

# Package ‘fmpcloudr’

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

**Version** 0.1.5

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**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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|                   |                             |
|-------------------|-----------------------------|
| fmpe_13f_cik_list | <i>List of all 13F ciks</i> |
|-------------------|-----------------------------|

---

## **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 | <i>Find name of company by cik</i> |
|-------------------|------------------------------------|

---

**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 | <i>Search for 13F ciks</i> |
|---------------------|----------------------------|

---

**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 | <i>13F data for a set of ciks and dates</i> |
|---------------|---------------------------------------------|

---

**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 <a href="#">fmpc_13f_cik_list</a>                  |
| 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 <a href="#">fmpc_symbols_available</a> . A valid API token must be set in order to enable functionality. See documentation for setting a token under <a href="#">fmpc_set_token</a> . |
| outlook | can be one of: 'surprise' for earnings surprise, 'grade' for stock grade, 'estimateAnn1' 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 <a href="#">fmpc_cots_symbols</a> . 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 | <i>Get list of COTS symbols</i> |
|-------------------|---------------------------------|

---

**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 | <i>Use a cusip to search a company and ticker</i> |
|-------------------|---------------------------------------------------|

---

**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 <a href="#">fmpc_symbols_available</a> . A valid API token must be set in order to enable functionality. See documentation for setting a token under <a href="#">fmpc_set_token</a> . |
| quarter | earnings year quarter                                                                                                                                                                                                                                         |
| year    | earnings call year                                                                                                                                                                                                                                            |

**Value**

earnings call transcript in data frame

**Examples**

```
## Not run:

# Demo can pull AAPL
fmpe_set_token()
fmpe_earning_call_transcript('AAPL',quarter = 1, year = 2019)

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

## End(Not run)
```

---

|                      |                                                  |
|----------------------|--------------------------------------------------|
| fmpe_economic_events | <i>List economic events that can be searched</i> |
|----------------------|--------------------------------------------------|

---

**Description**

Shows the economic events that can be fed into [fmpe\\_economic\\_results](#)

**Usage**

```
fmpe_economic_events()
```

**Value**

economic metrics

**Examples**

```
## Not run:
# Function can work without a valid API token
fmpe_set_token('FMPAPIKEY')
fmpe_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 <a href="#">fmpc_economic_events</a> |
| country   | a country from <a href="#">fmpc_economic_events</a>         |
| 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 | <i>Discounted Cash Flow Value</i> |
|---------------------|-----------------------------------|

---

## 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
fmprc_set_token()
fmprc_financial_dcfv('AAPL')

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

## End(Not run)
```

---

```
fmprc_financial_metrics
```

*Get financial metrics for one or more tickers*

---

**Description**

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

**Usage**

```
fmprc_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 | <i>Get a list of Financial ZIP file locations</i> |
|--------------------|---------------------------------------------------|

---

**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 | <i>GET Request for specific URL</i> |
|--------------|-------------------------------------|

---

### 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 a new 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 | <i>List of mutual funds that hold a specified symbol</i> |
|------------------|----------------------------------------------------------|

---

**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 <a href="#">fmpc_symbols_by_market</a> . A valid API token must be set in order to enable functionality. See documentation for setting a token under <a href="#">fmpc_set_token</a> . |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**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)
```

---

|                   |                               |
|-------------------|-------------------------------|
| fmpe_holdings_etf | <i>Pull ETF holdings data</i> |
|-------------------|-------------------------------|

---

## Description

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

## Usage

```
fmpe_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 [fmpe\\_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
fmpe_set_token('FMPAPIKEY')
fmpe_holdings_etf(c('V00','SPY'), holding = 'symbol')
fmpe_holdings_etf(c('V00','SPY'), holding = 'country')
fmpe_holdings_etf(c('V00','SPY'), holding = 'sector')

## End(Not run)
```

---

|                   |                                              |
|-------------------|----------------------------------------------|
| fmpc_market_hours | <i>Current day market hours and holidays</i> |
|-------------------|----------------------------------------------|

---

**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 | <i>Pull all EOD pricing data for a specific date</i> |
|----------------------|------------------------------------------------------|

---

**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')
allSyms = fmpc_price_batch_eod('2020-06-24')

## End(Not run)
```

---

|                    |                      |
|--------------------|----------------------|
| fmpc_price_current | <i>Current price</i> |
|--------------------|----------------------|

---

**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 <a href="#">fmpc_symbols_by_market</a> . A valid API token must be set in order to enable functionality. See documentation for setting a token under <a href="#">fmpc_set_token</a> . |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**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 | <i>Get all foreign exchange quotes</i> |
|------------------|----------------------------------------|

---

**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 | <i>Current Price for an Entire Market</i> |
|------------------------|-------------------------------------------|

---

**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', 'india', '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 | <i>Historical End of Day pricing data for one or more symbols</i> |
|--------------------|-------------------------------------------------------------------|

---

**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 <a href="#">fmpc_symbols_by_market</a> . A valid API token must be set in order to enable functionality. See documentation for setting a token under <a href="#">fmpc_set_token</a> . |
| 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 <a href="#">fmpc_symbols_by_market</a> . A valid API token must be set in order to enable functionality. See documentation for setting a token under <a href="#">fmpc_set_token</a> . |
| 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 | <i>Historical End of Day pricing data for one or more symbols</i> |
|---------------------|-------------------------------------------------------------------|

---

**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 <a href="#">fmpc_symbols_by_market</a> . A valid API token must be set in order to enable functionality. See documentation for setting a token under <a href="#">fmpc_set_token</a> . |
| 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 of 1hour 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

|                        |                                                                                                                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>symbols</code>   | one or more symbols from the FMP available list that can be found using <a href="#">fmpc_symbols_by_market</a> . A valid API token must be set in order to enable functionality. See documentation for setting a token under <a href="#">fmpc_set_token</a> . |
| <code>startDate</code> | filter start date in yyyy-mm-dd format.                                                                                                                                                                                                                       |
| <code>endDate</code>   | 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 | <i>Gainers, Losers, and active</i> |
|-------------------|------------------------------------|

---

**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 | <i>Pull market capitalization</i> |
|-----------------------|-----------------------------------|

---

**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 <a href="#">fmpc_symbols_available</a> . A valid API token must be set in order to enable functionality. See documentation for setting a token under <a href="#">fmpc_set_token</a> . |
| limit   | limit results for each ticker                                                                                                                                                                                                                                 |

**Value**

data frame of ratings data

**Examples**

```
## Not run:

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

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

## End(Not run)
```

---

|                    |                         |
|--------------------|-------------------------|
| fmpc_security_news | <i>Get current news</i> |
|--------------------|-------------------------|

---

**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 <a href="#">fmpc_symbols_available</a> . A valid API token must be set in order to enable functionality. See documentation for setting a token under <a href="#">fmpc_set_token</a> . |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 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

|                      |                                                                                                                                                                                                                                                               |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>symbols</code> | one or more symbols from the FMP available list that can be found using <a href="#">fmpc_symbols_available</a> . A valid API token must be set in order to enable functionality. See documentation for setting a token under <a href="#">fmpc_set_token</a> . |
| <code>limit</code>   | 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')
allSyms = 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 <a href="#">fmpc_symbols_by_market</a> . A valid API token must be set in order to enable functionality. See documentation for setting a token under <a href="#">fmpc_set_token</a> . |
| 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 <a href="#">fmpc_symbols_by_market</a> . A valid API token must be set in order to enable functionality. See documentation for setting a token under <a href="#">fmpc_set_token</a> . |
| 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 | <i>Set FMP Token for all other functions</i> |
|----------------|----------------------------------------------|

---

## 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', timeBtwReq = 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 | <i>Current or historical constituents for a specific index</i> |
|--------------------|----------------------------------------------------------------|

---

**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 | <i>Search for symbols or companies</i> |
|--------------------|----------------------------------------|

---

**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)
```

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