arguments

id

integer 'SimFin' IDs of the companies of interest. Any id will be internally translated to the respective ticker. This reduces the number of queries in case you query the same company via ticker *and* id.

ticker

integer Ticker of the companies of interest.

fyear

integer Filter for fiscal year. As a non-SimFin+ user, you have to provide exactly one fiscal year. As SimFin+ user, this filter can be omitted to retrieve all data available for the company.

period

character Filter for periods. As a non-SimFin+ user, you have to provide exactly one period. As SimFin+ user, this filter can be omitted to retrieve all statements available for the company.

- 'q1': First fiscal quarter.
- 'q2': Second fiscal quarter.
- 'q3': Third fiscal quarter.
- 'q4': Fourth fiscal quarter.
- 'fy': Full fiscal year.

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• 'h1': First 6 months of fiscal year.

• 'h2': Last 6 months of fiscal year.

• '9m': First nine months of fiscal year.

• '6m': Any fiscal 6 month period (first + second half years; reserved for SimFin+ users).

• 'quarters': All quarters (q1 + q2 + q3 + q4; reserved for SimFin+ users).

start Date Filter for the report dates (reserved for SimFin+ users). With this filter you

can filter the statements by the date on which the reported period ended ('Report Date'). By specifying a value here, only statements will be retrieved with report

dates ending AFTER the specified date.

end Date Filter for the report dates (reserved for SimFin+ users). With this filter you

can filter the statements by the date on which the reported period ended ('Report Date'). By specifying a value here, only statements will be retrieved with report

dates ending BEFORE the specified date.

ttm logical If TRUE, retrieves trailing twelve month periods.

api_key character Your 'SimFin' API key. It's recommended to set the API key globally

using sfa_set_api_key.

cache_dir character Your cache directory. It's recommended to set the cache directory

globally using sfa_set_cache_dir.

Value

data.table containing the common shares outstanding.

Description

It is highly recommended to set the API key globally as it makes specifying the api_key argument of other sfa_* functions obsolete.

There are two ways to set your API key globally:

- 1. Provide the API key directly as a string (api_key = 'YourApiKey').
- Create a system-wide environment variable containing you API key and refer to that (env_var = 'YourEnvVar'). How to create a system-wide environment variable depends on your operating system.

The second option is recommended because your R scripts won't contain your API key and it is safe to keep your scripts in an open repository like GitHub.

Usage

```
sfa_set_api_key(api_key, env_var)
```

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Arguments

api_key character You API key. Ignored if you specify env_var as well.

env_var character Name of an environment variable holding you API key, e.g. SIMFIN_API_KEY.

Leave empty (NULL, default) if you want to set your API key directly.

Value

```
character The API key (invisibly).
```

Examples

```
## Not run:
# set API key directly
sfa_set_api_key(api_key = 'YourApiKey')

# set API key via environment variable
# (this assumes you already created an environment variable called
# 'SIMFIN_API_KEY' which contains you API key)
sfa_set_api_key(env_var = 'SIMFIN_API_KEY')

## End(Not run)
```

sfa_set_cache_dir

Set cache directory globally

Description

It is highly recommended to set the cache directory globally. This has two advantages:

- 1. Results from the 'SimFin' API calls are cached over the end of the session. This is especially interesting if you don't have a SimFin+ account and the number of API calls is limited to 2,000 per day.
- 2. It makes specifying the cache_dir argument of other sfa_* functions obsolete.

Usage

```
sfa_set_cache_dir(path, create = FALSE)
```

Arguments

path character The directory where you want to cache the responses from the 'SimFin'

API calls.

create logical Set TRUE if you want to create path automatically if it does not yet exist.

Value

character The cache directory (invisibly).

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