

# Package ‘tsentiment’

July 22, 2025

**Type** Package

**Title** Fetching Tweet Data for Sentiment Analysis

**Version** 1.0.5

**Author** Hakki Sabah <hakkisabah@hotmail.com>

**Maintainer** Hakki Sabah <hakkisabah@hotmail.com>

**Description** Which uses Twitter APIs for the necessary data in sentiment analysis, acts as a middleware with the approved Twitter Application.

A special access key is given to users who subscribe to the application with their Twitter account. With this special access key, the user defined keyword for sentiment analysis can be searched in twitter recent searches and results can be obtained( more information <<https://github.com/hakkisabah/tsentiment>> ).

In addition, a service named tsentiment-services has been developed to provide all these operations ( for more information <<https://github.com/hakkisabah/tsentiment-services>> ).

After the successful results obtained and in line with the permissions given by the user, the results of the analysis of the word cloud and bar graph saved in the user folder directory can be seen. In each analysis performed, the previous analysis visual result is deleted and this is the basic information you need to know as a practice rule.

'tsentiment' package provides a free service that acts as a middleware for easy data extraction from Twitter, and in return, the user rate limit is reduced by 30 requests from the total limit and the remaining requests are used. These 30 requests are reserved for use in application analytics. For information about endpoints, you can refer to the limit information in the ``GET search/tweets" row in the Endpoints column in the list at <<https://developer.twitter.com/en/docs/twitter-api/v1/rate-limits>>.

**License** MIT + file LICENSE

**Encoding** UTF-8

**URL** <https://github.com/hakkisabah/tsentiment>,  
<https://www.tsentiment.com>

**BugReports** <https://github.com/hakkisabah/tsentiment/issues>

**Depends** R (>= 4.0)

**Imports** grDevices,reshape2,wordcloud,ggplot2,htr,syuzhet,tidytext,dplyr,tibble,stringi

**RoxygenNote** 7.2.1

**NeedsCompilation** no

**Repository** CRAN

**Date/Publication** 2022-11-02 22:10:02 UTC

## Contents

APIinfo . . . . .	2
checkConfirmForUser . . . . .	3
checkVersionForSentiment . . . . .	3
cleanFetchedTweet . . . . .	4
clearPrevious . . . . .	4
createFolder . . . . .	4
getAnalysis . . . . .	5
getBarSentiment . . . . .	5
getCloudSentiment . . . . .	6
getTweet . . . . .	6
setAccount . . . . .	7
tweetFetcher . . . . .	7
writeToCSV . . . . .	8
<b>Index</b>	<b>9</b>

---

APIinfo	<i>tsentiment environment</i>
---------	-------------------------------

---

### Description

tsentiment environment

### Usage

APIinfo

### Arguments

APIinfo      Environment

### Format

An object of class environment of length 4.

---

checkConfirmForUser *User file permission checker*

---

**Description**

User file permission checker

**Usage**

checkConfirmForUser()

**Value**

String

**Examples**

```
## Not run:  
checkConfirmForUser()  
  
## End(Not run)
```

---

checkVersionForSentiment  
*Check r Version*

---

**Description**

This function checking using current R version

**Usage**

checkVersionForSentiment()

**Value**

boolean

**Examples**

```
checkVersionForSentiment()
```

---

cleanFetchedTweet	<i>Clean raw data</i>
-------------------	-----------------------

---

**Description**

This function clean fetched tweets

**Usage**

```
cleanFetchedTweet(fetchedTweet = NULL)
```

**Arguments**

fetchdTweet    Fetched tweet has a lot of different characters

**Value**

table

---

clearPrevious	<i>Help for delete save files folder</i>
---------------	--

---

**Description**

Help for delete save files folder

**Usage**

```
clearPrevious()
```

**Value**

Void

---

createFolder	<i>Folder creator</i>
--------------	-----------------------

---

**Description**

This function create a folder in project path

**Usage**

```
createFolder()
```

**Value**

String

---

`getAnalysis`*Start analysis after defined Twitter API information*

---

**Description**

This function prepare API information and start analysis

**Usage**

```
getAnalysis()
```

**Value**

file

**Examples**

```
## Not run:  
clearPrevious()  
getCloudSentiment()  
getBarSentiment()  
  
## End(Not run)
```

---

`getBarSentiment`*Export bar plot*

---

**Description**

This function export a bar plot with analysed data

**Usage**

```
getBarSentiment(tweet = NULL)
```

**Arguments**

tweet            Cleaned tweet data

**Value**

file

---

getCloudSentiment      *Export word cloud*

---

**Description**

This function export a word cloud with analysed data

**Usage**

```
getCloudSentiment(text)
```

**Arguments**

text                  Cleaned tweet data

**Value**

file

---

getTweet              *Get Tweet*

---

**Description**

This function only get tweet from tsentiment api

**Usage**

```
getTweet(fetchParams)
```

**Arguments**

fetchParams      is variable

**Value**

JSON

**Examples**

```
## Not run:  
fetchParams <- list(headers = headers, params = params, url = APIinfo$url)  
getTweet(fetchParams)  
  
## End(Not run)
```

---

setAccount	<i>Set Twitter Developer Account Api Information</i>
------------	--

---

**Description**

This function should be used at the start of each session

**Usage**

```
setAccount(params)
```

**Arguments**

params           Its have to required Twitter and request informations for using this package

**Value**

String

**Examples**

```
params <- list(BEARER_TOKEN = "DSEFS55SSS",query = "binance")
setAccount(params)
```

---

tweetFetcher	<i>Fetch Tweets</i>
--------------	---------------------

---

**Description**

This function prepare http information for fetching process and working together sub function

**Usage**

```
tweetFetcher()
```

**Value**

list

---

`writeToCSV`*Create CSV*

---

**Description**

This function create CSV file with parameters

**Usage**

```
writeToCSV(tweetData)
```

**Arguments**

`tweetData`      fetched first dirty tweet data

**Value**

file

**Examples**

```
## Not run:  
writeToCSV()  
  
## End(Not run)
```



# Index

## \* datasets

APIinfo, [2](#)

APIinfo, [2](#)

checkConfirmForUser, [3](#)

checkVersionForSentiment, [3](#)

cleanFetchedTweet, [4](#)

clearPrevious, [4](#)

createFolder, [4](#)

getAnalysis, [5](#)

getBarSentiment, [5](#)

getCloudSentiment, [6](#)

getTweet, [6](#)

setAccount, [7](#)

tweetFetcher, [7](#)

writeToCSV, [8](#)