Package 'Rfacebook'

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Title Access to Facebook API via R

Description Provides an interface to the Facebook API.

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R topics documented:

Rfacebook-package   *Access to Facebook API via R*

Description

This package provides a series of functions that allow R users to access Facebook's API to get information about users and posts, and collect public status updates that mention specific keywords.

Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

See Also

[fbOAuth](), [getUsers](), [getPost](), [searchFacebook](), [updateStatus](), [getFriends](), [getNetwork](), [getPage]()

callAPI   *Make an API request*

Description

callAPI is an internal function to run an API request.

Usage

```
callAPI(url, token, api = NULL)
```

Arguments

url	URL of API request
token	Either a temporary access token created at https://developers.facebook.com/tools/explorer or the OAuth token created with fbOAuth. It needs to have extended permissions in order to successfully post to the Facebook profile.
api	API version. e.g. "v2.8". NULL is the default.

---

fbOAuth   *Create OAuth token to Facebook R session*

Description

fbOAuth creates a long-lived OAuth access token that enables R to make authenticated calls to the Facebook API. The token can be saved as a file in disk to be re-used in future sessions. This function relies on the httr package to create the OAuth token, and is a simplified version of one of its examples.

This function will automatically detect the API version for the token you create.

Usage

```
fbOAuth(app_id, app_secret, extended_permissions = FALSE,
  legacy_permissions = FALSE, scope = NULL)
```

Arguments

app_id   numeric, App ID of application to be used to create OAUth token. Available at
                    https://developers.facebook.com/apps

app_secret   string, App Secret of application to be used to create OAUth token. Available at
                    https://developers.facebook.com/apps, in Basic Settings panel.

extended_permissions
                    If TRUE, the token will give access to some of the authenticated user's private
                    information (birthday, hometown, location, relationships) and that of his/her
                    friends, and permissions to post status updates as well as to access checkins,
                    likes, and the user's newsfeed If FALSE, token will give access only to pub-
                    lic information. Note that updateStatus will only work for tokens with ex-
                    tended permissions. After version 2.0 of the Graph API, creating an application
                    with these permissions requires passing App Review (https://developers.
                    facebook.com/docs/facebook-login/review)

legacy_permissions
                    For tokens created with old versions of the API, this option adds the "read_stream"
                    permission

scope   Specify an explicit lists of permissions to ask (overrides extended_permissions)

Details

There are two different ways of making authenticated requests. One is to obtain a temporary access token from https://developers.facebook.com/tools/explorer/, which can be used as argument in any of the functions in Rfacebook. An example is shown below.

However, this token has a 2-hour lifetime by default and after it expires, it needs to be renewed. The second alternative is to create an OAuth token. The process to create it is a bit more tedious. It is divided in three steps.

First, go to <https://developers.facebook.com/apps>, register as a developer and create a new app. You will also need a verified Facebook account. After that, click in "Show" under "App Secret" to find your 'App ID' and 'App Secret'.

Second, run the `fbOAuth` function with your "App ID" and "App Secret" as arguments. It will return a URL, which you will need to paste into the "Website with Facebook login" field in your App Settings on Facebook. Once you've done so, press Enter.

Third, after pressing Enter, R will try to open a browser window to sign the token. If everything works well, you will get a message that says you can return to R. If not, try again in a few minutes to make sure your app had its settings updated properly.

To ensure proper functioning of the "getInsights" function-family you will need to specify the exact permissions granted to your app. As this is (to our knowledge) currently not possible through the R based authentication process, please follow these steps:

-> Create App as mentioned above. 1. Open the "Graph API Explorer": https://developers.facebook.com/tools/explorer/ 2. Select your app in the upper right corner 3. Click "Get Token" -> "Get Access Token" 4. In the popup navigate to "Extended Permissions" and select "Insights" 5. Confirm 6. Ignore the following warning message ("Submit for Login Review...") and confirm again. 6. Go back to R and run fbOAuth with extended_permissions (still) set to FALSE. -> See third step for possible messages concerning token creation.

Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

See Also

[getUsers](#), [getPost](#), [searchFacebook](#)

Examples

```
## Not run:
## an example of an authenticated request after creating the OAuth token
## where app_id and app_secret are fictitious, and token is saved for
## future sessions
fb_oauth <- fbOAuth(app_id="123456789", app_secret="1A2B3C4D")
save(fb_oauth, file="fb_oauth")
load("fb_oauth")
me <- getUsers("me", token=fb_oauth)
me$username

## an example of a request using a temporary access token
token <- "XXXXXXAAAAAAA1111"
me <- getUsers("me", token=token)

## End(Not run)
```

---

getCheckins *Extract list of checkins of a Facebook friend*

Description

getCheckins retrieves information about a friend's checkins

Usage

```
getCheckins(user, n = 10, token, tags = FALSE, api = NULL)
```

Arguments

user	A user ID or screen name.
n	Maximum number of checkins to return for each user.
token	Either a temporary access token created at https://developers.facebook.com/tools/explorer or the OAuth token created with fbOAuth.
tags	If TRUE, output of function will be a list of two elements: a data frame with user's checkins and a list of data frames, where each element contains information about users tagged in each checkin.
api	API version. e.g. "v2.8". NULL is the default.

Details

This function requires the use of an OAuth token with the following permissions: user_status, user_checkins, friends_status, friends_checkins

Check-in search was deprecated with version 2.0 of the Facebook Graph API.

Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

See Also

[getFriends](#)

Examples

```
## Not run:
 token <- 'XXXXX'
 my_checkins <- getCheckins(user="me", token=token)

## End(Not run)
```

getCommentReplies *Extract replies to comments on page post*

Description

getCommentReplies retrieves the list of comments replying to an individual comment on a post by a public Facebook page.

Usage

```
getCommentReplies(comment_id, token, n = 500, replies = TRUE,
  likes = FALSE, n.likes = n, n.replies = n, api = NULL)
```

Arguments

comment_id	A comment ID
token	Either a temporary access token created at https://developers.facebook.com/tools/explorer or the OAuth token created with fbOAuth.
n	numeric, maximum number of replies and likes to return.
replies	logical, default is TRUE, which will return data frame with replies to the post.
likes	logical, default is TRUE, which will return data frame with likes for the post.
n.likes	numeric, maximum number of likes to return. Default is n.
n.replies	numeric, maximum number of replies to return. Default is n.
api	API version. e.g. "v2.8". NULL is the default.

Details

getCommentReplies returns a list with three components: comment, replies, and likes. First, comment contains information about the original comment: author, creation date, id, counts of likes and comments, etc. Second, replies is a data frame with information about the replies to the comment (author, message, creation time, id). Finally, likes is data frame that contains names and Facebook IDs of all the users that liked the comment.

Author(s)

Yan Turgeon

See Also

getPage, getPost

Examples

```
## Not run:
## See examples for fbOAuth to know how token was created.
## Getting information about Facebook's Facebook Page
 load("fb_oauth")
 fb_page <- getPage(page="facebook", token=fb_oauth)
## Getting information and likes/comments about most recent post
 post <- getPost(post=fb_page$id[1], n=2000, token=fb_oauth)
## Downloading list of replies to first comment
 replies <- getCommentReplies(comment_id=post$comments$id[1], token=fb_oauth)

## End(Not run)
```

---

getEvents   *Extract list of events from a public Facebook page or group*

Description

getEvents retrieves event information from a public Facebook group or page.

Usage

```
getEvents(page, token, api = "v2.9")
```

Arguments

page	Facebook ID for the group or page.
token	Either a temporary access token created at https://developers.facebook.com/tools/explorer or the OAuth token created with fbOAuth.
api	API version. e.g. "v2.8". NULL is the default.

Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

See Also

getPage, fbOAuth

Examples

```
## Not run:
load("fb_oauth")
## Downloading events from Playa Vista Farmers' Market
 events <- getEvents(page="playavistaFM", token=fb_oauth)

## End(Not run)
```

---

getFQL   *Executes a FQL query to the Facebook Graph API*

Description

getFQL connects to Facebook's Graph API and executes a FQL query. See https://developers.facebook.com/docs/technical-guides/fql/ for an overview of the Facebook Query Language.

Usage

```
getFQL(query, token)
```

Arguments

query	Text of query
token	Either a temporary access token created at https://developers.facebook.com/tools/explorer or the OAuth token created with fbOAuth.

Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

Examples

```
## Not run:
## See examples for fbOAuth to know how token was created.
## Getting list of friends of authenticated user
load("fb_oauth")
d <- getFQL("SELECT uid2 FROM friend WHERE uid1=me()", token=fb_oauth)

## End(Not run)
```

---

getFriends   *Extract list of friends with their information*

Description

getFriends retrieves information about the user's friends.

Usage

```
getFriends(token, simplify = FALSE)
```

Arguments

token	Either a temporary access token created at `https://developers.facebook.com/tools/explorer` or the OAuth token created with fbOAuth.
simplify	If TRUE, function will return only name and id for each friend. If FALSE, it will return additional information from their profiles: gender, birthday, location, hometown, relationship status and profile picture.

Details

This function requires the use of a OAuth token with extended permissions. After the introduction of version 2.0 of the Graph API, only friends who are using the application that you used to generate the token to query the API will be returned.

Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

See Also

`getUsers`, `fbOAuth`

Examples

```
## Not run:
## Copy and paste token created at FB Graph API Explorer
 token <- "XXXXXX"
my_friends <- getFriends(token=token, simplify=TRUE)
## Since users are ordered by ID, this will return 10 oldest user accounts
head(my_friends, n=10)

## End(Not run)
```

---

getGroup   *Extract list of posts from a public Facebook group*

Description

`getGroup` retrieves information from a public Facebook group.

Usage

```
getGroup(group_id, token, n = 25, since = NULL, until = NULL,
  feed = TRUE, api = NULL)
```

Arguments

group_id	Facebook ID for the group. Note that this is different from the name on the URL. You can use searchGroup to find the ID.
token	Either a temporary access token created at https://developers.facebook.com/tools/explorer or the OAuth token created with fbOAuth.
n	Number of posts of page to return. Note that number can be sometimes higher or lower, depending on status of API.
since	A UNIX timestamp or strtotime data value that points to the start of the time range to be searched. For more information on the accepted values, see: http://php.net/manual/en/function.strtotime.php
until	A UNIX timestamp or strtotime data value that points to the end of the time range to be searched. For more information on the accepted values, see: http://php.net/manual/en/function.strtotime.php
feed	If TRUE, the function will also return posts on the group that were made by others (not only the admin of the group). Note that, unlike in getPage, here TRUE is the default option.
api	API version. e.g. "v2.8". NULL is the default.

Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

See Also

getUsers, getPost, fbOAuth

Examples

```
## Not run:
## Find Facebook ID for R-Users Facebook group
load("fb_oauth")
ids <- searchGroup(name="rusers", token=fb_oauth)
 ids[1,] # id = 18533493739
## Downloading posts from R-Users Facebook group
 group <- getGroup(group_id=18533493739, token=fb_oauth)
## Downloading posts from R-Users Facebook group in January 2013
 group <- getGroup(group_id=18533493739, token=fb_oauth,
since='2013/01/01', until='2013/01/31')

## End(Not run)
```

getInsights	*Extract Insights metric from a Facebook page (admin role required)*

Description

`getInsights` retrieves information from an owned Facebook page. Note that you must specify wich metric from insights you need and the period. To request multiple metrics at one time, pass a vector of metric names with a vector of periods of the same length. If only one period is supplied, it will apply to each metric. Please refer to Facebook's documentation for valid combinations of objects, metrics and periods.

Note that some insights require a page access token, see `getPageToken`

Usage

```
getInsights(object_id, token, metric, period = "day", parms = NA,
  version = 2.3, n = 5)
```

Arguments

`object_id`	An object (page, post, domain) ID.
`token`	Either a temporary access token created at https://developers.facebook.com/tools/explorer or the OAuth token created with fbOAuth.
`metric`	The metric(s) which you want to get values for.
`period`	Time intervals to return
`parms`	Optional argument that can be used to append additional parameters. For example, `&since=DATE&until=DATE`.
`version`	specifies what API version to use in the request. Version 2.5 is default.
`n`	Number of time intervals of metric values to return. Note that all metrics returned will be multiple of 3, except for lifetime period. Default n is 5

Details

The current list of supported metrics and periods is: page_fan_adds, page_fan_removes, page_views_login, page_views_login, page_views_logout, page_views, page_story_adds, page_impressions, page_posts_impressions, page_consumptions, post_consumptions_by_type, page_consumptions, and page_fans_country.

For more information, see: https://developers.facebook.com/docs/graph-api/reference/v2.5/insights

Author(s)

Danilo Silva <silvadaniloc@gmail.com> Eduardo Carvalho <eduardooc.86@gmail.com> Andrew Geisler https://github.com/andrewgeisler

Examples

```
## Not run:
## See examples for fbOAuth to know how token was created.
## Getting page impressions for Facebook's Facebook Page
## (only owner or admin of page)
 load("fb_oauth")
insights <- getInsights(object_id="20531316728", token=fb_oauth, metric='page_impressions')
## Getting post impressions for a random Facebook's page post
## (only owner or admin of page)
 insights <- getInsights(object_id='221568044327801_754789777921289',
      token=fb_oauth, metric='post_impressions', period='days_28')
## Getting page fans for date range
## (only owner or admin of page)
insights <- getInsights(object_id='221568044327801',
    token=fb_oauth, metric=c'page_fans', period='lifetime',
    parms='&since=2015-01-01&until=2015-01-31', version=2.5)
#' ## Getting page fans AND page impressions for date range
## (only owner or admin of page)
insights <- getInsights(object_id='221568044327801',
   token=fb_oauth, metric=c('page_fans','page_impressions'), period=c('lifetime','day'),
    parms='&since=2015-01-01&until=2015-01-31')
## Count of fans by country
  insights <- getInsights(object_id='221568044327801_754789777921289',
     token=fb_oauth, metric='page_fans_country', period='lifetime')

## End(Not run)
```

---

getLikes   *Extract list of likes of a Facebook friend*

Description

getLikes retrieves information about a friend's likes. To retrieve the number of likes for a page, use getUsers with the page IDs.

Usage

```
getLikes(user, n = 500, token)
```

Arguments

user	A user ID or screen name.
n	Maximum number of likes to return for each user.
token	Either a temporary access token created at https://developers.facebook.com/tools/explorer or the OAuth token created with fbOAuth.

Details

This function requires the use of an OAuth token with the following permissions: user_likes, friends_likes

Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

See Also

[getFriends](#), [fbOAuth](#)

Examples

```
## Not run:
 token <- 'XXXXX'
 my_likes <- getLikes(user="me", token=token)

## End(Not run)
```

---

getNetwork   *Extract network of friends of authenticated user*

Description

getNetwork retrieves the list of mutual friendships and returns the adjacency matrix or edge list for the network representing the neighborhood of the authenticated user.

Usage

```
getNetwork(token, format = "edgelist", verbose = TRUE)
```

Arguments

token	Either a temporary access token created at https://developers.facebook.com/tools/explorer or the OAuth token created with fbOAuth.
format	Either "edgelist" for a list of edges in the network or "adj.matrix" for an adjacenty matrix of dimensions (n x n), with n being the number of friends, and 0 or 1 indicating whether friend i is also friends with friend j.
verbose	logical, default is TRUE, which will print additional information on the console.

Details

This function requires the use of an OAuth token with extended permissions.

After the introduction of version 2.0 of the Graph API, only friends who are using the application will be returned.

Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

See Also

getFriends, fbOAuth

Examples

```
## Not run:
## See examples for fbOAuth to know how token was created.
## Copy and paste token created at FB Graph API Explorer
 token <- "XXXXXX"
 mat <- getNetwork(token=token, format="adj.matrix")
 library(igraph)
 network <- graph.adjacency(mat, mode="undirected")
 pdf("network_plot.pdf")
 plot(network)
 dev.off()

## End(Not run)
```

---

getNewsfeed   *Download recent posts from the authenticated user's newsfeed*

Description

getNewsfeed retrieves status updates from the authenticated user's News Feed

Usage

```
getNewsfeed(token, n = 200)
```

Arguments

token   Either a temporary access token created at https://developers.facebook.
               com/tools/explorer or the OAuth token created with fbOAuth.

n   Maximum number of posts to return.

Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

See Also

fbOAuth, getPost

Examples

```
## Not run:
## See examples for fbOAuth to know how token was created.
## Capture 100 most recent posts on my newsfeed
load("fb_oauth")
my_newsfeed <- getNewsfeed(token=fb_oauth, n=100)

## End(Not run)
```

---

getPage   *Extract list of posts from a public Facebook page*

Description

getPage retrieves information from a public Facebook page. Note that information about users that have turned on the "follow" option on their profile can also be retrieved with this function.

Usage

```
getPage(page, token, n = 25, since = NULL, until = NULL, feed = FALSE,
  reactions = FALSE, verbose = TRUE, api = NULL)
```

Arguments

page	A page ID or page name.
token	Either a temporary access token created at https://developers.facebook.com/tools/explorer or the OAuth token created with fbOAuth.
n	Number of posts of page to return. Note that number can be sometimes higher or lower, depending on status of API.
since	A UNIX timestamp or strtotime data value that points to the start of the time range to be searched. For more information on the accepted values, see: http://php.net/manual/en/function.strtotime.php
until	A UNIX timestamp or strtotime data value that points to the end of the time range to be searched. For more information on the accepted values, see: http://php.net/manual/en/function.strtotime.php
feed	If TRUE, the function will also return posts on the page that were made by others (not only the admin of the page).
reactions	If TRUE, will add variables to the data frame with the total count of reactions: love, haha, wow, sad, angry.
verbose	If TRUE, will report a number of the posts retrieved.
api	API version. e.g. "v2.8". NULL is the default.

Details

This function will only return information from public pages, not users with public profiles.

The since and until parameters are applied to the updated_time field in the post objects, and not the created_time. As a result, this function might return old posts that have been updated recently.

comments_count refers to the total of comments, including nested comments (replies). It might be different from the total number of comments available through the API if some comments have been deleted.

Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

See Also

getUsers, getPost, fbOAuth

Examples

```
## Not run:
## See examples for fbOAuth to know how token was created.
## Getting information about Facebook's Facebook Page
 load("fb_oauth")
 fb_page <- getPage(page="facebook", token=fb_oauth)
## Getting posts on Humans of New York page, including posts by others users
## (not only owner of page)
 page <- getPage(page="humansofnewyork", token=fb_oauth, feed=TRUE)
## Getting posts on Humans of New York page in January 2013
 page <- getPage(page="humansofnewyork", token=fb_oauth, n=1000,
   since='2013/01/01', until='2013/01/31')

## End(Not run)
```

---

getPageToken   *Get a page access token*

Description

Gets a page access token that can be used to e.g. get insights for a page.

Usage

```
getPageToken(page, token)
```

Arguments

page	A page ID or page name.
token	the token (with scope 'manage_pages') of a user that has admin access to the page

Value

the page access token string

Examples

```
## Not run:
## Get a normal access token with manage_pages scope
token = fbOAuth(app_id, app_secret, scope="manage_pages")
## Get a page access token for a page
page_token = getPageToken(page, token)
## Get page insights
getInsights(page, token=page_token, metric = "page_impressions")

## End(Not run)
```

---

getPost   *Extract information about a public Facebook post*

Description

getPost retrieves information about a public Facebook post, including list of comments and likes.

Usage

```
getPost(post, token, n = 500, comments = TRUE, likes = (!reactions),
  reactions = FALSE, n.likes = n, n.comments = n, n.reactions = n,
  api = NULL)
```

Arguments

post	A post ID
token	Either a temporary access token created at https://developers.facebook.com/tools/explorer or the OAuth token created with fbOAuth.
n	numeric, maximum number of comments and likes to return.
comments	logical, default is TRUE, which will return data frame with comments to the post.
likes	logical, default is TRUE unless reactions is true, which will return data frame with likes for the post.
reactions	logical, default is FALSE, which will return data frame with reactions (like, love, etc) for the post
n.likes	numeric, maximum number of likes to return. Default is n.
n.comments	numeric, maximum number of comments to return. Default is n.
n.reactions	numeric, maximum number of reactions to return. Default is n.
api	API version. e.g. "v2.8". NULL is the default.

Details

getPost returns a list with up to four components: post, likes, comments, and reactions. post contains information about the post: author, creation date, id, counts of likes, comments, and shares, etc. likes is a data frame that contains names and Facebook IDs of all the users that liked the post. comments is a data frame with information about the comments to the post (author, message, creation time, id). To download also the replies to specific comments, see getCommentReplies. Note that the total number of comments may be different from the number report in comments_count if some comments have been deleted.

Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

See Also

getUsers, getPage, fbOAuth

Examples

```
## Not run:
## See examples for fbOAuth to know how token was created.
## Getting information about Facebook's Facebook Page
load("fb_oauth")
fb_page <- getPage(page="facebook", token=fb_oauth)
## Getting information and likes/comments about most recent post
post <- getPost(post=fb_page$id[1], n=2000, token=fb_oauth)

## End(Not run)
```

---

getReactions   *Extract total count of reactions to one or more Facebook posts*

Description

getReactions retrieves information from a single or multiple posts, returning the total count of reactions of each type (like, love, haha, wow, sad, angry).

Usage

```
getReactions(post, token, verbose = TRUE, api = NULL)
```

Arguments

post	A post ID, or a vector of post IDs
token	Either a temporary access token created at https://developers.facebook.com/tools/explorer or the OAuth token created with fbOAuth.
verbose	logical, default is TRUE, which will print additional information on the console.
api	API version. e.g. "v2.8". NULL is the default.

Details

The solution implemented here is based on this Stack Overflow response: http://stackoverflow.com/questions/36930414/how-can-i-get-facebook-graph-api-reaction-summary-count-separately

Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

See Also

[getPage](#), [getPost](#)

Examples

```
## Not run:
## See examples for fbOAuth to know how token was created.
## Getting information about Facebook's Facebook Page
load("fb_oauth")
fb_page <- getPage(page="facebook", token=fb_oauth)
## Getting reactions for most recent post
post <- getReactions(post=fb_page$id[1], token=fb_oauth)

## End(Not run)
```

---

getShares   *Extract list of users who publicly shared a public Facebook post*

Description

getShares retrieves a list of posts that correspond to shares of a post on a public Facebook page. Only public posts by users who have granted authorization to the app used to authenticate.

Usage

```
getShares(post, token, n = 100)
```

Arguments

post	A post ID
token	Either a temporary access token created at https://developers.facebook.com/tools/explorer or the OAuth token created with fbOAuth.
n	numeric, maximum number of shares to return.

Details

getShares returns a data frame with four variables: from_name (the name of the user who shared the post), from_id (the ID of the user who shared the post), shared_time (the time at which the post was shared), and id (the ID of the new post).

For more information on why not all shared posts are returned, see here: https://developers.facebook.com/bugs/1404733043148335/

Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

See Also

getPage, getPost

Examples

```
## Not run:
## See examples for fbOAuth to know how token was created.
## Getting information about Facebook's Facebook Page
load("fb_oauth")
fb_page <- getPage(page="facebook", token=fb_oauth)
## Getting shares of most recent post
shares <- getShares(post=fb_page$id[1], n=2000, token=fb_oauth)

## End(Not run)
```

---

getUsers   *Extract information about one or more Facebook users*

Description

getUsers retrieves public information about one or more Facebook users.

After version 2.0 of the Facebook API, only id, name, and picture are available through the API. All the remaining fields will be missing.

Usage

```
getUsers(users, token, private_info = FALSE)
```

Arguments

users	A vector of user IDs.
token	Either a temporary access token created at https://developers.facebook.com/tools/explorer or the OAuth token created with fbOAuth.

private_info   If FALSE, will return only information that is publicly available for all users (name, gender, locale, profile picture). If TRUE, will return additional information for users who are friends with the authenticated user: birthday, location, hometown, and relationship status. Note that these fields will ONLY be returned for friends and when the version of the token that is used to query the API is 1.0. For other users, they will be NA, even if they are visible on Facebook via web.

Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>

See Also

[getFriends](#), [getPost](#), [searchFacebook](#)

Examples

```
## Not run:
## See examples for fbOAuth to know how token was created.
## Getting information about the authenticated user
 load("fb_oauth")
fb <- getUsers("me", token=fb_oauth)
fb$username

## End(Not run)
```

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searchFacebook   *Search public posts that mention a string*

Description

searchFacebook retrieves public status updates that mention a given keyword

Usage

```
searchFacebook(string, token, n = 200, since = NULL, until = NULL)
```

Arguments

string   string or string vector containing keywords to search. Note that the returned results will contain any of the keywords. It is not possible to search for status updates that include all of the keywords.

token   An OAuth token created with fbOAuth. Only tokens created for version 1.0 of the Facebook Graph API will return results.

n   Maximum number of posts to return.

| since | A UNIX timestamp or strtotime data value that points to the start of the time range to be searched. For more information on the accepted values, see: `http: //php.net/manual/en/function.strtotime.php` |
| until | A UNIX timestamp or strtotime data value that points to the end of the time range to be searched. For more information on the accepted values, see: `http: //php.net/manual/en/function.strtotime.php` |

Details

Note: Public post search was deprecated with version 2.0 of the Facebook Graph API, and therefore this function will no longer work. For more information about these changes, go to: `https:// developers.facebook.com/docs/apps/changelog`

The function will only work for OAuth tokens generated with version 1.0 of the API, which can no longer be created.

The search is performed also on the text of the comments too, which explains why some of the returned messages do not mention the string that is being searched.

Note that only messages up to around two weeks old or less can be returned.

Author(s)

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See Also

`fbOAuth`

Examples

```
## Not run:
## Searching 100 public posts that mention "facebook"
posts <- searchFacebook( string="facebook", token=fb_oauth, n=100 )
## Searching 100 public posts that mention "facebook" from yesterday
posts <- searchFacebook( string="facebook", token=fb_oauth, n=100,
   since = "yesterday 00:00", until = "yesterday 23:59" )

## End(Not run)
```

---

searchGroup   *Find Facebook ID of a group*

Description

Use `searchGroup` in combination with `getGroup` to scrape public posts on Facebook groups.

Usage

```
searchGroup(name, token, api = NULL)
```

Arguments

name	Name of Facebook group (in URL)
token	Either a temporary access token created at https://developers.facebook.com/tools/explorer or the OAuth token created with fbOAuth.
api	API version. e.g. "v2.8". NULL is the default.

Examples

```
## Not run:
## Find Facebook ID for R-Users Facebook group
load("fb_oauth")
ids <- searchGroup(name="rusers", token=fb_oauth)
 ids[1,] # id = 18533493739
## Downloading posts from R-Users Facebook group
 group <- getGroup(group_id=18533493739, token=fb_oauth)
## Downloading posts from R-Users Facebook group in January 2013
 group <- getGroup(group_id=18533493739, token=fb_oauth,
since='2013/01/01', until='2013/01/31')

## End(Not run)
```

---

searchPages   *Search pages that mention a string*

Description

searchPages retrieves public pages that mention a given keyword

Usage

```
searchPages(string, token, n = 200)
```

Arguments

string	string or string vector containing keywords to search. When searching using multiple keywords, the returned results will be pages whose name contains all the keywords.
token	Either a temporary access token created at https://developers.facebook.com/tools/explorer or the OAuth token created with fbOAuth.
n	Maximum number of pages to return.

Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>, Joel Gombin <joel.gombin@gmail.com>

See Also

fbOAuth, searchFacebook

Examples

```
## Not run:
## See examples for fbOAuth to know how token was created.
## Searching 100 public pages that mention "facebook"
 load("fb_oauth")
pages <- searchPages( string="facebook", token=fb_oauth, n=100 )

## End(Not run)
```

---

updateStatus   *Update Facebook status from R*

Description

updateStatus sends a status update that will be displayed on the Facebook profile of the authenticated user.

Usage

```
updateStatus(text, token, link = NULL)
```

Arguments

text	string, text of the status update
token	Either a temporary access token created at https://developers.facebook.com/tools/explorer or the OAuth token created with fbOAuth. It needs to have extended permissions in order to successfully post to the Facebook profile.
link	string, URL of link to be added to status update

Author(s)

Pablo Barbera <pablo.barbera@nyu.edu>, Zakharov Kyrylo (https://github.com/Amice13)

See Also

getUsers, getPost

Examples

```
## Not run:
## See examples for fbOAuth to know how token was created.
 load("fb_oauth")
 updateStatus("this is just a test", token=fb_oauth)

## End(Not run)
```

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