# Package 'tweet2Earth'

February 25, 2016

Type Package	
Title plot or stream tweets' location and created time to Google Earth	
Version 1.0	
<b>Date</b> 2015-05-29	
Author Jabber Cruncher	
Maintainer John Coene <jcoenep@gmail.com></jcoenep@gmail.com>	
<b>Description</b> Comes with two functions, one to plot tweets, typically obtained from the twitteR package, onto Google Earth. The other to stream tweets, using the streamR package, onto Google Earth.	
License MIT + file LICENSE	
Imports streamR, sp, spacetime, plotKML	
Suggests ROAuth, RCurl	
RoxygenNote 5.0.1	
<pre>URL https://github.com/JohnCoene/tweets2earth</pre>	
BugReports https://github.com/JohnCoene/tweets2earth/issues	
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# Description

Plots tweets location and created time on Google Earth.

#### Usage

```
plot2earth(df, longitude, latitude, date.time, labels, size, colour,
  colour.scale = plotKML::SAGA_pal[[1]],
  shape = "http://maps.google.com/mapfiles/kml/pal2/icon18.png",
  open = TRUE, kmz = FALSE, file.name = "tweets2earth.kml",
  folder.name = getwd(), ...)
```

### **Arguments**

df	Required. data.frame of tweets to plot.
longitude	Required. Column holding longitude.
latitude	Required. Column holding latitude.
date.time	Required. Column including creation time of tweets; POSIXct format
labels	Required. Column holding labels.
size	Required. Column holding desired size of points.
colour,	optional. Column name that determines colours of points.
colour.scale,	optional, defaults to plotKML::SAGA_pal[[1]]. can be pallettes from R_pal (data(R_pal)), SAGA_pal (see default), from RColorBrewer (see example) or a vector of colors (hex) i.e.(c("#EE6A50", "#E8F9FE", "#6495ED"))
shape,	optional. Shape to use for points. Defaults to http/icon18.png
open,	optional. Whether to open file in Google Earth. Defaults to TRUE.
kmz	Whether to also save the file as .kmz, defaults to FALSE
file.name	Name of kml or kmz file, defaults to tweets2earth.kml
folder.name	Name of folder where to save the kml or kmz file, defaults to getwd
	Arguments to pass to kml function. See kml

#### **Details**

Takes data.frame of tweets and plots coordinates on Google Earth, also includes time variable (date.time). Choose size, colour and labels of your liking.

#### Value

Writes kml file and, optionally, opens it in Google Earth (open = TRUE).

# Author(s)

```
John Coene, <jcoenep@gmail.com>
```

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#### See Also

\codestream2earth

#### **Examples**

stream2earth

stream2earth

## **Description**

Streams tweets' location and time to Google Earth.

#### Usage

```
stream2earth(search_term, oauth, labels, size, duration = 3600, window = 5,
    shape = "http://maps.google.com/mapfiles/kml/pal2/icon18.png", ...)
```

# Arguments

```
search_term,
                  required. Search to use in API call.
                  required. Your oauth token as used in streamR package. See examples.
oauth,
labels,
                  requried. Labels to use on Google Earth. must be inherited from filterStream
                  (see details)
                  required. Size of shape. must be inherited from filterStream (see details).
size,
                  requried. Number of seconds to stream, defaults to 3600.
duration,
window,
                  required. Duration of each streaming window in seconds. Defaults to 5.
                  required. Shape to use on Google Earth. Defaults to .../icon18.png.
shape,
                  Optional arguments to pass to streamR filterStream function.
. . .
```

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#### **Details**

labels, size parameters must be inherited from filterStream.

Available labels and size parameters are;

- text
- favorited
- id\_str
- source
- created\_at
- in\_reply\_to\_user\_id\_str
- listed\_count
- location
- description
- user\_created\_at
- followers\_count
- protected
- names
- user\_lang
- friends\_count
- time
- retweet\_count
- truncated
- in\_reply\_to\_screen\_name
- retweeted
- in\_reply\_to\_status\_id\_str
- lang
- verified
- user\_id\_str
- geo\_enabled
- statuses\_count
- favourites\_count
- user\_url
- time\_zone
- utc\_offset
- screen\_name

## Value

Opens Google Earth and plots tweet location and created time in near-real time.

### Author(s)

Jabber Cruncher, <john.coene@jabber-cruncher.com>

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#### See Also

plot2earth

#### **Examples**

```
## Not run:
# OAuth setup - from App (http://apps.twitter.com/)
requestURL <- "https://api.twitter.com/oauth/request_token"</pre>
accessURL <- "https://api.twitter.com/oauth/access_token"</pre>
authURL <- "https://api.twitter.com/oauth/authorize"</pre>
my_oauth <- OAuthFactory$new(consumerKey = "your_consumer_key",</pre>
                              consumerSecret = "your_consumer_secret",
                              requestURL = requestURL, accessURL = accessURL,
                              authURL = authURL)
# download cacert.pem
download.file(url="http://curl.haxx.se/ca/cacert.pem", destfile="cacert.pem")
# Register OAuth
my_oauth$handshake(cainfo = system.file("CurlSSL", "cacert.pem",
                                          package = "RCurl"))
\#Run\ stream\ for\ 2\ days\ with\ windows\ of\ 7\ seconds\ looking\ for\ keyword\ \#rstats
stream2Earth("rstats", my_oauth, "screen_name", "retweet_count",
             duration = 2, window = 7)
## End(Not run)
```

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```