

Package: FlickrAPI (via r-universe)

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Title Access to Flickr API

Version 0.1.0.1

Description Provides an interface to the Flickr API
<<https://www.flickr.com/services/api/>> and allows R users to
download data on Flickr.

License GPL (>= 3)

Depends R (>= 3.1)

Imports htr2, janitor, rlang, utils

Suggests knitr, rmarkdown

VignetteBuilder knitr

Encoding UTF-8

Roxygen list(markdown = TRUE)

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Repository <https://elipousson.r-universe.dev>

RemoteUrl <https://github.com/koki25ando/FlickrAPI>

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FlickrAPIRequest	<i>Request data from the Flickr API</i>
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Description

Request data from the Flickr API using the provided method, API key, and any additional values passed to `httr2::req_url_query()`.

Usage

```
FlickrAPIRequest(
  method = NULL,
  api_key = NULL,
  format = "json",
  simplifyVector = TRUE,
  check_type = FALSE,
  ...
)
```

Arguments

<code>method</code>	Flickr API method to use for request.
<code>api_key</code>	Flickr API key. If <code>api_key</code> is <code>NULL</code> , the function uses <code>getFlickrAPIKey()</code> to use the environment variable "FLICKR_API_KEY" as the key.
<code>format</code>	Format parameter passed to <code>httr2::req_url_query()</code>
<code>simplifyVector</code>	Default to <code>TRUE</code> , passed to <code>httr2::resp_body_json()</code>
<code>check_type</code>	Default to <code>FALSE</code> , passed to <code>httr2::resp_body_json()</code>
<code>...</code>	Additional parameters passed to <code>httr2::req_url_query()</code>

getExif	<i>Get EXIF data for a Flickr photo.</i>
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Description

Return a data of EXIF data for a given photo. The calling user must have permission to view the photo.

Usage

```
getExif(api_key = NULL, photo_id = NULL, secret = NULL)

get_exif(api_key = NULL, photo_id = NULL, secret = NULL)
```

Arguments

api_key	Flickr API key. If api_key is NULL, the function uses getFlickrAPIKey() to use the environment variable "FLICKR_API_KEY" as the key.
photo_id	The id of the photo to fetch EXIF information for.
secret	The secret for the photo. If the correct secret is passed then permissions checking is skipped. This enables the 'sharing' of individual photos by passing around the id and secret.

Value

A data.frame with EXIF information for an image with the provided photo_id.

See Also

- Flickr API Documentation: [flickr.photos.getExif](#)

Examples

```
## Not run:
getExif(
  api_key = get_flickr_api_key(),
  photo_id = "45961963324"
)

## End(Not run)
```

getHotTags

Get a data frame of hot tags for a given time period.

Description

Get a data frame of hot tags for a given time period.

Usage

```
getHotTags(api_key = NULL, period = c("day", "week"), count = 20)
```

```
get_hot_tags(api_key = NULL, period = c("day", "week"), count = 20)
```

Arguments

api_key	Flickr API key. If api_key is NULL, the function uses getFlickrAPIKey() to use the environment variable "FLICKR_API_KEY" as the key.
period	The period for which to fetch hot tags. Valid values are day or week. Defaults to day
count	The number of tags to return. Defaults to 20. Maximum allowed value is 200.

Value

This function a data frame of hot tags for the given period

See Also

- Flickr API Documentation: [flickr.tags.getHotList](#)

Examples

```
## Not run:
getHotTags(
  api_key = get_flickr_api_key(),
  period = "day",
  count = 20
)

## End(Not run)
```

getPhotoInfo

Get available information for a Flickr photo.

Description

R access to photo information of photos posted on Flickr via Flickr API.

Usage

```
getPhotoInfo(
  api_key = NULL,
  photo_id,
  output = c("location", "date", "url", "tags")
)

get_photo_info(
  api_key = NULL,
  photo_id,
  output = c("location", "date", "url", "tags")
)
```

Arguments

api_key	Flickr API key. If api_key is NULL, the function uses getFlickrAPIKey() to use the environment variable "FLICKR_API_KEY" as the key.
photo_id	The id of the photo to get information for.
output	Output data type. Supported options include "all", "location", "date", "url" or "tags". If output = "all", the function returns a list with all available data. Otherwise the function returns a data frame.

Value

This function returns data of specific photo's information.

See Also

- Flickr API Documentation: [flickr.photos.getInfo](#)

Examples

```
## Not run:
getPhotoInfo(
  api_key = get_flickr_api_key(),
  photo_id = "30484882493",
  output = "location"
)

## End(Not run)
```

getPhotos

Get Flickr user photos or a user's favorite photos

Description

Returns photos from the given user's photo stream. Only photos visible to the calling user will be returned.

Usage

```
getPhotos(user_id = NULL, img_size = "s", extras = NULL, api_key = NULL, ...)
```

```
get_photos(user_id = NULL, img_size = "s", extras = NULL, api_key = NULL, ...)
```

```
getFavePhotos(
  user_id = NULL,
  img_size = "s",
  extras = NULL,
  fave_date = NULL,
  public = TRUE,
  api_key = NULL,
  page = NULL,
  per_page = 100,
  ...
)
```

```
get_fave_photos(
  user_id = NULL,
  img_size = "s",
```

```

    extras = NULL,
    fave_date = NULL,
    public = TRUE,
    api_key = NULL,
    page = NULL,
    per_page = 100,
    ...
)

```

Arguments

<code>user_id</code>	The NSID of the user whose photos to return. A value of "me" return the calling user's photos.
<code>img_size</code>	A character string with the abbreviation for one or more image sizes ("sq", "t", "s", "q", "m", "n", "z", "c", "l", or "o"). If a single <code>img_size</code> is provided the url, width, and height columns are renamed (e.g. <code>img_url</code> instead of <code>url_sq</code>) and an <code>img_asp</code> column is added to the results; defaults to NULL.
<code>extras</code>	A vector of extra information to fetch for each returned record. Currently supported fields are: <code>c("description", "license", "date_upload", "date_taken", "owner_name", "icon_server", "original_format", "last_update", "geo", "tags", "machine_tags", "o_dims", "views", "media", "path_alias", "url_sq", "url_t", "url_s", "url_q", "url_m", "url_n", "url_z", "url_c", "url_l", "url_o")</code>
<code>api_key</code>	Flickr API key. If <code>api_key</code> is NULL, the function uses <code>getFlickrAPIKey()</code> to use the environment variable "FLICKR_API_KEY" as the key.
<code>...</code>	Arguments passed on to <code>getPhotoSearch</code>
<code>tags</code>	A vector of tags to search for.
<code>license_id</code>	The license id for photos. For possible values, see the Flickr API method <code>flickr.photos.licenses.getInfo</code> or see details for more information. If <code>license_id</code> is provided, "license" is added to extras.
<code>sort</code>	Order to sort returned photos. The possible values are: "date-posted-asc", "date-posted-desc", "date-taken-asc", "date-taken-desc", "interestingness-desc", "interestingness-asc", and "relevance" The trailing "-asc" or "-desc" indicator for sort direction is optional when using the desc parameter.
<code>desc</code>	If TRUE, sort in descending order by the selected sort variable; defaults to FALSE.
<code>bbox</code>	A object of class <code>bbox</code> or a numeric vector with values for <code>xmin</code> , <code>ymin</code> , <code>xmax</code> and <code>ymax</code> representing the bottom-left corner of the box and the top-right corner.
<code>date</code>	Date taken in any format supported by <code>as.POSIXlt()</code> . If <code>date</code> is a length 1 vector, it is treated as a minimum date taken with the maximum set one day later. If <code>date</code> has a length greater than 1, the minimum and maximum date from the vector are used. If <code>date</code> is provided, "date_taken" is added to extras.
<code>upload_date</code>	Date uploaded in any format supported by <code>as.POSIXlt()</code> . If <code>upload_date</code> is a length 1 vector, it is treated as a minimum date uploaded with the maximum set one day later. If <code>date</code> has a length greater than 1, the

	minimum and maximum date from the vector are used. If date is provided, "date_upload" is added to extras.
fave_date	Date favorited in any format supported by <code>as.POSIXlt()</code> . If fave_date is a length 1 vector, it is treated as a minimum date uploaded with the maximum set one day later. If fave_date has a length greater than 1, the minimum and maximum date from the vector are used. If date is provided, "date_upload" is added to extras.
public	If TRUE, get public favorites (no authentication needed). If FALSE, get all favorites (requires authentication for access).
page	Number specifying which search results page to return. Default is page 1 of results returned.
per_page	Number specifying how many results per page to return. Default 100 results per page. Maximum of 250 if bbox provided or 500 otherwise.

Details

For `getFavePhotos()` the provided user_id may need to be the NSID code or the user name rather than the typical user id due to some inconsistencies in the Flickr API.

Value

A data.frame with basic information on photos.

See Also

- Flickr API documentation: [flickr.favorites.getPublicList](#) or [flickr.favorites.getList](#)

Examples

```
## Not run:
getPhotos(
  api_key = get_flickr_api_key(),
  user_id = "141696738@N08"
)

## End(Not run)
```

getPhotoSearch

Search for photos on Flickr by user id, tags, license, or bounding box

Description

Use the Flickr Search API to return pages of photos sorted by date posted, date taken, interestingness, and relevance. Optional search parameters including spatial bounding box, user id, tags, and image license.

Usage

```
getPhotoSearch(
  api_key = NULL,
  user_id = NULL,
  tags = NULL,
  license_id = NULL,
  sort = "date-posted",
  desc = FALSE,
  bbox = NULL,
  img_size = NULL,
  date = NULL,
  upload_date = NULL,
  extras = NULL,
  per_page = 100,
  page = NULL,
  ...
)
```

```
get_photo_search(
  api_key = NULL,
  user_id = NULL,
  tags = NULL,
  license_id = NULL,
  sort = "date-posted",
  desc = FALSE,
  bbox = NULL,
  img_size = NULL,
  date = NULL,
  upload_date = NULL,
  extras = NULL,
  per_page = 100,
  page = NULL,
  ...
)
```

Arguments

<code>api_key</code>	Flickr API key. If <code>api_key</code> is <code>NULL</code> , the function uses <code>getFlickrAPIKey()</code> to use the environment variable "FLICKR_API_KEY" as the key.
<code>user_id</code>	The NSID of the user with photos to search. If this parameter is <code>NULL</code> passed then all public photos will be searched.
<code>tags</code>	A vector of tags to search for.
<code>license_id</code>	The license id for photos. For possible values, see the Flickr API method flickr.photos.licenses.getInfo or see details for more information. If <code>license_id</code> is provided, "license" is added to extras.
<code>sort</code>	Order to sort returned photos. The possible values are: "date-posted-asc", "date-posted-desc", "date-taken-asc", "date-taken-desc", "interestingness-desc", "interestingness-

	asc", and "relevance" The trailing "-asc" or "-desc" indicator for sort direction is optional when using the desc parameter.
desc	If TRUE, sort in descending order by the selected sort variable; defaults to FALSE.
bbox	A object of class bbox or a numeric vector with values for xmin, ymin, xmax and ymax representing the bottom-left corner of the box and the top-right corner.
img_size	A character string with the abbreviation for one or more image sizes ("sq", "t", "s", "q", "m", "n", "z", "c", "l", or "o"). If a single img_size is provided the url, width, and height columns are renamed (e.g. img_url instead of url_sq) and an img_asp column is added to the results; defaults to NULL.
date	Date taken in any format supported by <code>as.POSIXlt()</code> . If date is a length 1 vector, it is treated as a minimum date taken with the maximum set one day later. If date has a length greater than 1, the minimum and maximum date from the vector are used. If date is provided, "date_taken" is added to extras.
upload_date	Date uploaded in any format supported by <code>as.POSIXlt()</code> . If upload_date is a length 1 vector, it is treated as a minimum date uploaded with the maximum set one day later. If date has a length greater than 1, the minimum and maximum date from the vector are used. If date is provided, "date_upload" is added to extras.
extras	A vector of extra information to fetch for each returned record. Currently supported fields are: c("description", "license", "date_upload", "date_taken", "owner_name", "icon_server", "original_format", "last_update", "geo", "tags", "machine_tags", "o_dims", "views", "media", "path_alias", "url_sq", "url_t", "url_s", "url_q", "url_m", "url_n", "url_z", "url_c", "url_l", "url_o")
per_page	Number specifying how many results per page to return. Default 100 results per page. Maximum of 250 if bbox provided or 500 otherwise.
page	Number specifying which search results page to return. Default is page 1 of results returned.
...	Dots can be used to pass any additional arguments supported by the flickr.photos.search API method excluding license, min_taken_date, max_taken_date, min_upload_date, and max_upload_date which are supported by other named parameters. Dots also support two legacy parameters: licence_id (variant spelling for license_id) and geo (set geo = TRUE to include "geo" in extras).

Details

License id options:

license_id can be an integer from 0 to 10 or a corresponding license code including:

- "c" (All Rights Reserved),
- "by-bc-sa" (Attribution-NonCommercial-ShareAlike),
- "by-nc" (Attribution-NonCommercial),
- "by-nc-nd" (Attribution-NonCommercial-NoDerivs),
- "by" (Attribution),
- "by-sa" (Attribution-ShareAlike),

- "by-nd" (Attribution-NoDerivs),
- "nkc" (No known copyright restrictions),
- "pd-us" (United States Government Work),
- "cc0" (Public Domain Dedication),
- or "pd" (Public Domain Mark).

Value

This function returns data of specific photos matching search parameters.

See Also

- Flickr API Documentation: [flickr.photos.search](https://www.flickr.com/photos/search/)

Examples

```
## Not run:
# Search for photos tagged "cats" and "dogs"
# Return images in descending order of date taken
getPhotoSearch(
  api_key = get_flickr_api_key(),
  sort = "date-taken-desc",
  tags = c("cats", "dogs")
)

## End(Not run)
## Not run:
# Search for photos uploaded to the NPS Grand Canyon user account.
# Return extra fields including the date taken and square image URL.
getPhotoSearch(
  api_key = get_flickr_api_key(),
  user_id = "grand_canyon_nps",
  extras = c("date_taken", "url_sq")
)

## End(Not run)
## Not run:
# Search for photos tagged "panda" in the area of Ueno Zoo, Tokyo, Japan
getPhotoSearch(
  api_key = get_flickr_api_key(),
  tags = "panda",
  bbox = c(139.7682226529, 35.712627977, 139.7724605432, 35.7181464141),
  extras = c("geo", "owner_name", "tags")
)

## End(Not run)
```

setFlickrAPIKey	<i>Set and get a Flickr API key to/from environment variables.</i>
-----------------	--

Description

Set and get a Flickr API key to/from environment variables.

Get Flickr API key from environment variables

Usage

```
setFlickrAPIKey(api_key, overwrite = FALSE, install = FALSE)
```

```
set_flickr_api_key(api_key, overwrite = FALSE, install = FALSE)
```

```
getFlickrAPIKey(api_key = NULL)
```

```
get_flickr_api_key(api_key = NULL)
```

Arguments

api_key	Flickr API key
overwrite	If TRUE, overwrite existing token; Default: FALSE
install	If TRUE, install token for use in future sessions; Default: FALSE

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