twitteRacademic

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Package *twitteRacademic*

The package *twitteRacademic* is intended for academics who have an academic account on *Twitter*. This package enables the integration of the Academic Research product track of Twitter, which provides free access to the full-archive search and other v2 endpoints. It provides a feature for circumstantial use of the *full-archive search* call, which is used to access the historical API. For suggestions, questions, ideas, improvements or reporting bugs, please contact the authors of the package.

More information on *twitteRacademic* is available on the project homepage.

Installation

To be able to use the package in principle, some requirements are to be fulfilled, which are only mentioned here. For an implementation of these please visit the homepages of the infrastructure used here. What you need to have basically set up to use the *twitteRacademic* package:

1. It is necessary that you register as a developer at *Twitter Developer*.
2. You also need to submit your research project to *Twitter* and get approved for use by proving your institutional affiliation, here.
3. After successful activation you have to create an app on *Twitter Developer* and assign it to your academic project.
4. Make sure that in the app permissions your app has the "Read, write and access Direct Messages" rights at level 3.
5. Finally, it is necessary to generate a 'Bearer-Token' which will serve as a key for your access.

For a detailed description of each step to implement an app in Twitter, please visit the pages of the links provided above.

Development releases via the project repository

The current/last version of the package can be obtained from the corresponding repository. To install the package directly from GitHub, you can use install_github() from the devtools package:

```r
# load required package remotes
library(remotes)

# install twitteRacademic from repository
install_github("mittendo/twitteRacademic")
```

Contributing

Some sample code has been taken from twitter development team (https://github.com/twitterdev/Twitter-API-v2-sample-code/blob/master/Full-Archive-Search/full-archive-search.r). We welcome pull requests and any meaningful additions to this package.

Bug reports

For suggestions, questions, ideas, improvements or reporting bugs, please contact the authors of the package [mittendo@uni-wuppertal.de; schmale@uni-wuppertal.de].

Please report any bugs to: https://github.com/mittendo/twitteRacademic/issues

Citation

Please cite this package, if you have used it in your works:

```
citation("twitteRacademic")
```

License

GPL-3

Case Study

```r
# load package
library(twitteRacademic)

# Replace the bearer token below with your bearer key
  bearer_token <- "Put your Bearer-Token in here"

# OR

# Create .Rprofile data with your Bearer-Token
  twitterBearerToken <- "Put your Bearer Token in here".#in .Rprofile = twitterBearerToken

# Please check out the different options that Twitter provides for "high-performance"
# research/queries.

# Query the term you are looking for here
query <- '#OCCUPYWALLSTREET lang:de'


# Define the starting point of your research here
start <-  '2011-09-15T00:00:01Z'
# Define the end point of your research here
end <- '2011-09-30T00:00:01Z'


# run the query
data <- twitter_fas(query, start, end, bearer_token)
```
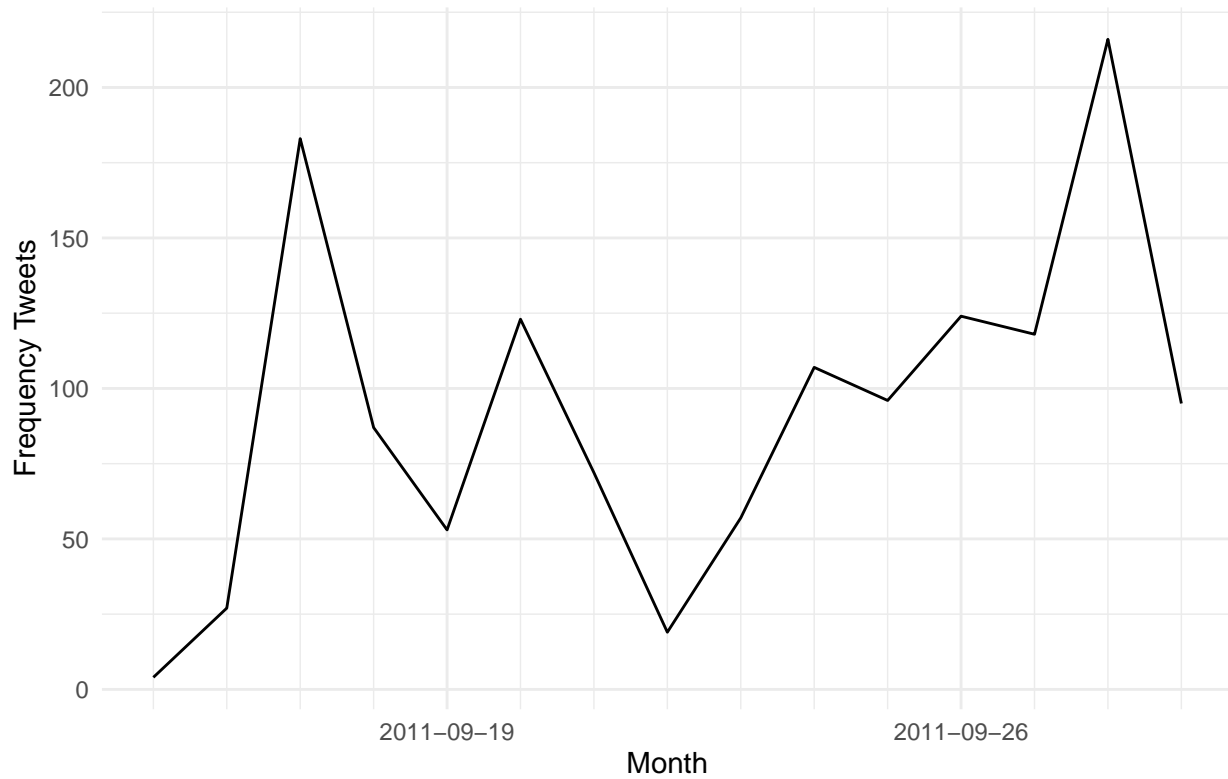
```
## [1] "Pagination (500 tweets per page), loading page: 1"
## [1] "Pagination (500 tweets per page), loading page: 2"
## [1] "Pagination (500 tweets per page), loading page: 3"
```

```r
# load package rtweet
library(rtweet)

# show tweets in dataframe
tweets <- data$data
```

```
# plot timerow
ts_plot(tweets, "days") +
  theme_minimal() +
  theme(plot.title = element_text(face = "bold")) +
  labs(x = "Month", y = "Frequency Tweets",
       caption = "\nSource: Data Collected from Twitter with twitteRacademic") +
  scale_x_datetime(date_breaks = "1 week",
                   date_minor_breaks = "1 day")
```


Source: Data Collected from Twitter with twitteRacademic