Package 'fmpcloudr'

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Title R Access to the 'FMP Cloud' and 'Financial Modeling Prep' API

Version 0.1.5

Maintainer Anthony Balentine <exploringfinance1@gmail.com>

URL https://exploringfinance.github.io/fmpcloudr/

BugReports https://github.com/exploringfinance/fmpcloudr/issues

Description Use R to access to the 'FMP Cloud' API <https://fmpcloud.io/> and
'Financial Modeling Prep' API <https://financialmodelingprep.com/developer/docs/>.
Data available includes stock prices, market indexes, company fundamentals,
13F holdings data, and much more. A valid API token must be set to enable
functions.

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Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

Imports jsonlite, httr, dplyr, magrittr, tidyr, lubridate

Suggests testthat

NeedsCompilation no

Author Anthony Balentine [aut, cre]

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R topics documented:

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fmpc_13f_cik_list   *List of all 13F ciks*

Description

Ciks are unique IDs for each company that files a 13F. This function returns a list of each unique
cik that FMP Cloud has available.

Usage

```
fmpc_13f_cik_list()
```

Value

cik list

Examples

```
## Not run:
# Function can work without a valid API token
fmpc_set_token() # defaults to 'demo'
fmpc_13f_cik_list()

## End(Not run)
```

---

fmpc_13f_cik_name   *Find name of company by cik*

Description

Ciks are unique IDs for each company that files a 13F. This function returns the name of the company associated with one or more ciks

Usage

```
fmpc_13f_cik_name(cik = "0001067983")
```

Arguments

cik   a valid cik

Value

company name associated with cik

Examples

```
## Not run:
# Function can work without a valid API token
fmpc_set_token() # defaults to 'demo'
fmpc_13f_cik_name(cik = '0001067983')

## End(Not run)
```

---

fmpc_13f_cik_search   *Search for 13F ciks*

Description

Ciks are unique IDs for each company that files a 13F. This function allows search queries to identify and search for specific companies.

Usage

```
fmpc_13f_cik_search(query = "Berkshire")
```

Arguments

query   a search string to find asset managers by name

Value

cik list

Examples

```
## Not run:

# Function can work without a valid API token
fmpc_set_token() # defaults to 'demo'
fmpc_13f_cik_search('Berkshire')

# Must set a valid API token
fmpc_set_token('FMPAPIKEY')
fmpc_13f_cik_search('Morgan')


## End(Not run)
```

---

fmpc_13f_data   *13F data for a set of ciks and dates*

Description

13F shows the holdings of an asset manager as of a specific date

Usage

```
fmpc_13f_data(cik = "0001067983", date = "2019-12-31")
```

Arguments

cik	one or more valid ciks from `fmpc_13f_cik_list`
date	one or more quarter end dates (yyyy-03-31, yyyy-06-30, yyyy-09-30, yyyy-12-31)

Value

13F holdings

Examples

```
## Not run:

# Berkshire can be run using the demo
fmpc_set_token()
fmpc_13f_data('0001067983', '2020-03-31')

# Must set a valid API token
fmpc_set_token('FMPAPIKEY')
goldmanCik = fmpc_13f_cik_search('golman')
fmpc_13f_data(cik = goldmanCik$cik, date = c('2020-03-31','2020-06-30'))


## End(Not run)
```

---

fmpc_analyst_outlook   *Pull analyst outlook for one or more securities*

Description

Analyst details for one or more securities includes earnings estimates, earnings surprises, stock grade, analyst recommendations, and company press releases

Usage

```
fmpc_analyst_outlook(
  symbols = c("AAPL"),
  outlook = c("surprise", "grade", "estimate", "recommend", "press"),
  limit = 100
)
```

Arguments

symbols	one or more symbols from the FMP available list that can be found using `fmpc_symbols_available`. A valid API token must be set in order to enable functionality. See documentation for setting a token under `fmpc_set_token`.
outlook	can be one of: 'surprise' for earnings surprise, 'grade' for stock grade', 'estimateAnnl' for analysts annual estimates, 'estimateQtr' for analysts quarterly estimate, 'recommend' for analyst recommendations, and 'press' for company press releases
limit	limit results for each ticker

Value

data frame of ratings data

Examples

```
## Not run:

# Demo can pull AAPL
fmpc_set_token()
fmpc_analyst_outlook('AAPL')

# For multiple symbols, set a valid API Token
fmpc_set_token('FMPAPIKEY')
fmpc_analyst_outlook(c('AAPL','MSFT','SPY'))


## End(Not run)
```

---

fmpc_calendar_events   *Dates related to Economic data, IPOs, dividends, earnings, and splits*

Description

Calendar dates related to Economic data, IPOs, dividends, earnings, and splits

Usage

```
fmpc_calendar_events(
  calendar = "economic",
  startDate = Sys.Date() - 180,
  endDate = Sys.Date()
)
```

Arguments

calendar	indicate which calendar to view. Options include 'ipo', 'stock_split', 'stock_dividend', 'earning',or 'economic'
startDate	filter start date in yyyy-mm-dd format.
endDate	filter end date in yyyy-mm-dd format.

Value

calendar events

Examples

```
## Not run:

# Must set a valid API token
fmpc_set_token('FMPAPIKEY')
fmpc_calendar_events('stock_split')
fmpc_calendar_events('economic')

## End(Not run)
```

---

fmpc_cots_data   *Get COTS data*

Description

Provides raw data from Commitment of Traders report

Usage

```
fmpc_cots_data(
  cots_sym = "all",
  startDate = Sys.Date() - 30,
  endDate = Sys.Date()
)
```

Arguments

cots_sym	COTS symbol that can be found in [fmpc_cots_symbols](). Default is 'all'. Date parameters are only valid with 'all'. Otherwise the full history is pulled.
startDate	filter start date in yyyy-mm-dd format.
endDate	filter end date in yyyy-mm-dd format.

Value

a data frame of cots data

Examples

```
## Not run:

# Must set a valid API token
fmpc_set_token('FMPAPIKEY')
fmpc_cots_data()


## End(Not run)
```

---

fmpc_cots_symbols   *Get list of COTS symbols*

Description

Provides a list of all the symbols available on the Commitment of Traders data pull

Usage

```
fmpc_cots_symbols()
```

Value

a data frame of cots symbols with descriptions

Examples

```
## Not run:

# Must set a valid API token
fmpc_set_token('FMPAPIKEY')
fmpc_cots_symbols()


## End(Not run)
```

---

fmpc_cusip_search *Use a cusip to search a company and ticker*

Description

Use a cusip to search a company and ticker

Usage

```
fmpc_cusip_search(cusip = "000360206")
```

Arguments

cusip   a valid cusip

Value

a data frame of symbol, cusip, and company

Examples

```
## Not run:
# Demo offers AAON as an example
fmpc_set_token()
fmpc_cusip_search('000360206')

## End(Not run)
```

---

fmpc_earning_call_transcript
Full transcript of earnings call

Description

Full transcript of earnings call

Usage

```
fmpc_earning_call_transcript(symbols = c("AAPL"), quarter = 2, year = 2020)
```

Arguments

symbols   one or more symbols from the FMP available list that can be found using `fmpc_symbols_available`. A valid API token must be set in order to enable functionality. See documentation for setting a token under `fmpc_set_token`.

quarter   earnings year quarter

year   earnings call year

Value

earnings call transcript in data frame

Examples

```
## Not run:

# Demo can pull AAPL
fmpc_set_token()
fmpc_earning_call_transcript('AAPL',quarter = 1, year = 2019)

# For multiple symbols, set a valid API Token
fmpc_set_token('FMPAPIKEY')
fmpc_earning_call_transcript(c('AAPL','MSFT','SPY'))


## End(Not run)
```

---

fmpc_economic_events   *List economic events that can be searched*

Description

Shows the economic events that can be fed into `fmpc_economic_results`

Usage

```
fmpc_economic_events()
```

Value

economic metrics

Examples

```
## Not run:
# Function can work without a valid API token
 fmpc_set_token('FMPAPIKEY')
fmpc_economic_events()

## End(Not run)
```

---

fmpc_economic_results   *Economic results*

Description

Shows the results of the economic events from fmpc_economic_events

Usage

```
fmpc_economic_results(
  event = "adpEmploymentChange",
  country = "US",
  startDate = Sys.Date() - 180,
  endDate = Sys.Date()
)
```

Arguments

event	an economic event from fmpc_economic_events
country	a country from fmpc_economic_events
startDate	filter start date in yyyy-mm-dd format.
endDate	filter end date in yyyy-mm-dd format.

Value

calendar events

Examples

```
## Not run:

# Must set a valid API token
fmpc_set_token('FMPAPIKEY')
Events = fmpc_economic_events()
fmpc_economic_results()

# Italy three month interbank rate
fmpc_economic_results(event = Events[100,1], country = Events[100,2])
```

```
# Consumer credit - RS
fmpc_economic_results(event = Events[1000,1], country = Events[1000,2])



## End(Not run)
```

---

fmpc_financial_bs_is_cf

Get financial data for one or more tickers

Description

Pull balance sheet, income statement, or cash flow statement for one or more tickers. Can elect to
see data quarterly or annually and view growth

Usage

```
fmpc_financial_bs_is_cf(
  symbols = "AAPL",
  statement = c("income", "balance", "cashflow"),
  quarterly = TRUE,
  growth = FALSE,
  SECReported = FALSE,
  limit = 100
)
```

Arguments

symbols	one or more publicly traded companies domestic or international
statement	indicate the statement to view. Can be 'income', 'balance', or 'cashflow'
quarterly	TRUE/FALSE whether the statement should be shown quarterly or annually
growth	TRUE/FALSE whether the growth statement should be shown
SECReported	TRUE/FALSE whether to display the information as it was reported to the SEC. Only one symbol can be passed if this is set to TRUE. Growth must also be set to FALSE. International stocks should not be passed.
limit	limit the result for each ticker

Value

returns balance sheet, income statement, or cash flow

Examples

```
## Not run:

# Setting API key to 'demo' allows for AAPL only
fmpc_set_token()
fmpc_financial_bs_is_cf()
fmpc_financial_bs_is_cf('AAPL',statement = 'balance', quarterly = FALSE,
                        growth = FALSE, SECReported = TRUE, limit = 10)


# Must set a valid API token
fmpc_set_token('FMPAPIKEY')
fmpc_financial_bs_is_cf(c('AAPL','MSFT','TSLA'))

 symbols = c('AAPL','MSFT','BAC')
 Bal = fmpc_financial_bs_is_cf(symbols,statement = 'balance')
 BalG = fmpc_financial_bs_is_cf(symbols,statement = 'balance', growth = FALSE)
 IS = fmpc_financial_bs_is_cf(symbols,statement = 'income')
 ISa = fmpc_financial_bs_is_cf(symbols,statement = 'income', quarterly = FALSE)
 cf = fmpc_financial_bs_is_cf(symbols,statement = 'cashflow')
 cfsec = fmpc_financial_bs_is_cf(symbols,statement = 'cashflow', SECReported  = TRUE)

# International tickers work
fmpc_financial_bs_is_cf('RY.TO',statement = 'balance', quarterly = TRUE,
                        growth = TRUE, SECReported = FALSE, limit = 10)


## End(Not run)
```

---

fmpc_financial_dcfv   *Discounted Cash Flow Value*

Description

Pull Discounted Cash Flow Value for one or more securities

Usage

```
fmpc_financial_dcfv(
  symbols = c("AAPL"),
  period = c("current", "daily", "quarterly", "annually"),
  limit = 100
)
```

Arguments

symbols	one or more publicly traded companies domestic or international
period	period for discounted cash flow - current, daily, quarterly, annually
limit	limit the result for each ticker

Value

data frame of discounted cash flow

Examples

```
## Not run:

# Demo can pull AAPL
fmpc_set_token()
fmpc_financial_dcfv('AAPL')

# For multiple symbols, set a valid API Token
fmpc_set_token('FMPAPIKEY')
fmpc_financial_dcfv(c('AAPL','MSFT','SPY'), period = 'quarterly')


## End(Not run)
```

---

fmpc_financial_metrics

Get financial metrics for one or more tickers

Description

Pull finance ratios, enterprise value, key metrics, and financial growth

Usage

```
fmpc_financial_metrics(
  symbols = "AAPL",
  metric = c("ratios", "key", "ev", "growth"),
  quarterly = TRUE,
  trailingTwelve = FALSE,
  limit = 100
)
```

Arguments

symbols	one or more publicly traded companies domestic or international
metric	indicate the statement to view. Can be 'income', 'balance', or 'cashflow'
quarterly	TRUE/FALSE whether the statement should be shown quarterly or annually
trailingTwelve	TRUE/FALSE whether finance ratios should show as trailing 12 months. Only available for finance ratios.
limit	limit the result for each ticker

Value

data frame of financial metrics

Examples

```
## Not run:

 # Setting API key to 'demo' allows for AAPL only
fmpc_set_token()
fmpc_financial_metrics()
fmpc_financial_metrics('AAPL',metric = 'ratios', quarterly = FALSE,
                    trailingTwelve = FALSE, limit = 10)

# Must set a valid API token
fmpc_set_token('FMPAPIKEY')
fmpc_financial_metrics(c('AAPL','MSFT','TSLA'))

# International tickers work
fmpc_financial_metrics('RY.TO',metric = 'key', quarterly = TRUE,
                    trailingTwelve = TRUE, limit = 10)



## End(Not run)
```

---

fmpc_financial_zip	*Get a list of Financial ZIP file locations*

Description

Get location to download ZIP file for all symbols. This function will not download the file. Use a 'wget' command or enter the link into a browser.

Usage

```
fmpc_financial_zip()
```

Value

a data frame of symbols with zip file location

Examples

```
## Not run:

# Must set a valid API token
fmpc_set_token('FMPAPIKEY')
fmpc_financial_zip()


## End(Not run)
```

---

fmpc_get_url   *GET Request for specific URL*

Description

FMP helper function that takes a URL, appends the API Token, makes a GET call, and parses the data

Usage

```
fmpc_get_url(URL, api_version = "3")
```

Arguments

URL	The URL to pull specific data from FMP Cloud. Search parameters should be included, but not the API key. Start with the URL after 'api/v3'
api_version	The API version of the URL. FMP is constantly updating their API and new URLs may be under anew version

Details

This function is a helper in most other fmpcloudr functions, so does not need to be used by the end user. That being said, FMP is always adding data with new URLs. If this package does not have a URL available on FMP, this function can be used to simplify the GET call. Pass the URL appearing after 'api/v3' with the search parameters entered, but do not include the API token

Value

list output of data set

Examples

```
## Not run:
# Set the FMP Token. The DEMO token has VERY limited access.
fmpc_set_token('demo')

# Pull price history for Apple
AppleHist = fmpc_get_url('historical-price-full/AAPL?serietype=line&')

## End(Not run)
```

---

fmpc_held_by_mfs   *List of mutual funds that hold a specified symbol*

Description

Shows mutual funds holding a list of symbols provided. Not currently available for ETFs

Usage

```
fmpc_held_by_mfs(symbols = c("AAPL"))
```

Arguments

symbols   one or more symbols from the FMP available list that can be found using `fmpc_symbols_by_market`.
                 A valid API token must be set in order to enable functionality. See documenta-
                 tion for setting a token under `fmpc_set_token`.

Details

This differs from `fmpc_holdings_etf` which allows a search by ETF to see detail on what the ETF
is holding.

Value

data frame of mutual funds holding specified security

Examples

```
## Not run:

# Demo can pull AAPL
fmpc_set_token()
fmpc_held_by_mfs('AAPL')

# For multiple symbols, set a valid API Token
fmpc_set_token('FMPAPIKEY')
```

```
fmpc_held_by_mfs(c('AAPL','MSFT','GOOGL'))


## End(Not run)
```

---

fmpc_holdings_etf　　　　　*Pull ETF holdings data*

Description

Shows holdings data for one or more ETFs provided. Either individual holdings, sector weightings, or country weightings.

Usage

```
fmpc_holdings_etf(etfs = c("SPY"), holding = c("symbol", "sector", "country"))
```

Arguments

etfs	one or more valid ETFs.
holding	holding type can be other individual symbols, the sector breakdown, or the country breakdown. Valid inputs include 'symbol', 'sector', 'country'

Details

This differs from fmpc_held_by_mfs which allows a search by symbol to see the mutual funds holding the specified symbol(s). This function searches by ETF and shows the holding of the ETF

Value

data frame of mutual fund holdings

Examples

```
## Not run:

 # For multiple symbols, set a valid API Token
 fmpc_set_token('FMPAPIKEY')
 fmpc_holdings_etf(c('VOO','SPY'), holding = 'symbol')
 fmpc_holdings_etf(c('VOO','SPY'), holding = 'country')
 fmpc_holdings_etf(c('VOO','SPY'), holding = 'sector')


## End(Not run)
```

---

fmpc_market_hours   *Current day market hours and holidays*

Description

Pulls back current day market hours and holidays for 2019 going forward

Usage

```
fmpc_market_hours()
```

Value

an object of class list containing two data frames for market hours and holidays

Examples

```
## Not run:

# Must set a valid API token
fmpc_set_token('FMPAPIKEY')
fmpc_market_hours()


## End(Not run)
```

---

fmpc_price_batch_eod   *Pull all EOD pricing data for a specific date*

Description

Returns 10,000 or more symbols for a specific date. This generates one API call for each date. Dates must be entered one at a time.

Usage

```
fmpc_price_batch_eod(priceDate = Sys.Date() - 1)
```

Arguments

priceDate   price date to pull all securities. Use format yyyy-mm-dd

Value

data frame of a single days prices

Examples

```
## Not run:

fmpc_set_token('FMPAPIKEY')
allSymbs = fmpc_price_batch_eod('2020-06-24')


## End(Not run)
```

---

fmpc_price_current   *Current price*

Description

Last traded price with additional price metrics such as 50D and 200D avg price, volume, shares outstanding, and more. This does NOT include a quote, such as bid/ask detail.

Usage

```
fmpc_price_current(symbols = c("AAPL"))
```

Arguments

symbols   one or more symbols from the FMP available list that can be found using `fmpc_symbols_by_market`.
               A valid API token must be set in order to enable functionality. See documenta-
               tion for setting a token under `fmpc_set_token`.

Value

data frame of current price details

Examples

```
## Not run:

# Setting API key to 'demo' allows for AAPL only
fmpc_set_token()
fmpc_price_current('AAPL')

# For multiple symbols, set a valid API Token
fmpc_set_token('FMPAPIKEY')
fmpc_price_current(c('AAPL', 'MSFT', 'TSLA', 'SPY', 'BTCUSD', 'JPYUSD', '^SP500TR'))


## End(Not run)
```

---

fmpc_price_forex *Get all foreign exchange quotes*

Description

Use a valid API Token to pull all foreign exchange quotes which includes Bid/Ask. Set API token using `fmpc_set_token`.

Usage

```
fmpc_price_forex()
```

Value

a data frame of forex with quotes

Examples

```
## Not run:

# Must set a valid API token
fmpc_set_token('FMPAPIKEY')
fmpc_price_forex()


## End(Not run)
```

---

fmpc_price_full_market

Current Price for an Entire Market

Description

Enter a market to get last traded price with additional price metrics such as 50D and 200D avg price, volume, shares outstanding, etc. This does NOT include a quote, such as bid/ask detail. Each market will return multiple responses, but only one API call as made per market.

Usage

```
fmpc_price_full_market(market = "etf")
```

Arguments

market   Select a market to get current price for all securities: 'etf','commodity','euronext','nyse','amex','tsx','inde
                'nasdaq','crypto','forex'. Select a single market.

Value

data frame of current price

Examples

```
## Not run:

fmpc_set_token('FMPAPIKEY')
fmpc_price_full_market('index')
fmpc_price_full_market('forex')
fmpc_price_full_market() # Default is to 'etf'


## End(Not run)
```

---

fmpc_price_history   *Historical End of Day pricing data for one or more symbols*

Description

End of Day price history includes open, high, low, close, adjClose, volume, vwap, and more. Symbol can include equity, mutual fund, index, currency, crypto, or any other symbol that can be found in `fmpc_symbols_by_market`.

Usage

```
fmpc_price_history(
  symbols = "AAPL",
  startDate = Sys.Date() - 30,
  endDate = Sys.Date()
)
```

Arguments

symbols	one or more symbols from the FMP available list that can be found using `fmpc_symbols_by_market`. A valid API token must be set in order to enable functionality. See documentation for setting a token under `fmpc_set_token`.
startDate	filter start date in yyyy-mm-dd format.
endDate	filter end date in yyyy-mm-dd format.

Value

a data frame of price history

Warning

Each symbol is a separate API call. If the API token has monthly limits, this should be considered before making a bulk request

Examples

```
## Not run:

# Default sets token to 'demo' which allows for AAPL only
fmpc_set_token()
fmpc_price_history('AAPL')

# For multiple symbols, set a valid API Token
# Crypto, equity, currency, and index can all be entered in the same request
fmpc_set_token('FMPAPIKEY')
fmpc_price_history(c('AAPL','MSFT','SPY','^SP500TR','JPYUSD','BTCUSD'))


## End(Not run)
```

---

fmpc_price_history_spldiv

Historical EOD pricing, split, and dividend data for one or more symbols

---

Description

Pulls End of Day prices, splits, and dividends for a list of symbols. Symbol can include equity, mutual fund, index, currency, crypto, or any other symbol that can be found in `fmpc_symbols_by_market`.

Usage

```
fmpc_price_history_spldiv(
  symbols = "AAPL",
  startDate = Sys.Date() - 360,
  endDate = Sys.Date()
)
```

Arguments

symbols   one or more symbols from the FMP available list that can be found using `fmpc_symbols_by_market`.
              A valid API token must be set in order to enable functionality. See documentation for setting a token under `fmpc_set_token`.

startDate   filter start date in yyyy-mm-dd format.

endDate   filter end date in yyyy-mm-dd format.

Details

Uses functions `fmpc_price_history`, `fmpc_security_dividends`, and `fmpc_security_splits` to aggregate split, dividend, and pricing data into a single data frame. Warnings may be generated that split data or dividend data was not returned. Results will still show in this function if price_history data is available.

Value

a data frame of pricing, split, and dividend history

Warning

Each symbol is THREE separate API calls. If the API token has monthly limits, this should be considered before making a bulk request. Large Symbol requests will also take time because of the buffer time between API calls.

Examples

```
## Not run:
# Setting API key to 'demo' allows for AAPL only
fmpc_set_token()
fmpc_price_history_spldiv('AAPL')

# For multiple symbols, set a valid API Token
fmpc_set_token('FMPAPIKEY')
# Index, currency, and crypto will return data even without splits/divs
fmpc_price_history_spldiv(c('AAPL','MSFT','SPY','^SP500TR','JPYUSD','BTCUSD'))


## End(Not run)
```

---

fmpc_price_intraday   *Historical End of Day pricing data for one or more symbols*

Description

Intraday includes open, high, low, close, for each time segment. The amount of history available is based on the freq set. Smaller time intervals frequency will pull back less history. Symbol can include equity, mutual fund, index, currency, crypto, or any other symbol that can be found in fmpc_symbols_by_market. Available history is limited by the increment size.

Usage

```
fmpc_price_intraday(
  symbols = "AAPL",
  startDate = Sys.Date() - 30,
  endDate = Sys.Date(),
  freq = c("1min", "5min", "15min", "30min", "1hour")
)
```

Arguments

symbols	one or more symbols from the FMP available list that can be found using `fmpc_symbols_by_market`. A valid API token must be set in order to enable functionality. See documentation for setting a token under `fmpc_set_token`.
startDate	filter start date in yyyy-mm-dd format.
endDate	filter end date in yyyy-mm-dd format.
freq	the frequency of which to pull intraday prices. Options can be '1min','5min','15min','30min','1hour'

Value

a data frame of intraday prices

Warning

Each symbol is a separate API call. If the API token has monthly limits, this should be considered before making a bulk request

Examples

```
## Not run:

# Setting API key to 'demo' allows for AAPL only
fmpc_set_token()
# Freq of1hour will return about 2 months of data
fmpc_price_intraday('AAPL', freq = '5min')

# For multiple symbols, set a valid API Token
fmpc_set_token('FMPAPIKEY')
fmpc_price_intraday(symbols = c('AAPL','MSFT','SPY','^SP500TR','JPYUSD','BTCUSD'),
                    startDate = '2020-01-01', freq = '1hour')


## End(Not run)
```

---

fmpc_rss_sec *RSS feed of latest submissions to SEC*

Description

RSS feed of latest submissions to SEC that includes 6-k, 10-Q, 13F

Usage

```
fmpc_rss_sec(limit = 100)
```

Arguments

limit   limit output to a specific number of results

Value

a data frame of title, data, link to submission, cik, and submission type

Examples

```
## Not run:
# Demo offers AAON as an example
fmpc_set_token()
fmpc_rss_sec()

## End(Not run)
```

---

fmpc_security_delisted

Delisted companies

Description

Shows companies that have been delisted

Usage

```
fmpc_security_delisted(limit = 100)
```

Arguments

limit   set limit of results returned

Value

data frame of delisted companies

Examples

```
## Not run:

# Must set a valid API token
fmpc_set_token('FMPAPIKEY')
fmpc_security_delisted()


## End(Not run)
```

fmpc_security_dividends

Historical security dividend data

Description

Pulls dividends for a list of securities. Data includes dividend, adjusted dividend, payment date, record date, and declaration date

Usage

```
fmpc_security_dividends(
  symbols = "AAPL",
  startDate = Sys.Date() - 360,
  endDate = Sys.Date()
)
```

Arguments

symbols	one or more symbols from the FMP available list that can be found using `fmpc_symbols_by_market`. A valid API token must be set in order to enable functionality. See documentation for setting a token under `fmpc_set_token`.
startDate	filter start date in yyyy-mm-dd format.
endDate	filter end date in yyyy-mm-dd format.

Value

a data frame of dividend history that includes payment date, record date, and declaration date

Warning

Each symbol is a separate API call. If the API token has monthly limits, this should be considered before making a bulk request

Examples

```
## Not run:

# Setting API key to DEMO allows for AAPL only
fmpc_set_token()
fmpc_security_dividends('AAPL')

# For multiple symbols, set a valid API Token
fmpc_set_token('FMPAPIKEY')
fmpc_security_dividends(c('AAPL','MSFT','SPY'), startDate = '2010-01-01')
```

```
## End(Not run)
```

---

fmpc_security_gla   *Gainers, Losers, and active*

Description

Shows top gainers, bottom losers, and most active for the current trading day

Usage

```
fmpc_security_gla(gla = c("gainers", "losers", "actives"))
```

Arguments

gla   options include 'gainers','losers', and 'active'

Value

securities with details for current trading day

Examples

```
## Not run:

# Must set a valid API token
fmpc_set_token('FMPAPIKEY')
fmpc_security_gla('gainers')
fmpc_security_gla('losers')
fmpc_security_gla('actives')


## End(Not run)
```

---

fmpc_security_mrktcap *Pull market capitalization*

Description

Provides current and historical market cap for one or more securities

Usage

```
fmpc_security_mrktcap(symbols = c("AAPL"), limit = 100)
```

Arguments

symbols	one or more symbols from the FMP available list that can be found using `fmpc_symbols_available`. A valid API token must be set in order to enable functionality. See documentation for setting a token under `fmpc_set_token`.
limit	limit results for each ticker

Value

data frame of ratings data

Examples

```
## Not run:

# Demo can pull AAPL
fmpc_set_token()
fmpc_security_mrktcap('AAPL')

# For multiple symbols, set a valid API Token
fmpc_set_token('FMPAPIKEY')
fmpc_security_mrktcap(c('AAPL','MSFT','SPY'))


## End(Not run)
```

---

fmpc_security_news   *Get current news*

Description

Provides current and historical News. Can enter securities to pull news for specific securities

Usage

```
fmpc_security_news(symbols = NULL, limit = 100)
```

Arguments

symbols	one or more symbols. Use NULL for general latest news
limit	limit results for each ticker

Value

data frame of news for tickers

Examples

```
## Not run:

# For multiple symbols, set a valid API Token
fmpc_set_token('FMPAPIKEY')
fmpc_security_news(c('AAPL','MSFT','SPY'))
fmpc_security_news()


## End(Not run)
```

---

fmpc_security_profile   *Pull profile for a company*

Description

Provides pricing, market cap, dividend, company description, CEO, number of employees, and more for one or more symbols

Usage

```
fmpc_security_profile(symbols = c("AAPL"))
```

Arguments

symbols   one or more symbols from the FMP available list that can be found using `fmpc_symbols_available`. A valid API token must be set in order to enable functionality. See documentation for setting a token under `fmpc_set_token`.

Value

data frame of descriptive information

Examples

```
## Not run:

# Demo can pull AAPL
fmpc_set_token()
fmpc_security_profile('AAPL')

# For multiple symbols, set a valid API Token
fmpc_set_token('FMPAPIKEY')
fmpc_security_profile(c('AAPL','MSFT','SPY'))
```

```
## End(Not run)
```

---

fmpc_security_ratings   *Pull security rating*

Description

Provides current and historical rating for one or more securities

Usage

```
fmpc_security_ratings(symbols = c("AAPL"), limit = 100)
```

Arguments

symbols   one or more symbols from the FMP available list that can be found using `fmpc_symbols_available`.
            A valid API token must be set in order to enable functionality. See documenta-
            tion for setting a token under `fmpc_set_token`.

limit   limit results for each ticker

Value

data frame of ratings data

Examples

```
## Not run:

# Demo can pull AAPL
fmpc_set_token()
fmpc_security_ratings('AAPL')

# For multiple symbols, set a valid API Token
fmpc_set_token('FMPAPIKEY')
fmpc_security_ratings(c('AAPL','MSFT','SPY'))


## End(Not run)
```

```
fmpc_security_screener
```
Stock Screener

Description

Filter for stocks based on numerous criteria.

Usage

```
fmpc_security_screener(
  limit = 100,
  mrktCapAbove = NULL,
  mrktCapBelow = NULL,
  betaAbove = NULL,
  betaBelow = NULL,
  dividendAbove = NULL,
  dividendBelow = NULL,
  volumeAbove = NULL,
  volumeBelow = NULL,
  sector = NULL,
  industry = NULL
)
```

Arguments

`limit`	limit output to a certain amount or rows
`mrktCapAbove`	integer - market cap greater than
`mrktCapBelow`	integer - market cap less than
`betaAbove`	double - beta greater than
`betaBelow`	double - beta less than
`dividendAbove`	double - dividend greater than
`dividendBelow`	double - dividend less than
`volumeAbove`	integer - volume in shares greater than
`volumeBelow`	integer - volume in shares less than
`sector`	indicate a sector. Documentation is unclear of options. 'tech' is the example used
`industry`	indicate an industry. Documentation is unclear of options. 'Software' is the example used

Details

This function will temporarily modify options(scipen=999).

Value

a list of securities based on criteria supplied

Examples

```
## Not run:

# Must set a valid API token
fmpc_set_token('FMPAPIKEY')
fmpc_security_screener() # Default pulls a list of 100 with no filters
# Search for market cap above a billion,
# that trades at least a million shares with a dividend under 1
fmpc_security_screener(mrktCapAbove = 1e9, dividendBelow = 1, volumeAbove = 1e6)


## End(Not run)
```

---

fmpc_security_sector   *Pull daily returns for all sectors*

Description

For each day, the return for a sector will be pulled

Usage

```
fmpc_security_sector(days = 25)
```

Arguments

days   number of trading days to pull returns from current day. For example, 20 will
        pull the last 20 trading days, about one month of data.

Value

data frame of sectors and daily returns

Examples

```
## Not run:

fmpc_set_token('FMPAPIKEY')
allSymbs = fmpc_security_sector(30)


## End(Not run)
```

---

fmpc_security_splits   *Historical security split data*

Description

Pulls stock split history for one or more securities

Usage

```
fmpc_security_splits(
  symbols = "AAPL",
  startDate = Sys.Date() - 3600,
  endDate = Sys.Date()
)
```

Arguments

symbols	one or more symbols from the FMP available list that can be found using `fmpc_symbols_by_market`. A valid API token must be set in order to enable functionality. See documentation for setting a token under `fmpc_set_token`.
startDate	filter start date in yyyy-mm-dd format.
endDate	filter end date in yyyy-mm-dd format.

Value

a data frame of split history

Warning

Each symbol is a separate API call. If the API token has monthly limits, this should be considered before making a bulk request

Examples

```
## Not run:

# Setting API key to DEMO allows for AAPL only
fmpc_set_token()
fmpc_security_splits('AAPL')

# For multiple symbols, set a valid API Token
fmpc_set_token('FMPAPIKEY')
fmpc_security_splits(c('AAPL','TSLA'), startDate = '2020-01-01')


## End(Not run)
```

---

fmpc_security_tech_indic

Technical Indicators

Description

Pull Technical Indicators for a set of symbols over a specific number of periods set by the frequency

Usage

```
fmpc_security_tech_indic(
  symbols = "AAPL",
  indicator = c("SMA", "EMA", "WMA", "DEMA", "TEMA", "williams", "RSI", "ADX",
    "standardDeviation"),
  freq = c("daily", "1min", "5min", "15min", "30min", "1hour", "4hour"),
  period = 10
)
```

Arguments

symbols	one or more symbols from the FMP available list that can be found using `fmpc_symbols_by_market`. A valid API token must be set in order to enable functionality. See documentation for setting a token under `fmpc_set_token`.
indicator	'SMA', 'EMA', 'WMA', 'DEMA', 'TEMA', 'williams', 'RSI', 'ADX', 'standardDeviation'
freq	the frequency of which to pull intraday data. Options are '1min', '5min', '15min', '30min', '1hour'
period	Number of periods over which to calculate the technical indicator

Details

Technical indicators include: 'SMA', 'EMA', 'WMA', 'DEMA', 'TEMA', 'williams', 'RSI', 'ADX', 'standardDeviation'

Value

technical indicator in a data frame

Examples

```
## Not run:

# Setting API key to DEMO allows for AAPL only
fmpc_set_token()
fmpc_security_tech_indic('AAPL')
fmpc_security_tech_indic('AAPL', indicator = 'standardDeviation')
```

```
fmpc_security_tech_indic('AAPL', 'sma')

# For multiple symbols, set a valid API Token
fmpc_set_token('FMPAPIKEY')
fmpc_security_tech_indic(c('AAPL','MSFT','SPY'), indicator = 'RSI', freq = '15min', period = 25)


## End(Not run)
```

---

fmpc_set_token   *Set FMP Token for all other functions*

Description

Pass a valid FMP API Token to enable all other functions

Usage

```
fmpc_set_token(APIToken = "demo", timeBtwnReq = 0.1, noBulkWarn = FALSE)
```

Arguments

APIToken	a valid API Token from FMP Cloud
timeBtwnReq	Time between API calls in seconds. FMP Cloud may limit API call frequency depending on the package subscription. Use this to set a time between API calls. The default is .1 to limit calls to no more than 10 per second.
noBulkWarn	Boolean of TRUE or FALSE. When making large API calls, an initial warning will be given to make sure the user wants to make bulk requests. If the user has a FREE FMP API a bulk request may be undesirable. Each symbol requested for many functions will be a unique API request. Use this parameter to silence this warning.

Details

In order to use the FMP Cloud API, an account must be created at FMP Cloud. There is a free account option that but sets a cap at 250 calls. There are different subscription levels. To use this package, the free subscription can be used up to the limit.

Please note that most functions will make an individual API call for each symbol passed. If running a function on multiple symbols, be aware this could quickly hit API call limits. When running in an interactive environment, a warning will appear asking to confirm running bulk requests. This can be suppressed for a session using the options. You can also suppress when using the option noBulkWarn = TRUE in this function. When running in a non interactive environment like CRON, the bulk request will be processed without a warning regardless.

Examples

```
## Not run:
# Set the FMP Token. The DEMO token has VERY limited access.
fmpc_set_token('demo', timeBtwnReq = 0, noBulkWarn = TRUE)

## End(Not run)
```

```
fmpc_symbols_available
```
Get symbols available through FMP Cloud that have a profile

Description

Use a valid API Token to pull all symbols that have a profile on FMP Cloud. Pull the profile using `fmpc_security_profile`. Set API token using `fmpc_set_token`.

Usage

```
fmpc_symbols_available()
```

Value

a data frame of symbols with descriptions

Examples

```
## Not run:

# Must set a valid API token
fmpc_set_token('FMPAPIKEY')
fmpc_symbols_available()


## End(Not run)
```

```
fmpc_symbols_by_market
```
Get available symbols across markets

Description

Pulls all symbols available on FMP Cloud that has historical pricing data. Markets can include equities, mutual funds, commodities, indexes, and more.

Usage

```
fmpc_symbols_by_market(market = "all")
```

Arguments

market   select one or more markets to pull available symbols. options include: 'all',
                'etf', 'commodity', 'euronext', 'nyse',' amex', 'tsx', 'index', 'mutual_fund',
                'nasdaq', 'crypto', 'forex'

Value

a data frame of pricing, split, and dividend history

Warning

Running 'all' generates 11 API calls

Examples

```
## Not run:

# A valid token must be set to use this function
fmpc_set_token('FMPAPIKEY')
fmpc_symbols_by_market(market = c('index','commodity'))
fmpc_symbols_by_market() # default will pull all markets


## End(Not run)
```

---

fmpc_symbols_index   *Current or historical constituents for a specific index*

Description

Shows current or historical companies in the S&P 500, Nasdaq, or Dow Jones

Usage

```
fmpc_symbols_index(
  period = c("current", "historical"),
  index = c("sp500", "nasdaq", "dowjones")
)
```

Arguments

period   'current' for current list, 'historical' for a list of companies that have been added
                and the ones that were replaced
index   indicate the index to pull for: sp500, dowjones, nasdaq

Value

data frame of constituents

Examples

```
## Not run:

# Must set a valid API token
fmpc_set_token('FMPAPIKEY')
fmpc_symbols_index()
fmpc_symbols_index('historical','nasdaq')

## End(Not run)
```

---

fmpc_symbol_search   *Search for symbols or companies*

Description

Enter search string to pull back matching symbols or companies

Usage

```
fmpc_symbol_search(query = "apple inc", limit = 10)
```

Arguments

query   a search string,for example 'tech'

limit   limit the results to a certain number

Value

list of symbols and companies that meet the search criteria

Examples

```
## Not run:
# Function can work without a valid API token
fmpc_set_token() # defaults to 'demo'
fmpc_symbol_search('apple')
fmpc_symbol_search('tech', 100)

## End(Not run)
```

Index