Package ‘imguR’

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**Description**

This package enables intuitive uploading of plots created in R to the free image hosting service [Imgur](http://www.imgur.com) simply, quickly, and intuitively via the [Imgur v3 API](http://api.imgur.com). The package is a complete client library for the Imgur API, meaning that one can also delete, favorite, and comment on images, as well as organize them in albums and galleries. By default, all images are loaded to Imgur anonymously. Optionally, using an OAuth2.0 login, users can also gain fully access to their own Imgur user account.

**Author(s)**

Thomas J. Leeper and Aaron Statham

Maintainer: Thomas J. Leeper <thosjleeper@gmail.com>

**References**

[Imgur API Documentation](http://api.imgur.com)

---

**account**

*Retrieve user account details*

**Description**

Retrieve details of a user’s account

**Usage**

```r
account(account = 'me', ...)  
account_verified(...)  
send_verification(...)```

**Arguments**

- `account` A username, by default the current user (if token is supplied). `account_verified` and `send_verification` require a token argument.
- `...` Other arguments passed to HTTP request functions, for example: `token` (an OAuth2.0 token) or `key` (an API key, used by default).
account_albums

Details
account returns basic details of a user account. account_verified indicates whether one’s user account has been email-verified. send_verification sends a verification email to the user’s email account.

Value
An object of class “imgur_account”.

Author(s)
Thomas J. Leeper

Examples
## Not run:
# get account details for a user account
account('thosjleeper')

# check account verification
tkn <- imgur_login()
if(!account_verified(token = tkn))
   send_verification(token = tkn)
account(token = tkn)
## End(Not run)

account_albums

Retrieve user albums

Description
Retrieve details of a user’s albums

Usage

account_albums(account = 'me', ids = TRUE, ...)

account_album_count(account = 'me', ...)

Arguments

account A username, by default the current user (if token is supplied).
ids A logical indicating whether to only return album IDs.
... Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).
account_comments

Details

account_albums retrieves details of a user’s albums. By default (and if a token argument is supplied), the current user’s albums are returned. Specifying another username is also possible with or without a token. account_album_count returns just the number of albums, which is useful for handling pagination of the results.

Value

For account_albums, a list of objects of class “imgur_albums”. For account_album_count, a number.

Author(s)

Thomas J. Leeper

Examples

```r
## Not run:
account_albums('thosjleeper')

## End(Not run)
```

account_comments  Retrieve user albums

Description

Retrieve details of a user’s albums

Usage

```r
account_comments(account = 'me', ids = FALSE, ...)
account_comment_count(account = 'me', ...)
```

Arguments

```r
account  A username, by default the current user (if token is supplied).
ids      A logical indicating whether to only return album IDs.
...      Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).
```

Details

account_comments retrieves details of a user’s comments. By default (and if a token argument is supplied), the current user’s comments are returned. Specifying another username is also possible with or without a token. account_comment_count returns just the number of comments, which is useful for handling pagination of the results.
account_favorites

Value

For account_comments, an object of class “imgur_comment”. For account_comment_count, a number.

Author(s)

Thomas J. Leeper

Examples

```r
## Not run:
account_comments('thosjleeper')
## End(Not run)
```

account_favorites  Retrieve user favorites

Description

Retrieve details of a user's favorite images

Usage

```r
account_favorites(account = 'me', gallery = FALSE, ...)
```

Arguments

- **account**: A username, by default the current user (if token is supplied).
- **gallery**: A logical indicating whether to only return gallery favorites.
- **...**: Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

Details

account_favorites retrieves details of a user's favorites. By default (and if a token argument is supplied), the current user's favorites are returned. Specifying another username is also possible with or without a token.

Value

For account_favorites, an object of class “imgur_gallery_image” or “imgur_gallery_album”.

Author(s)

Thomas J. Leeper
account_gallery

Examples

## Not run:
account_favorites('thosjleeper')

## End(Not run)

account_gallery  User gallery profile

Description

Retrieve details of a user's gallery profile

Usage

account_gallery(account = 'me', ...)

Arguments

account  A username, by default the current user (if token is supplied). account_verified and send_verification require a token argument.
...

Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

Details

account_gallery returns basic details of a user's gallery profile, including counts of comments, likes, submissions, and trophies.

Value

An object of class “imgur_gallery_profile”.

Author(s)

Thomas J. Leeper

Examples

## Not run:
tkn <- imgur_login()
account_gallery(token = tkn)

## End(Not run)
account_images  Retrieve user images

Description

Retrieve details of a user’s images

Usage

account_images(account = 'me', page = NULL, ids = TRUE, ...)

account_image_count(account = 'me', ...)

Arguments

account  A username, by default the current user (if token is supplied).
page  Optionally, a page of results to return.
ids  A logical indicating whether to only return image IDs.
...  Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

Details

account_images retrieves details of a user’s images. By default (and if a token argument is supplied), the current user’s images are returned. Specifying another username is also possible with or without a token. account_image_count returns just the number of images, which is useful for handling pagination of the results.

Value

For account_images, an object of class “imgur_image”. For account_image_count, a number.

Author(s)

Thomas J. Leeper

Examples

## Not run:
account_images('thosjleepere')

## End(Not run)
account_settings  Retrieve and modify account settings

Description

Retrieve and modify account settings

Usage

```r
account_settings(bio = NULL,
    public_images = NULL,
    messaging_enabled = NULL,
    album_privacy = NULL,
    accepted_gallery_terms = NULL,
    ...
)
```

Arguments

- **bio**  The biography of user, which is displayed in the gallery profile page.
- **public_images**  A logical indicating whether images public by default.
- **messaging_enabled**  A logical indicating whether private messages are allowed.
- **album_privacy**  The default privacy for albums. One of “public”, “hidden”, or “secret”.
- **accepted_gallery_terms**  A logical indicating whether the user agrees to the Imgur gallery terms.
- **...**  Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token), which is required.

Details

If none of the named arguments (other than token) are specified, this retrieves settings of the account. If any of the named arguments are specified, those parameters are modified.

Value

If not modifying settings, an object of “imgur_account_settings”, otherwise an object of “imgur_basic”.

Author(s)

Thomas J. Leeper
add_album_images

Examples

## Not run:
```
tkn <- imgur_login()

# retrieve settings
account_settings(token = tkn)

# set albums to default to public
account_settings(album_privacy = 'public', token = tkn)
```

## End(Not run)

---

## Description

Add images to or remove images from an album

## Usage

```
add_album_images(album, id, ...)
remove_album_images(album, id, ...)
set_album_images(album, id, ...)
```

## Arguments

- `album` An album ID or object of class "imgur_album".
- `id` A vector of one or more image IDs to add to the album or a list of objects of class "imgur_image".
- `...` Other arguments passed to HTTP request functions, for example: `token` (an OAuth2.0 token), which is required.

## Details

- `add_album_images` adds the specified images to the album.
- `set_album_images` removes all current images from the album and adds the specified images to the album.
- `remove_album_images` removes the specified images from the album.

## Value

An object of class "imgur_basic".
add_gallery_images

Author(s)
Thomas J. Leeper

See Also
create_album
update_album

description
Add gallery images

Usage
add_gallery_images(album = NULL, id = NULL, title = NULL, ...)

Arguments
album An album ID or object of class “imgur_album” to add to the gallery.
id An image ID or an object of class “imgur_image” to add to the gallery.
title A title for the image
... Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token), which is required.

details
This function adds the specified image or album to the gallery. title is required by the API. If NULL, the title is drawn from a call to get_album or get_image.

Value
An object of class “imgur_gallery_image” or “imgur_gallery_album”.

Author(s)
Thomas J. Leeper

See Also
remove_gallery_image
**Authentication**

**Imgur API Authentication**

**Description**

Description of Imgur API authentication options

**Details**

All calls to the Imgur.com API must be authenticated. imguR provides two authentication methods: anonymous API key authentication (the default) and OAuth2.0 authentication.

By default, all calls are made anonymously. Most operations can be performed in this way. The package provides an API key for performing operations in this way. This default key can be over-ridden by passing `key` argument through any function. This may be useful if you intend to make a large number of anonymous requests using your own registered application.

Alternatively, calls can be made with a user-specific OAuth2.0 token. This token is generated using `imgur_login` in an interactive session. The token allows calls to be made to a specific Imgur.com user account, which eases making subsequent changes to uploaded images (e.g., updating their metadata, adding images to an album, or deleting images). The token can then be passed using the `token` argument to any function.

Note: if both `key` and `token` arguments are supplied to a function, the `token` argument always takes precedence.

**References**

https://api.imgur.com/oauth2

**See Also**

`imgur_login`

**Examples**

```r
# Not run:
# OAuth2.0-authenticated use

# interactive OAuth login
tkn <- imgur_login()

# upload a simple graph
i <- imgur(token = tkn)
hist(rnorm(100))
u <- imgur_off(i)

# pass the 'imgur_image' object to 'update_image':
update_image(u, title = 'My graph', description = 'A simple graph', token = tkn)

# or, pass just the image id:
```
update_image(u$id, title = 'My graph', description = 'A simple graph', token = tkn)

# periodically refresh token
tkn$refresh()

## End(Not run)

## Not run:
# anonymous use

# upload a simple graph
i <- imgur()
hist(rnorm(100))
u <- imgur_off(i)

# pass just the image deletehash:
update_image(u$deletehash, title = 'My graph', description = 'A simple graph')

## End(Not run)

block_sender

---

**block_sender**

*Block a user*

---

**Description**

Block a user from sending messages

**Usage**

```r
block_sender(username, ...)
```

**Arguments**

- **username** A character string containing an Imgur username.
- **...** Other arguments passed to HTTP request functions, for example: `token` (an OAuth2.0 token), which is required.

**Details**

Block an Imgur user from sending messages.

**Value**

An object of class “imgur_basic”.

**Author(s)**

Thomas J. Leeper
Examples

```r
## Not run:
tkn <- imgur_login()
block_sender("thosjleeper", token = tkn)
## End(Not run)
```

create_album  
Create album

Description

Create an album

Usage

```r
create_album(id = NULL,
             title = NULL, description = NULL,
             privacy = NULL, layout = NULL, cover_id = NULL, ...)
```

Arguments

- **id**: A vector of one or more image IDs to add to the album or a list of objects of class "imgur_image".
- **title**: Optionally, an album title.
- **description**: Optionally, an album description.
- **privacy**: The privacy for the album. One of "public", "hidden", or "secret".
- **layout**: The layout for the album. One of "blog", "grid", "horizontal", or "vertical".
- **cover_id**: An image ID or an object of class "imgur_image".
- **...**: Other arguments passed to HTTP request functions, for example: `token` (an OAuth2.0 token) or `key` (an API key, used by default).

Details

Creates an Imgur album with the specified images and metadata. All options are optional. Images can only be added to anonymous albums with `create_album`, not after the fact. Albums created with an OAuth2.0 authentication token can be modified in any way.

Value

An object of class "imgur_basic".

Author(s)

Thomas J. Leeper
create_comment

See Also

update_album
add_album_images
remove_album_images
set_album_images

Examples

## Not run:

```r
i <- imgur()
hist(rnorm(20))
img <- imgur_off(i)
create_album(id = img,
    title = 'My first Imgur album',
    description = 'A simple album',
    privacy = 'hidden',
    layout = 'grid',
    cover_id = img)
```

## End(Not run)

---

create_comment  Create a comments

Description

Create a comment on an image

Usage

```r
create_comment(id, comment, parent = NULL, ...)
```

Arguments

- **id**: An image ID or an object of class “imgur_image”.
- **comment**: A character string containing the comment.
- **parent**: An optional comment ID to reply to.
- **...**: Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token), which is required.

Details

account_favorites retrieves details of a user’s favoriates. By default (and if a token argument is supplied), the current user’s favorites are returned. Specifying another username is also possible with or without a token.
create_message

Value
For account_favorites, an object of class “imgur_gallery_image” or “imgur_gallery_album”.

Author(s)
Thomas J. Leeper

See Also
get_comment
delete_comment

Examples
## Not run:
tkn <- imgur_login()

# comment on an image
cmt <- create_comment("vSXfU46", "This is a test comment", token = tkn)

# create a reply comment
create_comment("vSXfU46", "This is a test comment", parent = cmt, token = tkn)
## End(Not run)

create_message | Create a comment

Description
Create a comment on an image

Usage
create_message(recipient, body, ...)

Arguments
  recipient | A character string containing the recipient’s Imgur username.
  body      | A character string containing the message.
  ...       | Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token), which is required.

Details
Send a message to another Imgur user.
delete_album

Value
An object of class “imgur_basic”.

Author(s)
Thomas J. Leeper

See Also
get_conversations
delete_conversation

Examples

## Not run:
tkn <- imgur_login()
create_message("thosjleeper", "This is a test comment from imgur", token = tkn)

## End(Not run)

description
Delete an album

Usage
delete_album(album, ...)

Arguments

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<th>Argument</th>
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</tr>
</thead>
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<tr>
<td>album</td>
<td>An album ID or object of class “imgur_image”. If no token is supplied, id must be a deletehash from the original upload_image response.</td>
</tr>
<tr>
<td>...</td>
<td>Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).</td>
</tr>
</tbody>
</table>

Details
Delete an album.

Value
An object of class “imgur_basic”.
Author(s)

Thomas J. Leeper

See Also

create_album
favorite_album
update_album

Examples

```r
## Not run:
# using an OAuth token
tkn <- imgur_login()
a <- account_albums(token = tkn)
delete_album(a[[1]], token = tkn)
## End(Not run)
```

delete_comment

Delete a comment

Description

Delete a comment from an image

Usage

`delete_comment(comment, ...)`

Arguments

- `comment` A comment ID, perhaps returned by `create_comment`.
- `...` Other arguments passed to HTTP request functions, for example: `token` (an OAuth 2.0 token), which is required.

Details

Delete a comment.

Value

An object of class “imgur_basic”

Author(s)

Thomas J. Leeper
delete_conversation

See Also

get_comment
create_comment

Examples

## Not run:
tkn <- imgur_login()
cmt <- create_comment("vSXfU46", comment = 'This is a test comment."
delete_comment(cmt, token = tkn)

## End(Not run)

delete_conversation  Delete conversation

Description

Delete a conversation

Usage

delete_conversation(id, ...)

Arguments

id  A conversation ID, possibly returned by get_conversations.
...

Other arguments passed to HTTP request functions, for example: token (an
OAuth2.0 token), which is required.

Details

Deletes a conversation

Value

An object of class “imgur_basic”.

Author(s)

Thomas J. Leeper

See Also

get_conversations
create_message
delete_conversation
delete_image  Delete image

Description
Delete an image

Usage
delete_image(id, ...)

Arguments
id  An image ID or object of class “imgur_image”. If no token is supplied, id must be a deletehash from the original upload_image response.
...  Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

Details
Deletes an image.

Value
An object of class “imgur_basic”.

Author(s)
Thomas J. Leeper

See Also
upload_image
update_image

Examples
## Not run:
# using a deletehash, anonymously
u <- upload_image('file.png')
delete_image(u$deletehash)

# using an OAuth token
tkn <- imgur_login()
u <- upload_image('file.png', token = tkn)
delete_image(u, token = tkn)

## End(Not run)
**favorite_album**

**Favorite album**

---

**Description**

Favorite an album

**Usage**

```r
favorite_album(album, ...)
```

**Arguments**

- **album**: An album ID or object of class “imgur_album”.
- **...**: Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

**Details**

Favorites an album.

**Value**

An object of class “imgur_basic”.

**Author(s)**

Thomas J. Leeper

**Examples**

```r
## Not run:
tkn <- imgur_login()
favorite_album("cVsXX", token = tkn)

## End(Not run)
```
Description

Favorite an image

Usage

favorite_image(id, ...)

Arguments

id   An image ID or object of class “imgur_image”.
...

Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

Details

Favorities an image.

Value

An object of class “imgur_basic”.

Author(s)

Thomas J. Leeper

Examples

## Not run:
tkn <- imgur_login()
favorite_image("DgqMUeq", token = tkn)

## End(Not run)
get_album

Get album details and metadata, or images.

Usage

get_album(album, ...)

going_album_images(album, ...)

Arguments

album An album ID or object of class “imgur_album”.
...
Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

Details

Get album details and metadata, including images contained in the album.

Value

An object of class “imgur_album”.

Author(s)

Thomas J. Leeper

Examples

## Not run:
get_album("cVsXX")

going_album_images("cVsXX")

## End(Not run)
get_comment

Description

Get a comment (and, optionally, its replies).

Usage

get_comment(comment, replies = FALSE, ...)

Arguments

- **comment**: A comment ID, perhaps returned by `create_comment`.
- **replies**: A logical indicating whether to return replies to the comment, in addition to the comment itself.
- **...**: Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

Details

Retrives a comment and, optionally, any replies to that comment.

Value

An object of class “imgur_comment”

Author(s)

Thomas J. Leeper

See Also

- `create_comment`
- `delete_comment`
get_conversations

Description

Get a specific conversation or all conversations

Usage

get_conversations(id = NULL, ...)

Arguments

id A conversation ID. If NULL, all conversations are returned.
... Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token), which is required.

Details

Retrieves a named conversation, possibly returned by get_conversations, or all conversations.

Value

An object of class “imgur_message”.

Author(s)

Thomas J. Leeper

See Also

create_message
delete_conversation

Examples

## Not run:
tkn <- imgur_login()
get_conversations(token = tkn)

## End(Not run)
get_gallery  \hspace{1cm} Get gallery

Description

Get gallery details and metadata

Usage

get_gallery(section = 'hot', sort = 'viral', page = 0, 
    window = 'day', showViral = TRUE, ...)

Arguments

- section: One of “hot” (the default), “top”, or “user”.
- sort: One of “viral” (the default) or “time”.
- page: A page number of results between 0 and 50.
- window: If section == 'top', one of “day” (the default), “week”, “month”, “year”, or “all”.
- showViral: If section == 'user', a logical indicating whether show viral images.
- ...: Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

Details

Get gallery image details and metadata.

Value

An object of class “imgur_image”.

Author(s)

Thomas J. Leeper

See Also

- search_gallery
- get_gallery_image
- get_random_images
get_gallery_album

Examples

```r
## Not run:
get_gallery()

get_gallery('top', window = 'week')

## End(Not run)
```

get_gallery_album Get gallery album

Description

Get album details and metadata for an album in the gallery.

Usage

```r
get_gallery_album(album, ...)
```

Arguments

- `album` An album ID or object of class “imgur_album” or “imgur_gallery_album”.
- `...` Other arguments passed to HTTP request functions, for example: `token` (an OAuth2.0 token) or `key` (an API key, used by default).

Details

Get album details and metadata, for an album in the gallery. This is basically the same as “get_album”.

Value

An object of class “imgur_gallery_album”.

Author(s)

Thomas J. Leeper

See Also

- `get_album`
- `get_gallery`
- `search_gallery`
get_gallery_image

Description

Get gallery image details and metadata

Usage

get_gallery_image(id, ...)

Arguments

id
An image ID or object of class “imgur_image” or “imgur_gallery_image”.

... Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

Details

Get gallery image details and metadata. This is basically the same as get_image.

Value

An object of class “imgur_image”.

Author(s)

Thomas J. Leeper

See Also

gallery
search_gallery
get_image

Examples

## Not run:
s <- search_gallery(query = 'meme')
get_gallery_image(s[[1]])

## End(Not run)
get_image

Get image

Description

Get image details and metadata

Usage

get_image(id, ...)

Arguments

id An image ID or object of class “imgur_image”.
...

Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

Details

Get image details and metadata.

Value

An object of class “imgur_image”.

Author(s)

Thomas J. Leeper

See Also

plot.imgur_image

Examples

## Not run:
get_image("vSXfU46")

## End(Not run)
get_notifications

Description
Get a specific notification or all notifications

Usage
get_notifications(id = NULL, only_new = FALSE, ...)

Arguments
- **id**: A conversation ID. If NULL, all notifications (or all new notifications, depending on `only_new`) are returned.
- **only_new**: A logical indicating whether only new notifications should be returned. Default is FALSE.
- **...**: Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token), which is required.

Details
Retrieves a named notification, possibly returned by `get_notifications`, or all (new) notifications.

Value
An object of class “imgur_notification”.

Author(s)
Thomas J. Leeper

See Also
mark_notification

Examples
```r
## Not run:
kn <- imgur_login()
get_notifications(only_new = TRUE, token = kn)
## End(Not run)
```
Description

Get random images from the public gallery

Usage

get_random_images(page = 0, ...)

Arguments

page
A page number of results between 0 and 50.

... Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

Details

Get random images from the public gallery.

Value

An object of class “imgur_gallery_album”.

Author(s)

Thomas J. Leeper

See Also

get_gallery
search_gallery
get_gallery_image

Examples

## Not run:
get_random_images()

## End(Not run)
get_reddit_gallery

Get gallery

Description
Get gallery details and metadata

Usage
get_reddit_gallery(subreddit, sort = 'time', page = 0, window = 'day', ...)

Arguments
subreddit A character string containing the name of a sub-reddit.
sort One of “time” (the default) or “top”.
page A page number of results between 0 and 50.
window If sort == ‘top’, one of “day” (the default), “week”, “month”, “year”, or “all”.
... Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

Details
Get gallery image details and metadata for a sub-reddit gallery.

Value
An object of class “imgur_image”.

Author(s)
Thomas J. Leeper

See Also
search_gallery
get_gallery
get_random_images

Examples
## Not run:
get_reddit_gallery('dataisbeautiful')

## End(Not run)
get_reddit_image

Description
Get sub-reddit gallery image details and metadata

Usage
get_reddit_image(subreddit, id, ...)

Arguments
- subreddit: A character string containing the name of a sub-reddit.
- id: An image ID or object of class “imgur_image” or “imgur_gallery_image”.
- ...: Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

Details
Get sub-reddit gallery image details and metadata. This is basically the same as `get_gallery_image` or `get_image`.

Value
An object of class “imgur_gallery_image”.

Author(s)
Thomas J. Leeper

See Also
- `get_reddit_gallery`
- `get_gallery_image`
- `get_image`

Examples
```r
## Not run:
g <- get_reddit_gallery('dataisbeautiful')
get_reddit_image('dataisbeautiful', g[[1]])
get_image(g[[1]])
## End(Not run)
```
get_replies  

Get replies

Description

Get replies

Usage

get_replies(only_new = FALSE, ...)

Arguments

only_new  
A logical indicating whether only new notifications should be returned. Default is FALSE.

...  
Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token), which is required.

Details

Retrieves replies.

Value

An object of class “imgur_notification”.

Author(s)

Thomas J. Leeper

See Also

get_notifications

Examples

## Not run:

tkn <- imgur_login()
get_replies(only_new = TRUE, token = tkn)

## End(Not run)
Basic workhorse HTTP method functions for executing Imgur.com API calls

Usage

```r
imgurGET(endpoint,
    base_url = "https://api.imgur.com/3/",
    key = "1babd0decbb90f2",
    token = NULL,
    ...)
```

Arguments

- `endpoint`: A named API endpoint.
- `base_url`: The base URL for the API (by default the v3 API URL).
- `key`: An API key (by default, the imguR package API key). The API key for version of imguR < 1.0.0 was “4feb29d00face5bc19d9da536e15c373”. Either key or token must be specified.
- `token`: Optionally, an OAuth2.0 token (returned by `imgur_login`). Either key or token must be specified.
- `...`: Other arguments passed to analogous HTTP method functions from htr.

Details

These are the basic workhorse functions for the package, which users should not need to access directly (except perhaps for debugging).

Value

Generally, a list. For `imgurDELETE`, an empty character string.

Author(s)

Thomas J. Leeper

See Also

Authentication
imgur

Initiate an Imgur-enabled Graphics Device

Description

Open a specified graphics device function and configure it to upload to Imgur

Usage

imgur(device = png, file = NULL, title = NULL, description = NULL, album = NULL, name = NULL, key = NULL, token = NULL, ...)

Arguments

device A graphics device function. Default is png.
file Name of the file to be uploaded to imgur.com
title Optionally, an image title.
description Optionally, an image description.
album Optionally, an Imgur album ID.
name Optionally, a file name, otherwise the file filename is used.
key An API key. If NULL, the default imguR package API key is used.
token Optionally, an OAuth2.0 token (returned by imgur_login). If NULL, the API key used instead.
... Other arguments passed to the specified device function.

Details

This package is a wrapper for the pdf function. A temporary file is created by pdf, acting as normal graphical device. After plotting, when dev.off is called, the file is closed, uploaded to imguR and a URL of the files location is returned. In the case of multipaged pdfs being uploaded, imguR automatically concatenates them into a single image.

Value

An object of class “imgur_device” to be passed to imgur_off.

Author(s)

Thomas J. Leeper, based on code by Aaron Statham.

See Also

imgur_off upload_image
Examples

```r
## Not run:
i <- imgur('png')
hist(rnorm(20))
imgur_off(i)

## End(Not run)
```

---

**imgur_login**

*Login to Imgur*

**Description**

Complete an interactive login to Imgur to generate an OAuth2.0 token.

**Usage**

```r
imgur_login(client_id = "1babd0decbb90f2",
secret = "06eed15f8e3662c20d7ff95a62853266400ae5a",
cache = TRUE)
```

**Arguments**

- `client_id` A graphics device function. Default is `png`.
- `secret` Name of the file to be uploaded to imgur.com
- `cache` A logical indicating whether to cache the OAuth2.0 token for use later on. If TRUE, OAuth2.0 token is automatically cached in a file called ".httr-oauth" in the working directory.

**Details**

Most operations in the package can be performed anonymously using the default package API key. In order to perform most account-specific operations it is necessary to use OAuth authentication, which can only be performed interactively via a web browser. `imgur_login` returns an OAuth2.0 reference class object that can be passed as the `token` argument to all other functions in the package.

The OAuth token is moderately long lived; the response object contains a timestamp indicating its expiration time. The token can be subsequently refreshed using the `refresh()` method.

If `cache = TRUE`, the OAuth2.0 token is automatically cached in a file called ".httr-oauth" in the working directory. This token will then be loaded automatically the next time `imgur_login` is called (even in a new R session). To override an existing cache, set `cache = FALSE`.

**Value**

An OAuth2.0 reference class object, returned by `oauth2.0_token`.
## Examples

```r
## Not run:
# login interactively
tkn <- imgur_login()
# use token in the `imgur` device
i <- imgur('png', token = tkn)
hist(rnorm(20))
imgur_off(i)

# reload previous token
rm(tkn)
# OAuth token is automatically stored by
# `imgur_login` if `cache = TRUE` (the default)
# It is reloaded by calling `imgur_login`
tkn <- imgur_login()
token$refresh() # refresh token

## End(Not run)
```

---

### Description

This function closes the specified graphics device uploads the plot(s) to Imgur.

### Usage

```r
imgur_off(obj, ...)
```

### Arguments

- `obj` An object of class “imgur_device”.
- `...` Additional arguments passed to `upload_image`.

### Details

This function takes the output object from `imgur` as its first argument, wraps `dev.off` to close the graphics device opened by `imgur`, and uploads the device’s image to Imgur via `upload_image`. If `dev.off` has already closed the device, that step is skipped to prevent errors.

### Value

The response from `upload_image`.  

---

**Author(s)**

Thomas J. Leeper
Author(s)

Thomas J. Leeper, based on code by Aaron Statham.

See Also

imgur
upload_image

Examples

```r
## Not run:
i <- imgur("png")
hist(rnorm(20))
imgur_off(i)

## End(Not run)
```

mark_notification  Mark notification read

Description

Mark a notification as read

Usage

mark_notification(id, ...)

Arguments

id  A notification ID.
...

Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token), which is required.

Details

Marks a named notification as read so that it does not show in future get_notifications results.

Value

An object of class "imgur_basic".

Author(s)

Thomas J. Leeper

See Also

get_notifications
memes | Memes
---|---

Description

View memes and meme templates

Usage

default_memes(...)  
get_memes_gallery(sort = 'viral', page = 0, window = NULL, ...)  
get_meme(id, ...)

Arguments

sort | One of “viral” (the default), “time”, or “top”.
page | A page number of results between 0 and 50.
window | One of “day”, “week”, “month”, “year”, or “all”.
id | An image ID, perhaps returned by get_memes_gallery.
... | Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

Details

default_memes returns a list of default memes available on Imgur. get_memes_gallery returns a list of trending memes. get_meme returns a specific meme image.

Value

A list of objects of class “imgur_image” or “imgur_gallery_image”.

Author(s)

Thomas J. Leeper

Examples

```r
## Not run:
default_memes()
get_memes_gallery('viral', page = 1)
## End(Not run)
```
Description
Plot an “imgur_image” object

Usage
## S3 method for class 'imgur_image'
plot(x, ...)
## S3 method for class 'imgur_gallery_image'
plot(x, ...)

Arguments
x An object of class “imgur_image” or “imgur_gallery_image”.
... Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

Details
Plot an object of class “imgur_image” or “imgur_gallery_image” in an R graphics window.

Value
Invisibly, an object of class “imgur_image” or “imgur_gallery_image”.

Author(s)
Thomas J. Leeper

See Also
get_image

Examples
## Not run:
plot(get_image("vSXfU46"))
## End(Not run)
rate_limit

API rate limits

Description
Check user- and package-level rate limits

Usage
rate_limit(...)  

Arguments
...  

Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

Details
This function returns a list detailing user- and package-level API rate limits. All calls to the API deduct one unit from rate limits, except for upload_image, which deducts 10. Rate limits are lower for anonymous requests than for authenticated requests. Limits exist at the user level and at the package level. The user-level rate limit are automatically reset periodically. The response object documents when that limit will be reset.

Rate limits are automatically checked during each request. Options can be set for low remaining usage warnings. By default (when the package is loaded) those options are: options(imgur_user_rate_warning = 20) and options(imgur_client_rate_warning = 100).

Value
An object of class “imgur_basic”.

Author(s)
Thomas J. Leeper

Examples
```r
## Not run:
# rate limit for anonymous requests
call(rate_limit())

# rate limit for authenticated requests
tkn <- imgur_login()
call(rate_limit(token = tkn))
## End(Not run)
```
remove_gallery_image  Remove gallery image

Description
Remove images from the gallery

Usage
remove_gallery_image(id, ...)

Arguments
- id: An image ID or an object of class “imgur_image” to add to the gallery.
- ...: Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token), which is required.

Details
This function removes the specified image from the gallery.

Value
An object of class “imgur_basic”.

Author(s)
Thomas J. Leeper

See Also
add_gallery_images

report_comment  Report a comment

Description
Report a comment as inappropriate.

Usage
report_comment(comment, ...)
Arguments

comment A comment ID, perhaps returned by create_comment or get_comment.

... Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

Details

Reports a comment as inappropriate.

Value

An object of class “imgur_basic”.

Author(s)

Thomas J. Leeper

See Also

get_comment
vote_comment

Description

Report a gallery image as inappropriate.

Usage

report_gallery_image(id, ...)

Arguments

id An image ID.

... Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

Details

Reports a gallery image as inappropriate.

Value

An object of class “imgur_basic”.
report_sender

Author(s)

Thomas J. Leeper

Description

Report a user for inappropriate behavior

Usage

report_sender(username, ...)

Arguments

username A character string containing an Imgur username.

... Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token), which is required.

Details

Report an Imgur user for inappropriate behavior.

Value

An object of class “imgur_basic”.

Author(s)

Thomas J. Leeper

Examples

## Not run:

tkn <- imgur_login()

block_sender("someuser", token = tkn)

## End(Not run)
search_gallery

Description
Search Imgur public gallery

Usage
```r
search_gallery(query, sort = 'time', page = 1, ...)
```

Arguments
- `query`: A character string containing a search term.
- `sort`: One of “time” or “top”.
- `page`: A page number.
- `...`: Other arguments passed to HTTP request functions, for example: `token` (an OAuth2.0 token) or `key` (an API key, used by default). 

Details
Search the gallery and return gallery images and associated metadata.

Value
An object of class “imgur_gallery_album”.

Author(s)
Thomas J. Leeper

See Also
- `get_gallery`
- `get_gallery_image`
- `get_random_images`

Examples
```r
## Not run:
search_gallery(query = 'meme')
## End(Not run)
```
update_album

Update album

Description
Update album metadata

Usage
update_album(album, id = NULL,
             title = NULL, description = NULL,
             privacy = NULL, layout = NULL, cover_id = NULL, ...)

Arguments

- **album**: An album ID or object of class “imgur_album”. If no token is supplied, album must be a deletehash from the original `create_album` response.
- **id**: A vector of one or more image IDs to add to the album or a list of objects of class “imgur_image”.
- **title**: Optionally, an album title.
- **description**: Optionally, an album description.
- **privacy**: The privacy for the album. One of “public”, “hidden”, or “secret”.
- **layout**: The layout for the album. One of “blog”, “grid”, “horizontal”, or “vertical”.
- **cover_id**: An image ID or an object of class “imgur_image”.
- **...**: Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

Details
Updates the images or metadata of an album. All options are optional. To anonymously update an album, `album` must be the deletehash value from `create_album`.

Value
An object of class “imgur_basic”.

Author(s)
Thomas J. Leeper

See Also
- `create_album`
- `add_album_images`
- `remove_album_images`
- `set_album_images`
Examples

```r
## Not run:
# update using a deletehash, anonymously
i <- imgur()
hist(rnorm(20))
img <- imgur_off(i)

a1 <-
create_album(id = img,
    title = 'My first Imgur album',
    description = 'A simple album',
    privacy = 'hidden',
    layout = 'grid',
    cover_id = img)

update_album(a1$deletehash, title = 'My second Imgur album')

# update using an OAuth token
tkn <- imgur_login()

a2 <-
create_album(id = img,
    title = 'My first Imgur album',
    description = 'A simple album',
    privacy = 'hidden',
    layout = 'grid',
    cover_id = img,
    token = tkn)

update_album(a2, title = 'My second Imgur album')

## End(Not run)
```

update_image

Update image

Description

Update image metadata

Usage

```
update_image(id, title = NULL, description = NULL, ...)
```

Arguments

- **id**: An image ID or object of class "imgur_image". If no token is supplied, id must be a deletehash from the original `upload_image` response.
- **title**: Optionally, an image title.
- **description**: Optionally, an image description.
- **...**: Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).
Details

Update the title or description of an already-uploaded image.

Value

An object of class “imgur_basic”.

Author(s)

Thomas J. Leeper

See Also

upload_image
delete_image

Examples

## Not run:
# using a deletehash, anonymously
u <- upload_image("file.png")
update_image(u$deletehash, title = 'New Title')

# using an OAuth token
tkn <- imgur_login()
u <- upload_image("file.png", token = tkn)
update_image(u, title = 'New Title', token = tkn)

## End(Not run)
Arguments

- **file**: Name of the file to be uploaded to imgur.com
- **title**: Optionally, an image title.
- **description**: Optionally, an image description.
- **album**: Optionally, an Imgur album ID.
- **name**: Optionally, a file name, otherwise the file filename is used.
- **type**: Should be “file”.
- **...**: Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token) or key (an API key, used by default).

Details

`upload_image` allows users to upload a named file to Imgur. `imgur_upload` is an alias that can serve as a drop-in replacement for the `imgur_upload` function in the `knitr` package.

Value

A list parsed from the imguR JSON response after uploading the plot (see the imgur API for details).

Author(s)

Thomas J. Leeper, adapted from code by Aaron Statham (`imguRupload` from imguR v0.1) and Yihue Xie (`knitr::imgur_upload`).

References

[https://api.imgur.com/endpoints/image#image-upload](https://api.imgur.com/endpoints/image#image-upload)

See Also

- `imguR dev.off`

Examples

```r
## Not run:
pdf(tmpfile <- tempfile())
hist(rnorm(20))
dev.off()
upload_image(tmpfile)

## End(Not run)
```
vote_comment

Vote on a comment

Description

Vote a comment up or down.

Usage

vote_comment(comment, vote = 'up', ...)

Arguments

comment A comment ID, perhaps returned by create_comment.
vote A character string indicating the direction of the vote, one of “up” or “down”.
... Other arguments passed to HTTP request functions, for example: token (an OAuth2.0 token), which is required.

Details

Votes a comment up or down.

Value

An object of class “imgur_basic”

Author(s)

Thomas J. Leeper

See Also

get_comment
report_comment
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