## rtweet

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#### **Twitter Fundamentals**

- 'microblogging' website: users can create, share, and respond to posts that are a maximum of 280 characters long
- twtter automatically generates 'trends' based on location, via an algorithm
- some definitions:
- 1. feed: stream of tweets on your homepage
- follows: followed users' tweets and re-tweets appear in your feed
- 3. hashtag: user-created tweet/topic identifier
- rtweet communicates with twitter's API so you dont have to!

# **Package Features**

- Search tweets: search\_tweets() up to 18,000 from the past 6-9 days
- Search Users: search\_users()
- Search trends by location: get\_trends("location")
- Use and visualize as a time series: ts\_plot() and ts\_data()
- Get followers/following: get\_friends() and get\_followers()
- Get recent tweets: get\_timeline()
- Get favorites: get\_favorites()
- Live stream tweets: stream\_tweets() with options:
- 1. random sampling
- 2. filtering by content (e.g. by hashtag)
- 3. by location: lookup\_coords() (requires google API key)
- 4. tracking by user id
- and many more!

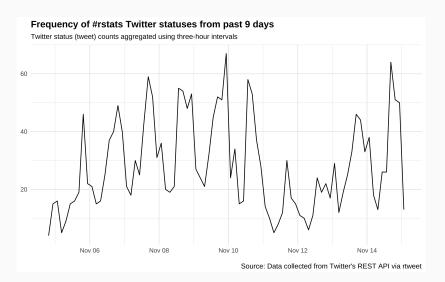
## Installation and Usage

Basic funtionality requires a twitter account and the 'httpuv' package: running an rtweet function in a live session of RStudio will prompt a browser popup to authorize the embedded 'rstats2twitter' app.

For full functionality (posting tweets etc.) one must apply for a twitter developer account and create a user app. See https://rtweet.info/articles/auth.html.

## **Examples**

```
## search for 18000 tweets using the rstats hashtag
## excludes retweets
rt <- search tweets(
  "#rstats", n = 18000, include_rts = FALSE
## plot time series of tweets
rt %>%
 ts_plot("3 hours") +
  ggplot2::theme_minimal() +
  ggplot2::theme(plot.title = ggplot2::element_text(face =
  ggplot2::labs(
    x = NULL, y = NULL,
    title = "Frequency of #rstats Twitter statuses from pas
    subtitle = "Twitter status (tweet) counts aggregated us
```



```
## search for 10,000 tweets sent from the US
rt <- search tweets(
  "lang:en", geocode = lookup_coords("usa"), n = 10000
## create lat/lng variables using all available tweet and
rt <- lat lng(rt)
## plot state boundaries
par(mar = c(0, 0, 0, 0))
maps::map("state", lwd = .25)
## plot lat and lnq points onto state map
with(rt, points(lng, lat, pch = 20, cex = .75, col = rgb(0
```



## Citation and repo

https://github.com/ropensci/rtweet

Kearney MW (2019). "rtweet: Collecting and analyzing Twitter data." Journal of Open Source Software, 4(42), 1829. doi: 10.21105/joss.01829, R package version 0.7.0, https://joss.theoj.org/papers/10.21105/joss.01829.