

Package ‘telegram’

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Title R Wrapper Around the Telegram Bot API

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Description A simple wrapper around the Telegram Bot API (<<https://core.telegram.org/bots/api>>) to access Telegram's messaging facilities with ease (e.g. you send messages, images, files from R to your smartphone).

URL <https://github.com/lbraglia/telegram>

BugReports <https://github.com/lbraglia/telegram/issues>

Imports R6, httr, jsonlite, curl, utils

Depends R (>= 3.2.3)

License GPL-3

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bot_token	<i>bot_token</i>
-----------	------------------

Description

Obtain token from system variables (in Renviron) set according to package naming conventions, that is R_TELEGRAM_BOT_ where X is bot's name (first question answered to the botfather).

Usage

```
bot_token(x)
```

Arguments

x	character of length 1 with the name of the bot; if NULL a menu to choose between bot is displayed and the proper value returned
---	---

Examples

```
## Not run: bot_token('RBot')
```

forwardMessage	<i>forwardMessage</i>
----------------	-----------------------

Description

Forward messages of any kind

Usage

```
forwardMessage(
  from_chat_id = NULL,
  message_id = NULL,
  disable_notification = NULL,
  chat_id = NULL
)
```

Arguments

from_chat_id	Unique identifier for the chat where the original message was sent (required)
message_id	Unique message identifier (required)
disable_notification	Sends the message silently. Users will receive a notification with no sound
chat_id	Unique identifier for the target chat or username of the target channel (required)

getFile	<i>getFile</i>
---------	----------------

Description

Get info about a file and download it

Usage

```
getFile(file_id, destfile = NULL)
```

Arguments

file_id	File identifier (required)
destfile	Destination path; if specified the file will be downloaded

getMe	<i>getMe</i>
-------	--------------

Description

Test your bot's auth token

Usage

```
getMe()
```

<code>getUpdates</code>	<i>getUpdates</i>
-------------------------	-------------------

Description

Receive incoming updates

Usage

```
getUpdates(offset = NULL, limit = NULL)
```

Arguments

<code>offset</code>	Identifier of the first update to be returned.
<code>limit</code>	Limits the number of updates to be retrieved. Values between 1-100 are accepted. Defaults to 100

<code>getUserProfilePhotos</code>	<i>getUserProfilePhotos</i>
-----------------------------------	-----------------------------

Description

Get a list of profile pictures for a user

Usage

```
getUserProfilePhotos(user_id = NULL, offset = NULL, limit = NULL)
```

Arguments

<code>user_id</code>	Unique identifier of the target user (required)
<code>offset</code>	Sequential number of the first photo to be returned. By default, all photos are returned
<code>limit</code>	Limits the number of photos to be retrieved. Values between 1-100 are accepted. Defaults to 100

group_id	<i>group_id</i>
----------	-----------------

Description

Obtain telegram user id from system variables (in Renviron) set according to package naming conventions, that is R_TELEGRAM_USER_X where X is the user's name .

Usage

```
group_id(x)
```

Arguments

x character of length 1 with the name of the user; if NULL a menu to choose between bot is displayed and the proper value returned

Examples

```
## Not run: group_id('test_group')
```

proxy	<i>proxy</i>
-------	--------------

Description

Obtain telegram proxy from system variables (in Renviron) set according to package naming conventions, that is R_TELEGRAM_PROXY_X_Y where X is the proxy's name and Y are the proxy parameters.

Usage

```
proxy(x)
```

Arguments

x character of length 1 with the name of the proxy; if NULL a menu to choose between proxy is displayed and the proper value returned

Examples

```
## Not run: proxy('default')
```

sendAudio	<i>sendAudio</i>
-----------	------------------

Description

Send mp3 files

Usage

```
sendAudio(
  audio = NULL,
  caption = NULL,
  duration = NULL,
  performer = NULL,
  title = NULL,
  disable_notification = NULL,
  reply_to_message_id = NULL,
  chat_id = NULL
)
```

Arguments

audio	path to audio file to send (required)
caption	audio caption
duration	duration of the audio in seconds
performer	performer
title	track name
disable_notification	Sends the message silently. Users will receive a notification with no sound
reply_to_message_id	If the message is a reply, ID of the original message
chat_id	Unique identifier for the target chat or username of the target channel (required)

sendChatAction	<i>sendChatAction</i>
----------------	-----------------------

Description

Tell the user that something is happening on the bot's side

Usage

```
sendChatAction(action = NULL, chat_id = NULL)
```

Arguments

action	type of action to broadcast. Choose one, depending on what the user is about to receive: "typing" for text messages, "upload_photo" for photos, "record_video" or "upload_video" for videos, "record_voice" or "upload_voice" for voice notes, "upload_document" for general files, "find_location" for location data, "record_video_note" or "upload_video_note" for video notes.
chat_id	Unique identifier for the target chat or username of the target channel (required)

sendDice	<i>sendDice</i>
----------	-----------------

Description

Use this method to send a dice, which will have a random value from 1 to 6.

Usage

```
sendDice(disable_notification = NULL, chat_id = NULL)
```

Arguments

disable_notification	Sends the message silently. Users will receive a notification with no sound
chat_id	Unique identifier for the target chat or username of the target channel (required)

sendDocument	<i>sendDocument</i>
--------------	---------------------

Description

Send general files

Usage

```
sendDocument(
  document = NULL,
  disable_notification = NULL,
  reply_to_message_id = NULL,
  chat_id = NULL
)
```

Arguments

<code>document</code>	path to the file to send (required)
<code>disable_notification</code>	Sends the message silently. Users will receive a notification with no sound
<code>reply_to_message_id</code>	if the message is a reply, ID of the original message
<code>chat_id</code>	Unique identifier for the target chat or username of the target channel (required)

<code>sendLocation</code>	<i>sendLocation</i>
---------------------------	---------------------

Description

Send point on the map

Usage

```
sendLocation(
  latitude = NULL,
  longitude = NULL,
  disable_notification = NULL,
  reply_to_message_id = NULL,
  chat_id = NULL
)
```

Arguments

<code>latitude</code>	Latitude of location (required)
<code>longitude</code>	Longitude of location (required)
<code>disable_notification</code>	Sends the message silently. Users will receive a notification with no sound
<code>reply_to_message_id</code>	If the message is a reply, ID of the original message
<code>chat_id</code>	Unique identifier for the target chat or username of the target channel (required)

sendMessage	<i>sendMessage</i>
-------------	--------------------

Description

Send text messages

Usage

```
sendMessage(  
    text = NULL,  
    parse_mode = NULL,  
    disable_web_page_preview = NULL,  
    disable_notification = NULL,  
    reply_to_message_id = NULL,  
    chat_id = NULL  
)
```

Arguments

text	Text of the message to be sent (required)
parse_mode	send 'Markdown' if you want Telegram apps to show bold, italic and inline URLs in your bot's message
disable_web_page_preview	Disables link previews for links in this message
disable_notification	Sends the message silently. Users will receive a notification with no sound
reply_to_message_id	If the message is a reply, ID of the original message
chat_id	Unique identifier for the target chat or username of the target channel (required)

sendPhoto	<i>sendPhoto</i>
-----------	------------------

Description

Send image files

Usage

```
sendPhoto(  
    photo = NULL,  
    caption = NULL,  
    disable_notification = NULL,  
    reply_to_message_id = NULL,  
    chat_id = NULL  
)
```

Arguments

photo	photo to send (required)
caption	photo caption
disable_notification	Sends the message silently. Users will receive a notification with no sound
reply_to_message_id	If the message is a reply, ID of the original message
chat_id	Unique identifier for the target chat or username of the target channel (required)

sendPoll	<i>sendPoll</i>
----------	-----------------

Description

Use this method to send a native poll.

Usage

```
sendPoll(
    question = NULL,
    options = NULL,
    is_anonymous = TRUE,
    type = c("regular", "quiz"),
    allows_multiple_answers = FALSE,
    correct_option_id = NULL,
    is_closed = FALSE,
    disable_notification = NULL,
    reply_to_message_id = NULL,
    chat_id = NULL
)
```

Arguments

question	Poll question, 1-255 characters
options	vector of possible answers: 2-10 strings 1-100 characters each
is_anonymous	if TRUE (default) the poll needs to be anonymous
type	poll type, 'quiz' or 'regular', defaults to 'regular'
allows_multiple_answers	if TRUE the poll allows multiple answers (default to FALSE and ignored for polls in quiz mode)
correct_option_id	0-based identifier of the correct answer option, required for polls in quiz mode (eg 0 set the first answer as correct)

is_closed	if TRUE the poll needs to be immediately closed. This can be useful for poll preview. (default to FALSE)
disable_notification	Sends the message silently. Users will receive a notification with no sound
reply_to_message_id	If the message is a reply, ID of the original message
chat_id	Unique identifier for the target chat or username of the target channel (required)

sendSticker	<i>sendSticker</i>
-------------	--------------------

Description

Send .webp stickers

Usage

```
sendSticker(
  sticker = NULL,
  disable_notification = NULL,
  reply_to_message_id = NULL,
  chat_id = NULL
)
```

Arguments

sticker	sticker to send (required)
disable_notification	Sends the message silently. Users will receive a notification with no sound
reply_to_message_id	If the message is a reply, ID of the original message
chat_id	Unique identifier for the target chat or username of the target channel (required)

sendVideo	<i>sendVideo</i>
-----------	------------------

Description

Send mp4 videos

Usage

```

sendVideo(
  video = NULL,
  duration = NULL,
  caption = NULL,
  reply_to_message_id = NULL,
  chat_id = NULL
)

```

Arguments

video	Video to send (required)
duration	Duration of sent video in seconds
caption	Video caption
reply_to_message_id	If the message is a reply, ID of the original message
chat_id	Unique identifier for the target chat or username of the target channel (required)

sendVoice

sendVoice

Description

Send .ogg files encoded with OPUS

Usage

```

sendVoice(
  voice = NULL,
  duration = NULL,
  disable_notification = NULL,
  reply_to_message_id = NULL,
  chat_id = NULL
)

```

Arguments

voice	Audio file to send (required)
duration	Duration of sent audio in seconds
disable_notification	Sends the message silently. Users will receive a notification with no sound
reply_to_message_id	If the message is a reply, ID of the original message
chat_id	Unique identifier for the target chat or username of the target channel (required)

stopPoll	<i>stopPoll</i>
----------	-----------------

Description

Use this method to stop a poll which was sent by the bot.

Usage

```
stopPoll(message_id = NULL, chat_id = NULL)
```

Arguments

message_id	Identifier of the original message with the poll
chat_id	Unique identifier for the target chat or username of the target channel (required)

telegram	<i>telegram.</i>
----------	------------------

Description

Simple R wrapper around the Telegram Bot API (<http://core.telegram.org/bots/api>) to access Telegram's messaging facilities with ease (eg you send messages, images, files from R to your smartphone)

Author(s)

Maintainer: Luca Braglia <lbraglia@gmail.com>

See Also

Useful links:

- <https://github.com/lbraglia/telegram>
- Report bugs at <https://github.com/lbraglia/telegram/issues>

TGBot

TGBot

Description

Package main class (implementing the Telegram bot).

Format

An [R6Class](#) generator object.

API Methods

[forwardMessage](#) forward messages of any kind
[getFile](#) get info about a file and download it
[getMe](#) test your bot's auth token
[getUpdates](#) receive incoming updates
[getUserProfilePhotos](#) get a list of profile pictures for a user
[sendAudio](#) send mp3 files
[sendDocument](#) send general files
[sendLocation](#) send point on the map
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[sendVideo](#) send mp4 videos
[sendVoice](#) send ogg files encoded with OPUS
[sendPoll](#) send a telegram poll
[stopPoll](#) stop a telegram poll and obtain results

Methods

Public methods:

- [TGBot\\$new\(\)](#)
- [TGBot\\$set_token\(\)](#)
- [TGBot\\$set_proxy\(\)](#)
- [TGBot\\$set_default_chat_id\(\)](#)
- [TGBot\\$req\(\)](#)
- [TGBot\\$last_request\(\)](#)
- [TGBot\\$print\(\)](#)
- [TGBot\\$forwardMessage\(\)](#)
- [TGBot\\$getFile\(\)](#)

- `TGBot$getMe()`
- `TGBot$getUpdates()`
- `TGBot$getUserProfilePhotos()`
- `TGBot$sendAudio()`
- `TGBot$sendChatAction()`
- `TGBot$sendDocument()`
- `TGBot$sendLocation()`
- `TGBot$sendMessage()`
- `TGBot$sendPhoto()`
- `TGBot$sendSticker()`
- `TGBot$sendVideo()`
- `TGBot$sendVoice()`
- `TGBot$sendDice()`
- `TGBot$sendPoll()`
- `TGBot$stopPoll()`
- `TGBot$clone()`

Method `new()`:

Usage:

`TGBot$new(token, proxy)`

Method `set_token()`:

Usage:

`TGBot$set_token(token)`

Method `set_proxy()`:

Usage:

`TGBot$set_proxy(proxy)`

Method `set_default_chat_id()`:

Usage:

`TGBot$set_default_chat_id(chat_id)`

Method `req()`:

Usage:

`TGBot$req(method = NULL, body = NULL)`

Method `last_request()`:

Usage:

`TGBot$last_request()`

Method `print()`:

Usage:

`TGBot$print()`

Method forwardMessage():*Usage:*

```
TGBot$forwardMessage(  
  from_chat_id = NULL,  
  message_id = NULL,  
  disable_notification = NULL,  
  chat_id = NULL  
)
```

Method getFile():*Usage:*

```
TGBot$getFile(file_id, destfile = NULL)
```

Method getMe():*Usage:*

```
TGBot$getMe()
```

Method getUpdates():*Usage:*

```
TGBot$getUpdates(offset = NULL, limit = NULL)
```

Method getUserProfilePhotos():*Usage:*

```
TGBot$getUserProfilePhotos(user_id = NULL, offset = NULL, limit = NULL)
```

Method sendAudio():*Usage:*

```
TGBot$sendAudio(  
  audio = NULL,  
  caption = NULL,  
  duration = NULL,  
  performer = NULL,  
  title = NULL,  
  disable_notification = NULL,  
  reply_to_message_id = NULL,  
  chat_id = NULL  
)
```

Method sendChatAction():*Usage:*

```
TGBot$sendChatAction(action = NULL, chat_id = NULL)
```

Method sendDocument():*Usage:*

```
TGBot$sendDocument(  
    document = NULL,  
    disable_notification = NULL,  
    reply_to_message_id = NULL,  
    chat_id = NULL  
)
```

Method sendLocation():*Usage:*

```
TGBot$sendLocation(  
    latitude = NULL,  
    longitude = NULL,  
    disable_notification = NULL,  
    reply_to_message_id = NULL,  
    chat_id = NULL  
)
```

Method sendMessage():*Usage:*

```
TGBot$sendMessage(  
    text = NULL,  
    parse_mode = NULL,  
    disable_web_page_preview = NULL,  
    disable_notification = NULL,  
    reply_to_message_id = NULL,  
    chat_id = NULL  
)
```

Method sendPhoto():*Usage:*

```
TGBot$sendPhoto(  
    photo = NULL,  
    caption = NULL,  
    disable_notification = NULL,  
    reply_to_message_id = NULL,  
    chat_id = NULL  
)
```

Method sendSticker():*Usage:*

```
TGBot$sendSticker(  
    sticker = NULL,  
    disable_notification = NULL,  
    reply_to_message_id = NULL,  
    chat_id = NULL  
)
```

Method sendVideo():

Usage:

```
TGBot$sendVideo(  
  video = NULL,  
  duration = NULL,  
  caption = NULL,  
  reply_to_message_id = NULL,  
  chat_id = NULL  
)
```

Method sendVoice():

Usage:

```
TGBot$sendVoice(  
  voice = NULL,  
  duration = NULL,  
  disable_notification = NULL,  
  reply_to_message_id = NULL,  
  chat_id = NULL  
)
```

Method sendDice():

Usage:

```
TGBot$sendDice(disable_notification = NULL, chat_id = NULL)
```

Method sendPoll():

Usage:

```
TGBot$sendPoll(  
  question = NULL,  
  options = NULL,  
  is_anonymous = TRUE,  
  type = c("regular", "quiz"),  
  allows_multiple_answers = FALSE,  
  correct_option_id = NULL,  
  is_closed = FALSE,  
  disable_notification = NULL,  
  reply_to_message_id = NULL,  
  chat_id = NULL  
)
```

Method stopPoll():

Usage:

```
TGBot$stopPoll(message_id = NULL, chat_id = NULL)
```

Method clone(): The objects of this class are cloneable with this method.

Usage:

```
TGBot$clone(deep = FALSE)
```

Arguments:

deep Whether to make a deep clone.

References

[Bots: An introduction for developers and Telegram Bot API](#)

Examples

```
## Not run:

## Without proxy
bot <- TGBot$new(token = bot_token('RBot'))

## With a proxy ...
prx <- list('url' = '123.45.6.78',
           'port' = 8080,
           'username' = 'user',
           'password' = 'password')
bot <- TGBot$new(token = bot_token('RBot'), proxy = prx)
## .. or
bot <- TGBot$new(token = bot_token('RBot'))
bot$set_proxy(proxy = prx)

## End(Not run)
```

user_id	<i>user_id</i>
---------	----------------

Description

Obtain telegram user id from system variables (in Renviron) set according to package naming conventions, that is R_TELEGRAM_USER_X where is the user's name .

Usage

```
user_id(x)
```

Arguments

x character of length 1 with the name of the user; if NULL a menu to choose between bot is displayed and the proper value returned

Examples

```
## Not run: user_id('me')
```

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