Package ‘telegram.bot’

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Description

With `+` you can add any kind of `Handler` to an `Updater`'s Dispatcher (or directly to a `Dispatcher`).

Usage

```r
## S3 method for class 'TelegramObject'
e1 + e2
```

Arguments

- `e1`: An object of class `Updater` or `Dispatcher`.
- `e2`: An object of class `Handler`.

Details

See `add_handler` for further information.

Examples

```r
## Not run:
# You can chain multiple handlers
start <- function(bot, update) {
  bot$sendMessage(
    chat_id = update$message$chat_id,
    text = sprintf("Hello %s!",
      update$message$from$first_name
  )
}
}
echo <- function(bot, update) {
  bot$sendMessage(
    chat_id = update$message$chat_id,
```
add_error_handler

Add an error handler

Description

Registers an error handler in the Dispatcher.

Usage

add_error_handler(callback)

Arguments

callback A function that takes (bot, error) as arguments.

Details

You can also use add_handler to register error handlers if the handler is of type ErrorHandler.
**add_handler**  

**Examples**

```r
## Not run:
updater <- Updater(token = "TOKEN")

# Create error callback
error_callback <- function(bot, error) {
  warning(simpleWarning(conditionMessage(error), call = "Updates polling"))
}

# Register it to the updater's dispatcher
updater$dispatcher$add_error_handler(error_callback)
# or
updater$dispatcher$add_handler(ErrorHandler(error_callback))
# or
updater <- updater + ErrorHandler(error_callback)

## End(Not run)
```

---

**add_handler**  

*Add a handler*

**Description**

Register a handler. A handler must be an instance of a subclass of `Handler`. All handlers are organized in groups with a numeric value. The default group is 1. All groups will be evaluated for handling an update, but only 0 or 1 handler per group will be used.

**Usage**

```r
add_handler(handler, group = 1L)
```

**Arguments**

- `handler`: A `Handler` instance.
- `group`: The group identifier, must be higher or equal to 1. Default is 1.

**Details**

You can use the `add (+)` operator instead.

The priority/order of handlers is determined as follows:

1. Priority of the group (lower group number = higher priority)
2. The first handler in a group which should handle an update will be used. Other handlers from the group will not be used. The order in which handlers were added to the group defines the priority (the first handler added in a group has the highest priority).
answerCallbackQuery  

Send answers to callback queries

Description

Use this method to send answers to callback queries sent from inline keyboards. The answer will be displayed to the user as a notification at the top of the chat screen or as an alert. On success, TRUE is returned.

Usage

```python
answerCallbackQuery(callback_query_id, text = NULL, show_alert = FALSE, url = NULL, cache_time = NULL)
```

Arguments

callback_query_id

Unique identifier for the query to be answered.

text

(Optional). Text of the notification. If not specified, nothing will be shown to the user, 0-200 characters.

show_alert

(Optional). If TRUE, an alert will be shown by the client instead of a notification at the top of the chat screen. Defaults to FALSE.

url

(Optional). URL that will be opened by the user’s client.

cache_time

(Optional). The maximum amount of time in seconds that the result of the callback query may be cached client-side. Telegram apps will support caching starting in version 3.14. Defaults to 0.

Details

You can also use it’s snake_case equivalent answer_callback_query.

answerInlineQuery  

Send answers to an inline query

Description

Use this method to send answers to an inline query. No more than 50 results per query are allowed.

Usage

```python
answerInlineQuery(inline_query_id, results, cache_time = 300L, is_personal = NULL, next_offset = NULL, switch_pm_text = NULL, switch_pm_parameter = NULL)
```

Arguments

inline_query_id

Unique identifier for the query to be answered.

results

A list of inline query results, 0-50.

is_personal

(Optional). Pass true, if the answer may be shown in a user’s personal section without adding it to the chat.

next_offset

(Optional). Pass the offset label of the current page, which is necessary when答复ing the second page of a set of search results.

switch_pm_text

(Optional). Text of the button in the menu of the bot which can be used to switch to the chat screen and access the bot. 0-50 characters.

switch_pm_parameter

(Optional). Parameter to be sent to the switch_pm button’s callback function.

Arguments

Description

You can also use it’s snake_case equivalent answer_inline_query.
BaseFilter

Arguments

**inline_query_id**
Unique identifier for the answered query.

**results**
A list of InlineQueryResult for the inline query.

**cache_time** *(Optional).* The maximum amount of time in seconds that the result of the inline query may be cached on the server.

**is_personal** *(Optional).* Pass `true`, if results may be cached on the server side only for the user that sent the query. By default, results may be returned to any user who sends the same query.

**next_offset** *(Optional).* Pass the offset that a client should send in the next query with the same text to receive more results. Pass an empty string if there are no more results or if you don’t support pagination. Offset length can’t exceed 64 bytes.

**switch_pm_text** *(Optional).* If passed, clients will display a button with specified text that switches the user to a private chat with the bot and sends the bot a start message with the parameter `switch_pm_parameter`.

**switch_pm_parameter** *(Optional).* Deep-linking parameter for the `/start` message sent to the bot when user presses the switch button. 1-64 characters, only `A-Z`, `a-z`, `0-9`, `_` and `-` are allowed.

*Example:* An inline bot that sends YouTube videos can ask the user to connect the bot to their YouTube account to adapt search results accordingly. To do this, it displays a ‘Connect your YouTube account’ button above the results, or even before showing any. The user presses the button, switches to a private chat with the bot and, in doing so, passes a start parameter that instructs the bot to return an auth link. Once done, the bot can offer a switch_inline button so that the user can easily return to the chat where they wanted to use the bot’s inline capabilities.

Details

To enable this option, send the `/setinline` command to @BotFather and provide the placeholder text that the user will see in the input field after typing your bot’s name.

You can also use it’s snake_case equivalent `answer_inline_query`.

---

**BaseFilter**

*The base of all filters*

**Description**

Base class for all Message Filters.
Usage

BaseFilter(filter)

as.BaseFilter(x, ...)

is.BaseFilter(x)

Arguments

filter  If you want to create your own filters you can call this generator passing by a filter function that takes a message as input and returns a boolean: TRUE if the message should be handled, FALSE otherwise.

x  Object to be coerced or tested.

...  Further arguments passed to or from other methods.

Details

See filtersLogic to know more about combining filter functions.

Examples

```r
## Not run:
# Create a filter function
text_or_command <- function(message) !is.null(message$text)

# Make it an instance of BaseFilter with its generator:
text_or_command <- BaseFilter(filter = text_or_command)

# Or by coercing it with as.BaseFilter:
text_or_command <- as.BaseFilter(function(message) !is.null(message$text))

## End(Not run)
```

Bot  Creating a Bot

Description

This object represents a Telegram Bot.

Usage

```r
Bot(token, base_url = NULL, base_file_url = NULL, request_config = NULL)

is.Bot(x)
```
Arguments

- **token**: The bot’s token given by the BotFather.
- **base_url** (Optional): Telegram Bot API service URL.
- **base_file_url** (Optional): Telegram Bot API file URL.
- **request_config** (Optional): Additional configuration settings to be passed to the bot’s POST requests. See the config parameter from \_httr:::POST for further details.

The request_config settings are very useful for the advanced users who would like to control the default timeouts and/or control the proxy used for HTTP communication.

- **x**: Object to be tested.

Format

-An R6Class object.

Details

To take full advantage of this library take a look at Updater.

You can also use its methods snake_case equivalent.

API Methods

- `answerCallbackQuery` Send answers to callback queries
- `answerInlineQuery` Send answers to an inline query
- `deleteMessage` Delete a message
- `deleteWebhook` Remove webhook integration
- `editMessageReplyMarkup` Edit the reply markup of a message
- `forwardMessage` Forward messages of any kind
- `getFile` Prepare a file for downloading
- `getMe` Check your bot’s information
- `getUpdates` Receive incoming updates
- `getUserProfilePhotos` Get a user’s profile photos
- `getWebhookInfo` Get current webhook status
- `leaveChat` Leave a chat
- `sendAnimation` Send animation files
- `sendAudio` Send audio files
- `sendChatAction` Send a chat action
- `sendDocument` Send general files
- `sendLocation` Send point on the map
- `sendMessage` Send text messages
- `sendPhoto` Send image files
\texttt{sendSticker}  Send a sticker
\texttt{sendVideo}  Send a video
\texttt{sendVideoNote}  Send video messages
\texttt{sendVoice}  Send voice files
\texttt{setWebhook}  Set a webhook

Other Methods

\texttt{clean_updates}  Clean any pending updates
\texttt{set_token}  Change your bot’s auth token

Examples

```r
## Not run:
bot <- Bot(token = "TOKEN")

# In case you want to set a proxy (see \texttt{?httr::use_proxy})
bot <- Bot(
  token = "TOKEN",
  request_config = httr::use_proxy(...)
)

## End(Not run)
```

\begin{itemize}
\item \texttt{bot_token} \hspace{1cm} \textit{Get a token from environment}
\end{itemize}

Description

Obtain token from system variables (in \texttt{R\_environ}) set according to the naming convention \texttt{R\_TELEGRAM\_BOT\_X} where \texttt{X} is the bot’s name.

Usage

\texttt{bot_token(bot\_name)}

Arguments

\begin{itemize}
\item \texttt{bot\_name} \hspace{1cm} The bot’s name.
\end{itemize}
Examples

```r
## Not run:
# Open the `.Renviron` file
file.edit(path.expand(file.path("~", ".Renviron")))
# Add the line (uncomment and replace <bot-token> by your bot TOKEN):
# R_TELEGRAM_BOT_RTelegramBot=<bot-token>
# Save and restart R

bot_token("RTelegramBot")

## End(Not run)
```

CallbackQueryHandler  Handling callback queries

Description

`CallbackQueryHandler` class to handle Telegram callback queries. Optionally based on a regex.

Usage

`CallbackQueryHandler(callback, pattern = NULL)`

Arguments

- `callback` The callback function for this handler. See `Handler` for information about this function.
- `pattern` (Optional). Regex pattern to test.

Format

An `R6Class` object.

check_update  Check an update

Description

This method is called to determine if an update should be handled by this handler instance. It should always be overridden (see `Handler`).

Usage

`check_update(update)`

Arguments

- `update` The update to be tested.
**clean_updates**  
*Clean any pending updates*

**Description**

Use this method to clean any pending updates on Telegram servers. Requires no parameters.

**Usage**

```python
clean_updates()
```

**CommandHandler**  
*Handling commands*

**Description**

Handler class to handle Telegram commands.

**Usage**

```python
CommandHandler(command, callback, filters = NULL, pass_args = FALSE, username = NULL)
```

**Arguments**

- **command**: The command or vector of commands this handler should listen for.
- **callback**: The callback function for this handler. See Handler for information about this function.
- **filters**: (Optional). Only allow updates with these filters. See MessageFilters for a full list of all available filters.
- **pass_args**: (Optional). Determines whether the handler should be passed args, received as a vector, split on spaces.
- **username**: (Optional). Bot’s username, you can retrieve it from bot$getMe()$username. If this parameter is passed, then the CommandHandler will also listen to the command /command@username, as bot commands are often called this way.

**Format**

An R6Class object.
deleteMessage

Examples

```r
## Not run:

# Initialize bot
bot <- Bot("TOKEN")
username <- bot$getMe()$username
updater <- Updater(bot = bot)

# Add a command
start <- function(bot, update) {
  bot$sendMessage(
    chat_id = update$message$chat_id,
    text = "Hi, I am a bot!"
  )
}

updater <- updater + CommandHandler("start", start, username = username)

## End(Not run)
```

### Description

Use this method to delete a message. A message can only be deleted if it was sent less than 48 hours ago. Any such recently sent outgoing message may be deleted. Additionally, if the bot is an administrator in a group chat, it can delete any message. If the bot is an administrator in a supergroup, it can delete messages from any other user and service messages about people joining or leaving the group (other types of service messages may only be removed by the group creator). In channels, bots can only remove their own messages.

### Usage

```r
deleteMessage(chat_id, message_id)
```

### Arguments

- **chat_id**: Unique identifier for the target chat or username of the target channel.
- **message_id**: Identifier of the message to delete.

### Details

You can also use it's snake_case equivalent delete_message.
deleteWebhook  

*Remove webhook integration*

**Description**

Use this method to remove webhook integration if you decide to switch back to `getUpdates`. Requires no parameters.

**Usage**

`deleteWebhook()`

**Details**

You can also use it’s snake_case equivalent `delete_webhook`.

---

**Dispatcher**

*The dispatcher of all updates*

**Description**

This class dispatches all kinds of updates to its registered handlers.

**Usage**

`Dispatcher(bot)`

`is.Dispatcher(x)`

**Arguments**

- **bot**  
The bot object that should be passed to the handlers.

- **x**  
Object to be tested.

**Format**

An *R6Class* object.

**Methods**

- `add_handler`  
Registers a handler in the `Dispatcher`.

- `add_error_handler`  
Registers an error handler in the `Dispatcher`. 
editMessageReplyMarkup

*Edit a reply markup*

**Description**

Use this method to edit only the reply markup of messages sent by the bot or via the bot (for inline bots).

**Usage**

```python
editMessageReplyMarkup(chat_id = NULL, message_id = NULL,
                       inline_message_id = NULL, reply_markup = NULL)
```

**Arguments**

- **chat_id** (Optional). Unique identifier for the target chat or username of the target channel.
- **message_id** (Optional). Required if inline_message_id is not specified. Identifier of the sent message.
- **inline_message_id** (Optional). Required if chat_id and message_id are not specified. Identifier of the inline message.
- **reply_markup** (Optional). A Reply Markup parameter object, it can be either:
  - `ReplyKeyboardMarkup`
  - `InlineKeyboardMarkup`
  - `ReplyKeyboardRemove`
  - `ForceReply`

**Details**

You can also use it's snake_case equivalent `edit_message_reply_markup`.

**effective_chat**

*Get the effective chat*

**Description**

The chat that this update was sent in, no matter what kind of update this is. Will be None for inline_query, chosen_inline_result, callback_query from inline messages, shipping_query and pre_checkout_query.

**Usage**

```python
effective_chat()
```
**effective_message**  
*Get the effective message*

### Description
The message included in this update, no matter what kind of update this is. Will be None for inline_query, chosen_inline_result, callback_query from inline messages, shipping_query and pre_checkout_query.

### Usage
```
effective_message()
```

**effective_user**  
*Get the effective user*

### Description
The user that sent this update, no matter what kind of update this is. Will be NULL for channel_post.

### Usage
```
effective_user()
```

**ErrorHandler**  
*Handling errors*

### Description
Handler class to handle errors in the Dispatcher.

### Usage
```
ErrorHandler(callback)
```
```
is.ErrorHandler(x)
```

### Arguments
- **callback**  
  A function that takes (bot, error) as arguments.
- **x**  
  Object to be tested.
Format

An R6Class object.

Examples

## Not run:
updater <- Updater(token = "TOKEN")

# Create error callback
error_callback <- function(bot, error) {
  warning(simpleWarning(conditionMessage(error), call = "Updates polling"))
}

# Register it to the updater's dispatcher
updater$dispatcher$add_handler(ErrorHandler(error_callback))
# or
updater <- updater + ErrorHandler(error_callback)

## End(Not run)

---

## Combining filters

### Description

Creates a function which returns the corresponding logical operation between what \( f \) and \( g \) return.

### Usage

```r
## S3 method for class 'BaseFilter'
!f
```

```r
## S3 method for class 'BaseFilter'
f & g
```

```r
## S3 method for class 'BaseFilter'
f | g
```

### Arguments

- \( f \), \( g \)
  
  Arbitrary BaseFilter class functions.

### Details

See BaseFilter and MessageFilters for further details.
### ForceReply

**Display a reply**

**Description**

Upon receiving a message with this object, Telegram clients will display a reply interface to the user (act as if the user has selected the bot’s message and tapped 'Reply').

**Usage**

```r
ForceReply(force_reply = TRUE, selective = NULL)
```

**Arguments**

- **force_reply**: Shows reply interface to the user, as if they manually selected the bot’s message and tapped 'Reply'. Defaults to TRUE.
- **selective**: (Optional). Use this parameter if you want to show the keyboard to specific users only.

**Examples**

```r
## Not run:
# Initialize bot
bot <- Bot(token = "TOKEN")
chat_id <- "CHAT_ID"

# Set input parameters
text <- "Don’t forget to send me the answer!"

# Send reply message
bot$sendMessage(chat_id, text, reply_markup = ForceReply())

## End(Not run)
```
forwardMessage

**forwardMessage**  
Forward messages of any kind

**Description**

Use this method to forward messages of any kind.

**Usage**

```python
forwardMessage(chat_id, from_chat_id, message_id, 
    disable_notification = FALSE)
```

**Arguments**

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

**Details**

You can also use it's snake_case equivalent `forward_message`.

---

**from_chat_id**  
Get an update’s chat ID

**Description**

Get the id from the Update’s effective chat.

**Usage**

```python
from_chat_id()
```

**from_user_id**  
Get an update’s user ID

**Description**

Get the id from the Update’s effective user.

**Usage**

```python
from_user_id()
```
**getFile**

*Prepare a file for downloading*

**Description**

Use this method to get basic info about a file and prepare it for downloading. For the moment, bots can download files of up to 20MB in size. It is guaranteed that the link will be valid for at least 1 hour. When the link expires, a new one can be requested by calling `getFile` again.

**Usage**

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

**Arguments**

- **file_id**: The file identifier.
- **destfile**: (Optional). If you want to save the file, pass by a character string with the name where the downloaded file is saved. See the `destfile` parameter from `curl::curl_download` for further details.
- **...**: (Optional). Additional parameters to be passed to `curl_download`. It is not used if `destfile` is `NULL`.

**Details**

You can also use its snake_case equivalent `get_file`.

**Examples**

```r
## Not run:
bot <- Bot(token = bot_token("RTelegramBot"))
chat_id <- user_id("Me")

photos <- bot$getUserProfilePhotos(chat_id = chat_id)

# Download user profile photo
file_id <- photos$photos[[1L]][[1L]]$file_id
bot$getFile(file_id, destfile = "photo.jpg")

## End(Not run)
```
getMe

Description

A simple method for testing your bot’s auth token. Requires no parameters.

Usage

getMe()

Details

You can also use it’s snake_case equivalent get_me.

getUpdates

Description

Use this method to receive incoming updates. It returns a list of Update objects.

Usage

getUpdates(offset = NULL, limit = 100L, timeout = 0L, allowed_updates = NULL)

Arguments

offset (Optional). Identifier of the first update to be returned returned.

limit (Optional). Limits the number of updates to be retrieved. Values between 1-100 are accepted. Defaults to 100.

timeout (Optional). Timeout in seconds for long polling. Defaults to 0, i.e. usual short polling. Should be positive, short polling should be used for testing purposes only.

allowed_updates (Optional). String or vector of strings with the types of updates you want your bot to receive. For example, specify c("message", "edited_message", "callback_query") to only receive updates of these types. See Update for a complete list of available update types. Specify an empty string to receive all updates regardless of type (default). If not specified, the previous setting will be used. Please note that this parameter doesn’t affect updates created before the call to the getUpdates, so unwanted updates may be received for a short period of time.
getUserProfilePhotos

Details

1. This method will not work if an outgoing webhook is set up.
2. In order to avoid getting duplicate updates, recalculate offset after each server response or use Bot method `clean_updates`.
3. To take full advantage of this library take a look at `Updater`.

You can also use it’s snake_case equivalent `get_updates`.

Examples

```r
## Not run:
bot <- Bot(token = bot_token("RTelegramBot"))

updates <- bot$getUpdates()

## End(Not run)
```

getUserProfilePhotos  Get a user’s profile photos

Description

Use this method to get a list of profile pictures for a user.

Usage

```r
getUserProfilePhotos(user_id, offset = NULL, limit = 100L)
```

Arguments

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

Details

You can also use it’s snake_case equivalent `get_user_profile_photos`.

See `getFile` to know how to download files.
**getWebhookInfo**  

*Get current webhook status*

**Description**

Use this method to get current webhook status. Requires no parameters.

**Usage**

```r
getWebhookInfo()
```

**Details**

If the bot is using `getUpdates`, will return an object with the `url` field empty.

You can also use its snake_case equivalent `get_webhook_info`.

---

**Handler**  

*The base of all handlers*

**Description**

The base class for all update handlers. Create custom handlers by inheriting from it.

**Usage**

```r
Handler(callback, check_update = NULL, handle_update = NULL, 
  handlername = NULL)
```

```r
is.Handler(x)
```
Handler

Arguments

callback The callback function for this handler. Its inputs will be (bot, update), where bot is a Bot instance and update an Update class.

check_update Function that will override the default check_update method. Use it if you want to create your own Handler.

handle_update Function that will override the default handle_update method. Use it if you want to create your own Handler.

handlername Name of the customized class, which will inherit from Handler. If NULL (default) it will create a Handler class.

x Object to be tested.

Format

An R6Class object.

Methods

check_update Called to determine if an update should be handled by this handler instance.

handle_update Called if it was determined that an update should indeed be handled by this instance.

Sub-classes

MessageHandler To handle Telegram messages.

CommandHandler To handle Telegram commands.

CallbackQueryHandler To handle Telegram callback queries.

ErrorHandler To handle errors while polling for updates.

Examples

```r
## Not run:
# Example of a Handler
callback_method <- function(bot, update) {
  chat_id <- update$effective_chat$id
  bot$sendMessage(chat_id = chat_id, text = "Hello")
}

hello_handler <- Handler(callback_method)

# Customizing Handler
check_update <- function(update) {
  TRUE
}

handle_update <- function(update, dispatcher) {
  self$callback(dispatcher$bot, update)
}
```
**handle_update**

```python
foo_handler <- Handler(callback_method,
    check_update = check_update,
    handle_update = handle_update,
    handlername = "FooHandler"
)
```

## End (Not run)

<table>
<thead>
<tr>
<th>handle_update</th>
<th>Handle an update</th>
</tr>
</thead>
</table>

**Description**

This method is called if it was determined that an update should indeed be handled by this instance. It should also be overridden (see `Handler`).

**Usage**

```python
handle_update(update, dispatcher)
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>update</td>
<td>The update to be handled.</td>
</tr>
<tr>
<td>dispatcher</td>
<td>The dispatcher to collect optional arguments.</td>
</tr>
</tbody>
</table>

**Details**

In most cases `self$callback(dispatcher$bot, update)` can be called, possibly along with optional arguments.

---

**InlineKeyboardButton**

*Create an inline keyboard button*

**Description**

This object represents one button of an inline keyboard. You **must** use exactly one of the optional fields. If all optional fields are NULL, by defect it will generate `callback_data` with same data as in `text`.

**Usage**

```python
InlineKeyboardButton(text, url = NULL, callback_data = NULL,
    switch_inline_query = NULL, switch_inline_query_current_chat = NULL)
```

```python
is.InlineKeyboardButton(x)
```
InlineKeyboardMarkup

Arguments

- **text**: Label text on the button.
- **url**: (Optional). HTTP url to be opened when button is pressed.
- **callback_data**: (Optional). Data to be sent in a callback query to the bot when button is pressed, 1-64 bytes.
- **switch_inline_query**: (Optional). If set, pressing the button will prompt the user to select one of their chats, open that chat and insert the bot’s username and the specified inline query in the input field. Can be empty, in which case just the bot’s username will be inserted.
- **switch_inline_query_current_chat**: (Optional). If set, pressing the button will insert the bot’s username and the specified inline query in the current chat’s input field. Can be empty, in which case only the bot’s username will be inserted.

Details

**Note**: After the user presses a callback button, Telegram clients will display a progress bar until you call `answerCallbackQuery`. It is, therefore, necessary to react by calling `answerCallbackQuery` even if no notification to the user is needed (e.g., without specifying any of the optional parameters).
**Examples**

```python
## Not run:
# Initialize bot
bot <- Bot(token = "TOKEN")
chat_id <- "CHAT_ID"

# Create Inline Keyboard
text <- "Could you type their phone number, please?"
IKM <- InlineKeyboardMarkup(
  inline_keyboard = list(
    list(
      InlineKeyboardButton(1),
      InlineKeyboardButton(2),
      InlineKeyboardButton(3)
    ),
    list(
      InlineKeyboardButton(4),
      InlineKeyboardButton(5),
      InlineKeyboardButton(6)
    ),
    list(
      InlineKeyboardButton(7),
      InlineKeyboardButton(8),
      InlineKeyboardButton(9)
    ),
    list(
      InlineKeyboardButton("x"),
      InlineKeyboardButton(0),
      InlineKeyboardButton("#")
    )
  )
)

# Send Inline Keyboard
botSendMessage(chat_id, text, reply_markup = IKM)

## End(Not run)
```

---

**InlineQueryResult**  
*The base of inline query results*

---

**Description**

Baseclass for the InlineQueryResult* classes.

**Usage**

```r
InlineQueryResult(type, id, ...)
```

```r
is.InlineQueryResult(x)
```
Arguments

- **type**: Type of the result. See the documentation for a list of supported types.
- **id**: Unique identifier for this result, 1-64 Bytes.
- **...**: Additional parameters for the selected type. See the documentation for the description of the parameters depending on the InlineQueryResult type.
- **x**: Object to be tested.

Examples

```r
## Not run:
result <- InlineQueryResult(
  type = "document",
  id = 1,
  title = "Documentation",
  document_url = document_url,
  mime_type = "application/pdf"
)

## End(Not run)
```

---

### KeyboardButton

Create a keyboard button

Description

This object represents one button of the reply keyboard. Optional fields are mutually exclusive.

Usage

```r
KeyboardButton(text, request_contact = NULL, request_location = NULL)
```

Arguments

- **text**: Text of the button. If none of the optional fields are used, it will be sent as a message when the button is pressed.
- **request_contact** *(Optional)*: If TRUE, the user’s phone number will be sent as a contact when the button is pressed. Available in private chats only.
- **request_location** *(Optional)*: If TRUE, the user’s current location will be sent when the button is pressed. Available in private chats only.
- **x**: Object to be tested.
Details

Note: request_contact and request_location options will only work in Telegram versions released after 9 April, 2016. Older clients will ignore them.

---

leaveChat Leave a chat

---

Description

Use this method for your bot to leave a group, supergroup or channel.

Usage

leaveChat(chat_id)

Arguments

chat_id Unique identifier for the target chat or username of the target channel.

Details

You can also use it's snake_case equivalent leave_chat.

---

MessageFilters Filter message updates

---

Description

Predefined filters for use as the filter argument of class MessageHandler.

Usage

MessageFilters

Format

A list with filtering functions.

Details

See BaseFilter and filtersLogic for advanced filters.
Functions

- all: All Messages.
- text: Text Messages.
- command: Messages starting with `/.`.
- reply: Messages that are a reply to another message.
- audio: Messages that contain audio.
- document: Messages that contain document.
- photo: Messages that contain photo.
- sticker: Messages that contain sticker.
- video: Messages that contain video.
- voice: Messages that contain voice.
- contact: Messages that contain contact.
- location: Messages that contain location.
- venue: Messages that are forwarded.
- game: Messages that contain game.

Examples

```r
## Not run:
# Use to filter all video messages
video_handler <- MessageHandler(callback_method, MessageFilters$video)

# To filter all contacts, etc.
contact_handler <- MessageHandler(callback_method, MessageFilters$contact)

## End(Not run)
```

MessageHandler

*Handling messages*

Description

Handler class to handle Telegram messages. They might contain text, media or status updates.

Usage

`MessageHandler(callback, filters = NULL)`

Arguments

- `callback` The callback function for this handler. See `Handler` for information about this function.
- `filters` (Optional). Only allow updates with these filters. Use NULL (default) or `MessageFilters$all` for no filtering. See `MessageFilters` for a full list of all available filters.
ReplyKeyboardMarkup

**Format**

An `R6Class` object.

**Examples**

```r
## Not run:
callback_method <- function(bot, update) {
  chat_id <- update$message$chat_id
  bot$message(chat_id = chat_id, text = "Hello")
}

# No filtering
message_handler <- MessageHandler(callback_method, MessageFilters$all)

## End(Not run)
```

---

**Description**

This object represents a custom keyboard with reply options.

**Usage**

```r
ReplyKeyboardMarkup(keyboard, resize_keyboard = NULL,
                     one_time_keyboard = NULL, selective = NULL)
```

**Arguments**

- `keyboard` List of button rows, each represented by a list of `KeyboardButton` objects.
- `resize_keyboard` (Optional). Requests clients to resize the keyboard vertically for optimal fit. Defaults to FALSE, in which case the custom keyboard is always of the same height as the app's standard keyboard.
- `one_time_keyboard` (Optional). Requests clients to hide the keyboard as soon as it's been used. The keyboard will still be available, but clients will automatically display the usual letter-keyboard in the chat - the user can press a special button in the input field to see the custom keyboard again. Defaults to FALSE.
- `selective` (Optional). Use this parameter if you want to show the keyboard to specific users only.
Examples

```python
## Not run:
# Initialize bot
bot <- Bot(token = "TOKEN")
chat_id <- "CHAT_ID"

# Create Custom Keyboard
text <- "Aren't those custom keyboards cool?"
RKM <- ReplyKeyboardMarkup(
    keyboard = list(
        list(KeyboardButton("Yes, they certainly are!"))),
        list(KeyboardButton("I'm not quite sure")),
        list(KeyboardButton("No..."))
    ),
        resize_keyboard = FALSE,
        one_time_keyboard = TRUE)

# Send Custom Keyboard
bot$sendMessage(chat_id, text, reply_markup = RKM)

## End(Not run)
```

---

**ReplyKeyboardRemove**  
*Remove a keyboard*

**Description**

Upon receiving a message with this object, Telegram clients will remove the current custom keyboard and display the default letter-keyboard. By default, custom keyboards are displayed until a new keyboard is sent by a bot. An exception is made for one-time keyboards that are hidden immediately after the user presses a button (see `ReplyKeyboardMarkup`).

**Usage**

`ReplyKeyboardRemove(remove_keyboard = TRUE, selective = NULL)`

**Arguments**

- `remove_keyboard`
  Requests clients to remove the custom keyboard. (user will not be able to summon this keyboard; if you want to hide the keyboard from sight but keep it accessible, use `one_time_keyboard` in `ReplyKeyboardMarkup`). Defaults to TRUE.

- `selective`  
  (Optional). Use this parameter if you want to show the keyboard to specific users only.
sendAnimation

Examples

## Not run:
# Initialize bot
bot <- Bot(token = "TOKEN")
chat_id <- "CHAT_ID"

# Create Custom Keyboard
text <- "Don't forget to send me the answer!"
RKM <- ReplyKeyboardMarkup(
  keyboard = list(
    list(KeyboardButton("Yes, they certainly are!")),
    list(KeyboardButton("I'm not quite sure")),
    list(KeyboardButton("No..."))
  ),
  resize_keyboard = FALSE,
  one_time_keyboard = FALSE
)

# Send Custom Keyboard
bot$sendMessage(chat_id, text, reply_markup = RKM)

# Remove Keyboard
bot$sendMessage(
  chat_id,
  "Okay, thanks!",
  reply_markup = ReplyKeyboardRemove()
)

## End(Not run)

---

sendAnimation

Send animation files

Description

Use this method to send animation files (GIF or H.264/MPEG-4 AVC video without sound).

Usage

sendAnimation(chat_id, animation, duration = NULL, width = NULL,
  height = NULL, caption = NULL, parse_mode = NULL,
  disable_notification = FALSE, reply_to_message_id = NULL,
  reply_markup = NULL)

Arguments

chat_id Unique identifier for the target chat or username of the target channel.
animation Animation to send. Pass a file_id as String to send an animation that exists on the Telegram servers (recommended), pass an HTTP URL as a String for Telegram to get an animation from the Internet, or upload a local file by passing a file path.
duration (Optional). Duration of sent audio in seconds.
width (Optional). Video width.
height (Optional). Video height.
caption (Optional). Animation caption, 0-1024 characters.
parse_mode (Optional). Send 'Markdown' or 'HTML', if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in your bot's message.
disable_notification (Optional). Sends the message silently. Users will receive a notification with no sound.
reply_to_message_id (Optional). If the message is a reply, ID of the original message.
reply_markup (Optional). A Reply Markup parameter object, it can be either:
  • ReplyKeyboardMarkup
  • InlineKeyboardMarkup
  • ReplyKeyboardRemove
  • ForceReply

Details

You can also use it's snake_case equivalent send_animation.

Examples

```
## Not run:
bot <- Bot(token = bot_token("RTelegramBot"))
chat_id <- user_id("Me")
amination_url <- "http://techslides.com/demos/sample-videos/small.mp4"

bot$sendAnimation(
  chat_id = chat_id,
  animation = animation_url
)

## End(Not run)
```

sendAudio Send audio files

Description

Use this method to send audio files, if you want Telegram clients to display them in the music player. Your audio must be in the .mp3 format. On success, the sent Message is returned. Bots can currently send audio files of up to 50 MB in size, this limit may be changed in the future. For sending voice messages, use the sendVoice method instead.
**Usage**

```python
sendAudio(chat_id = NULL, audio = NULL,
          duration = NULL, performer = NULL,
          title = NULL, caption = NULL, disable_notification = FALSE,
          reply_to_message_id = NULL, reply_markup = NULL, parse_mode = NULL)
```

**Arguments**

- **chat_id**
  Unique identifier for the target chat or username of the target channel.

- **audio**
  Audio file to send. Pass a file_id as String to send an audio that exists on the Telegram servers (recommended), pass an HTTP URL as a String for Telegram to get an audio from the Internet, or upload a local audio file by passing a file path.

- **duration**
  (Optional). Duration of sent audio in seconds.

- **performer**
  (Optional). Performer.

- **title**
  (Optional). Track name.

- **caption**
  (Optional). Audio caption, 0-1024 characters.

- **disable_notification**
  (Optional). Sends the message silently. Users will receive a notification with no sound.

- **reply_to_message_id**
  (Optional). If the message is a reply, ID of the original message.

- **reply_markup**
  (Optional). A Reply Markup parameter object, it can be either:
  - `ReplyKeyboardMarkup`
  - `InlineKeyboardMarkup`
  - `ReplyKeyboardRemove`
  - `ForceReply`

- **parse_mode**
  (Optional). Send 'Markdown' or 'HTML', if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in your bot's message.

**Details**

You can also use its snake_case equivalent `send_audio`.

**Examples**

```r
## Not run:
bot <- Bot(token = bot_token("RTelegramBot"))
chat_id <- user_id("Me")
audio_url <- "http://www.largesound.com/ashborytour/sound/brobob.mp3"

bot$sendAudio(
  chat_id = chat_id,
  audio = audio_url
)
## End(Not run)
```
sendChatAction  

Send a chat action

Description
Use this method when you need to tell the user that something is happening on the bot’s side. The status is set for 5 seconds or less (when a message arrives from your bot, Telegram clients clear its typing status).

Usage
sendChatAction(chat_id, action)

Arguments
chat_id Unique identifier for the target chat or username of the target channel.
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
• upload_video for videos
• record_video for video recording
• upload_audio for audio files
• record_audio for audio file recording
• upload_document for general files
• find_location for location data
• upload_video_note for video notes
• record_video_note for video note recording

Details
You can also use its snake_case equivalent send_chat_action.

Examples
```r
## Not run:
bot <- Bot(token = bot_token("RTelegramBot"))
chat_id <- user_id("Me")

bot$sendChatAction(
  chat_id = chat_id,
  action = "typing"
)

## End(Not run)
```
sendDocument

Description

Use this method to send general files.

Usage

sendDocument(chat_id, document, filename = NULL, caption = NULL,
              disable_notification = FALSE, reply_to_message_id = NULL,
              reply_markup = NULL, parse_mode = NULL)

Arguments

- **chat_id**: Unique identifier for the target chat or username of the target channel.
- **document**: File to send. Pass a file_id as String to send a file that exists on the Telegram servers (recommended), pass an HTTP URL as a String for Telegram to get a file from the Internet, or upload a local file by passing a file path.
- **filename** (Optional): File name that shows in telegram message.
- **caption** (Optional): Document caption, 0-1024 characters.
- **disable_notification** (Optional): Sends the message silently. Users will receive a notification with no sound.
- **reply_to_message_id** (Optional): If the message is a reply, ID of the original message.
- **reply_markup** (Optional): A Reply Markup parameter object, it can be either:
  - `ReplyKeyboardMarkup`
  - `InlineKeyboardMarkup`
  - `ReplyKeyboardRemove`
  - `ForceReply`
- **parse_mode** (Optional): Send 'Markdown' or 'HTML', if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in your bot’s message.

Details

You can also use it’s snake_case equivalent `send_document`.

Examples

```r
# Not run:
bot <- Bot(token = bot_token("RTelegramBot"))
chat_id <- user_id("Me")
document_url <- paste0(  
```
sendLocation

Send point on the map

Description

Use this method to send point on the map.

Usage

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

Arguments

- `chat_id` Unique identifier for the target chat or username of the target channel.
- `latitude` Latitude of location.
- `longitude` Longitude of location.
- `disable_notification` (Optional). Sends the message silently. Users will receive a notification with no sound.
- `reply_to_message_id` (Optional). If the message is a reply, ID of the original message.
- `reply_markup` (Optional). A Reply Markup parameter object, it can be either:
  - `ReplyKeyboardMarkup`
  - `InlineKeyboardMarkup`
  - `ReplyKeyboardRemove`
  - `ForceReply`

Details

You can also use it’s snake_case equivalent `send_location`.
sendMessage

Examples

```r
## Not run:
bot <- Bot(token = bot_token("RTelegramBot"))
chat_id <- user_id("Me")

bot$sendLocation(
  chat_id = chat_id,
  latitude = 51.521727,
  longitude = -0.117255
)

## End(Not run)
```

---

sendMessage | Send text messages

**Description**

Use this method to send text messages.

**Usage**

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

**Arguments**

- **chat_id**: Unique identifier for the target chat or username of the target channel.
- **text**: Text of the message to be sent.
- **parse_mode** *(Optional)*: Send 'Markdown' or 'HTML', if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in your bot’s message.
- **disable_web_page_preview** *(Optional)*: Disables link previews for links in this message.
- **disable_notification** *(Optional)*: Sends the message silently. Users will receive a notification with no sound.
- **reply_to_message_id** *(Optional)*: If the message is a reply, ID of the original message.
- **reply_markup** *(Optional)*: A Reply Markup parameter object, it can be either:
  - `ReplyKeyboardMarkup`
  - `InlineKeyboardMarkup`
  - `ReplyKeyboardRemove`
  - `ForceReply`
**Details**

You can also use its snake_case equivalent send_message.

**Examples**

```r
## Not run:
bot <- Bot(token = bot_token("RTelegramBot"))
chat_id <- user_id("Me")

bot$sendMessage(
  chat_id = chat_id,
  text = "foo *bold* _italic_",
  parse_mode = "Markdown"
)

## End(Not run)
```

---

**sendPhoto**  
*Send image files*

**Description**

Use this method to send photos.

**Usage**

```r
sendPhoto(chat_id, photo, caption = NULL, disable_notification = FALSE,
  reply_to_message_id = NULL, reply_markup = NULL, parse_mode = NULL)
```

**Arguments**

- **chat_id**  
  Unique identifier for the target chat or username of the target channel.

- **photo**  
  Photo to send. Pass a file_id as String to send a photo that exists on the Telegram servers (recommended), pass an HTTP URL as a String for Telegram to get a photo from the Internet, or upload a local photo by passing a file path.

- **caption**  
  (Optional). Photo caption (may also be used when re-sending photos by file_id), 0-1024 characters.

- **disable_notification**  
  (Optional). Sends the message silently. Users will receive a notification with no sound.

- **reply_to_message_id**  
  (Optional). If the message is a reply, ID of the original message.

- **reply_markup**  
  (Optional). A Reply Markup parameter object, it can be either:
  - ReplyKeyboardMarkup
  - InlineKeyboardMarkup
  - ReplyKeyboardRemove
sendSticker

• ForceReply

parse_mode (Optional). Send 'Markdown' or 'HTML', if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in your bot’s message.

Details

You can also use it’s snake_case equivalent send_photo.

Examples

```python
# Not run:
bot <- Bot(token = bot_token("RTelegramBot"))
chat_id <- user_id("Me")
photo_url <- "https://telegram.org/img/t_logo.png"

bot$sendPhoto(
  chat_id = chat_id,
  photo = photo_url,
  caption = "Telegram Logo"
)

# End(Not run)
```

sendSticker

Send a sticker

Description

Use this method to send .webp stickers.

Usage

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

Arguments

- **chat_id**: Unique identifier for the target chat or username of the target channel.
- **sticker**: Sticker to send. Pass a file_id as String to send a file that exists on the Telegram servers (recommended), pass an HTTP URL as a String for Telegram to get a .webp file from the Internet, or upload a local one by passing a file path.
- **disable_notification** (Optional). Sends the message silently. Users will receive a notification with no sound.
- **reply_to_message_id** (Optional). If the message is a reply, ID of the original message.
- **reply_markup** (Optional). A Reply Markup parameter object, it can be either:
Details

You can also use it’s snake_case equivalent send_sticker.

Examples

```r
## Not run:
bot <- Bot(token = bot_token("RTelegramBot"))
chat_id <- user_id("Me")
sticker_url <- "https://www.gstatic.com/webp/gallery/1.webp"

bot$sendSticker(
  chat_id = chat_id,
  sticker = sticker_url
)

## End(Not run)
```

Description

Use this method to send video files. Telegram clients support mp4 videos (other formats may be sent as Document).

Usage

```r
sendVideo(chat_id, video, duration = NULL, caption = NULL,
  disable_notification = FALSE, reply_to_message_id = NULL,
  reply_markup = NULL, width = NULL, height = NULL,
  parse_mode = NULL, supports_streaming = NULL)
```

Arguments

- `chat_id`: Unique identifier for the target chat or username of the target channel.
- `video`: Video file to send. Pass a file_id as String to send a video that exists on the Telegram servers (recommended), pass an HTTP URL as a String for Telegram to get a video from the Internet, or upload a local video file by passing a file path.
- `duration`: (Optional). Duration of sent audio in seconds.
- `caption`: (Optional). Video caption, 0-1024 characters.
**sendVideoNote**

Send video messages

---

**Description**

Use this method to send video messages.

**Usage**

```r
sendVideoNote(chat_id, video_note, duration = NULL, length = NULL,
    disable_notification = FALSE, reply_to_message_id = NULL,
    reply_markup = NULL)
```
Arguments

- **chat_id**: Unique identifier for the target chat or username of the target channel.
- **video_note**: Video note file to send. Pass a file_id as String to send a video note that exists on the Telegram servers (recommended), pass an HTTP URL as a String for Telegram to get a video note from the Internet, or upload a local video note file by passing a file path.
- **duration**: (Optional). Duration of sent audio in seconds.
- **length**: (Optional). Video width and height.
- **disable_notification**: (Optional). Sends the message silently. Users will receive a notification with no sound.
- **reply_to_message_id**: (Optional). If the message is a reply, ID of the original message.
- **reply_markup**: (Optional). A Reply Markup parameter object, it can be either:
  - ReplyKeyboardMarkup
  - InlineKeyboardMarkup
  - ReplyKeyboardRemove
  - ForceReply

Details

You can also use its snake_case equivalent `send_video_note`.

Examples

```r
## Not run:
bot <- Bot(token = bot_token("RTelegramBot"))
chat_id <- user_id("Me")
video_note_url <- "http://techslides.com/demos/sample-videos/small.mp4"

bot$sendVideoNote(
  chat_id = chat_id,
  video_note = video_note_url
)

## End(Not run)
```

Description

Use this method to send audio files, if you want Telegram clients to display the file as a playable voice message. For this to work, your audio must be in an .ogg file encoded with OPUS (other formats may be sent with `sendAudio` or `sendDocument`).
sendVoice

Usage

sendVoice(chat_id, voice, duration = NULL, caption = NULL,
          disable_notification = FALSE, reply_to_message_id = NULL,
          reply_markup = NULL, parse_mode = NULL)

Arguments

chat_id Unique identifier for the target chat or username of the target channel.
voice Voice file to send. Pass a file_id as String to send a voice file that exists on the Telegram servers (recommended), pass an HTTP URL as a String for Telegram to get a voice file from the Internet, or upload a local voice file by passing a file path.
duration (Optional). Duration of sent audio in seconds.
caption (Optional). Voice message caption, 0-1024 characters.
disable_notification (Optional). Sends the message silently. Users will receive a notification with no sound.
reply_to_message_id (Optional). If the message is a reply, ID of the original message.
reply_markup (Optional). A Reply Markup parameter object, it can be either:
  • ReplyKeyboardMarkup
  • InlineKeyboardMarkup
  • ReplyKeyboardRemove
  • ForceReply
parse_mode (Optional). Send 'Markdown' or 'HTML', if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in your bot's message.

Details

You can also use it's snake_case equivalent send_voice.

Examples

```r
## Not run:
bot <- Bot(token = bot_token("RTelegramBot"))
chat_id <- user_id("Me")
ogg_url <- "https://upload.wikimedia.org/wikipedia/commons/c/c8/Example.ogg"

bot$sendVoice(
  chat_id = chat_id,
  voice = ogg_url
)

## End(Not run)
```
**Description**

Use this method to specify a url and receive incoming updates via an outgoing webhook. Whenever there is an update for the bot, we will send an HTTPS POST request to the specified url, containing a JSON-serialized Update.

**Usage**

```c
setWebhook(url = NULL, certificate = NULL, max_connections = 40L, allowed_updates = NULL)
```

**Arguments**

- `url` HTTPS url to send updates to. Use an empty string to remove webhook integration.
- `certificate` (Optional). Upload your public key certificate so that the root certificate in use can be checked. See Telegram’s self-signed guide for details.
- `max_connections` (Optional). Maximum allowed number of simultaneous HTTPS connections to the webhook for update delivery, 1-100. Defaults to 40. Use lower values to limit the load on your bot’s server, and higher values to increase your bot’s throughput.
- `allowed_updates` (Optional). String or vector of strings with the types of updates you want your bot to receive. For example, specify c("message", "edited_channel_post", "callback_query") to only receive updates of these types. See Update for a complete list of available update types. Specify an empty string to receive all updates regardless of type (default). If not specified, the previous setting will be used.

Please note that this parameter doesn’t affect updates created before the call to the get_updates, so unwanted updates may be received for a short period of time.

**Details**

If you’d like to make sure that the webhook request comes from Telegram, we recommend using a secret path in the URL, e.g. `https://www.example.com/<token>`.

You can also use it’s snake_case equivalent `set_webhook`.
set_token

Change your bot’s auth token

Description

Use this method to change your bot’s auth token.

Usage

```
set_token(token)
```

Arguments

token

The bot’s token given by the BotFather.

start_polling

Start polling

Description

Starts polling updates from Telegram. You can stop the polling either by using the the interrupt R command in the session menu or with the stop_polling method.

Usage

```
start_polling(timeout = 10L, clean = FALSE, allowed_updates = NULL, verbose = FALSE)
```

Arguments

timeout

(Optional). Passed to getUpdates. Default is 10.

clean

(Optional). Whether to clean any pending updates on Telegram servers before actually starting to poll. Default is FALSE.

allowed_updates

(Optional). Passed to getUpdates.

verbose

(Optional). If TRUE, prints status of the polling. Default is FALSE.
Examples

```r
## Not run:
# Start polling example
start <- function(bot, update) {
  bot$send_message(
    chat_id = update$message$chat_id,
    text = sprintf("Hello %s!", update$message$from$first_name)
  )
}
}

updater <- Updater("TOKEN") + CommandHandler("start", start)
updater$start_polling(verbose = TRUE)

## End(Not run)
```

---

**Description**

Stops the polling. Requires no parameters.

**Usage**

```r
stop_polling()
```

**Examples**

```r
## Not run:
# Example of a 'kill' command
kill <- function(bot, update) {
  bot$send_message(
    chat_id = update$message$chat_id,
    text = "Bye!"
  )
  # Clean 'kill' update
  bot$get_updates(offset = update$update_id + 1)
  # Stop the updater polling
  updater$stop_polling()
}

updater <<- updater + CommandHandler("kill", kill)

updater$start_polling(verbose = TRUE) # Send '/kill' to the bot

## End(Not run)
```
TelegramObject

**Description**

Base class for most telegram objects.

**Usage**

```python
TelegramObject

isTelegramObject(x)
```

**Arguments**

- `x` Object to be tested.

**Format**

An `R6Class` generator object.

---

Update

**Description**

This object represents an incoming Update.

**Usage**

```python
Update(data)

isUpdate(x)
```

**Arguments**

- `data` Data of the update.
- `x` Object to be tested.

**Format**

An `R6Class` object.
Methods

- `from_chat_id` To get the id from the update’s effective chat.
- `from_user_id` To get the id from the update’s effective user.
- `effective_chat` To get the chat that this update was sent in, no matter what kind of update this is.
- `effective_user` To get the user that sent this update, no matter what kind of update this is.
- `effective_message` To get the message included in this update, no matter what kind of update this is.

Updater

Description

This class, which employs the class `Dispatcher`, provides a front-end to class `Bot` to the programmer, so you can focus on coding the bot. Its purpose is to receive the updates from Telegram and to deliver them to said dispatcher. The dispatcher supports `Handler` classes for different kinds of data: Updates from Telegram, basic text commands and even arbitrary types. See `add()` to learn more about building your `Updater`.

Usage

```r
Updater(token = NULL, base_url = NULL, base_file_url = NULL,
         request_config = NULL, bot = NULL)

is.Updater(x)
```

Arguments

- `token` (Optional). The bot’s token given by the `BotFather`.
- `base_url` (Optional). Telegram Bot API service URL.
- `base_file_url` (Optional). Telegram Bot API file URL.
- `request_config` (Optional). Additional configuration settings to be passed to the bot’s POST requests. See the `config` parameter from `httr::POST` for further details. The `request_config` settings are very useful for the advanced users who would like to control the default timeouts and/or control the proxy used for HTTP communication.
- `bot` (Optional). A pre-initialized `Bot` instance.
- `x` Object to be tested.

Format

An `R6Class` object.
Details

Note: You must supply either a bot or a token argument.

Methods

- **start_polling**: Starts polling updates from Telegram.
- **stop_polling**: Stops the polling.

References

- Bots: An introduction for developers and Telegram Bot API

Examples

```r
## Not run:
updater <- Updater(token = "TOKEN")

# In case you want to set a proxy (see ?httr::use_proxy)
updater <- Updater(
  token = "TOKEN",
  request_config = httr::use_proxy(...) )

# Add a handler
start <- function(bot, update) {
  bot$message(    
    chat_id = update$message$chat_id, 
    text = sprintf("Hello %s", 
      update$message$from$first_name 
  )
  )
}
updater <- updater + CommandHandler("start", start)

# Start polling
updater$start_polling(verbose = TRUE) # Send '/start' to the bot

## End(Not run)
```

---

**user_id**

Get a user from environment

**Description**

Obtain Telegram user id from system variables (in .Renviron) set according to the naming convention R_TELEGRAM_USER_X where X is the user's name.
Usage

`user_id(user_name)`

Arguments

user_name The user's name.

Examples

```r
## Not run:
# Open the `.Renviron` file
file.edit(path.expand(file.path("~", ".Renviron")))
# Add the line (uncomment and replace <user-id> by your Telegram user ID):
# R TELEGRAM_USER_Me=<user-id>
# Save and restart R

user_id("Me")

## End(Not run)
```
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