

python-telegram-bot Documentation

Release 13.12

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CHAPTER

ONE

GUIDES AND TUTORIALS

If you're just starting out with the library, we recommend following our "Your first Bot" tutorial that you can find on our wiki. On our wiki you will also find guides like how to use handlers, webhooks, emoji, proxies and much more.

CHAPTER TWO

EXAMPLES

A great way to learn is by looking at examples. Ours can be found in our examples folder on Github.

THREE

REFERENCE

Below you can find a reference of all the classes and methods in python-telegram-bot. Apart from the *telegram.ext* package the objects should reflect the types defined in the official Telegram Bot API documentation.

3.1 telegram.ext package

3.1.1 telegram.ext.ExtBot

Bases: telegram.bot.Bot

This object represents a Telegram Bot with convenience extensions.

Warning: Not to be confused with telegram.Bot.

For the documentation of the arguments, methods and attributes, please see telegram.Bot.

New in version 13.6.

Parameters

- **defaults** (telegram.ext.Defaults, optional) An object containing default values to be used if not set explicitly in the bot methods.
- arbitrary_callback_data (boollint, optional) Whether to allow arbitrary objects as callback data for telegram. InlineKeyboardButton. Pass an integer to specify the maximum number of objects cached in memory. For more details, please see our wiki. Defaults to False.

arbitrary_callback_data

Whether this bot instance allows to use arbitrary objects as callback data for telegram. InlineKeyboardButton.

Type boollint

callback data cache

The cache for objects passed as callback data for telegram. InlineKeyboardButton.

Type telegram.ext.CallbackDataCache

insert_callback_data(self, update)

If this bot allows for arbitrary callback data, this inserts the cached data into all corresponding buttons within this update.

Note: Checks telegram.Message.via_bot and telegram.Message.from_user to check if the reply markup (if any) was actually sent by this caches bot. If it was not, the message will be returned unchanged.

Note that this will fail for channel posts, as telegram. Message.from_user is None for those! In the corresponding reply markups the callback data will be replaced by telegram.ext. InvalidCallbackData.

Warning: *In place*, i.e. the passed *telegram*. *Message* will be changed!

 $\label{parameters} \textbf{(}\textit{update)} - class\texttt{`telegram.Update'}\texttt{)}. \ The \ update.$

3.1.2 telegram.ext.Updater

```
class telegram.ext.Updater(token=None,
                                               base url=None,
                                                                workers=4,
                                                                             bot=None,
                                                              private_key_password=None,
                                private_key=None,
                                user_sig_handler=None,
                                                          request_kwargs=None,
                                                                                  per-
                                sistence=None,
                                                   defaults=None,
                                                                       use_context=True,
                                dispatcher=None,
                                                        base_file_url=None,
                                                                                  arbi-
                                trary_callback_data=False, context_types=None)
            Generic[telegram.ext.utils.types.CCT, telegram.ext.utils.types.UD,
     telegram.ext.utils.types.CD, telegram.ext.utils.types.BD]
```

This class, which employs the <code>telegram.ext.Dispatcher</code>, provides a frontend to <code>telegram.Bot</code> to the programmer, so they can focus on coding the bot. Its purpose is to receive the updates from Telegram and to deliver them to said dispatcher. It also runs in a separate thread, so the user can interact with the bot, for example on the command line. The dispatcher supports handlers for different kinds of data: Updates from Telegram, basic text commands and even arbitrary types. The updater can be started as a polling service or, for production, use a webhook to receive updates. This is achieved using the WebhookServer and WebhookHandler classes.

Note:

- You must supply either a bot or a token argument.
- If you supply a bot, you will need to pass arbitrary_callback_data, and defaults to the bot instead of the telegram.ext.Updater. In this case, you'll have to use the class telegram.ext.ExtBot.

Changed in version 13.6.

Parameters

- **token** (str, optional) The bot's token given by the @BotFather.
- base url (str, optional) Base url for the bot.
- base_file_url (str, optional) Base_file_url for the bot.
- workers (int, optional) Amount of threads in the thread pool for functions decorated with @run_async (ignored if *dispatcher* argument is used).
- **bot** (telegram. Bot, optional) A pre-initialized bot instance (ignored if *dispatcher* argument is used). If a pre-initialized bot is used, it is the user's responsibility to create it using a *Request* instance with a large enough connection pool.

- **dispatcher** (telegram.ext.Dispatcher, optional) A pre-initialized dispatcher instance. If a pre-initialized dispatcher is used, it is the user's responsibility to create it with proper arguments.
- private_key (bytes, optional) Private key for decryption of telegram passport data.
- private_key_password (bytes, optional) Password for above private key.
- user_sig_handler (function, optional) Takes signum, frame as positional arguments. This will be called when a signal is received, defaults are (SIGINT, SIGTERM, SIGABRT) settable with idle.
- request_kwargs (dict, optional) Keyword args to control the creation of a *tele-gram.utils.request.Request* object (ignored if *bot* or *dispatcher* argument is used). The request_kwargs are very useful for the advanced users who would like to control the default timeouts and/or control the proxy used for http communication.
- use_context (bool, optional) If set to True uses the context based callback API (ignored if *dispatcher* argument is used). Defaults to True. New users: set this to True.
- **persistence** (telegram.ext.BasePersistence, optional) The persistence class to store data that should be persistent over restarts (ignored if *dispatcher* argument is used).
- **defaults** (telegram.ext.Defaults, optional) An object containing default values to be used if not set explicitly in the bot methods.
- arbitrary_callback_data (bool | int | None, optional) Whether to allow arbitrary objects as callback data for telegram. InlineKeyboardButton. Pass an integer to specify the maximum number of cached objects. For more details, please see our wiki. Defaults to False.

New in version 13.6.

• context_types (telegram.ext.ContextTypes, optional) — Pass an instance of telegram.ext.ContextTypes to customize the types used in the context interface. If not passed, the defaults documented in telegram.ext. ContextTypes will be used.

New in version 13.6.

Raises ValueError – If both token and bot are passed or none of them.

bot

The bot used with this Updater.

Type telegram.Bot

user_sig_handler

Optional. Function to be called when a signal is received.

Type function

update_queue

Queue for the updates.

Type Queue

job_queue

Jobqueue for the updater.

Type telegram.ext.JobQueue

dispatcher

Dispatcher that handles the updates and dispatches them to the handlers.

Type telegram.ext.Dispatcher

running

Indicates if the updater is running.

Type bool

persistence

Optional. The persistence class to store data that should be persistent over restarts.

Type telegram.ext.BasePersistence

use_context

Optional. True if using context based callbacks.

Type bool

idle (stop_signals=(<Signals.SIGINT: 2>, <Signals.SIGTERM: 15>, <Signals.SIGABRT: 6>))
Blocks until one of the signals are received and stops the updater.

Parameters stop_signals (list | tuple) - List containing signals from the signal module that should be subscribed to. *Updater.stop()* will be called on receiving one of those signals. Defaults to (SIGINT, SIGTERM, SIGABRT).

Parameters

- **poll_interval** (float, optional) Time to wait between polling updates from Telegram in seconds. Default is 0.0.
- timeout (float, optional) Passed to telegram. Bot.get_updates().
- **drop_pending_updates** (bool, optional) Whether to clean any pending updates on Telegram servers before actually starting to poll. Default is False.

New in version 13.4.

• clean (bool, optional) - Alias for drop_pending_updates.

Deprecated since version 13.4: Use drop_pending_updates instead.

- bootstrap_retries (int, optional) Whether the bootstrapping phase of the telegram.ext.Updater will retry on failures on the Telegram server.
 - < 0 retry indefinitely (default)
 - 0 no retries
 - ->0 retry up to X times
- allowed_updates (List[str], optional) Passed to telegram.Bot. get_updates().
- read_latency (float | int, optional) Grace time in seconds for receiving the reply from server. Will be added to the timeout value and used as the read timeout from server (Default: 2).

Returns The update queue that can be filled from the main thread.

Return type Queue

Starts a small http server to listen for updates via webhook. If cert and key are not provided, the webhook will be started directly on http://listen:port/url_path, so SSL can be handled by another application. Else, the webhook will be started on https://listen:port/url_path. Also calls telegram. Bot.set_webhook() as required.

Changed in version 13.4: $start_webhook()$ now always calls telegram. $Bot.set_webhook()$, so pass $webhook_url$ instead of calling updater.bot. $set_webhook(webhook_url)$ manually.

Parameters

- listen (str, optional) IP-Address to listen on. Default 127.0.0.1.
- port (int, optional) Port the bot should be listening on. Default 80.
- url_path (str, optional) Path inside url.
- **cert** (str, optional) Path to the SSL certificate file.
- **key** (str, optional) Path to the SSL key file.
- **drop_pending_updates** (bool, optional) Whether to clean any pending updates on Telegram servers before actually starting to poll. Default is False.

New in version 13.4.

• clean (bool, optional) - Alias for drop_pending_updates.

Deprecated since version 13.4: Use drop_pending_updates instead.

- **bootstrap_retries** (int, optional) Whether the bootstrapping phase of the *telegram.ext.Updater* will retry on failures on the Telegram server.
 - < 0 retry indefinitely (default)
 - 0 no retries
 - ->0 retry up to X times
- webhook_url (str, optional) Explicitly specify the webhook url. Useful behind NAT, reverse proxy, etc. Default is derived from listen, port & url_path.
- ip_address (str, optional) Passed to telegram.Bot.set_webhook().

 New in version 13.4.
- allowed_updates (List[str], optional) Passed to telegram.Bot. set_webhook().
- **force_event_loop** (bool, optional) Legacy parameter formerly used for a workaround on Windows + Python 3.8+. No longer has any effect.

Deprecated since version 13.6: Since version 13.6, tornade>=6.1 is required, which resolves the former issue.

• max_connections (int, optional) - Passed to telegram.Bot. set_webhook().

New in version 13.6.

Returns The update queue that can be filled from the main thread.

Return type Queue

stop()

Stops the polling/webhook thread, the dispatcher and the job queue.

3.1.3 telegram.ext.Dispatcher

Bases: Generic[telegram.ext.utils.types.CCT, telegram.ext.utils.types.UD, telegram.ext.utils.types.CD, telegram.ext.utils.types.BD]

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

Parameters

- **bot** (telegram.Bot) The bot object that should be passed to the handlers.
- update_queue (Queue) The synchronized queue that will contain the updates.
- job_queue (telegram.ext.JobQueue, optional) The telegram.ext. JobQueue instance to pass onto handler callbacks.
- workers (int, optional) Number of maximum concurrent worker threads for the @run async decorator and run async(). Defaults to 4.
- **persistence** (*telegram.ext.BasePersistence*, optional) The persistence class to store data that should be persistent over restarts.
- use_context (bool, optional) If set to True uses the context based callback API (ignored if *dispatcher* argument is used). Defaults to True. New users: set this to True.
- context_types (telegram.ext.ContextTypes, optional) Pass an instance of telegram.ext.ContextTypes to customize the types used in the context interface. If not passed, the defaults documented in telegram.ext. ContextTypes will be used.

New in version 13.6.

bot

The bot object that should be passed to the handlers.

Type telegram.Bot

update_queue

The synchronized queue that will contain the updates.

Type Queue

job_queue

Optional. The telegram.ext.JobQueue instance to pass onto handler callbacks.

Type telegram.ext.JobQueue

workers

Number of maximum concurrent worker threads for the @run_async decorator and run_async().

Type int, optional

user_data

A dictionary handlers can use to store data for the user.

Type defaultdict

chat data

A dictionary handlers can use to store data for the chat.

Type defaultdict

bot_data

A dictionary handlers can use to store data for the bot.

Type dict

persistence

Optional. The persistence class to store data that should be persistent over restarts.

```
Type telegram.ext.BasePersistence
```

context_types

Container for the types used in the context interface.

New in version 13.6.

```
Type telegram.ext.ContextTypes
```

add_error_handler(callback, run_async=False)

Registers an error handler in the Dispatcher. This handler will receive every error which happens in your bot.

Note: Attempts to add the same callback multiple times will be ignored.

Warning: The errors handled within these handlers won't show up in the logger, so you need to make sure that you reraise the error.

Parameters

• **callback** (callable) – The callback function for this error handler. Will be called when an error is raised. Callback signature for context based API:

```
def callback(update: object, context: CallbackContext)
```

The error that happened will be present in context.error.

• run_async (bool, optional) – Whether this handlers callback should be run asynchronously using run_async(). Defaults to False.

Note: See https://github.com/python-telegram-bot/python-telegram-bot/wiki /Transition-guide-to-Version-12.0 for more info about switching to context based API.

add_handler(handler, group=0)

Register a handler.

TL;DR: Order and priority counts. 0 or 1 handlers per group will be used. End handling of update with telegram.ext.DispatcherHandlerStop.

A handler must be an instance of a subclass of <code>telegram.ext.Handler</code>. All handlers are organized in groups with a numeric value. The default group is 0. All groups will be evaluated for handling an update, but only 0 or 1 handler per group will be used. If <code>telegram.ext.DispatcherHandlerStop</code> is raised from one of the handlers, no further handlers (regardless of the group) will be called.

The priority/order of handlers is determined as follows:

- Priority of the group (lower group number == higher priority)
- The first handler in a group which should handle an update (see telegram.ext.Handler. check_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.

Parameters

• handler (telegram.ext.Handler) - A Handler instance.

• group (int, optional) – The group identifier. Default is 0.

dispatch_error (update, error, promise=None)

Dispatches an error.

Parameters

- update (object | telegram. Update) The update that caused the error.
- error (Exception) The error that was raised.
- **promise** (telegram.utils.Promise, optional) The promise whose pooled function raised the error.

error handlers

A dict, where the keys are error handlers and the values indicate whether they are to be run asynchronously.

```
Type Dict[callable, bool]
```

classmethod get_instance()

Get the singleton instance of this class.

```
Returns telegram.ext.Dispatcher
```

Raises RuntimeError -

groups

A list with all groups.

```
Type List[int]
```

handlers

Holds the handlers per group.

```
Type Dict[int, List[telegram.ext.Handler]]
```

process_update(update)

Processes a single update and updates the persistence.

Note: If the update is handled by least one synchronously running handlers (i.e. run_async=False), $update_persistence()$ is called *once* after all handlers synchronous handlers are done. Each asynchronously running handler will trigger $update_persistence()$ on its own.

```
Parameters update (telegram.Update | object | telegram.error.
TelegramError) - The update to process.
```

remove error handler(callback)

Removes an error handler.

Parameters callback (callable) – The error handler to remove.

remove_handler(handler, group=0)

Remove a handler from the specified group.

Parameters

- handler (telegram.ext.Handler) A Handler instance.
- group (object, optional) The group identifier. Default is 0.

```
run_async (func, *args, update=None, **kwargs)
```

Queue a function (with given args/kwargs) to be run asynchronously. Exceptions raised by the function will be handled by the error handlers registered with add_error_handler().

Warning:

- If you're using @run_async/run_async() you cannot rely on adding custom attributes to telegram.ext.CallbackContext. See its docs for more info.
- Calling a function through run_async() from within an error handler can lead to an infinite error handling loop.

Parameters

- func (callable) The function to run in the thread.
- *args (tuple, optional) Arguments to func.
- **update** (*telegram.Update* | object, optional) The update associated with the functions call. If passed, it will be available in the error handlers, in case an exception is raised by func.
- **kwargs (dict, optional) Keyword arguments to func.

Returns Promise

running

Indicates if this dispatcher is running.

```
Type bool
```

```
start (ready=None)
```

Thread target of thread 'dispatcher'.

Runs in background and processes the update queue.

Parameters ready (threading.Event, optional) – If specified, the event will be set once the dispatcher is ready.

stop()

Stops the thread.

update_persistence (update=None)

```
Update user_data, chat_data and bot_data in persistence.
```

Parameters update (telegram. Update, optional) – The update to process. If passed, only the corresponding user_data and chat_data will be updated.

3.1.4 telegram.ext.DispatcherHandlerStop

```
class telegram.ext.DispatcherHandlerStop(state=None)
    Bases: Exception
```

Raise this in handler to prevent execution of any other handler (even in different group).

In order to use this exception in a telegram.ext.ConversationHandler, pass the optional state parameter instead of returning the next state:

```
def callback(update, context):
    ...
    raise DispatcherHandlerStop(next_state)
```

state

Optional. The next state of the conversation.

```
Type object
```

Parameters state (object, optional) – The next state of the conversation.

3.1.5 telegram.ext.CallbackContext

class telegram.ext.CallbackContext (dispatcher)

This is a context object passed to the callback called by telegram.ext.Handler or by the telegram.ext.Dispatcher in an error handler added by telegram.ext.Dispatcher.add_error_handler or to the callback of a telegram.ext.Job.

Note: telegram.ext.Dispatcher will create a single context for an entire update. This means that if you got 2 handlers in different groups and they both get called, they will get passed the same *Callback-Context* object (of course with proper attributes like .matches differing). This allows you to add custom attributes in a lower handler group callback, and then subsequently access those attributes in a higher handler group callback. Note that the attributes on *CallbackContext* might change in the future, so make sure to use a fairly unique name for the attributes.

Warning: Do not combine custom attributes and @run_async/telegram.ext.Disptacher.run_async(). Due to how run_async works, it will almost certainly execute the callbacks for an update out of order, and the attributes that you think you added will not be present.

Parameters dispatcher (telegram.ext.Dispatcher) - The dispatcher associated with this context.

matches

Optional. If the associated update originated from a regex-supported handler or had a Filters. regex, this will contain a list of match objects for every pattern where re.search (pattern, string) returned a match. Note that filters short circuit, so combined regex filters will not always be evaluated.

Type List[re match object]

args

Optional. Arguments passed to a command if the associated update is handled by telegram.ext.CommandHandler, telegram.ext.PrefixHandler or telegram.ext.StringCommandHandler. It contains a list of the words in the text after the command, using any whitespace string as a delimiter.

Type List[str]

error

Optional. The error that was raised. Only present when passed to a error handler registered with telegram.ext.Dispatcher.add_error_handler.

Type Exception

async_args

Optional. Positional arguments of the function that raised the error. Only present when the raising function was run asynchronously using telegram.ext.Dispatcher.run_async().

Type List[object]

async_kwargs

Optional. Keyword arguments of the function that raised the error. Only present when the raising function was run asynchronously using telegram.ext.Dispatcher.run_async().

Type Dict[str, object]

job

Optional. The job which originated this callback. Only present when passed to the callback of telegram.ext.Job.

Type telegram.ext.Job

property bot

The bot associated with this context.

Type telegram.Bot

property bot_data

Optional. A dict that can be used to keep any data in. For each update it will be the same dict.

Type dict

property chat_data

Optional. A dict that can be used to keep any data in. For each update from the same chat id it will be the same dict.

Warning: When a group chat migrates to a supergroup, its chat id will change and the chat_data needs to be transferred. For details see our wiki page.

Type dict

property dispatcher

The dispatcher associated with this context.

Type telegram.ext.Dispatcher

drop_callback_data(callback_query)

Deletes the cached data for the specified callback query.

New in version 13.6.

Note: Will *not* raise exceptions in case the data is not found in the cache. *Will* raise KeyError in case the callback query can not be found in the cache.

Parameters callback query (telegram. CallbackQuery) - The callback query.

Raises KeyError | RuntimeError - KeyError, if the callback query can not be found in the cache and RuntimeError, if the bot doesn't allow for arbitrary callback data.

Constructs an instance of telegram.ext.CallbackContext to be passed to the error handlers.

See also:

telegram.ext.Dispatcher.add_error_handler()

Parameters

- update (object | telegram. Update) The update associated with the error. May be None, e.g. for errors in job callbacks.
- error (Exception) The error.
- **dispatcher** (telegram.ext.Dispatcher) The dispatcher associated with this context.
- async_args (List[object]) Optional. Positional arguments of the function that raised the error. Pass only when the raising function was run asynchronously using telegram.ext.Dispatcher.run_async().
- async_kwargs (Dict[str,object]) Optional. Keyword arguments of the function that raised the error. Pass only when the raising function was run asynchronously using telegram.ext.Dispatcher.run_async().

Returns telegram.ext.CallbackContext

classmethod from_job (job, dispatcher)

Constructs an instance of telegram.ext.CallbackContext to be passed to a job callback.

See also:

```
telegram.ext.JobQueue()
```

Parameters

- job (telegram.ext.Job) The job.
- dispatcher (telegram.ext.Dispatcher) The dispatcher associated with this context.

Returns telegram.ext.CallbackContext

classmethod from_update(update, dispatcher)

Constructs an instance of telegram.ext.CallbackContext to be passed to the handlers.

See also:

```
telegram.ext.Dispatcher.add_handler()
```

Parameters

- update (object | telegram. Update) The update.
- dispatcher (telegram.ext.Dispatcher) The dispatcher associated with this context.

Returns telegram.ext.CallbackContext

property job_queue

The JobQueue used by the telegram.ext.Dispatcher and (usually) the telegram.ext.Updater associated with this context.

```
Type telegram.ext.JobQueue
```

property match

The first match from matches. Useful if you are only filtering using a single regex filter. Returns *None* if matches is empty.

Type Regex match type

refresh_data()

```
If dispatcher uses persistence, calls telegram.ext.BasePersistence. refresh_bot_data() on bot_data, telegram.ext.BasePersistence. refresh_chat_data() on chat_data and telegram.ext.BasePersistence. refresh_user_data() on user_data, if appropriate.
```

New in version 13.6.

update (data)

Updates self.__slots__ with the passed data.

Parameters data (Dict[str, object]) - The data.

property update_queue

The Queue instance used by the telegram.ext.Dispatcher and (usually) the telegram.ext.Updater associated with this context.

Type queue.Queue

property user_data

Optional. A dict that can be used to keep any data in. For each update from the same user it will be the same dict.

Type dict

3.1.6 telegram.ext.Job

class telegram.ext.Job(callback, context=None, name=None, job_queue=None, job=None)
 Bases: object

This class is a convenience wrapper for the jobs held in a telegram.ext.JobQueue. With the current backend APScheduler, job holds a apscheduler.job.Job instance.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their id is equal.

Note:

- All attributes and instance methods of *job* are also directly available as attributes/methods of the corresponding *telegram.ext.Job* object.
- Two instances of telegram.ext.Job are considered equal, if their corresponding job attributes have the same id.
- If job isn't passed on initialization, it must be set manually afterwards for this telegram.ext.

 Job to be useful.

Parameters

• **callback** (callable) – The callback function that should be executed by the new job. Callback signature for context based API:

```
def callback(CallbackContext)
```

a context.job is the telegram.ext.Job instance. It can be used to access its job.context or change it to a repeating job.

- **context** (object, optional) Additional data needed for the callback function. Can be accessed through job.context in the callback. Defaults to None.
- name (str, optional) The name of the new job. Defaults to callback.__name__.
- job_queue (telegram.ext.JobQueue, optional) The JobQueue this job belongs to. Only optional for backward compatibility with JobQueue.put().
- job (apscheduler.job.Job, optional) The APS Job this job is a wrapper for.

callback

The callback function that should be executed by the new job.

```
Type callable
```

context

Optional. Additional data needed for the callback function.

```
Type object
```

name

Optional. The name of the new job.

```
Type str
```

job_queue

Optional. The JobQueue this job belongs to.

```
Type telegram.ext.JobQueue
```

job

Optional. The APS Job this job is a wrapper for.

Type apscheduler.job.Job

property enabled

Whether this job is enabled.

Type bool

property next_t

Datetime for the next job execution. Datetime is localized according to tzinfo. If job is removed or already ran it equals to None.

Type datetime.datetime

property removed

Whether this job is due to be removed.

Type bool

run (dispatcher)

Executes the callback function independently of the jobs schedule.

schedule_removal()

Schedules this job for removal from the JobQueue. It will be removed without executing its callback function again.

3.1.7 telegram.ext.JobQueue

class telegram.ext.JobQueue

Bases: object

This class allows you to periodically perform tasks with the bot. It is a convenience wrapper for the AP-Scheduler library.

scheduler

The APScheduler

Type apscheduler.schedulers.background.BackgroundScheduler

bot

The bot instance that should be passed to the jobs. DEPRECATED: Use set_dispatcher instead.

```
Type telegram.Bot
```

get_jobs_by_name (name)

Returns a tuple of all pending/scheduled jobs with the given name that are currently in the JobQueue.

jobs()

Returns a tuple of all scheduled jobs that are currently in the JobQueue.

run_custom(callback, job_kwargs, context=None, name=None)

Creates a new customly defined Job.

Parameters

• **callback** (callable) – The callback function that should be executed by the new job. Callback signature for context based API:

```
def callback(CallbackContext)
```

context.job is the telegram.ext.Job instance. It can be used to access its job.context or change it to a repeating job.

- job_kwargs (dict) Arbitrary keyword arguments. Used as arguments for scheduler.add_job.
- context (object, optional) Additional data needed for the callback function. Can be accessed through job.context in the callback. Defaults to None.

• name (str, optional) — The name of the new job. Defaults to callback.
__name__.

Returns The new Job instance that has been added to the job queue.

Return type telegram.ext.Job

Creates a new Job that runs on a daily basis and adds it to the queue.

Note: For a note about DST, please see the documentation of APScheduler.

Parameters

• **callback** (callable) – The callback function that should be executed by the new job. Callback signature for context based API:

```
def callback(CallbackContext)
```

context.job is the telegram.ext.Job instance. It can be used to access its job.context or change it to a repeating job.

- **time** (datetime.time) Time of day at which the job should run. If the timezone (time.tzinfo) is None, the default timezone of the bot will be used.
- **days** (Tuple[int], optional) Defines on which days of the week the job should run (where 0-6 correspond to monday sunday). Defaults to EVERY_DAY
- **context** (object, optional) Additional data needed for the callback function. Can be accessed through job.context in the callback. Defaults to None.
- name (str, optional) The name of the new job. Defaults to callback.
 __name__.
- job_kwargs (dict, optional) Arbitrary keyword arguments to pass to the scheduler.add_job().

Returns The new Job instance that has been added to the job queue.

Return type telegram.ext.Job

Creates a new Job that runs on a monthly basis and adds it to the queue.

Parameters

• **callback** (callable) – The callback function that should be executed by the new job. Callback signature for context based API:

```
def callback(CallbackContext)
```

context.job is the telegram.ext.Job instance. It can be used to access its job.context or change it to a repeating job.

- when (datetime.time) Time of day at which the job should run. If the timezone (when.tzinfo) is None, the default timezone of the bot will be used.
- day (int) Defines the day of the month whereby the job would run. It should be within the range of 1 and 31, inclusive.
- **context** (object, optional) Additional data needed for the callback function. Can be accessed through job.context in the callback. Defaults to None.
- name (str, optional) The name of the new job. Defaults to callback. __name__.

- day_is_strict (bool, optional) If False and day > month.days, will pick the last day in the month. Defaults to True.
- job_kwargs (dict, optional) Arbitrary keyword arguments to pass to the scheduler.add_job().

Returns The new Job instance that has been added to the job queue.

Return type telegram.ext.Job

run_once (callback, when, context=None, name=None, job_kwargs=None)

Creates a new Job that runs once and adds it to the queue.

Parameters

• callback (callable) – The callback function that should be executed by the new job. Callback signature for context based API:

```
def callback(CallbackContext)
```

context.job is the telegram.ext.Job instance. It can be used to access its job.context or change it to a repeating job.

- when (int | float | datetime.timedelta | datetime.datetime | datetime.time) Time in or at which the job should run. This parameter will be interpreted depending on its type.
 - int or float will be interpreted as "seconds from now" in which the job should run.
 - datetime.timedelta will be interpreted as "time from now" in which the job should run.
 - datetime.datetime will be interpreted as a specific date and time at which the job should run. If the timezone (datetime.tzinfo) is None, the default timezone of the bot will be used.
 - datetime.time will be interpreted as a specific time of day at which the job should run. This could be either today or, if the time has already passed, tomorrow.
 If the timezone (time.tzinfo) is None, the default timezone of the bot will be used.
- **context** (object, optional) Additional data needed for the callback function. Can be accessed through job.context in the callback. Defaults to None.
- name (str, optional) The name of the new job. Defaults to callback.
 __name__.
- job_kwargs (dict, optional) Arbitrary keyword arguments to pass to the scheduler.add_job().

Returns The new Job instance that has been added to the job queue.

Return type telegram.ext.Job

 $\begin{tabular}{ll} {\bf run_repeating} (callback, & interval, & first=None, & last=None, & context=None, & name=None, & job_kwargs=None) \end{tabular}$

Creates a new Job that runs at specified intervals and adds it to the queue.

Note: For a note about DST, please see the documentation of APScheduler.

Parameters

• callback (callable) – The callback function that should be executed by the new job. Callback signature for context based API:

def callback(CallbackContext)

context.job is the telegram.ext.Job instance. It can be used to access its job.context or change it to a repeating job.

- interval (int | float | datetime.timedelta) The interval in which the job will run. If it is an int or a float, it will be interpreted as seconds.
- **first** (int | float | datetime.timedelta | datetime.datetime | datetime.time, optional) Time in or at which the job should run. This parameter will be interpreted depending on its type.
 - int or float will be interpreted as "seconds from now" in which the job should
 - datetime.timedelta will be interpreted as "time from now" in which the job should run.
 - datetime.datetime will be interpreted as a specific date and time at which
 the job should run. If the timezone (datetime.tzinfo) is None, the default
 timezone of the bot will be used.
 - datetime.time will be interpreted as a specific time of day at which the job should run. This could be either today or, if the time has already passed, tomorrow.
 If the timezone (time.tzinfo) is None, the default timezone of the bot will be used.

Defaults to interval

• last (int | float | datetime.timedelta | datetime.datetime | datetime.time, optional) — Latest possible time for the job to run. This parameter will be interpreted depending on its type. See first for details.

If last is datetime.datetime or datetime.time type and last.tzinfo is None, the default timezone of the bot will be assumed.

Defaults to None.

- context (object, optional) Additional data needed for the callback function. Can be accessed through job.context in the callback. Defaults to None.
- name (str, optional) The name of the new job. Defaults to callback.

 __name__.
- job_kwargs (dict, optional) Arbitrary keyword arguments to pass to the scheduler.add_job().

Returns The new Job instance that has been added to the job queue.

Return type telegram.ext.Job

set_dispatcher (dispatcher)

Set the dispatcher to be used by this JobQueue. Use this instead of passing a telegram. Bot to the JobQueue, which is deprecated.

Parameters dispatcher (telegram.ext.Dispatcher) - The dispatcher.

start()

Starts the job_queue thread.

stop()

Stops the thread.

3.1.8 telegram.ext.MessageQueue

Bases: object

Implements callback processing with proper delays to avoid hitting Telegram's message limits. Contains two DelayQueue, for group and for all messages, interconnected in delay chain. Callables are processed through *group* DelayQueue, then through *all* DelayQueue for group-type messages. For non-group messages, only the *all* DelayQueue is used.

Deprecated since version 13.3: telegram.ext.MessageQueue in its current form is deprecated and will be reinvented in a future release. See this thread for a list of known bugs.

Parameters

- all_burst_limit (int, optional) Number of maximum *all-type* callbacks to process per time-window defined by all_time_limit_ms. Defaults to 30.
- all_time_limit_ms (int, optional) Defines width of *all-type* time-window used when each processing limit is calculated. Defaults to 1000 ms.
- group_burst_limit (int, optional) Number of maximum *group-type* callbacks to process per time-window defined by group_time_limit_ms. Defaults to 20.
- **group_time_limit_ms** (int, optional) Defines width of *group-type* time-window used when each processing limit is calculated. Defaults to 60000 ms.
- exc_route (callable, optional) A callable, accepting one positional argument; used to route exceptions from processor threads to main thread; is called on Exception subclass exceptions. If not provided, exceptions are routed through dummy handler, which re-raises them.
- autostart (bool, optional) If True, processors are started immediately after object's creation; if False, should be started manually by *start* method. Defaults to True.

```
\_call\_(promise, is\_group\_msg=False)
```

Processes callables in throughput-limiting queues to avoid hitting limits (specified with $burst_limit$ and $time_limit$.

Parameters

- **promise** (callable) Mainly the telegram.utils.promise.Promise (see Notes for other callables), that is processed in delay queues.
- is_group_msg (bool, optional) Defines whether promise would be processed in group*+*all* DelayQueue``s (if set to :obj:`True`), or only through *all* ``DelayQueue (if set to False), resulting in needed delays to avoid hitting specified limits. Defaults to False.

Note: Method is designed to accept telegram.utils.promise.Promise as promise argument, but other callables could be used too. For example, lambdas or simple functions could be used to wrap original func to be called with needed args. In that case, be sure that either wrapper func does not raise outside exceptions or the proper exc_route handler is provided.

```
Returns Used as promise argument.

Return type callable
```

__init__(all_burst_limit=30, all_time_limit_ms=1000, group_burst_limit=20, group_time_limit_ms=60000, exc_route=None, autostart=True)

Initialize self. See help(type(self)) for accurate signature.

__weakref_

list of weak references to the object (if defined)

start()

Method is used to manually start the MessageQueue processing.

stop(timeout=None)

Used to gently stop processor and shutdown its thread.

Parameters timeout (float) – Indicates maximum time to wait for processor to stop and its thread to exit. If timeout exceeds and processor has not stopped, method silently returns. is_alive could be used afterwards to check the actual status. timeout set to None, blocks until processor is shut down. Defaults to None.

3.1.9 telegram.ext.DelayQueue

Bases: threading. Thread

Processes callbacks from queue with specified throughput limits. Creates a separate thread to process callbacks with delays.

Deprecated since version 13.3: telegram.ext.DelayQueue in its current form is deprecated and will be reinvented in a future release. See this thread for a list of known bugs.

Parameters

- **queue** (Queue, optional) Used to pass callbacks to thread. Creates Queue implicitly if not provided.
- burst_limit (int, optional) Number of maximum callbacks to process per time-window defined by time_limit_ms. Defaults to 30.
- time_limit_ms (int, optional) Defines width of time-window used when each processing limit is calculated. Defaults to 1000.
- **exc_route** (callable, optional) A callable, accepting 1 positional argument; used to route exceptions from processor thread to main thread; is called on *Exception* subclass exceptions. If not provided, exceptions are routed through dummy handler, which re-raises them.
- autostart (bool, optional) If True, processor is started immediately after object's creation; if False, should be started manually by *start* method. Defaults to True.
- name (str, optional) Thread's name. Defaults to 'DelayQueue-N', where N is sequential number of object created.

burst_limit

Number of maximum callbacks to process per time-window.

Type int

time limit

Defines width of time-window used when each processing limit is calculated.

Type int

exc_route

A callable, accepting 1 positional argument; used to route exceptions from processor thread to main thread;

Type callable

name

Thread's name.

Type str

___call___(func, *args, **kwargs)

Used to process callbacks in throughput-limiting thread through queue.

Parameters

- func (callable) The actual function (or any callable) that is processed through
 queue.
- *args (list) Variable-length func arguments.
- **kwargs (dict) Arbitrary keyword-arguments to func.

__init__ (queue=None, burst_limit=30, time_limit_ms=1000, exc_route=None, autostart=True, name=None)

This constructor should always be called with keyword arguments. Arguments are:

group should be None; reserved for future extension when a ThreadGroup class is implemented.

target is the callable object to be invoked by the run() method. Defaults to None, meaning nothing is called.

name is the thread name. By default, a unique name is constructed of the form "Thread-N" where N is a small decimal number.

args is the argument tuple for the target invocation. Defaults to ().

kwargs is a dictionary of keyword arguments for the target invocation. Defaults to {}.

If a subclass overrides the constructor, it must make sure to invoke the base class constructor (Thread.__init__()) before doing anything else to the thread.

run()

Do not use the method except for unthreaded testing purposes, the method normally is automatically called by autostart argument.

stop (timeout=None)

Used to gently stop processor and shutdown its thread.

Parameters timeout (float) - Indicates maximum time to wait for processor to stop and its thread to exit. If timeout exceeds and processor has not stopped, method silently returns. is_alive could be used afterwards to check the actual status. timeout set to None, blocks until processor is shut down. Defaults to None.

3.1.10 telegram.ext.ContextTypes

Bases: Generic[telegram.ext.utils.types.CCT, telegram.ext.utils.types.UD, telegram.ext.utils.types.CD, telegram.ext.utils.types.BD]

Convenience class to gather customizable types of the telegram.ext.CallbackContext interface.

New in version 13.6.

Parameters

- context (type, optional) Determines the type of the context argument of all (error-)handler callbacks and job callbacks. Must be a subclass of telegram.ext. CallbackContext. Defaults to telegram.ext.CallbackContext.
- **bot_data** (type, optional) Determines the type of context.bot_data of all (error-)handler callbacks and job callbacks. Defaults to dict. Must support instantiating without arguments.

- **chat_data** (type, optional) Determines the type of context.chat_data of all (error-)handler callbacks and job callbacks. Defaults to dict. Must support instantiating without arguments.
- user_data (type, optional) Determines the type of context.user_data of all (error-)handler callbacks and job callbacks. Defaults to dict. Must support instantiating without arguments.

3.1.11 telegram.ext.Defaults

Bases: object

Convenience Class to gather all parameters with a (user defined) default value

Parameters

- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or URLs in your bot's message.
- **disable_notification** (bool, optional) Sends the message silently. Users will receive a notification with no sound.
- **disable_web_page_preview** (bool, optional) Disables link previews for links in this message.
- allow_sending_without_reply (bool, optional) Pass True, if the message should be sent even if the specified replied-to message is not found.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).

Note: Will not be used for telegram.Bot.get_updates()!

- quote (bool, optional) If set to True, the reply is sent as an actual reply to the message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.
- tzinfo (tzinfo, optional) A timezone to be used for all date(time) inputs appearing throughout PTB, i.e. if a timezone naive date(time) object is passed somewhere, it will be assumed to be in tzinfo. Must be a timezone provided by the pytz module. Defaults to UTC.
- run_async (bool, optional) Default setting for the run_async parameter of handlers and error handlers registered through <code>Dispatcher.add_handler()</code> and <code>Dispatcher.add_error_handler()</code>. Defaults to False.

property allow_sending_without_reply

Optional. Pass True, if the message should be sent even if the specified replied-to message is not found.

Type bool

property disable_notification

Optional. Sends the message silently. Users will receive a notification with no sound.

Type bool

property disable_web_page_preview

Optional. Disables link previews for links in this message.

Type bool

property explanation_parse_mode

Optional. Alias for parse_mode, used for the corresponding parameter of telegram.Bot.send_poll().

Type str

property parse_mode

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

Type str

property quote

Optional. If set to True, the reply is sent as an actual reply to the message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

Type bool

property run_async

Optional. Default setting for the run_async parameter of handlers and error handlers registered through <code>Dispatcher.add_handler()</code> and <code>Dispatcher.add_error_handler()</code>.

Type bool

property timeout

Optional. If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).

Type intlfloat

property tzinfo

A timezone to be used for all date(time) objects appearing throughout PTB.

Type tzinfo

3.1.12 Handlers

telegram.ext.Handler

Bases: Generic[telegram.ext.handler.UT, telegram.ext.utils.types.CCT], abc. ABC

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

Note: pass_user_data and pass_chat_data determine whether a dict you can use to keep any data in will be sent to the callback function. Related to either the user or the chat that the update was sent in. For each update from the same user or in the same chat, it will be the same dict.

Note that this is DEPRECATED, and you should use context based callbacks. See https://github.com/python-telegram-bot/python-telegram-bot/wiki/Transition-guide-to-Version-12.0 for more info.

Warning: When setting run_async to True, you cannot rely on adding custom attributes to telegram.ext.CallbackContext. See its docs for more info.

Parameters

• callback (callable) – The callback function for this handler. Will be called when check_update has determined that an update should be processed by this handler. Callback signature for context based API:

```
def callback(update: Update, context: CallbackContext)
```

The return value of the callback is usually ignored except for the special case of telegram.ext.ConversationHandler.

- pass_update_queue (bool, optional) If set to True, a keyword argument called update_queue will be passed to the callback function. It will be the Queue instance used by the telegram.ext.Updater and telegram.ext.Dispatcher that contains new updates which can be used to insert updates. Default is False. DEPRECATED: Please switch to context based callbacks.
- pass_job_queue (bool, optional) If set to True, a keyword argument called job_queue will be passed to the callback function. It will be a telegram.ext. JobQueue instance created by the telegram.ext.Updater which can be used to schedule new jobs. Default is False. DEPRECATED: Please switch to context based callbacks.
- pass_user_data (bool, optional) If set to True, a keyword argument called user_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- pass_chat_data (bool, optional) If set to True, a keyword argument called chat_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- run_async (bool) Determines whether the callback will run asynchronously. Defaults to False.

callback

The callback function for this handler.

Type callable

pass_update_queue

Determines whether update_queue will be passed to the callback function.

Type bool

pass_job_queue

Determines whether job_queue will be passed to the callback function.

Type bool

pass_user_data

Determines whether user data will be passed to the callback function.

Type bool

pass_chat_data

Determines whether chat data will be passed to the callback function.

Type bool

run_async

Determines whether the callback will run asynchronously.

Type bool

abstract check_update(update)

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

Note: Custom updates types can be handled by the dispatcher. Therefore, an implementation of this method should always check the type of update.

Parameters update (str | telegram. Update) - The update to be tested.

Returns Either None or False if the update should not be handled. Otherwise an object that will be passed to <code>handle_update()</code> and <code>collect_additional_context()</code> when the update gets handled.

collect_additional_context (context, update, dispatcher, check_result)
Prepares additional arguments for the context. Override if needed.

Parameters

- context (telegram.ext.CallbackContext) The context object.
- update (telegram. Update) The update to gather chat/user id from.
- dispatcher (telegram.ext.Dispatcher) The calling dispatcher.
- **check_result** The result (return value) from <code>check_update</code>.

collect_optional_args (dispatcher, update=None, check_result=None)

Prepares the optional arguments. If the handler has additional optional args, it should subclass this method, but remember to call this super method.

DEPRECATED: This method is being replaced by new context based callbacks. Please see https://github.com/python-telegram-bot/python-telegram-bot/wiki /Transition-guide-to-Version-12.0 for more info.

Parameters

- dispatcher (telegram.ext.Dispatcher) The dispatcher.
- update (telegram. Update) The update to gather chat/user id from.
- **check_result** The result from check_update

handle_update (update, dispatcher, check_result, context=None)

This method is called if it was determined that an update should indeed be handled by this instance. Calls <code>callback</code> along with its respectful arguments. To work with the <code>telegram.ext.ConversationHandler</code>, this method returns the value returned from <code>callback</code>. Note that it can be overridden if needed by the subclassing handler.

Parameters

- update (str | telegram. Update) The update to be handled.
- dispatcher (telegram.ext.Dispatcher) The calling dispatcher.
- **check_result** (obj) The result from *check_update*.
- **context** (telegram.ext.CallbackContext, optional) The context as provided by the dispatcher.

telegram.ext.CallbackQueryHandler

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

Read the documentation of the re module for more information.

Note:

• pass_user_data and pass_chat_data determine whether a dict you can use to keep any data in will be sent to the callback function. Related to either the user or the chat that the update was sent in. For each update from the same user or in the same chat, it will be the same dict.

Note that this is DEPRECATED, and you should use context based callbacks. See https://github.com/python-telegram-bot/python-telegram-bot/wiki /Transition-guide-to-Version-12.0 for more info.

• If your bot allows arbitrary objects as callback_data, it may happen that the original callback_data for the incoming telegram.CallbackQuery` can not be found. This is the case when either a malicious client tempered with the callback_data or the data was simply dropped from cache or not persisted. In these cases, an instance of telegram.ext. InvalidCallbackData will be set as callback_data.

New in version 13.6.

Warning: When setting run_async to True, you cannot rely on adding custom attributes to telegram.ext.CallbackContext. See its docs for more info.

Parameters

• callback (callable) – The callback function for this handler. Will be called when check_update has determined that an update should be processed by this handler.
Callback signature for context based API:

```
def callback(update: Update, context:
CallbackContext)
```

The return value of the callback is usually ignored except for the special case of telegram.ext.ConversationHandler.

- pass_update_queue (bool, optional) If set to True, a keyword argument called update_queue will be passed to the callback function. It will be the Queue instance used by the telegram.ext.Updater and telegram.ext.Dispatcher that contains new updates which can be used to insert updates. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- pass_job_queue (bool, optional) If set to True, a keyword argument called job_queue will be passed to the callback function. It will be a telegram.ext. JobQueue instance created by the telegram.ext.Updater which can be used to schedule new jobs. Default is False. DEPRECATED: Please switch to context based callbacks.
- pattern (str| Pattern | callable | type, optional) Pattern to test telegram. CallbackQuery.data against. If a string or a regex pattern is passed, re. match() is used on telegram.CallbackQuery.data to determine if an up-

date should be handled by this handler. If your bot allows arbitrary objects as callback_data, non-strings will be accepted. To filter arbitrary objects you may pass

- a callable, accepting exactly one argument, namely the telegram.
 CallbackQuery.data. It must return True or False/None to indicate, whether the update should be handled.
- a type. If telegram. CallbackQuery. data is an instance of that type (or a subclass), the update will be handled.

If telegram.CallbackQuery.data is None, the telegram. CallbackQuery update will not be handled.

Changed in version 13.6: Added support for arbitrary callback data.

- pass_groups (bool, optional) If the callback should be passed the result of re. match (pattern, data).groups() as a keyword argument called groups. Default is False DEPRECATED: Please switch to context based callbacks.
- pass_groupdict (bool, optional) If the callback should be passed the result of re.match (pattern, data).groupdict() as a keyword argument called groupdict. Default is False DEPRECATED: Please switch to context based callbacks.
- pass_user_data (bool, optional) If set to True, a keyword argument called user_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- pass_chat_data (bool, optional) If set to True, a keyword argument called chat_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- run_async (bool) Determines whether the callback will run asynchronously. Defaults to False.

callback

The callback function for this handler.

Type callable

pass_update_queue

Determines whether update_queue will be passed to the callback function.

Type bool

pass_job_queue

Determines whether job_queue will be passed to the callback function.

Type bool

pattern

Optional. Regex pattern, callback or type to test telegram. CallbackQuery. data against.

Changed in version 13.6: Added support for arbitrary callback data.

Type Pattern | callable | type

pass_groups

Determines whether groups will be passed to the callback function.

Type bool

pass_groupdict

Determines whether groupdict. will be passed to the callback function.

Type bool

pass_user_data

Determines whether user_data will be passed to the callback function.

Type bool

pass_chat_data

Determines whether chat data will be passed to the callback function.

Type bool

run_async

Determines whether the callback will run asynchronously.

Type bool

check_update(update)

Determines whether an update should be passed to this handlers callback.

Parameters update (telegram. Update | object) - Incoming update.

Returns bool

collect_additional_context (context, update, dispatcher, check_result)

Add the result of re.match(pattern, update.callback_query.data) to CallbackContext.matches as list with one element.

collect_optional_args (dispatcher, update=None, check_result=None)

Pass the results of re.match (pattern, data). {groups(), groupdict()} to the callback as a keyword arguments called groups and groupdict, respectively, if needed.

telegram.ext.ChatJoinRequestHandler

Handler class to handle Telegram updates that contain a chat join request.

Note: pass_user_data and pass_chat_data determine whether a dict you can use to keep any data in will be sent to the callback function. Related to either the user or the chat that the update was sent in. For each update from the same user or in the same chat, it will be the same dict.

Note that this is DEPRECATED, and you should use context based callbacks. See https://github.com/python-telegram-bot/python-telegram-bot/wiki/Transition-guide-to-Version-12.0 for more info.

Warning: When setting run_async to True, you cannot rely on adding custom attributes to telegram.ext.CallbackContext. See its docs for more info.

New in version 13.8.

Parameters

• callback (callable) – The callback function for this handler. Will be called when check_update has determined that an update should be processed by this handler. Callback signature for context based API:

```
def callback(update: Update, context: CallbackContext)
```

The return value of the callback is usually ignored except for the special case of telegram.ext.ConversationHandler.

- pass_update_queue (bool, optional) If set to True, a keyword argument called update_queue will be passed to the callback function. It will be the Queue instance used by the telegram.ext.Updater and telegram.ext.Dispatcher that contains new updates which can be used to insert updates. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- pass_job_queue (bool, optional) If set to True, a keyword argument called job_queue will be passed to the callback function. It will be a telegram.ext. JobQueue instance created by the telegram.ext.Updater which can be used to schedule new jobs. Default is False. DEPRECATED: Please switch to context based callbacks.
- pass_user_data (bool, optional) If set to True, a keyword argument called user_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- pass_chat_data (bool, optional) If set to True, a keyword argument called chat_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- run_async (bool) Determines whether the callback will run asynchronously. Defaults to False.

callback

The callback function for this handler.

Type callable

pass_update_queue

Determines whether update_queue will be passed to the callback function.

Type bool

pass_job_queue

Determines whether job_queue will be passed to the callback function.

Type bool

pass_user_data

Determines whether user_data will be passed to the callback function.

Type bool

pass_chat_data

Determines whether chat_data will be passed to the callback function.

Type bool

run_async

Determines whether the callback will run asynchronously.

Type bool

check_update(update)

Determines whether an update should be passed to this handlers *callback*.

Parameters update (telegram. Update | object) - Incoming update.

Returns bool

telegram.ext.ChatMemberHandler

Handler class to handle Telegram updates that contain a chat member update.

New in version 13.4.

Note: pass_user_data and pass_chat_data determine whether a dict you can use to keep any data in will be sent to the callback function. Related to either the user or the chat that the update was sent in. For each update from the same user or in the same chat, it will be the same dict.

Note that this is DEPRECATED, and you should use context based callbacks. See https://github.com/python-telegram-bot/python-telegram-bot/wiki/Transition-guide-to-Version-12.0 for more info.

Warning: When setting run_async to True, you cannot rely on adding custom attributes to telegram.ext.CallbackContext. See its docs for more info.

Parameters

• callback (callable) – The callback function for this handler. Will be called when check_update has determined that an update should be processed by this handler.
Callback signature for context based API:

```
def callback(update: Update, context: CallbackContext)
```

The return value of the callback is usually ignored except for the special case of telegram.ext.ConversationHandler.

- chat_member_types (int, optional) Pass one of MY_CHAT_MEMBER, CHAT_MEMBER or ANY_CHAT_MEMBER to specify if this handler should handle only updates with telegram.Update.my_chat_member, telegram.Update.chat_member or both. Defaults to MY_CHAT_MEMBER.
- pass_update_queue (bool, optional) If set to True, a keyword argument called update_queue will be passed to the callback function. It will be the Queue instance used by the telegram.ext.Updater and telegram.ext.Dispatcher that contains new updates which can be used to insert updates. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- pass_job_queue (bool, optional) If set to True, a keyword argument called job_queue will be passed to the callback function. It will be a telegram.ext. JobQueue instance created by the telegram.ext.Updater which can be used to schedule new jobs. Default is False. DEPRECATED: Please switch to context based callbacks.
- pass_user_data (bool, optional) If set to True, a keyword argument called user_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- pass_chat_data (bool, optional) If set to True, a keyword argument called chat_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- run_async (bool) Determines whether the callback will run asynchronously. Defaults to False.

callback

The callback function for this handler.

Type callable

chat_member_types

Specifies if this handler should handle only updates with telegram. Update. my_chat_member, telegram. Update.chat_member or both.

Type int, optional

pass_update_queue

Determines whether update_queue will be passed to the callback function.

Type bool

pass_job_queue

Determines whether job_queue will be passed to the callback function.

Type bool

pass_user_data

Determines whether user_data will be passed to the callback function.

Type bool

pass_chat_data

Determines whether chat_data will be passed to the callback function.

Type bool

run_async

Determines whether the callback will run asynchronously.

Type bool

ANY_CHAT_MEMBER: ClassVar[int] = 1

Used as a constant to handle bot telegram. Update.my_chat_member and telegram. Update.chat_member.

Type int

CHAT_MEMBER: ClassVar[int] = 0

Used as a constant to handle only telegram. Update.chat_member.

Type int

MY_CHAT_MEMBER: ClassVar[int] = -1

Used as a constant to handle only telegram. Update.my_chat_member.

Type int

check_update(update)

Determines whether an update should be passed to this handlers callback.

Parameters update (telegram. Update | object) - Incoming update.

Returns bool

telegram.ext.ChosenInlineResultHandler

Bases: telegram.ext.handler.Handler[telegram.update.Update, telegram.ext.utils.types.CCT]

Handler class to handle Telegram updates that contain a chosen inline result.

Note: pass_user_data and pass_chat_data determine whether a dict you can use to keep any data in will be sent to the callback function. Related to either the user or the chat that the update was sent in. For each update from the same user or in the same chat, it will be the same dict.

Note that this is DEPRECATED, and you should use context based callbacks. See https://github.com/python-telegram-bot/python-telegram-bot/wiki/Transition-guide-to-Version-12.0 for more info.

Warning: When setting run_async to True, you cannot rely on adding custom attributes to telegram.ext.CallbackContext. See its docs for more info.

Parameters

• callback (callable) – The callback function for this handler. Will be called when check_update has determined that an update should be processed by this handler. Callback signature for context based API:

```
def callback(update: Update, context: CallbackContext)
```

The return value of the callback is usually ignored except for the special case of telegram.ext.ConversationHandler.

- pass_update_queue (bool, optional) If set to True, a keyword argument called update_queue will be passed to the callback function. It will be the Queue instance used by the telegram.ext.Updater and telegram.ext.Dispatcher that contains new updates which can be used to insert updates. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- pass_job_queue (bool, optional) If set to True, a keyword argument called job_queue will be passed to the callback function. It will be a telegram.ext. JobQueue instance created by the telegram.ext.Updater which can be used to schedule new jobs. Default is False. DEPRECATED: Please switch to context based callbacks.
- pass_user_data (bool, optional) If set to True, a keyword argument called user_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- pass_chat_data (bool, optional) If set to True, a keyword argument called chat_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- run_async (bool) Determines whether the callback will run asynchronously. Defaults to False.
- pattern (str | Pattern, optional) Regex pattern. If not None, re.match is used on telegram. ChosenInlineResult.result_id to determine if an update should be handled by this handler. This is accessible in the callback as telegram. ext.CallbackContext.matches.

New in version 13.6.

callback

The callback function for this handler.

Type callable

pass_update_queue

Determines whether update_queue will be passed to the callback function.

Type bool

pass_job_queue

Determines whether job_queue will be passed to the callback function.

Type bool

pass_user_data

Determines whether user_data will be passed to the callback function.

Type bool

pass_chat_data

Determines whether chat_data will be passed to the callback function.

Type bool

run_async

Determines whether the callback will run asynchronously.

Type bool

pattern

Optional. Regex pattern to test telegram. ChosenInlineResult.result_id against.

New in version 13.6.

Type Pattern

check_update(update)

Determines whether an update should be passed to this handlers *callback*.

Parameters update (telegram. Update | object) - Incoming update.

Returns bool

collect_additional_context (context, update, dispatcher, check_result)

This function adds the matched regex pattern result to telegram.ext.CallbackContext.matches.

telegram.ext.CommandHandler

```
class telegram.ext.CommandHandler(command, callback, filters=None, allow_edited=None, pass_args=False, pass_update_queue=False, pass_job_queue=False, pass_user_data=False, pass
```

Bases: telegram.ext.handler.Handler[telegram.update.Update, telegram.ext.utils.types.CCT]

Handler class to handle Telegram commands.

Commands are Telegram messages that start with /, optionally followed by an @ and the bot's name and/or some additional text. The handler will add a list to the <code>CallbackContext</code> named <code>CallbackContext.args</code>. It will contain a list of strings, which is the text following the command split on single or consecutive whitespace characters.

By default the handler listens to messages as well as edited messages. To change this behavior use ~Filters.update.edited_message in the filter argument.

Note:

- CommandHandler does not handle (edited) channel posts.
- pass_user_data and pass_chat_data determine whether a dict you can use to keep any data in will be sent to the callback function. Related to either the user or the chat that the update was sent in. For each update from the same user or in the same chat, it will be the same dict.

Note that this is DEPRECATED, and you should use context based callbacks. See https://github.com/python-telegram-bot/python-telegram-bot/wiki /Transition-guide-to-Version-12.0 for more info.

Warning: When setting run_async to True, you cannot rely on adding custom attributes to telegram.ext.CallbackContext. See its docs for more info.

Parameters

- **command**(telegram.utils.types.SLT[str]) The command or list of commands this handler should listen for. Limitations are the same as described here https://core.telegram.org/bots#commands
- callback (callable) The callback function for this handler. Will be called when check_update has determined that an update should be processed by this handler. Callback signature for context based API:

```
def callback(update: Update, context: CallbackContext)
```

The return value of the callback is usually ignored except for the special case of telegram.ext.ConversationHandler.

- **filters** (telegram.ext.BaseFilter, optional) A filter inheriting from telegram.ext.filters.BaseFilter. Standard filters can be found in telegram.ext.filters.Filters. Filters can be combined using bitwise operators (& for and, | for or, ~ for not).
- allow_edited (bool, optional) Determines whether the handler should also accept edited messages. Default is False. DEPRECATED: Edited is allowed by default. To change this behavior use ~Filters.update.edited_message.
- pass_args (bool, optional) Determines whether the handler should be passed the arguments passed to the command as a keyword argument called args. It will contain a list of strings, which is the text following the command split on single or consecutive whitespace characters. Default is False DEPRECATED: Please switch to context based callbacks.
- pass_update_queue (bool, optional) If set to True, a keyword argument called update_queue will be passed to the callback function. It will be the Queue instance used by the telegram.ext.Updater and telegram.ext.Dispatcher that contains new updates which can be used to insert updates. Default is False. DEPRECATED: Please switch to context based callbacks.
- pass_job_queue (bool, optional) If set to True, a keyword argument called job_queue will be passed to the callback function. It will be a telegram.ext. JobQueue instance created by the telegram.ext.Updater which can be used to schedule new jobs. Default is False. DEPRECATED: Please switch to context based callbacks.
- pass_user_data (bool, optional) If set to True, a keyword argument called user_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.

- pass_chat_data (bool, optional) If set to True, a keyword argument called chat_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- run_async (bool) Determines whether the callback will run asynchronously. Defaults to False.

Raises ValueError – when command is too long or has illegal chars.

command

The command or list of commands this handler should listen for. Limitations are the same as described here https://core.telegram.org/bots#commands

Type telegram.utils.types.SLT[str]

callback

The callback function for this handler.

Type callable

filters

Optional. Only allow updates with these Filters.

Type telegram.ext.BaseFilter

allow edited

Determines whether the handler should also accept edited messages.

Type bool

pass_args

Determines whether the handler should be passed args.

Type bool

pass_update_queue

Determines whether update_queue will be passed to the callback function.

Type bool

pass_job_queue

Determines whether job_queue will be passed to the callback function.

Type bool

pass_user_data

Determines whether user_data will be passed to the callback function.

Type bool

pass_chat_data

Determines whether chat_data will be passed to the callback function.

Type bool

run_async

Determines whether the callback will run asynchronously.

Type bool

check_update(update)

Determines whether an update should be passed to this handlers <code>callback</code>.

Parameters update (telegram. Update | object) - Incoming update.

Returns The list of args for the handler.

Return type list

```
collect_additional_context (context, update, dispatcher, check_result)
```

Add text after the command to CallbackContext.args as list, split on single whitespaces and add output of data filters to CallbackContext as well.

```
collect_optional_args (dispatcher, update=None, check_result=None)
```

Provide text after the command to the callback the args argument as list, split on single whitespaces.

telegram.ext.ConversationHandler

```
class telegram.ext.ConversationHandler (entry_points, states, fallbacks, allow_reentry=False, per_chat=True, per_user=True, per_message=False, conversation_timeout=None, name=None, persistent=False, map_to_parent=None, run_async=False)
```

Bases: telegram.ext.handler.Handler[telegram.update.Update, telegram.ext.utils.types.CCT]

A handler to hold a conversation with a single or multiple users through Telegram updates by managing four collections of other handlers.

Note: ConversationHandler will only accept updates that are (subclass-)instances of telegram. Update. This is, because depending on the per_user and per_chat ConversationHandler relies on telegram. Update.effective_user and/or telegram. Update.effective_user and/or telegram. Update.effective_chat in order to determine which conversation an update should belong to. For per_message=True, ConversationHandler uses update.callback_query.message. message_id when per_chat=True and update.callback_query.inline_message_id when per_chat=False. For a more detailed explanation, please see our FAQ.

Finally, ConversationHandler, does not handle (edited) channel posts.

The first collection, a list named <code>entry_points</code>, is used to initiate the conversation, for example with a <code>telegram.ext.CommandHandler</code> or <code>telegram.ext.MessageHandler</code>.

The second collection, a dict named <code>states</code>, contains the different conversation steps and one or more associated handlers that should be used if the user sends a message when the conversation with them is currently in that state. Here you can also define a state for <code>TIMEOUT</code> to define the behavior when <code>conversation_timeout</code> is exceeded, and a state for <code>WAITING</code> to define behavior when a new update is received while the previous <code>@run_async</code> decorated handler is not finished.

The third collection, a list named fallbacks, is used if the user is currently in a conversation but the state has either no associated handler or the handler that is associated to the state is inappropriate for the update, for example if the update contains a command, but a regular text message is expected. You could use this for a /cancel command or to let the user know their message was not recognized.

To change the state of conversation, the callback function of a handler must return the new state after responding to the user. If it does not return anything (returning None by default), the state will not change. If an entry point callback function returns None, the conversation ends immediately after the execution of this callback function. To end the conversation, the callback function must return <code>END</code> or -1. To handle the conversation timeout, use handler <code>TIMEOUT</code> or -2. Finally, <code>telegram.ext.DispatcherHandlerStop</code> can be used in conversations as described in the corresponding documentation.

Note: In each of the described collections of handlers, a handler may in turn be a *ConversationHandler*. In that case, the nested *ConversationHandler* should have the attribute *map_to_parent* which allows to return to the parent conversation at specified states within the nested conversation.

Note that the keys in map_to_parent must not appear as keys in states attribute or else the latter will be ignored. You may map END to one of the parents states to continue the parent conversation after this

has ended or even map a state to *END* to end the *parent* conversation from within the nested one. For an example on nested *ConversationHandler* s, see our examples.

Parameters

- entry_points (List[telegram.ext.Handler]) A list of Handler objects that can trigger the start of the conversation. The first handler which <code>check_update</code> method returns True will be used. If all return False, the update is not handled.
- states (Dict[object, List[telegram.ext.Handler]]) A dict that defines the different states of conversation a user can be in and one or more associated Handler objects that should be used in that state. The first handler which check_update method returns True will be used.
- **fallbacks** (List[telegram.ext.Handler]) A list of handlers that might be used if the user is in a conversation, but every handler for their current state returned False on check_update. The first handler which check_update method returns True will be used. If all return False, the update is not handled.
- allow_reentry (bool, optional) If set to True, a user that is currently in a conversation can restart the conversation by triggering one of the entry points.
- **per_chat** (bool, optional) If the conversationkey should contain the Chat's ID. Default is True.
- **per_user** (bool, optional) If the conversationkey should contain the User's ID. Default is True.
- **per_message** (bool, optional) If the conversationkey should contain the Message's ID. Default is False.
- conversation_timeout (float | datetime.timedelta, optional) When this handler is inactive more than this timeout (in seconds), it will be automatically ended. If this value is 0 or None (default), there will be no timeout. The last received update and the corresponding context will be handled by ALL the handler's who's check_update method returns True that are in the state ConversationHandler.TIMEOUT.

Note: Using *conversation_timeout* with nested conversations is currently not supported. You can still try to use it, but it will likely behave differently from what you expect.

- name (str, optional) The name for this conversationhandler. Required for persistence.
- **persistent** (bool, optional) If the conversations dict for this handler should be saved. Name is required and persistence has to be set in telegram.ext.Updater
- map_to_parent (Dict[object, object], optional) A dict that can be used to instruct a nested conversationhandler to transition into a mapped state on its parent conversationhandler in place of a specified nested state.
- run_async (bool, optional) Pass True to *override* the *Handler.run_async* setting of all handlers (in *entry_points*, *states* and *fallbacks*).

Note: If set to True, you should not pass a handler instance, that needs to be run synchronously in another context.

New in version 13.2.

Raises ValueError -

persistent

Optional. If the conversations dict for this handler should be saved. Name is required and persistence has to be set in telegram.ext.Updater

Type bool

run_async

If True, will override the Handler.run_async setting of all internal handlers on initialization.

New in version 13.2.

Type bool

END: ClassVar[int] = -1

Used as a constant to return when a conversation is ended.

Type int

TIMEOUT: ClassVar[int] = -2

Used as a constant to handle state when a conversation is timed out.

Type int

WAITING: ClassVar[int] = -3

Used as a constant to handle state when a conversation is still waiting on the previous @run_sync decorated running handler to finish.

Type int

property allow_reentry

Determines if a user can restart a conversation with an entry point.

Type bool

check_update(update)

Determines whether an update should be handled by this conversationhandler, and if so in which state the conversation currently is.

Parameters update (telegram. Update | object) - Incoming update.

Returns bool

property conversation_timeout

Optional. When this handler is inactive more than this timeout (in seconds), it will be automatically ended.

Type float | datetime.timedelta

property entry_points

A list of Handler objects that can trigger the start of the conversation.

Type List[telegram.ext.Handler]

property fallbacks

A list of handlers that might be used if the user is in a conversation, but every handler for their current state returned False on <code>check_update</code>.

Type List[telegram.ext.Handler]

handle_update (update, dispatcher, check_result, context=None)

Send the update to the callback for the current state and Handler

Parameters

- **check_result** The result from check_update. For this handler it's a tuple of key, handler, and the handler's check result.
- update (telegram. Update) Incoming telegram update.
- **dispatcher** (telegram.ext.Dispatcher) Dispatcher that originated the Update.

• **context** (*telegram.ext.CallbackContext*, optional) – The context as provided by the dispatcher.

property map_to_parent

Optional. A dict that can be used to instruct a nested *ConversationHandler* to transition into a mapped state on its parent *ConversationHandler* in place of a specified nested state.

```
Type Dict[object, object]
```

property name

Optional. The name for this ConversationHandler.

Type str

property per_chat

If the conversation key should contain the Chat's ID.

Type bool

property per_message

If the conversation key should contain the message's ID.

Type bool

property per_user

If the conversation key should contain the User's ID.

Type bool

property persistence

The persistence class as provided by the Dispatcher.

property states

A dict that defines the different states of conversation a user can be in and one or more associated Handler objects that should be used in that state.

Type Dict[object, List[telegram.ext.Handler]]

telegram.ext.InlineQueryHandler

Handler class to handle Telegram inline queries. Optionally based on a regex. Read the documentation of the re module for more information.

Note: pass_user_data and pass_chat_data determine whether a dict you can use to keep any data in will be sent to the callback function. Related to either the user or the chat that the update was sent in. For each update from the same user or in the same chat, it will be the same dict.

Note that this is DEPRECATED, and you should use context based callbacks. See https://github.com/python-telegram-bot/python-telegram-bot/wiki /Transition-guide-to-Version-12.0 for more info.

Warning:

• When setting run_async to True, you cannot rely on adding custom attributes to telegram. ext.CallbackContext. See its docs for more info.

• telegram. InlineQuery.chat_type will not be set for inline queries from secret chats and may not be set for inline queries coming from third-party clients. These updates won't be handled, if chat_types is passed.

Parameters

• callback (callable) – The callback function for this handler. Will be called when check_update has determined that an update should be processed by this handler. Callback signature for context based API:

```
def callback(update: Update, context: CallbackContext)
```

The return value of the callback is usually ignored except for the special case of telegram.ext.ConversationHandler.

- pass_update_queue (bool, optional) If set to True, a keyword argument called update_queue will be passed to the callback function. It will be the Queue instance used by the telegram.ext.Updater and telegram.ext.Dispatcher that contains new updates which can be used to insert updates. Default is False. DEPRECATED: Please switch to context based callbacks.
- pass_job_queue (bool, optional) If set to True, a keyword argument called job_queue will be passed to the callback function. It will be a telegram.ext. JobQueue instance created by the telegram.ext.Updater which can be used to schedule new jobs. Default is False. DEPRECATED: Please switch to context based callbacks.
- pattern (str | Pattern, optional) Regex pattern. If not None, re.match is used on telegram. InlineQuery. query to determine if an update should be handled by this handler.
- **chat_types** (List[str], optional) List of allowed chat types. If passed, will only handle inline queries with the appropriate <code>telegram.InlineQuery.chat_type</code>. New in version 13.5.
- pass_groups (bool, optional) If the callback should be passed the result of re. match (pattern, data).groups() as a keyword argument called groups. Default is False DEPRECATED: Please switch to context based callbacks.
- pass_groupdict (bool, optional) If the callback should be passed the result of re.match(pattern, data).groupdict() as a keyword argument called groupdict. Default is False DEPRECATED: Please switch to context based callbacks.
- pass_user_data (bool, optional) If set to True, a keyword argument called user_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- pass_chat_data (bool, optional) If set to True, a keyword argument called chat_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- run_async (bool) Determines whether the callback will run asynchronously. Defaults to False.

callback

The callback function for this handler.

Type callable

pass_update_queue

 $Determines\ whether\ \verb"update_queue"\ will\ be\ passed\ to\ the\ callback\ function.$

Type bool

pass_job_queue

Determines whether job_queue will be passed to the callback function.

Type bool

pattern

Optional. Regex pattern to test telegram. InlineQuery. query against.

Type str | Pattern

chat_types

List of allowed chat types.

New in version 13.5.

Type List[str], optional

pass_groups

Determines whether groups will be passed to the callback function.

Type bool

pass_groupdict

Determines whether groupdict. will be passed to the callback function.

Type bool

pass user data

Determines whether user data will be passed to the callback function.

Type bool

pass_chat_data

Determines whether chat_data will be passed to the callback function.

Type bool

run_async

Determines whether the callback will run asynchronously.

Type bool

check_update(update)

Determines whether an update should be passed to this handlers callback.

Parameters update (telegram. Update | object) - Incoming update.

Returns bool

collect_additional_context (context, update, dispatcher, check_result)

Add the result of re.match(pattern, update.inline_query.query) to CallbackContext.matches as list with one element.

$\verb"collect_optional_args" (dispatcher, update=None, check_result=None)$

Pass the results of re.match (pattern, query). {groups(), groupdict()} to the callback as a keyword arguments called groups and groupdict, respectively, if needed.

telegram.ext.MessageHandler

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

Note: pass_user_data and pass_chat_data determine whether a dict you can use to keep any data in will be sent to the callback function. Related to either the user or the chat that the update was sent in. For each update from the same user or in the same chat, it will be the same dict.

Note that this is DEPRECATED, and you should use context based callbacks. See https://github.com/python-telegram-bot/python-telegram-bot/wiki/Transition-guide-to-Version-12.0 for more info.

Warning: When setting run_async to True, you cannot rely on adding custom attributes to telegram.ext.CallbackContext. See its docs for more info.

Parameters

- filters (telegram.ext.BaseFilter, optional) A filter inheriting from telegram.ext.filters.BaseFilter. Standard filters can be found in telegram.ext.filters.Filters. Filters can be combined using bitwise operators (& for and, | for or, ~ for not). Default is telegram.ext.filters. Filters.update. This defaults to all message_type updates being: message, edited_message, channel_post and edited_channel_post. If you don't want or need any of those pass ~Filters.update.* in the filter argument.
- callback (callable) The callback function for this handler. Will be called when check_update has determined that an update should be processed by this handler. Callback signature for context based API:

```
def callback(update: Update, context: CallbackContext)
```

The return value of the callback is usually ignored except for the special case of telegram.ext.ConversationHandler.

- pass_update_queue (bool, optional) If set to True, a keyword argument called update_queue will be passed to the callback function. It will be the Queue instance used by the telegram.ext.Updater and telegram.ext.Dispatcher that contains new updates which can be used to insert updates. Default is False. DEPRECATED: Please switch to context based callbacks.
- pass_job_queue (bool, optional) If set to True, a keyword argument called job_queue will be passed to the callback function. It will be a telegram.ext. JobQueue instance created by the telegram.ext.Updater which can be used to schedule new jobs. Default is False. DEPRECATED: Please switch to context based callbacks.
- pass_user_data (bool, optional) If set to True, a keyword argument called user_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- pass_chat_data (bool, optional) If set to True, a keyword argument called chat_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- message_updates (bool, optional) Should "normal" message updates be handled? Default is None. DEPRECATED: Please switch to filters for update filtering.
- **channel_post_updates** (bool, optional) Should channel posts updates be handled? Default is None. DEPRECATED: Please switch to filters for update filtering.
- **edited_updates** (bool, optional) Should "edited" message updates be handled? Default is None. DEPRECATED: Please switch to filters for update filtering.
- run_async (bool) Determines whether the callback will run asynchronously. Defaults to False.

Raises ValueError -

filters

Only allow updates with these Filters. See telegram.ext.filters for a full list of all available filters

Type Filter

callback

The callback function for this handler.

Type callable

pass_update_queue

Determines whether update_queue will be passed to the callback function.

Type bool

pass_job_queue

Determines whether job_queue will be passed to the callback function.

Type bool

pass_user_data

Determines whether user_data will be passed to the callback function.

Type bool

pass_chat_data

Determines whether chat_data will be passed to the callback function.

Type bool

message_updates

Should "normal" message updates be handled? Default is None.

Type bool

channel_post_updates

Should channel posts updates be handled? Default is None.

Type bool

edited_updates

Should "edited" message updates be handled? Default is None.

Type bool

run_async

Determines whether the callback will run asynchronously.

Type bool

check_update(update)

Determines whether an update should be passed to this handlers callback.

Parameters update (telegram. Update | object) - Incoming update.

Returns bool

collect_additional_context (context, update, dispatcher, check_result)

Adds possible output of data filters to the CallbackContext.

telegram.ext.filters Module

This module contains the Filters for use with the MessageHandler class.

```
class telegram.ext.filters.BaseFilter(*args, **kwargs)
    Bases: abc.ABC
```

Base class for all Filters.

Filters subclassing from this class can combined using bitwise operators:

And:

```
>>> (Filters.text & Filters.entity(MENTION))
```

Or:

```
>>> (Filters.audio | Filters.video)
```

Exclusive Or:

```
>>> (Filters.regex('To Be') ^ Filters.regex('Not 2B'))
```

Not:

```
>>> ~ Filters.command
```

Also works with more than two filters:

```
>>> (Filters.text & (Filters.entity(URL) | Filters.entity(TEXT_LINK)))
>>> Filters.text & (~ Filters.forwarded)
```

Note: Filters use the same short circuiting logic as python's *and*, *or* and *not*. This means that for example:

```
>>> Filters.regex(r'(a?x)') | Filters.regex(r'(b?x)')
```

With message.text == x, will only ever return the matches for the first filter, since the second one is never evaluated.

If you want to create your own filters create a class inheriting from either <code>MessageFilter</code> or <code>UpdateFilter</code> and implement a <code>filter()</code> method that returns a boolean: <code>True</code> if the message should be handled, <code>False</code> otherwise. Note that the filters work only as class instances, not actual class objects (so remember to initialize your filter classes).

By default the filters name (what will get printed when converted to a string for display) will be the class name. If you want to overwrite this assign a better name to the name class variable.

name

Name for this filter. Defaults to the type of filter.

```
Type str
```

data_filter

Whether this filter is a data filter. A data filter should return a dict with lists. The dict will be merged with telegram.ext.CallbackContext's internal dict in most cases (depends on the handler).

Type bool

```
class telegram.ext.filters.Filters
```

Bases: object

Predefined filters for use as the filter argument of telegram.ext.MessageHandler.

Examples

Use MessageHandler (Filters.video, callback_method) to filter all video messages. Use MessageHandler (Filters.contact, callback_method) for all contacts. etc.

all = Filters.all

All Messages.

animation = Filters.animation

Messages that contain telegram. Animation.

attachment = Filters.attachment

Messages that contain telegram. Message.effective_attachment().

New in version 13.6.

audio = Filters.audio

Messages that contain telegram. Audio.

caption = Filters.caption

Messages with a caption. If a list of strings is passed, it filters messages to only allow those whose caption is appearing in the given list.

Examples

MessageHandler(Filters.caption, callback_method)

Parameters update (List[str] | Tuple[str], optional) – Which captions to allow. Only exact matches are allowed. If not specified, will allow any message with a caption.

class caption_entity(*args, **kwargs)

Bases: telegram.ext.filters.MessageFilter

Filters media messages to only allow those which have a telegram. MessageEntity where their type matches entity_type.

Examples

Parameters entity_type – Caption Entity type to check for. All types can be found as constants in telegram. MessageEntity.

class caption_regex(*args, **kwargs)

Bases: telegram.ext.filters.MessageFilter

Filters updates by searching for an occurrence of pattern in the message caption.

This filter works similarly to *Filters.regex*, with the only exception being that it applies to the message caption instead of the text.

Examples

Use MessageHandler(Filters.photo & Filters.caption_regex(r'help'), callback) to capture all photos with caption containing the word 'help'.

Note: This filter will not work on simple text messages, but only on media with caption.

Parameters pattern (str | Pattern) - The regex pattern.

```
class chat (*args, **kwargs)
```

Bases: telegram.ext.filters.Filters._ChatUserBaseFilter

Filters messages to allow only those which are from a specified chat ID or username.

Examples

MessageHandler(Filters.chat(-1234), callback_method)

Warning: <code>chat_ids</code> will give a <code>copy</code> of the saved chat ids as <code>frozenset</code>. This is to ensure thread safety. To add/remove a chat, you should use <code>add_usernames()</code>, <code>add_chat_ids()</code>, <code>remove_usernames()</code> and <code>remove_chat_ids()</code>. Only update the entire set by filter. <code>chat_ids/usernames = new_set</code>, if you are entirely sure that it is not causing race conditions, as this will complete replace the current set of allowed chats.

Parameters

- **chat_id** (telegram.utils.types.SLT[int], **optional**) Which chat ID(s) to allow through.
- username (telegram.utils.types.SLT[str], optional) Which username(s) to allow through. Leading '@' s in usernames will be discarded.
- allow_empty (bool, optional) Whether updates should be processed, if no chat is specified in chat_ids and usernames. Defaults to False

Raises RuntimeError – If chat_id and username are both present.

chat_ids

Which chat ID(s) to allow through.

Type set(int), optional

usernames

Which username(s) (without leading '@') to allow through.

Type set(str), optional

allow_empty

Whether updates should be processed, if no chat is specified in <code>chat_ids</code> and <code>usernames</code>.

Type <code>bool</code>, optional

add_chat_ids (chat_id)

Add one or more chats to the allowed chat ids.

Parameters chat_id (telegram.utils.types.SLT[int], optional) - Which chat ID(s) to allow through.

add_usernames (username)

Add one or more chats to the allowed usernames.

Parameters username (telegram.utils.types.SLT[str], optional) – Which username(s) to allow through. Leading '@' s in usernames will be discarded.

```
get_chat_or_user (message)
```

remove_chat_ids (chat_id)

Remove one or more chats from allowed chat ids.

Parameters chat_id (telegram.utils.types.SLT[int], optional) - Which chat ID(s) to disallow through.

remove_usernames (username)

Remove one or more chats from allowed usernames.

Parameters username (telegram.utils.types.SLT[str], optional) — Which username(s) to disallow through. Leading '@' s in usernames will be discarded.

chat_type = Filters.chat_type

Subset for filtering the type of chat.

Examples

Use these filters like: Filters.chat_type.channel or Filters.chat_type.supergroup etc. Or use just Filters.chat_type for all chat types.

channel

Updates from channel

arour

Updates from group

supergroup

Updates from supergroup

groups

Updates from group or supergroup

private

Updates sent in private chat

command = Filters.command

Messages with a telegram. MessageEntity.BOT_COMMAND. By default only allows messages starting with a bot command. Pass False to also allow messages that contain a bot command anywhere in the text.

Examples:

```
MessageHandler(Filters.command, command_at_start_callback)
MessageHandler(Filters.command(False), command_anywhere_callback)
```

Note: Filters.text also accepts messages containing a command.

Parameters update (bool, optional) – Whether to only allow messages that *start* with a bot command. Defaults to True.

contact = Filters.contact

Messages that contain telegram. Contact.

dice = Filters.dice

Dice Messages. If an integer or a list of integers is passed, it filters messages to only allow those whose dice value is appearing in the given list.

Examples

To allow any dice message, simply use MessageHandler(Filters.dice, callback_method).

To allow only dice messages with the emoji, but any value, use MessageHandler (Filters. dice.dice, callback_method).

To allow only dice messages with the emoji and with value 6, use MessageHandler (Filters. dice.darts(6), callback_method).

To allow only dice messages with the emoji and with value 5 or 6, use MessageHandler(Filters.dice.football([5, 6]), callback_method).

Note: Dice messages don't have text. If you want to filter either text or dice messages, use Filters. text | Filters.dice.

Parameters update (telegram.utils.types.SLT[int], optional) – Which values to allow. If not specified, will allow any dice message.

dice

Dice messages with the emoji. Passing a list of integers is supported just as for Filters.dice.

darts

Dice messages with the emoji. Passing a list of integers is supported just as for Filters.dice.

basketball

Dice messages with the emoji . Passing a list of integers is supported just as for Filters.dice.

football

Dice messages with the emoji . Passing a list of integers is supported just as for Filters.dice.

slot_machine

Dice messages with the emoji. Passing a list of integers is supported just as for Filters.dice.

bowling

Dice messages with the emoji. Passing a list of integers is supported just as for Filters.dice. New in version 13.4.

document = Filters.document

Subset for messages containing a document/file.

Examples

Use these filters like: Filters.document.mp3, Filters.document.mime_type("text/plain") etc. Or use just Filters.document for all document messages.

category

Filters documents by their category in the mime-type attribute

Note: This Filter only filters by the mime_type of the document, it doesn't check the validity of the document. The user can manipulate the mime-type of a message and send media with wrong types that don't fit to this handler.

Example

Filters.document.category('audio/') filters all types of audio sent as file, for example 'audio/mpeg' or 'audio/x-wav'.

application

Same as Filters.document.category("application").

audio

Same as Filters.document.category("audio").

```
image
   Same as Filters.document.category("image").
   Same as Filters.document.category("video").
text
   Same as Filters.document.category("text").
mime_type
   Filters documents by their mime-type attribute
   Note: This Filter only filters by the mime_type of the document, it doesn't check the validity of
   document.
   The user can manipulate the mime-type of a message and send media with wrong types that don't
   fit to this handler.
   Example
   Filters.document.mime_type('audio/mpeg') filters all audio in mp3 format.
apk
                  Filters.document.mime_type("application/vnd.android.
            as
   package-archive").
doc
   Same as Filters.document.mime_type("application/msword").
docx
                           Filters.document.mime_type("application/vnd.
   openxmlformats-officedocument.wordprocessingml.document").
exe
   Same
                                Filters.document.mime_type("application/
   x-ms-dos-executable").
gif
   Same as Filters.document.mime_type("video/mp4").
jpg
   Same as Filters.document.mime_type("image/jpeg").
mp3
   Same as Filters.document.mime_type("audio/mpeg").
```

pdf

Same as Filters.document.mime_type("application/pdf").

ру

Same as Filters.document.mime_type("text/x-python").

SVC

Same as Filters.document.mime_type("image/svg+xml").

txt

Same as Filters.document.mime_type("text/plain").

targz

Same as Filters.document.mime_type("application/x-compressed-tar").

wav

Same as Filters.document.mime_type("audio/x-wav").

xml

Same as Filters.document.mime_type("application/xml").

zip

Same as Filters.document.mime_type("application/zip").

file extension

This filter filters documents by their file ending/extension.

Note:

- This Filter only filters by the file ending/extension of the document, it doesn't check the validity of document.
- The user can manipulate the file extension of a document and send media with wrong types that don't fit to this handler.
- Case insensitive by default, you may change this with the flag case_sensitive=True.
- Extension should be passed without leading dot unless it's a part of the extension.
- Pass None to filter files with no extension, i.e. without a dot in the filename.

Example

- Filters.document.file_extension("jpg") filters files with extension ". jpg".
- Filters.document.file_extension(".jpg") filters files with extension "... jpg".
- Filters.document.file_extension("Dockerfile", case_sensitive=True) filters files with extension ".Dockerfile" minding the case.
- Filters.document.file_extension(None) filters files without a dot in the filename.

class entity(*args, **kwargs)

Bases: telegram.ext.filters.MessageFilter

Filters messages to only allow those which have a telegram. MessageEntity where their type matches entity_type.

Examples

Example MessageHandler(Filters.entity("hashtag"), callback_method)

Parameters entity_type – Entity type to check for. All types can be found as constants in telegram.MessageEntity.

forwarded = Filters.forwarded

Messages that are forwarded.

class forwarded_from(*args, **kwargs)

Bases: telegram.ext.filters.Filters._ChatUserBaseFilter

Filters messages to allow only those which are forwarded from the specified chat ID(s) or username(s) based on telegram. Message. forward_from and telegram. Message. forward_from_chat.

New in version 13.5.

Examples

```
MessageHandler(Filters.forwarded_from(chat_id=1234),
callback_method)
```

Note: When a user has disallowed adding a link to their account while forwarding their messages, this filter will *not* work since both telegram. Message.forwarded_from and telegram. Message.forwarded_from_chat are None. However, this behaviour is undocumented and might be changed by Telegram.

Warning: <code>chat_ids</code> will give a <code>copy</code> of the saved chat ids as <code>frozenset</code>. This is to ensure thread safety. To add/remove a chat, you should use <code>add_usernames()</code>, <code>add_chat_ids()</code>, <code>remove_usernames()</code> and <code>remove_chat_ids()</code>. Only update the entire set by filter. <code>chat_ids/usernames = new_set</code>, if you are entirely sure that it is not causing race conditions, as this will complete replace the current set of allowed chats.

Parameters

- **chat_id** (telegram.utils.types.SLT[int], optional) Which chat/user ID(s) to allow through.
- username (telegram.utils.types.SLT[str], optional) Which username(s) to allow through. Leading '@' s in usernames will be discarded.
- allow_empty (bool, optional) Whether updates should be processed, if no chat is specified in chat_ids and usernames. Defaults to False.

Raises RuntimeError – If both chat_id and username are present.

chat ids

Which chat/user ID(s) to allow through.

Type set(int), optional

usernames

Which username(s) (without leading '@') to allow through.

Type set(str), optional

allow_empty

Whether updates should be processed, if no chat is specified in chat_ids and usernames.

Type bool, optional

add_chat_ids (chat_id)

Add one or more chats to the allowed chat ids.

Parameters chat_id (telegram.utils.types.SLT[int], optional) - Which chat/user ID(s) to allow through.

add_usernames (username)

Add one or more chats to the allowed usernames.

Parameters username (telegram.utils.types.SLT[str], optional) — Which username(s) to allow through. Leading '@' s in usernames will be discarded.

get_chat_or_user(message)

remove chat ids(chat id)

Remove one or more chats from allowed chat ids.

Parameters chat_id (telegram.utils.types.SLT[int], optional) – Which chat/user ID(s) to disallow through.

remove_usernames (username)

Remove one or more chats from allowed usernames.

Parameters username (telegram.utils.types.SLT[str], optional) — Which username(s) to disallow through. Leading '@' s in usernames will be discarded.

game = Filters.game

Messages that contain telegram. Game.

group = Filters.group

Messages sent in a group or a supergroup chat.

Note: DEPRECATED. Use telegram.ext.Filters.chat_type.groups instead.

has_protected_content = Filters.has_protected_content

Messages that contain telegram. Message. has_protected_content.

New in version 13.9.

invoice = Filters.invoice

Messages that contain telegram. Invoice.

is_automatic_forward = Filters.is_automatic_forward

Messages that contain telegram. Message.is_automatic_forward.

New in version 13.9.

class language(*args, **kwargs)

Bases: telegram.ext.filters.MessageFilter

Filters messages to only allow those which are from users with a certain language code.

Note: According to official Telegram API documentation, not every single user has the *lan-guage_code* attribute. Do not count on this filter working on all users.

Examples

MessageHandler(Filters.language("en"), callback_method)

Parameters lang (telegram.utils.types.SLT[str]) - Which language code(s) to allow through. This will be matched using .startswith meaning that 'en' will match both 'en_US' and 'en_GB'.

location = Filters.location

Messages that contain telegram. Location.

passport_data = Filters.passport_data

Messages that contain a telegram.PassportData

photo = Filters.photo

Messages that contain telegram. PhotoSize.

poll = Filters.poll

Messages that contain a telegram. Poll.

private = Filters.private

Messages sent in a private chat.

Note: DEPRECATED. Use telegram.ext.Filters.chat_type.private instead.

class regex(*args, **kwargs)

Bases: telegram.ext.filters.MessageFilter

Filters updates by searching for an occurrence of pattern in the message text. The re.search() function is used to determine whether an update should be filtered.

Refer to the documentation of the re module for more information.

To get the groups and groupdict matched, see telegram.ext.CallbackContext.matches.

Examples

Use MessageHandler(Filters.regex(r'help'), callback) to capture all messages that contain the word 'help'. You can also use MessageHandler(Filters.regex(re.compile(r'help', re.IGNORECASE)), callback) if you want your pattern to be case insensitive. This approach is recommended if you need to specify flags on your pattern.

Note: Filters use the same short circuiting logic as python's *and*, *or* and *not*. This means that for example:

```
>>> Filters.regex(r'(a?x)') | Filters.regex(r'(b?x)')
```

With a message text of x, will only ever return the matches for the first filter, since the second one is never evaluated.

Parameters pattern (str|Pattern) - The regex pattern.

reply = Filters.reply

Messages that are a reply to another message.

```
class sender_chat (*args, **kwargs)
```

Bases: telegram.ext.filters.Filters._ChatUserBaseFilter

Filters messages to allow only those which are from a specified sender chat's chat ID or username.

Examples

- To filter for messages sent to a group by a channel with ID -1234, use MessageHandler(Filters.sender_chat(-1234), callback_method).
- To filter for messages of anonymous admins in a super group with username @anonymous, use MessageHandler(Filters.sender_chat(username='anonymous'), callback method).
- To filter for messages sent to a group by *any* channel, use MessageHandler(Filters. sender_chat.channel, callback_method).
- To filter for messages of anonymous admins in *any* super group, use MessageHandler(Filters.sender_chat.super_group, callback_method).

Note: Remember, sender_chat is also set for messages in a channel as the channel itself, so when your bot is an admin in a channel and the linked discussion group, you would receive the message twice (once from inside the channel, once inside the discussion group). Since v13.9, the field telegram. Message.is_automatic_forward will be True for the discussion group message.

See also:

Filters.is_automatic_forward

Warning: <code>chat_ids</code> will return a <code>copy</code> of the saved chat ids as <code>frozenset</code>. This is to ensure thread safety. To add/remove a chat, you should use <code>add_usernames()</code>, <code>add_chat_ids()</code>, <code>remove_usernames()</code> and <code>remove_chat_ids()</code>. Only update the entire set by <code>filter.chat_ids/usernames = new_set</code>, if you are entirely sure that it is not causing race conditions, as this will complete replace the current set of allowed chats.

Parameters

- **chat_id** (telegram.utils.types.SLT[int], **optional**) Which sender chat chat ID(s) to allow through.
- username (telegram.utils.types.SLT[str], optional) Which sender chat username(s) to allow through. Leading '@' s in usernames will be discarded.
- allow_empty (bool, optional) Whether updates should be processed, if no sender chat is specified in chat_ids and usernames. Defaults to False

Raises RuntimeError – If both chat_id and username are present.

chat_ids

Which sender chat chat ID(s) to allow through.

Type set(int), optional

usernames

Which sender chat username(s) (without leading '@') to allow through.

Type set(str), optional

allow_empty

Whether updates should be processed, if no sender chat is specified in chat_ids and usernames.

Type bool, optional

super_group

Messages whose sender chat is a super group.

Examples

Filters.sender_chat.supergroup

channel

Messages whose sender chat is a channel.

Examples

Filters.sender_chat.channel

add_chat_ids (chat_id)

Add one or more sender chats to the allowed chat ids.

Parameters chat_id (telegram.utils.types.SLT[int], optional) – Which sender chat ID(s) to allow through.

add_usernames (username)

Add one or more sender chats to the allowed usernames.

Parameters username (telegram.utils.types.SLT[str], optional) — Which sender chat username(s) to allow through. Leading '@' s in usernames will be discarded.

```
channel = _Channel
```

get_chat_or_user (message)

remove_chat_ids (chat_id)

Remove one or more sender chats from allowed chat ids.

Parameters chat_id (telegram.utils.types.SLT[int], optional) – Which sender chat ID(s) to disallow through.

remove_usernames (username)

Remove one or more sender chats from allowed usernames.

Parameters username (telegram.utils.types.SLT[str], optional) — Which sender chat username(s) to disallow through. Leading '@' s in usernames will be discarded.

super_group = _SuperGroup

status_update = Filters.status_update

Subset for messages containing a status update.

Examples

Use these filters like: Filters.status_update.new_chat_members etc. Or use just Filters.status_update for all status update messages.

chat_created

connected_website

Messages that contain telegram. Message.connected_website.

delete chat photo

Messages that contain telegram. Message. delete_chat_photo.

left_chat_member

Messages that contain telegram. Message.left_chat_member.

migrate

Messages that contain telegram. Message.migrate_to_chat_id or telegram. Message.migrate_from_chat_id.

new_chat_members

Messages that contain telegram.Message.new_chat_members.

new_chat_photo

Messages that contain telegram. Message.new_chat_photo.

new_chat_title

Messages that contain telegram.Message.new_chat_title.

message_auto_delete_timer_changed

Messages that contain message_auto_delete_timer_changed.

New in version 13.4.

pinned_message

Messages that contain telegram.Message.pinned_message.

proximity_alert_triggered

 $Messages\ that\ contain\ telegram. \textit{Message.proximity_alert_triggered.}$

voice_chat_scheduled

 $Messages\ that\ contain\ telegram. \textit{Message.voice_chat_scheduled.}$

New in version 13.5.

Deprecated since version 13.12.

voice_chat_started

Messages that contain telegram. Message. voice_chat_started.

New in version 13.4.

Deprecated since version 13.12.

voice_chat_ended

Messages that contain telegram. Message. voice_chat_ended.

New in version 13.4.

Deprecated since version 13.12.

voice_chat_participants_invited

 $Messages\ that\ contain\ telegram. \textit{Message.voice_chat_participants_invited.}$

New in version 13.4.

Deprecated since version 13.12.

video_chat_scheduled

Messages that contain telegram. Message. video_chat_scheduled.

New in version 13.12.

video chat started

Messages that contain telegram. Message. video_chat_started.

New in version 13.12.

video chat ended

Messages that contain telegram. Message. video_chat_ended.

New in version 13.12.

video_chat_participants_invited

Messages that contain telegram. Message. video_chat_participants_invited.

New in version 13.12.

sticker = Filters.sticker

Messages that contain telegram. Sticker.

successful_payment = Filters.successful_payment

Messages that confirm a telegram. Successful Payment.

text = Filters.text

Text Messages. If a list of strings is passed, it filters messages to only allow those whose text is appearing in the given list.

Examples

To allow any text message, simply use MessageHandler(Filters.text, callback_method).

A simple use case for passing a list is to allow only messages that were sent by a custom telegram. ReplyKeyboardMarkup:

```
buttons = ['Start', 'Settings', 'Back']
markup = ReplyKeyboardMarkup.from_column(buttons)
...
MessageHandler(Filters.text(buttons), callback_method)
```

Note:

- Dice messages don't have text. If you want to filter either text or dice messages, use Filters. text | Filters.dice.
- Messages containing a command are accepted by this filter. Use Filters.text & (~Filters.command), if you want to filter only text messages without commands.

Parameters update (List[str] | Tuple[str], optional) – Which messages to allow. Only exact matches are allowed. If not specified, will allow any text message.

update = Filters.update

Subset for filtering the type of update.

Examples

Use these filters like: Filters.update.message or Filters.update.channel_posts etc. Or use just Filters.update for all types.

message

Updates with telegram. Update.message

edited_message

Updates with telegram.Update.edited_message

messages

Updates with either telegram. Update.message or telegram. Update. edited_message

channel post

Updates with telegram. Update.channel_post

edited_channel_post

Updates with telegram. Update.edited_channel_post

channel_posts

Updates with either telegram. Update.channel_post or telegram. Update.edited_channel_post

class user(*args, **kwargs)

Bases: telegram.ext.filters.Filters._ChatUserBaseFilter

Filters messages to allow only those which are from specified user ID(s) or username(s).

Examples

MessageHandler(Filters.user(1234), callback_method)

Warning: user_ids will give a copy of the saved user ids as frozenset. This is to ensure thread safety. To add/remove a user, you should use add_usernames(), add_user_ids(), remove_usernames() and remove_user_ids(). Only update the entire set by filter. user_ids/usernames = new_set, if you are entirely sure that it is not causing race conditions, as this will complete replace the current set of allowed users.

Parameters

- user_id (telegram.utils.types.SLT[int], optional) Which user ID(s) to allow through.
- username (telegram.utils.types.SLT[str], optional) Which username(s) to allow through. Leading '@' s in usernames will be discarded.

• allow_empty (bool, optional) — Whether updates should be processed, if no user is specified in user_ids and usernames. Defaults to False

Raises RuntimeError – If user_id and username are both present.

user ids

Which user ID(s) to allow through.

Type set(int), optional

usernames

Which username(s) (without leading '@') to allow through.

Type set(str), optional

allow empty

Whether updates should be processed, if no user is specified in user_ids and usernames.

Type bool, optional

add_user_ids (user_id)

Add one or more users to the allowed user ids.

Parameters user_id (telegram.utils.types.SLT[int], optional) - Which user ID(s) to allow through.

add usernames(username)

Add one or more users to the allowed usernames.

Parameters username (telegram.utils.types.SLT[str], optional) — Which username(s) to allow through. Leading '@' s in usernames will be discarded.

get_chat_or_user (message)

remove_user_ids (user_id)

Remove one or more users from allowed user ids.

Parameters user_id (telegram.utils.types.SLT[int], optional) - Which user ID(s) to disallow through.

remove_usernames (username)

Remove one or more users from allowed usernames.

Parameters username (telegram.utils.types.SLT[str], optional) — Which username(s) to disallow through. Leading '@' s in usernames will be discarded.

property user_ids

venue = Filters.venue

Messages that contain telegram. Venue.

class via_bot(*args, **kwargs)

Bases: telegram.ext.filters.Filters._ChatUserBaseFilter

Filters messages to allow only those which are from specified via_bot ID(s) or username(s).

Examples

MessageHandler(Filters.via_bot(1234), callback_method)

Warning: bot_ids will give a copy of the saved bot ids as frozenset. This is to ensure thread safety. To add/remove a bot, you should use add_usernames(), add_bot_ids(), remove_usernames() and remove_bot_ids(). Only update the entire set by filter. bot_ids/usernames = new_set, if you are entirely sure that it is not causing race conditions, as this will complete replace the current set of allowed bots.

Parameters

- bot_id (telegram.utils.types.SLT[int], optional) Which bot ID(s) to allow through.
- username (telegram.utils.types.SLT[str], optional) Which username(s) to allow through. Leading '@' s in usernames will be discarded.
- allow_empty (bool, optional) Whether updates should be processed, if no user is specified in bot ids and usernames. Defaults to False

Raises RuntimeError – If bot_id and username are both present.

bot_ids

Which bot ID(s) to allow through.

Type set(int), optional

usernames

Which username(s) (without leading '@') to allow through.

Type set(str), optional

allow_empty

Whether updates should be processed, if no bot is specified in bot_ids and usernames.

Type bool, optional

add_bot_ids (bot_id)

Add one or more users to the allowed user ids.

Parameters bot_id (telegram.utils.types.SLT[int], optional) - Which
bot ID(s) to allow through.

add usernames (username)

Add one or more users to the allowed usernames.

Parameters username (telegram.utils.types.SLT[str], optional) — Which username(s) to allow through. Leading '@' s in usernames will be discarded.

property bot_ids

get_chat_or_user (message)

remove_bot_ids (bot_id)

Remove one or more users from allowed user ids.

Parameters bot_id (telegram.utils.types.SLT[int], optional) — Which bot ID(s) to disallow through.

remove_usernames (username)

Remove one or more users from allowed usernames.

Parameters username (telegram.utils.types.SLT[str], optional) - Which username(s) to disallow through. Leading '@' s in usernames will be discarded.

video = Filters.video

Messages that contain telegram. Video.

video_note = Filters.video_note

 $Messages\ that\ contain\ \textit{telegram.VideoNote}.$

voice = Filters.voice

Messages that contain telegram. Voice.

class telegram.ext.filters.InvertedFilter(*args, **kwargs)

Bases: telegram.ext.filters.UpdateFilter

Represents a filter that has been inverted.

Parameters f – The filter to invert.

filter(update)

This method must be overwritten.

Parameters update (telegram. Update) – The update that is tested.

Returns dict or bool.

class telegram.ext.filters.MergedFilter(*args, **kwargs)

Bases: telegram.ext.filters.UpdateFilter

Represents a filter consisting of two other filters.

Parameters

- base filter Filter 1 of the merged filter.
- and_filter Optional filter to "and" with base_filter. Mutually exclusive with or_filter.
- or_filter Optional filter to "or" with base_filter. Mutually exclusive with and_filter.

filter(update)

This method must be overwritten.

Parameters update (telegram. Update) - The update that is tested.

Returns dict or bool.

class telegram.ext.filters.MessageFilter(*args, **kwargs)

Bases: telegram.ext.filters.BaseFilter

Base class for all Message Filters. In contrast to <code>UpdateFilter</code>, the object passed to <code>filter()</code> is <code>update.effective_message</code>.

Please see telegram.ext.filters.BaseFilter for details on how to create custom filters.

name

Name for this filter. Defaults to the type of filter.

Type str

data filter

Whether this filter is a data filter. A data filter should return a dict with lists. The dict will be merged with telegram.ext.CallbackContext's internal dict in most cases (depends on the handler).

Type bool

abstract filter(message)

This method must be overwritten.

Parameters message (telegram. Message) - The message that is tested.

Returns dict or bool

class telegram.ext.filters.UpdateFilter(*args, **kwargs)

Bases: telegram.ext.filters.BaseFilter

Base class for all Update Filters. In contrast to <code>MessageFilter</code>, the object passed to <code>filter()</code> is update, which allows to create filters like <code>Filters.update.edited_message</code>.

 $Please \ see \ telegram.ext.filters. \textit{BaseFilter} \ for \ details \ on \ how \ to \ create \ custom \ filters.$

name

Name for this filter. Defaults to the type of filter.

Type str

data_filter

Whether this filter is a data filter. A data filter should return a dict with lists. The dict will be merged with telegram.ext.CallbackContext's internal dict in most cases (depends on the handler).

Type bool

abstract filter(update)

This method must be overwritten.

Parameters update (telegram. Update) – The update that is tested.

Returns dict or bool.

```
class telegram.ext.filters.XORFilter(*args, **kwargs)
```

Bases: telegram.ext.filters.UpdateFilter

Convenience filter acting as wrapper for MergedFilter representing the an XOR gate for two filters.

Parameters

- base_filter Filter 1 of the merged filter.
- **xor_filter** Filter 2 of the merged filter.

filter(update)

This method must be overwritten.

Parameters update (telegram. Update) – The update that is tested.

Returns dict or bool.

telegram.ext.PollAnswerHandler

Handler class to handle Telegram updates that contain a poll answer.

Note: pass_user_data and pass_chat_data determine whether a dict you can use to keep any data in will be sent to the callback function. Related to either the user or the chat that the update was sent in. For each update from the same user or in the same chat, it will be the same dict.

Note that this is DEPRECATED, and you should use context based callbacks. See https://github.com/python-telegram-bot/python-telegram-bot/wiki/Transition-guide-to-Version-12.0 for more info.

Warning: When setting run_async to True, you cannot rely on adding custom attributes to telegram.ext.CallbackContext. See its docs for more info.

Parameters

• callback (callable) – The callback function for this handler. Will be called when check_update has determined that an update should be processed by this handler. Callback signature for context based API:

```
def callback(update: Update, context: CallbackContext)
```

The return value of the callback is usually ignored except for the special case of telegram.ext.ConversationHandler.

- pass_update_queue (bool, optional) If set to True, a keyword argument called update_queue will be passed to the callback function. It will be the Queue instance used by the telegram.ext.Updater and telegram.ext.Dispatcher that contains new updates which can be used to insert updates. Default is False. DEPRECATED: Please switch to context based callbacks.
- pass_job_queue (bool, optional) If set to True, a keyword argument called job_queue will be passed to the callback function. It will be a telegram.ext. JobQueue instance created by the telegram.ext.Updater which can be used to

schedule new jobs. Default is False. DEPRECATED: Please switch to context based callbacks.

- pass_user_data (bool, optional) If set to True, a keyword argument called user_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- pass_chat_data (bool, optional) If set to True, a keyword argument called chat_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- run_async (bool) Determines whether the callback will run asynchronously. Defaults to False.

callback

The callback function for this handler.

Type callable

pass_update_queue

Determines whether update_queue will be passed to the callback function.

Type bool

pass_job_queue

Determines whether job_queue will be passed to the callback function.

Type bool

pass_user_data

Determines whether user_data will be passed to the callback function.

Type bool

pass_chat_data

Determines whether chat_data will be passed to the callback function.

Type bool

run_async

Determines whether the callback will run asynchronously.

Type bool

check_update(update)

Determines whether an update should be passed to this handlers callback.

Parameters update (telegram. Update | object) - Incoming update.

Returns bool

telegram.ext.PollHandler

Bases: telegram.ext.handler.Handler[telegram.update.Update, telegram.ext.utils.types.CCT]

Handler class to handle Telegram updates that contain a poll.

Note: pass_user_data and pass_chat_data determine whether a dict you can use to keep any data in will be sent to the callback function. Related to either the user or the chat that the update was sent in. For each update from the same user or in the same chat, it will be the same dict.

Note that this is DEPRECATED, and you should use context based callbacks. See https://github.com/python-telegram-bot/python-telegram-bot/wiki /Transition-guide-to-Version-12.0 for more info.

Warning: When setting run_async to True, you cannot rely on adding custom attributes to telegram.ext.CallbackContext. See its docs for more info.

Parameters

• callback (callable) – The callback function for this handler. Will be called when check_update has determined that an update should be processed by this handler. Callback signature for context based API:

```
def callback(update: Update, context: CallbackContext)
```

The return value of the callback is usually ignored except for the special case of telegram.ext.ConversationHandler.

- pass_update_queue (bool, optional) If set to True, a keyword argument called update_queue will be passed to the callback function. It will be the Queue instance used by the telegram.ext.Updater and telegram.ext.Dispatcher that contains new updates which can be used to insert updates. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- pass_job_queue (bool, optional) If set to True, a keyword argument called job_queue will be passed to the callback function. It will be a telegram.ext. JobQueue instance created by the telegram.ext.Updater which can be used to schedule new jobs. Default is False. DEPRECATED: Please switch to context based callbacks.
- pass_user_data (bool, optional) If set to True, a keyword argument called user_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- pass_chat_data (bool, optional) If set to True, a keyword argument called chat_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- run_async (bool) Determines whether the callback will run asynchronously. Defaults to False.

callback

The callback function for this handler.

```
Type callable
```

pass_update_queue

Determines whether update_queue will be passed to the callback function.

Type bool

pass_job_queue

Determines whether job_queue will be passed to the callback function.

Type bool

pass_user_data

Determines whether user_data will be passed to the callback function.

Type bool

pass_chat_data

Determines whether chat data will be passed to the callback function.

Type bool

run_async

Determines whether the callback will run asynchronously.

```
Type bool
```

check_update(update)

Determines whether an update should be passed to this handlers *callback*.

Parameters update (telegram. Update | object) - Incoming update.

Returns bool

telegram.ext.PreCheckoutQueryHandler

Bases: telegram.ext.handler.Handler[telegram.update.Update, telegram.ext.utils.types.CCT]

Handler class to handle Telegram PreCheckout callback queries.

Note: pass_user_data and pass_chat_data determine whether a dict you can use to keep any data in will be sent to the callback function. Related to either the user or the chat that the update was sent in. For each update from the same user or in the same chat, it will be the same dict.

Note that this is DEPRECATED, and you should use context based callbacks. See https://github.com/python-telegram-bot/python-telegram-bot/wiki/Transition-guide-to-Version-12.0 for more info.

Warning: When setting run_async to True, you cannot rely on adding custom attributes to telegram.ext.CallbackContext. See its docs for more info.

Parameters

• callback (callable) – The callback function for this handler. Will be called when check_update has determined that an update should be processed by this handler. Callback signature for context based API:

```
def callback(update: Update, context: CallbackContext)
```

The return value of the callback is usually ignored except for the special case of telegram.ext.ConversationHandler.

- pass_update_queue (bool, optional) If set to True, a keyword argument called update_queue will be passed to the callback function. It will be the Queue DEPRECATED: Please switch to context based callbacks. instance used by the telegram.ext.Updater and telegram.ext.Dispatcher that contains new updates which can be used to insert updates. Default is False.
- pass_job_queue (bool, optional) If set to True, a keyword argument called job_queue will be passed to the callback function. It will be a telegram.ext. JobQueue instance created by the telegram.ext.Updater which can be used to schedule new jobs. Default is False. DEPRECATED: Please switch to context based callbacks.
- pass_user_data (bool, optional) If set to True, a keyword argument called user_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.

- pass_chat_data (bool, optional) If set to True, a keyword argument called chat_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- run_async (bool) Determines whether the callback will run asynchronously. Defaults to False.

callback

The callback function for this handler.

Type callable

pass_update_queue

Determines whether update_queue will be passed to the callback function.

Type bool

pass_job_queue

Determines whether job_queue will be passed to the callback function.

Type bool

pass_user_data

Determines whether user_data will be passed to the callback function.

Type bool

pass_chat_data

Determines whether chat_data will be passed to the callback function.

Type bool

run_async

Determines whether the callback will run asynchronously.

Type bool

check_update(update)

Determines whether an update should be passed to this handlers *callback*.

Parameters update (telegram. Update | object) - Incoming update.

Returns bool

telegram.ext.PrefixHandler

Handler class to handle custom prefix commands.

This is a intermediate handler between <code>MessageHandler</code> and <code>CommandHandler</code>. It supports configurable commands with the same options as CommandHandler. It will respond to every combination of <code>prefix</code> and <code>command</code>. It will add a <code>list</code> to the <code>CallbackContext</code> named <code>CallbackContext</code>. <code>args</code>. It will contain a list of strings, which is the text following the command split on single or consecutive whitespace characters.

Examples

Single prefix and command:

```
PrefixHandler('!', 'test', callback) # will respond to '!test'.
```

Multiple prefixes, single command:

```
PrefixHandler(['!', '#'], 'test', callback) # will respond to '!test' and '

→#test'.
```

Multiple prefixes and commands:

By default the handler listens to messages as well as edited messages. To change this behavior use ~Filters.update.edited_message.

Note:

- PrefixHandler does not handle (edited) channel posts.
- pass_user_data and pass_chat_data determine whether a dict you can use to keep any data in will be sent to the callback function. Related to either the user or the chat that the update was sent in. For each update from the same user or in the same chat, it will be the same dict.

Note that this is DEPRECATED, and you should use context based callbacks. See https://github.com/python-telegram-bot/python-telegram-bot/wiki /Transition-guide-to-Version-12.0 for more info.

Warning: When setting run_async to True, you cannot rely on adding custom attributes to telegram.ext.CallbackContext. See its docs for more info.

Parameters

- **prefix** (telegram.utils.types.SLT[str]) The prefix(es) that will precede command.
- command (telegram.utils.types.SLT[str]) The command or list of commands this handler should listen for.
- callback (callable) The callback function for this handler. Will be called when check_update has determined that an update should be processed by this handler. Callback signature for context based API:

```
def callback(update: Update, context: CallbackContext)
```

The return value of the callback is usually ignored except for the special case of telegram.ext.ConversationHandler.

- **filters** (telegram.ext.BaseFilter, optional) A filter inheriting from telegram.ext.filters.BaseFilter. Standard filters can be found in telegram.ext.filters.Filters. Filters can be combined using bitwise operators (& for and, | for or, ~ for not).
- pass_args (bool, optional) Determines whether the handler should be passed the arguments passed to the command as a keyword argument called args. It will contain a list of strings, which is the text following the command split on single or consecutive whitespace characters. Default is False DEPRECATED: Please switch to context based callbacks.
- pass_update_queue (bool, optional) If set to True, a keyword argument called update_queue will be passed to the callback function. It will be the Queue instance used by the telegram.ext.Updater and telegram.ext.Dispatcher that

contains new updates which can be used to insert updates. Default is False. DEPRE-CATED: Please switch to context based callbacks.

- pass_job_queue (bool, optional) If set to True, a keyword argument called job_queue will be passed to the callback function. It will be a telegram.ext. JobQueue instance created by the telegram.ext.Updater which can be used to schedule new jobs. Default is False. DEPRECATED: Please switch to context based callbacks.
- pass_user_data (bool, optional) If set to True, a keyword argument called user_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- pass_chat_data (bool, optional) If set to True, a keyword argument called chat_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- run_async (bool) Determines whether the callback will run asynchronously. Defaults to False.

callback

The callback function for this handler.

Type callable

filters

Optional. Only allow updates with these Filters.

Type telegram.ext.BaseFilter

pass args

Determines whether the handler should be passed args.

Type bool

pass_update_queue

Determines whether update_queue will be passed to the callback function.

Type bool

pass_job_queue

Determines whether job_queue will be passed to the callback function.

Type bool

pass user data

Determines whether user_data will be passed to the callback function.

Type bool

pass_chat_data

Determines whether chat_data will be passed to the callback function.

Type bool

run_async

Determines whether the callback will run asynchronously.

Type bool

check_update(update)

Determines whether an update should be passed to this handlers callback.

Parameters update (telegram. Update | object) - Incoming update.

Returns The list of args for the handler.

Return type list

property command

The list of commands this handler should listen for.

Returns List[str]

property prefix

The prefixes that will precede *command*.

Returns List[str]

telegram.ext.RegexHandler

Handler class to handle Telegram updates based on a regex.

It uses a regular expression to check text messages. Read the documentation of the re module for more information. The re.match function is used to determine if an update should be handled by this handler.

Note: This handler is being deprecated. For the same use case use: MessageHandler(Filters.regex(r'pattern'), callback)

Warning: When setting run_async to True, you cannot rely on adding custom attributes to telegram.ext.CallbackContext. See its docs for more info.

Parameters

- pattern (str | Pattern) The regex pattern.
- callback (callable) The callback function for this handler. Will be called when check_update has determined that an update should be processed by this handler. Callback signature for context based API:

```
def callback(update: Update, context: CallbackContext)
```

The return value of the callback is usually ignored except for the special case of telegram.ext.ConversationHandler.

- pass_groups (bool, optional) If the callback should be passed the result of re. match (pattern, data).groups() as a keyword argument called groups. Default is False
- pass_groupdict (bool, optional) If the callback should be passed the result of re.match(pattern, data).groupdict() as a keyword argument called groupdict. Default is False
- pass_update_queue (bool, optional) If set to True, a keyword argument called update_queue will be passed to the callback function. It will be the Queue instance used by the telegram.ext.Updater and telegram.ext.Dispatcher that contains new updates which can be used to insert updates. Default is False.
- pass_job_queue (bool, optional) If set to True, a keyword argument called job_queue will be passed to the callback function. It will be a telegram.ext.

JobQueue instance created by the telegram.ext.Updater which can be used to schedule new jobs. Default is False.

- pass_user_data (bool, optional) If set to True, a keyword argument called user_data will be passed to the callback function. Default is False.
- pass_chat_data (bool, optional) If set to True, a keyword argument called chat_data will be passed to the callback function. Default is False.
- message_updates (bool, optional) Should "normal" message updates be handled? Default is True.
- channel_post_updates (bool, optional) Should channel posts updates be handled? Default is True.
- edited_updates (bool, optional) Should "edited" message updates be handled?
 Default is False.
- run_async (bool) Determines whether the callback will run asynchronously. Defaults to False.

Raises ValueError -

pattern

The regex pattern.

Type str | Pattern

callback

The callback function for this handler.

Type callable

pass_groups

Determines whether groups will be passed to the callback function.

Type bool

pass_groupdict

Determines whether groupdict. will be passed to the callback function.

Type bool

pass_update_queue

Determines whether update_queue will be passed to the callback function.

Type bool

pass_job_queue

Determines whether job_queue will be passed to the callback function.

Type bool

pass_user_data

Determines whether user_data will be passed to the callback function.

Type bool

pass_chat_data

Determines whether chat_data will be passed to the callback function.

Type bool

run_async

Determines whether the callback will run asynchronously.

Type bool

collect_optional_args (dispatcher, update=None, check_result=None)

Pass the results of re.match (pattern, text). {groups(), groupdict()} to the callback as a keyword arguments called groups and groupdict, respectively, if needed.

telegram.ext.ShippingQueryHandler

Handler class to handle Telegram shipping callback queries.

Note: pass_user_data and pass_chat_data determine whether a dict you can use to keep any data in will be sent to the callback function. Related to either the user or the chat that the update was sent in. For each update from the same user or in the same chat, it will be the same dict.

Note that this is DEPRECATED, and you should use context based callbacks. See https://github.com/python-telegram-bot/python-telegram-bot/wiki/Transition-guide-to-Version-12.0 for more info.

Warning: When setting run_async to True, you cannot rely on adding custom attributes to telegram.ext.CallbackContext. See its docs for more info.

Parameters

• callback (callable) – The callback function for this handler. Will be called when check_update has determined that an update should be processed by this handler. Callback signature for context based API:

```
def callback(update: Update, context: CallbackContext)
```

The return value of the callback is usually ignored except for the special case of telegram.ext.ConversationHandler.

- pass_update_queue (bool, optional) If set to True, a keyword argument called update_queue will be passed to the callback function. It will be the Queue instance used by the telegram.ext.Updater and telegram.ext.Dispatcher that contains new updates which can be used to insert updates. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- pass_job_queue (bool, optional) If set to True, a keyword argument called job_queue will be passed to the callback function. It will be a telegram.ext. JobQueue instance created by the telegram.ext.Updater which can be used to schedule new jobs. Default is False. DEPRECATED: Please switch to context based callbacks.
- pass_user_data (bool, optional) If set to True, a keyword argument called user_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- pass_chat_data (bool, optional) If set to True, a keyword argument called chat_data will be passed to the callback function. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- run_async (bool) Determines whether the callback will run asynchronously. Defaults to False.

callback

The callback function for this handler.

Type callable

pass_update_queue

Determines whether update_queue will be passed to the callback function.

Type bool

pass_job_queue

Determines whether job_queue will be passed to the callback function.

Type bool

pass_user_data

Determines whether user_data will be passed to the callback function.

Type bool

pass_chat_data

Determines whether chat_data will be passed to the callback function.

Type bool

run_async

Determines whether the callback will run asynchronously.

Type bool

check_update(update)

Determines whether an update should be passed to this handlers callback.

Parameters update (telegram. Update | object) - Incoming update.

Returns bool

telegram.ext.StringCommandHandler

Handler class to handle string commands. Commands are string updates that start with /. The handler will add a list to the <code>CallbackContext</code> named <code>CallbackContext</code> args. It will contain a list of strings, which is the text following the command split on single whitespace characters.

Note: This handler is not used to handle Telegram telegram. Update, but strings manually put in the queue. For example to send messages with the bot using command line or API.

Warning: When setting run_async to True, you cannot rely on adding custom attributes to telegram.ext.CallbackContext. See its docs for more info.

Parameters

- command (str) The command this handler should listen for.
- callback (callable) The callback function for this handler. Will be called when check_update has determined that an update should be processed by this handler. Callback signature for context based API:

```
def callback(update: Update, context: CallbackContext)
```

The return value of the callback is usually ignored except for the special case of telegram.ext.ConversationHandler.

- pass_args (bool, optional) Determines whether the handler should be passed the arguments passed to the command as a keyword argument called args. It will contain a list of strings, which is the text following the command split on single or consecutive whitespace characters. Default is False DEPRECATED: Please switch to context based callbacks.
- pass_update_queue (bool, optional) If set to True, a keyword argument called update_queue will be passed to the callback function. It will be the Queue instance used by the telegram.ext.Updater and telegram.ext.Dispatcher that contains new updates which can be used to insert updates. Default is False. DEPRECATED: Please switch to context based callbacks.
- pass_job_queue (bool, optional) If set to True, a keyword argument called job_queue will be passed to the callback function. It will be a class: telegram.ext.JobQueue instance created by the telegram.ext.Updater which can be used to schedule new jobs. Default is False. DEPRECATED: Please switch to context based callbacks.
- run_async (bool) Determines whether the callback will run asynchronously. Defaults to False.

command

The command this handler should listen for.

Type str

callback

The callback function for this handler.

Type callable

pass_args

Determines whether the handler should be passed args.

Type bool

pass_update_queue

Determines whether update_queue will be passed to the callback function.

Type bool

pass_job_queue

Determines whether job_queue will be passed to the callback function.

Type bool

run_async

Determines whether the callback will run asynchronously.

Type bool

check_update(update)

Determines whether an update should be passed to this handlers *callback*.

Parameters update (object) - The incoming update.

Returns bool

collect_additional_context (context, update, dispatcher, check_result)

Add text after the command to CallbackContext.args as list, split on single whitespaces.

collect_optional_args (dispatcher, update=None, check_result=None)

Provide text after the command to the callback the args argument as list, split on single whitespaces.

telegram.ext.StringRegexHandler

Handler class to handle string updates based on a regex which checks the update content.

Read the documentation of the re module for more information. The re.match function is used to determine if an update should be handled by this handler.

Note: This handler is not used to handle Telegram telegram. Update, but strings manually put in the queue. For example to send messages with the bot using command line or API.

Warning: When setting run_async to True, you cannot rely on adding custom attributes to telegram.ext.CallbackContext. See its docs for more info.

Parameters

- pattern (str | Pattern) The regex pattern.
- callback (callable) The callback function for this handler. Will be called when check_update has determined that an update should be processed by this handler.
 Callback signature for context based API:

```
def callback(update: Update, context: CallbackContext)
```

The return value of the callback is usually ignored except for the special case of telegram.ext.ConversationHandler.

- pass_groups (bool, optional) If the callback should be passed the result of re. match (pattern, data).groups() as a keyword argument called groups. Default is False DEPRECATED: Please switch to context based callbacks.
- pass_groupdict (bool, optional) If the callback should be passed the result of re.match(pattern, data).groupdict() as a keyword argument called groupdict. Default is False DEPRECATED: Please switch to context based callbacks
- pass_update_queue (bool, optional) If set to True, a keyword argument called update_queue will be passed to the callback function. It will be the Queue instance used by the telegram.ext.Updater and telegram.ext.Dispatcher that contains new updates which can be used to insert updates. Default is False. DEPRECATED: Please switch to context based callbacks.
- pass_job_queue (bool, optional) If set to True, a keyword argument called job_queue will be passed to the callback function. It will be a telegram.ext. JobQueue instance created by the telegram.ext.Updater which can be used to schedule new jobs. Default is False. DEPRECATED: Please switch to context based callbacks.
- run_async (bool) Determines whether the callback will run asynchronously. Defaults to False.

pattern

The regex pattern.

Type str|Pattern

callback

The callback function for this handler.

Type callable

pass_groups

Determines whether groups will be passed to the callback function.

Type bool

pass_groupdict

Determines whether groupdict. will be passed to the callback function.

Type bool

pass_update_queue

Determines whether update_queue will be passed to the callback function.

Type bool

pass_job_queue

Determines whether job_queue will be passed to the callback function.

Type bool

run_async

Determines whether the callback will run asynchronously.

Type bool

check_update(update)

Determines whether an update should be passed to this handlers *callback*.

Parameters update (object) - The incoming update.

Returns bool

collect_additional_context (context, update, dispatcher, check_result)

Add the result of re.match (pattern, update) to CallbackContext.matches as list with one element.

collect_optional_args (dispatcher, update=None, check_result=None)

Pass the results of re.match(pattern, update).{groups(), groupdict()} to the callback as a keyword arguments called groups and groupdict, respectively, if needed.

telegram.ext.TypeHandler

Bases: telegram.ext.handler.Handler[telegram.ext.typehandler.UT, telegram.ext.utils.types.CCT]

Handler class to handle updates of custom types.

Warning: When setting run_async to True, you cannot rely on adding custom attributes to telegram.ext.CallbackContext. See its docs for more info.

- **type** (*type*) The type of updates this handler should process, as determined by isinstance
- callback (callable) The callback function for this handler. Will be called when check_update has determined that an update should be processed by this handler.
 Callback signature for context based API:

def callback(update: Update, context: CallbackContext)

The return value of the callback is usually ignored except for the special case of telegram.ext.ConversationHandler.

- strict (bool, optional) Use type instead of isinstance. Default is False
- pass_update_queue (bool, optional) If set to True, a keyword argument called update_queue will be passed to the callback function. It will be the Queue instance used by the telegram.ext.Updater and telegram.ext.Dispatcher that contains new updates which can be used to insert updates. Default is False. DEPRE-CATED: Please switch to context based callbacks.
- pass_job_queue (bool, optional) If set to True, a keyword argument called job_queue will be passed to the callback function. It will be a telegram.ext. JobQueue instance created by the telegram.ext.Updater which can be used to schedule new jobs. Default is False. DEPRECATED: Please switch to context based callbacks.
- run_async (bool) Determines whether the callback will run asynchronously. Defaults to False.

type

The type of updates this handler should process.

Type type

callback

The callback function for this handler.

Type callable

strict

Use type instead of isinstance. Default is False.

Type bool

pass_update_queue

Determines whether update_queue will be passed to the callback function.

Type bool

pass_job_queue

Determines whether job_queue will be passed to the callback function.

Type bool

run_async

Determines whether the callback will run asynchronously.

Type bool

check_update(update)

Determines whether an update should be passed to this handlers *callback*.

Parameters update (object) - Incoming update.

Returns bool

3.1.13 Persistence

telegram.ext.BasePersistence

Interface class for adding persistence to your bot. Subclass this object for different implementations of a persistent bot.

All relevant methods must be overwritten. This includes:

- get bot data()
- update_bot_data()
- refresh_bot_data()
- get_chat_data()
- update_chat_data()
- refresh_chat_data()
- get_user_data()
- update_user_data()
- refresh_user_data()
- get_callback_data()
- update_callback_data()
- get_conversations()
- update_conversation()
- flush()

If you don't actually need one of those methods, a simple pass is enough. For example, if $store_bot_data=False$, you don't need $get_bot_data()$, $update_bot_data()$ or $refresh_bot_data()$.

Warning: Persistence will try to replace <code>telegram.Bot</code> instances by <code>REPLACED_BOT</code> and insert the bot set with <code>set_bot()</code> upon loading of the data. This is to ensure that changes to the bot apply to the saved objects, too. If you change the bots token, this may lead to e.g. Chat not found errors. For the limitations on replacing bots see <code>replace_bot()</code> and <code>insert_bot()</code>.

Note: replace_bot() and insert_bot() are used independently of the implementation of the update/get_*() methods, i.e. you don't need to worry about it while implementing a custom persistence subclass.

- **store_user_data** (bool, optional) Whether user_data should be saved by this persistence class. Default is True.
- **store_chat_data** (bool, optional) Whether chat_data should be saved by this persistence class. Default is True.
- **store_bot_data** (bool, optional) Whether bot_data should be saved by this persistence class. Default is True.

• **store_callback_data** (bool, optional) – Whether callback_data should be saved by this persistence class. Default is False.

New in version 13.6.

store user data

Optional, Whether user_data should be saved by this persistence class.

Type bool

store_chat_data

Optional. Whether chat_data should be saved by this persistence class.

Type bool

store_bot_data

Optional. Whether bot_data should be saved by this persistence class.

Type bool

store_callback_data

Optional. Whether callback_data should be saved by this persistence class.

New in version 13.6.

Type bool

REPLACED_BOT: ClassVar[str] = 'bot_instance_replaced_by_ptb_persistence' Placeholder for telegram.Bot instances replaced in saved data.

cenoider for telegram, Bot histalices replaced in saved data

Type str

flush()

Will be called by telegram.ext.Updater upon receiving a stop signal. Gives the persistence a chance to finish up saving or close a database connection gracefully.

abstract get_bot_data()

Will be called by telegram.ext.Dispatcher upon creation with a persistence object. It should return the bot_data if stored, or an empty telegram.ext.utils.types.BD.

Returns The restored bot data.

Return type telegram.ext.utils.types.BD

get_callback_data()

Will be called by telegram.ext.Dispatcher upon creation with a persistence object. If callback data was stored, it should be returned.

New in version 13.6.

Returns The restored meta data or None, if no data was stored.

Return type Optional[telegram.ext.utils.types.CDCData]

abstract get_chat_data()

Will be called by telegram.ext.Dispatcher upon creation with a persistence object. It should return the chat_data if stored, or an empty defaultdict (telegram.ext.utils.types.CD) with integer keys.

Returns The restored chat data.

Return type DefaultDict[int, telegram.ext.utils.types.CD]

abstract get_conversations(name)

Will be called by telegram.ext.Dispatcher when a telegram.ext.ConversationHandler is added if telegram.ext.ConversationHandler.persistent is True. It should return the conversations for the handler with name or an empty dict

Parameters name (str) – The handlers name.

Returns The restored conversations for the handler.

Return type dict

abstract get_user_data()

Will be called by telegram.ext.Dispatcher upon creation with a persistence object. It should return the user_data if stored, or an empty defaultdict (telegram.ext.utils.types. UD) with integer keys.

Returns The restored user data.

Return type DefaultDict[int, telegram.ext.utils.types.UD]

insert bot(obj)

Replaces all instances of REPLACED_BOT that occur within the passed object with bot. Currently, this handles objects of type list, tuple, set, frozenset, dict, defaultdict and objects that have a __dict__ or __slots__ attribute, excluding classes and objects that can't be copied with copy.copy. If the parsing of an object fails, the object will be returned unchanged and the error will be logged.

Parameters obj (object) - The object

Returns Copy of the object with Bot instances inserted.

Return type obj

refresh bot data(bot data)

Will be called by the telegram.ext.Dispatcher before passing the bot_data to a callback. Can be used to update data stored in bot_data from an external source.

New in version 13.6.

Parameters bot_data (telegram.ext.utils.types.BD) - The bot_data.

refresh_chat_data (chat_id, chat_data)

Will be called by the telegram.ext.Dispatcher before passing the chat_data to a callback. Can be used to update data stored in chat_data from an external source.

New in version 13.6.

Parameters

- ${\tt chat_id}\,({\tt int})\,{-}\,{\hbox{The chat ID this $chat_data$ is associated with.}}$
- chat_data (telegram.ext.utils.types.CD) The chat_data of a single chat.

refresh_user_data (user_id, user_data)

Will be called by the telegram.ext.Dispatcher before passing the user_data to a callback. Can be used to update data stored in user_data from an external source.

New in version 13.6.

Parameters

- user_id (int) The user ID this user_data is associated with.
- user_data (telegram.ext.utils.types.UD) The user_data of a single user.

classmethod replace_bot(obj)

Replaces all instances of telegram. Bot that occur within the passed object with REPLACED_BOT. Currently, this handles objects of type list, tuple, set, frozenset, dict, defaultdict and objects that have a __dict__ or __slots__ attribute, excluding classes and objects that can't be copied with copy.copy. If the parsing of an object fails, the object will be returned unchanged and the error will be logged.

Parameters obj (object) - The object

Returns Copy of the object with Bot instances replaced.

Return type obj

set_bot(bot)

Set the Bot to be used by this persistence instance.

Parameters bot (telegram.Bot) - The bot.

abstract update_bot_data(data)

Will be called by the telegram.ext.Dispatcher after a handler has handled an update.

Parameters data (telegram.ext.utils.types.BD) - The telegram.ext. Dispatcher.bot_data.

update_callback_data(data)

Will be called by the telegram.ext.Dispatcher after a handler has handled an update.

New in version 13.6.

Parameters data (telegram.ext.utils.types.CDCData) - The relevant data to restore telegram.ext.CallbackDataCache.

abstract update_chat_data(chat_id, data)

Will be called by the telegram.ext.Dispatcher after a handler has handled an update.

Parameters

- **chat_id** (int) The chat the data might have been changed for.
- data (telegram.ext.utils.types.CD) The telegram.ext. Dispatcher.chat_data[chat_id].

abstract update_conversation(name, key, new_state)

Will be called when a telegram.ext.ConversationHandler changes states. This allows the storage of the new state in the persistence.

Parameters

- name (str) The handler's name.
- **key** (tuple) The key the state is changed for.
- new_state (tuple | any) The new state for the given key.

abstract update_user_data(user_id, data)

Will be called by the telegram.ext.Dispatcher after a handler has handled an update.

Parameters

- user_id (int) The user the data might have been changed for.
- data (telegram.ext.utils.types.UD) The telegram.ext. Dispatcher.user_data [user_id].

telegram.ext.PicklePersistence

class telegram.ext.PicklePersistence(*args, **kwargs)

Bases: telegram.ext.basepersistence.BasePersistence[telegram.ext.utils.types.UD, telegram.ext.utils.types.CD, telegram.ext.utils.types.BD]

Using python's builtin pickle for making your bot persistent.

Warning: PicklePersistence will try to replace telegram.Bot instances by REPLACED_BOT and insert the bot set with telegram.ext.BasePersistence.set_bot() upon loading of the data. This is to ensure that changes to the bot apply to the saved objects, too. If you change the bots token, this may lead to e.g. Chat not found errors. For the limitations on replacing bots see telegram.ext.BasePersistence.replace_bot() and telegram.ext.BasePersistence.insert_bot().

Parameters

- **filename** (str) The filename for storing the pickle files. When *single_file* is False this will be used as a prefix.
- **store_user_data** (bool, optional) Whether user_data should be saved by this persistence class. Default is True.
- **store_chat_data** (bool, optional) Whether chat_data should be saved by this persistence class. Default is True.
- **store_bot_data** (bool, optional) Whether bot_data should be saved by this persistence class. Default is True.
- **store_callback_data** (bool, optional) Whether callback_data should be saved by this persistence class. Default is False.

New in version 13.6.

- **single_file** (bool, optional) When False will store 5 separate files of *file-name_user_data*, *filename_bot_data*, *filename_chat_data*, *filename_callback_data* and *filename_conversations*. Default is True.
- on_flush (bool, optional) When True will only save to file when flush() is called and keep data in memory until that happens. When False will store data on any transaction and on call to flush(). Default is False.
- context_types (telegram.ext.ContextTypes, optional) Pass an instance of telegram.ext.ContextTypes to customize the types used in the context interface. If not passed, the defaults documented in telegram.ext. ContextTypes will be used.

New in version 13.6.

filename

The filename for storing the pickle files. When single_file is False this will be used as a prefix.

Type str

store_user_data

Optional. Whether user_data should be saved by this persistence class.

Type bool

store_chat_data

Optional. Whether chat_data should be saved by this persistence class.

 $Type \ {\tt bool}$

store_bot_data

Optional. Whether bot_data should be saved by this persistence class.

Type bool

store_callback_data

Optional. Whether callback_data be saved by this persistence class.

New in version 13.6.

Type bool

single_file

Optional. When False will store 5 separate files of filename_user_data, filename_bot_data, filename_chat_data, filename_callback_data and filename_conversations. Default is True.

Type bool

on_flush

When True will only save to file when flush() is called and keep data in memory until that happens. When False will store data on any transaction and on call to flush(). Default is False.

```
Type bool, optional
context_types
    Container for the types used in the context interface.
    New in version 13.6.
        Type telegram.ext.ContextTypes
flush()
    Will save all data in memory to pickle file(s).
get bot data()
    Returns the bot data from the pickle file if it exists or an empty object of type telegram.ext.
     utils.types.BD.
        Returns The restored bot data.
        Return type telegram.ext.utils.types.BD
get_callback_data()
    Returns the callback data from the pickle file if it exists or None.
    New in version 13.6.
        Returns The restored meta data or None, if no data was stored.
        Return type Optional[telegram.ext.utils.types.CDCData]
get_chat_data()
    Returns the chat_data from the pickle file if it exists or an empty defaultdict.
        Returns The restored chat data.
        Return type DefaultDict[int, telegram.ext.utils.types.CD]
get_conversations(name)
    Returns the conversations from the pickle file if it exists or an empty dict.
        Parameters name (str) – The handlers name.
        Returns The restored conversations for the handler.
        Return type dict
get_user_data()
    Returns the user_data from the pickle file if it exists or an empty defaultdict.
         Returns The restored user data.
        Return type DefaultDict[int, telegram.ext.utils.types.UD]
refresh_bot_data(bot_data)
    Does nothing.
    New in version 13.6.
    See also:
     telegram.ext.BasePersistence.refresh_bot_data()
refresh_chat_data (chat_id, chat_data)
    Does nothing.
    New in version 13.6.
    See also:
     telegram.ext.BasePersistence.refresh_chat_data()
refresh_user_data (user_id, user_data)
    Does nothing.
    New in version 13.6.
```

See also:

```
telegram.ext.BasePersistence.refresh_user_data()
```

update_bot_data(data)

Will update the bot_data and depending on on_flush save the pickle file.

```
Parameters data (telegram.ext.utils.types.BD) - The telegram.ext. Dispatcher.bot_data.
```

update_callback_data(data)

Will update the callback_data (if changed) and depending on on_flush save the pickle file.

New in version 13.6.

Parameters data (telegram.ext.utils.types.CDCData) – The relevant data to restore telegram.ext.CallbackDataCache.

update_chat_data (chat_id, data)

Will update the chat_data and depending on on_flush save the pickle file.

Parameters

- **chat_id** (int) The chat the data might have been changed for.
- data (telegram.ext.utils.types.CD) The telegram.ext. Dispatcher.chat_data[chat_id].

update conversation(name, key, new state)

Will update the conversations for the given handler and depending on on_flush save the pickle file.

Parameters

- name (str) The handler's name.
- **key** (tuple) The key the state is changed for.
- new_state (tuple | any) The new state for the given key.

update_user_data (user_id, data)

Will update the user_data and depending on on_flush save the pickle file.

Parameters

- user_id (int) The user the data might have been changed for.
- data (telegram.ext.utils.types.UD) The telegram.ext. Dispatcher.user_data [user_id].

telegram.ext.DictPersistence

```
class telegram.ext.DictPersistence(*args, **kwargs)
```

```
Bases: Generic[telegram.ext.utils.types.UD, telegram.ext.utils.types.CD, telegram.ext.utils.types.BD], abc.ABC
```

Using Python's dict and json for making your bot persistent.

Note: This class does *not* implement a flush() method, meaning that data managed by <code>DictPersistence</code> is in-memory only and will be lost when the bot shuts down. This is, because <code>DictPersistence</code> is mainly intended as starting point for custom persistence classes that need to JSON-serialize the stored data before writing them to file/database.

Warning: DictPersistence will try to replace telegram.Bot instances by REPLACED_BOT and insert the bot set with telegram.ext.BasePersistence.set_bot() upon loading of the data. This is to ensure that changes to the bot apply to the saved objects, too. If you change the bots token, this may lead to e.g. Chat not found errors. For the limitations on replacing bots see telegram.ext.BasePersistence.replace_bot() and telegram.ext.BasePersistence.insert_bot().

Parameters

- **store_user_data** (bool, optional) Whether user_data should be saved by this persistence class. Default is True.
- **store_chat_data** (bool, optional) Whether chat_data should be saved by this persistence class. Default is True.
- **store_bot_data** (bool, optional) Whether bot_data should be saved by this persistence class. Default is True.
- **store_callback_data** (bool, optional) Whether callback_data should be saved by this persistence class. Default is False.

New in version 13.6.

- user_data_json (str, optional) JSON string that will be used to reconstruct user_data on creating this persistence. Default is "".
- **chat_data_json** (str, optional) JSON string that will be used to reconstruct chat_data on creating this persistence. Default is "".
- bot_data_json (str, optional) JSON string that will be used to reconstruct bot_data on creating this persistence. Default is "".
- callback_data_json (str, optional) Json string that will be used to reconstruct callback_data on creating this persistence. Default is "".

New in version 13.6.

• **conversations_json** (str, optional) – JSON string that will be used to reconstruct conversation on creating this persistence. Default is "".

store_user_data

Whether user_data should be saved by this persistence class.

Type bool

store_chat_data

Whether chat_data should be saved by this persistence class.

Type bool

store bot data

Whether bot_data should be saved by this persistence class.

Type bool

store_callback_data

Whether callback_data be saved by this persistence class.

New in version 13.6.

Type bool

property bot_data

The bot_data as a dict.

Type dict

property bot_data_json

The bot_data serialized as a JSON-string.

Type str

property callback_data

The meta data on the stored callback data.

New in version 13.6.

Type telegram.ext.utils.types.CDCData

property callback_data_json

The meta data on the stored callback data as a JSON-string.

New in version 13.6.

Type str

property chat_data

The chat data as a dict.

Type dict

property chat_data_json

The chat_data serialized as a JSON-string.

Type str

property conversations

The conversations as a dict.

Type dict

property conversations_json

The conversations serialized as a JSON-string.

Type str

get_bot_data()

Returns the bot_data created from the bot_data_json or an empty dict.

Returns The restored bot data.

Return type dict

get_callback_data()

Returns the callback_data created from the $callback_data_json$ or None.

New in version 13.6.

Returns The restored meta data or None, if no data was stored.

Return type Optional[telegram.ext.utils.types.CDCData]

get_chat_data()

Returns the chat_data created from the chat_data_json or an empty defaultdict.

Returns The restored chat data.

Return type defaultdict

get_conversations(name)

Returns the conversations created from the conversations_json or an empty dict.

Returns The restored conversations data.

Return type dict

get_user_data()

Returns the user_data created from the user_data_json or an empty defaultdict.

Returns The restored user data.

```
Return type defaultdict
refresh_bot_data(bot_data)
    Does nothing.
    New in version 13.6.
    See also:
     telegram.ext.BasePersistence.refresh bot data()
refresh_chat_data (chat_id, chat_data)
    Does nothing.
    New in version 13.6.
    See also:
     telegram.ext.BasePersistence.refresh_chat_data()
refresh_user_data (user_id, user_data)
    Does nothing.
    New in version 13.6.
    See also:
     telegram.ext.BasePersistence.refresh_user_data()
update bot data(data)
    Will update the bot_data (if changed).
        Parameters data (dict) - The telegram.ext.Dispatcher.bot_data.
update callback data(data)
    Will update the callback_data (if changed).
    New in version 13.6.
        Parameters data (telegram.ext.utils.types.CDCData) - The relevant data to
            restore telegram.ext.CallbackDataCache.
update_chat_data (chat_id, data)
    Will update the chat_data (if changed).
        Parameters
            • chat_id (int) – The chat the data might have been changed for.
            • data (dict) - The telegram.ext.Dispatcher.chat_data [chat_id].
update_conversation (name, key, new_state)
    Will update the conversations for the given handler.
        Parameters
            • name (str) – The handler's name.
            • key (tuple) – The key the state is changed for.
            • new_state (tuple | any) - The new state for the given key.
update_user_data (user_id, data)
    Will update the user_data (if changed).
        Parameters
            • user_id (int) - The user the data might have been changed for.
            • data (dict) - The telegram.ext.Dispatcher.user_data [user_id].
property user_data
    The user_data as a dict.
```

Type dict

property user_data_json

The user_data serialized as a JSON-string.

Type str

3.1.14 Arbitrary Callback Data

telegram.ext.CallbackDataCache

```
class telegram.ext.CallbackDataCache (bot, maxsize=1024, persistent_data=None)

Bases: object
```

A custom cache for storing the callback data of a telegram.ext.ExtBot. Internally, it keeps two mappings with fixed maximum size:

- One for mapping the data received in callback queries to the cached objects
- One for mapping the IDs of received callback queries to the cached objects

The second mapping allows to manually drop data that has been cached for keyboards of messages sent via inline mode. If necessary, will drop the least recently used items.

New in version 13.6.

Parameters

- bot (telegram.ext.ExtBot) The bot this cache is for.
- maxsize (int, optional) Maximum number of items in each of the internal mappings. Defaults to 1024.
- persistent_data (telegram.ext.utils.types.CDCData, optional) Data to initialize the cache with, as returned by telegram.ext.

 BasePersistence.get_callback_data().

bot

The bot this cache is for.

```
Type telegram.ext.ExtBot
```

maxsize

maximum size of the cache.

Type int

clear_callback_data(time_cutoff=None)

Clears the stored callback data.

Parameters time_cutoff (float | datetime.datetime, optional) - Pass a UNIX timestamp or a datetime.datetime to clear only entries which are older. For timezone naive datetime.datetime objects, the default timezone of the bot will be used.

clear_callback_queries()

Clears the stored callback query IDs.

drop_data (callback_query)

Deletes the data for the specified callback query.

Note: Will *not* raise exceptions in case the callback data is not found in the cache. *Will* raise KeyError in case the callback query can not be found in the cache.

Parameters callback_query (telegram.CallbackQuery) - The callback query.

Raises KeyError – If the callback query can not be found in the cache

static extract_uuids(callback_data)

Extracts the keyboard uuid and the button uuid from the given callback_data.

Parameters callback_data (str) - The callback_data as present in the button.

Returns Tuple of keyboard and button uuid

Return type (str, str)

property persistence_data

The data that needs to be persisted to allow caching callback data across bot reboots.

Type telegram.ext.utils.types.CDCData

process_callback_query (callback_query)

Replaces the data in the callback query and the attached messages keyboard with the cached objects, if necessary. If the data could not be found, telegram.ext.InvalidCallbackData will be inserted. If callback_query.data or callback_query.message is present, this also saves the callback queries ID in order to be able to resolve it to the stored data.

Note: Also considers inserts data into the buttons of telegram. Message. reply_to_message and telegram. Message.pinned_message if necessary.

Warning: *In place*, i.e. the passed *telegram*. *CallbackQuery* will be changed!

Parameters callback_query (telegram.CallbackQuery) - The callback query.

process_keyboard(reply_markup)

Registers the reply markup to the cache. If any of the buttons have callback_data, stores that data and builds a new keyboard with the correspondingly replaced buttons. Otherwise does nothing and returns the original reply markup.

Parameters reply_markup (telegram.InlineKeyboardMarkup) - The keyboard.

Returns The keyboard to be passed to Telegram.

Return type telegram. InlineKeyboardMarkup

$process_message(message)$

Replaces the data in the inline keyboard attached to the message with the cached objects, if necessary. If the data could not be found, telegram.ext.InvalidCallbackData will be inserted.

Note: Checks telegram.Message.via_bot and telegram.Message.from_user to check if the reply markup (if any) was actually sent by this caches bot. If it was not, the message will be returned unchanged.

Note that this will fail for channel posts, as telegram. Message.from_user is None for those! In the corresponding reply markups the callback data will be replaced by telegram.ext. InvalidCallbackData.

Warning:

- Does *not* consider telegram.Message.reply_to_message and telegram. Message.pinned_message. Pass them to these method separately.
- *In place*, i.e. the passed telegram. Message will be changed!

Parameters message (telegram. Message) - The message.

telegram.ext.InvalidCallbackData

```
class telegram.ext.InvalidCallbackData(callback_data=None)
```

Bases: telegram.error.TelegramError

Raised when the received callback data has been tempered with or deleted from cache.

New in version 13.6.

Parameters callback_data (int, optional) – The button data of which the callback data could not be found.

callback data

Optional. The button data of which the callback data could not be found.

Type int

3.1.15 utils

telegram.ext.utils.promise.Promise

Bases: object

A simple Promise implementation for use with the run_async decorator, DelayQueue etc.

Parameters

- pooled_function (callable) The callable that will be called concurrently.
- args (list | tuple) Positional arguments for pooled_function.
- **kwargs** (dict) Keyword arguments for *pooled_function*.
- update (telegram. Update | object, optional) The update this promise is associated with.
- error_handling (bool, optional) Whether exceptions raised by func may be handled by error handlers. Defaults to True.

pooled function

The callable that will be called concurrently.

Type callable

args

Positional arguments for pooled_function.

Type list | tuple

kwargs

Keyword arguments for pooled_function.

Type dict

done

Is set when the result is available.

Type threading. Event

update

Optional. The update this promise is associated with.

Type telegram. Update | object

error_handling

Optional. Whether exceptions raised by func may be handled by error handlers. Defaults to True.

```
Type bool
```

```
add_done_callback (callback)
```

Callback to be run when telegram.ext.utils.promise.Promise becomes done.

Note: Callback won't be called if pooled_function raises an exception.

Parameters

- callback (callable) The callable that will be called when promise is done.
- will be called by passing Promise.result() as only positional argument. (callback) -

property exception

The exception raised by pooled_function or None if no exception has been raised (yet).

```
result (timeout=None)
```

Return the result of the Promise.

Parameters timeout (float, optional) – Maximum time in seconds to wait for the result to be calculated. None means indefinite. Default is None.

Returns Returns the return value of *pooled_function* or None if the timeout expires.

:raises object exception raised by pooled_function.:

run()

Calls the pooled_function callable.

telegram.ext.utils.types Module

This module contains custom typing aliases.

```
New in version 13.6.
```

```
Type of the bot data.

New in version 13.6.

alias of TypeVar('BD')

telegram.ext.utils.types.CCT

An instance of telegram.ext.(
```

An instance of telegram.ext.CallbackContext or a custom subclass.

New in version 13.6.

```
alias of TypeVar('CCT')
```

```
{\tt telegram.ext.utils.types.CD}
```

Type of the chat data for a single user.

New in version 13.6.

alias of TypeVar('CD')

```
telegram.ext.utils.types.CDCData
```

 $\textbf{Data returned by } \textit{telegram.ext.CallbackDataCache.persistence_data.}$

New in version 13.6.

Type Tuple[List[Tuple[str, float, Dict[str, any]]], Dict[str, str]]

```
alias of Tuple[List[Tuple[str, float, Dict[str, Any]]], Dict[str, str]]
```

```
telegram.ext.utils.types.ConversationDict
```

Dicts as maintained by the telegram.ext.ConversationHandler.

New in version 13.6.

alias of Dict[Tuple[int, ...], Optional[object]]

telegram.ext.utils.types.UD

Type of the user data for a single user.

New in version 13.6.

alias of TypeVar('UD')

3.2 telegram package

3.2.1 telegram.Animation

Bases: telegram.base.TelegramObject

This object represents an animation file (GIF or H.264/MPEG-4 AVC video without sound).

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their file_unique_id is equal.

Parameters

- **file_id** (str) Identifier for this file, which can be used to download or reuse the file.
- **file_unique_id** (str) Unique identifier for this file, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.
- width (int) Video width as defined by sender.
- height (int) Video height as defined by sender.
- duration (int) Duration of the video in seconds as defined by sender.
- **thumb** (*telegram.PhotoSize*, optional) Animation thumbnail as defined by sender.
- **file_name** (str, optional) Original animation filename as defined by sender.
- mime_type (str, optional) MIME type of the file as defined by sender.
- file_size (int, optional) File size.
- **bot** (*telegram.Bot*, optional) The Bot to use for instance methods.
- **kwargs (dict) Arbitrary keyword arguments.

file id

File identifier.

Type str

file_unique_id

Unique identifier for this file, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.

Type str

width Video width as defined by sender. Type int height Video height as defined by sender. Type int duration Duration of the video in seconds as defined by sender. Type int thumb Optional. Animation thumbnail as defined by sender. Type telegram. PhotoSize file_name Optional. Original animation filename as defined by sender. Type str mime_type Optional. MIME type of the file as defined by sender. Type str file_size Optional. File size. Type int bot Optional. The Bot to use for instance methods. Type telegram. Bot classmethod de_json(data, bot) See telegram. TelegramObject.de_json().

3.2.2 telegram. Audio

get_file (timeout=None, api_kwargs=None)

Returns telegram. File

Convenience wrapper over telegram.Bot.get_file

Raises telegram.error.TelegramError -

For the documentation of the arguments, please see telegram.Bot.get_file().

This object represents an audio file to be treated as music by the Telegram clients.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their file_unique_id is equal.

Parameters

file_id (str) – Identifier for this file, which can be used to download or reuse the
file.

- **file_unique_id** (str) Unique identifier for this file, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.
- duration (int) Duration of the audio in seconds as defined by sender.
- **performer** (str, optional) Performer of the audio as defined by sender or by audio tags.
- title (str, optional) Title of the audio as defined by sender or by audio tags.
- **file_name** (str, optional) Original filename as defined by sender.
- mime_type (str, optional) MIME type of the file as defined by sender.
- file_size (int, optional) File size.
- **thumb** (*telegram.PhotoSize*, optional) Thumbnail of the album cover to which the music file belongs.
- **bot** (*telegram.Bot*, optional) The Bot to use for instance methods.
- **kwargs (dict) Arbitrary keyword arguments.

file_id

Identifier for this file.

Type str

file_unique_id

Unique identifier for this file, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.

Type str

duration

Duration of the audio in seconds.

Type int

performer

Optional. Performer of the audio as defined by sender or by audio tags.

Type str

title

Optional. Title of the audio as defined by sender or by audio tags.

Type str

file_name

Optional. Original filename as defined by sender.

Type str

mime_type

Optional. MIME type of the file as defined by sender.

Type str

file_size

Optional. File size.

Type int

thumb

Optional. Thumbnail of the album cover to which the music file belongs.

Type telegram.PhotoSize

bot

Optional. The Bot to use for instance methods.

Type telegram.Bot

```
classmethod de_json(data, bot)
    See telegram.TelegramObject.de_json().

get_file(timeout=None, api_kwargs=None)
    Convenience wrapper over telegram.Bot.get_file

For the documentation of the arguments, please see telegram.Bot.get_file().

    Returns telegram.File

    Raises telegram.error.TelegramError-
```

3.2.3 telegram.Bot

This object represents a Telegram Bot.

New in version 13.2: Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their bot is equal.

Note: Most bot methods have the argument api_kwargs which allows to pass arbitrary keywords to the Telegram API. This can be used to access new features of the API before they were incorporated into PTB. However, this is not guaranteed to work, i.e. it will fail for passing files.

Parameters

- token (str) Bot's unique authentication.
- base_url (str, optional) Telegram Bot API service URL.
- base_file_url (str, optional) Telegram Bot API file URL.
- request (telegram.utils.request.Request, optional) Pre initialized telegram.utils.request.Request.
- private_key (bytes, optional) Private key for decryption of telegram passport
- private_key_password (bytes, optional) Password for above private key.
- **defaults** (telegram.ext.Defaults, optional) An object containing default values to be used if not set explicitly in the bot methods.

Deprecated since version 13.6: Passing telegram.ext.Defaults to telegram. Bot is deprecated. If you want to use telegram.ext.Defaults, please use telegram.ext.ExtBot instead.

```
add_sticker_to_set (user_id, name, emojis, png_sticker=None, mask_position=None, time-out=20, tgs_sticker=None, api_kwargs=None, webm_sticker=None)

Use this method to add a new sticker to a set created by the bot. You must use exactly one of the fields png_sticker, tgs_sticker or webm_sticker. Animated stickers can be added to animated sticker sets and only to them. Animated sticker sets can have up to 50 stickers. Static sticker sets can have up to 120 stickers.
```

Warning: As of API 4.7 png_sticker is an optional argument and therefore the order of the arguments had to be changed. Use keyword arguments to make sure that the arguments are passed correctly.

Note: The png_sticker and tgs_sticker argument can be either a file_id, an URL or a file from disk open(filename, 'rb')

Parameters

- user_id (int) User identifier of created sticker set owner.
- name (str) Sticker set name.
- png_sticker (str | filelike object | bytes | pathlib.Path, optional) PNG image with the sticker, must be up to 512 kilobytes in size, dimensions must not exceed 512px, and either width or height must be exactly 512px. Pass a file_id as a String to send a file that already exists on the Telegram servers, pass an HTTP URL as a String for Telegram to get a file from the Internet, or upload a new one using multipart/form-data.

Changed in version 13.2: Accept bytes as input.

• tgs_sticker (str | filelike object | bytes | pathlib.Path, optional) - TGS animation with the sticker, uploaded using multipart/form-data. See https://core.telegram.org/stickers#animated-sticker-requirements for technical requirements.

Changed in version 13.2: Accept bytes as input.

• webm_sticker (str | file object | bytes | pathlib.Path, optional) – WEBM video with the sticker, uploaded using multipart/form-data. See https://core.telegram.org/stickers#video-sticker-requirements for technical requirements.

New in version 13.11.

- emojis (str) One or more emoji corresponding to the sticker.
- mask_position (telegram.MaskPosition, optional) Position where the mask should be placed on faces.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError -

Alias for answer_pre_checkout_query()

Alias for answer_shipping_query()

 $\begin{tabular}{ll} answerWebAppQuery (web_app_query_id, result, timeout=None, api_kwargs=None) \\ Alias for $answer_web_app_query()$ \end{tabular}$

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. Alternatively, the user can be redirected to the specified Game URL. For this option to work, you must first create a game for your bot via @BotFather and accept the terms. Otherwise, you may use links like t.me/your_bot?start=XXXX that open your bot with a parameter.

Parameters

- callback_query_id (str) Unique identifier for the query to be answered.
- **text** (str, optional) Text of the notification. If not specified, nothing will be shown to the user, 0-200 characters.
- **show_alert** (bool, 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 (str, optional) URL that will be opened by the user's client. If you have created a Game and accepted the conditions via @BotFather, specify the URL that opens your game note that this will only work if the query comes from a callback game button. Otherwise, you may use links like t.me/your_bot?start=XXXX that open your bot with a parameter.
- **cache_time** (int, optional) The maximum amount of time in seconds that the result of the callback query may be cached client-side. Defaults to 0.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns bool On success, True is returned.

Raises telegram.error.TelegramError-

```
answer_inline_query (inline_query_id, results, cache_time=300, is_personal=None, next_offset=None, switch_pm_text=None, switch_pm_parameter=None, timeout=None, current_offset=None, api_kwargs=None)
```

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

Warning: In most use cases current_offset should not be passed manually. Instead of calling this method directly, use the shortcut <code>telegram.InlineQuery.answer()</code> with <code>auto_pagination=True</code>, which will take care of passing the correct value.

- inline_query_id (str) Unique identifier for the answered query.
- results (List[telegram.InlineQueryResult] | Callable) A list of results for the inline query. In case current_offset is passed, results may also be a callable that accepts the current page index starting from 0. It must return either a list of telegram.InlineQueryResult instances or None if there are no more results.

- cache_time (int, optional) The maximum amount of time in seconds that the result of the inline query may be cached on the server. Defaults to 300.
- is_personal (bool, 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 (str, 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** (str, 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** (str, 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.
- **current_offset** (str, optional) The *telegram.InlineQuery.offset* of the inline query to answer. If passed, PTB will automatically take care of the pagination for you, i.e. pass the correct next_offset and truncate the results list/get the results from the callable you passed.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

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 oauth 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.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError-

answer_pre_checkout_query (pre_checkout_query_id, ok, error_message=None, timeout=None, api_kwargs=None)

Once the user has confirmed their payment and shipping details, the Bot API sends the final confirmation in the form of an telegram. Update with the field Update.pre_checkout_query. Use this method to respond to such pre-checkout queries.

Note: The Bot API must receive an answer within 10 seconds after the pre-checkout query was sent.

- pre_checkout_query_id (str) Unique identifier for the query to be answered.
- **ok** (bool) Specify True if everything is alright (goods are available, etc.) and the bot is ready to proceed with the order. Use False if there are any problems.

- **error_message** (str, optional) Required if ok is False. Error message in human readable form that explains the reason for failure to proceed with the checkout (e.g. "Sorry, somebody just bought the last of our amazing black T-shirts while you were busy filling out your payment details. Please choose a different color or garment!"). Telegram will display this message to the user.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError-

answer_shipping_query (shipping_query_id, ok, shipping_options=None, error_message=None, timeout=None, api_kwargs=None)

If you sent an invoice requesting a shipping address and the parameter is_flexible was specified, the Bot API will send an telegram. Update with a Update. shipping_query field to the bot. Use this method to reply to shipping queries.

Parameters

- **shipping_query_id** (str) Unique identifier for the query to be answered.
- **ok** (bool) Specify True if delivery to the specified address is possible and False if there are any problems (for example, if delivery to the specified address is not possible).
- **shipping_options** (List[telegram.ShippingOption]) Required if ok is True. A JSON-serialized array of available shipping options.
- **error_message** (str, optional) Required if ok is False. Error message in human readable form that explains why it is impossible to complete the order (e.g. "Sorry, delivery to your desired address is unavailable"). Telegram will display this message to the user.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError-

answer_web_app_query (web_app_query_id, result, timeout=None, api_kwargs=None)

Use this method to set the result of an interaction with a Web App and send a corresponding message on behalf of the user to the chat from which the query originated.

New in version 13.12.

- web_app_query_id (str) Unique identifier for the query to be answered.
- result (telegram.InlineQueryResult) An object describing the message to be sent.

- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, a sent telegram. Sent WebAppMessage is returned.

Return type telegram. Sent Web App Message

Raises telegram.error.TelegramError-

approveChatJoinRequest (chat_id, user_id, timeout=None, api_kwargs=None)

Alias for approve chat join request ()

approve_chat_join_request (*chat_id*, *user_id*, *timeout=None*, *api_kwargs=None*) Use this method to approve a chat join request.

The bot must be an administrator in the chat for this to work and must have the telegram. ChatPermissions.can_invite_users administrator right.

New in version 13.8.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- user_id (int) Unique identifier of the target user.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError-

Alias for ban_chat_member()

banChatSenderChat (chat_id, sender_chat_id, timeout=None, api_kwargs=None)

Alias for ban_chat_sender_chat()

Use this method to ban a user from a group, supergroup or a channel. In the case of supergroups and channels, the user will not be able to return to the group on their own using invite links, etc., unless unbanned first. The bot must be an administrator in the chat for this to work and must have the appropriate admin rights.

New in version 13.7.

- **chat_id** (int | str) Unique identifier for the target group or username of the target supergroup or channel (in the format @channelusername).
- user_id (int) Unique identifier of the target user.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).

- until_date (int | datetime.datetime, optional) Date when the user will be unbanned, unix time. If user is banned for more than 366 days or less than 30 seconds from the current time they are considered to be banned forever. Applied for supergroups and channels only. For timezone naive datetime.datetime objects, the default timezone of the bot will be used.
- revoke_messages (bool, optional) Pass True to delete all messages from the chat for the user that is being removed. If False, the user will be able to see messages in the group that were sent before the user was removed. Always True for supergroups and channels.

New in version 13.4.

• api_kwargs (dict, optional) – Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError-

ban_chat_sender_chat (chat_id, sender_chat_id, timeout=None, api_kwargs=None)

Use this method to ban a channel chat in a supergroup or a channel. Until the chat is unbanned, the owner of the banned chat won't be able to send messages on behalf of **any of their channels**. The bot must be an administrator in the supergroup or channel for this to work and must have the appropriate administrator rights.

New in version 13.9.

Parameters

- **chat_id** (int | str) Unique identifier for the target group or username of the target supergroup or channel (in the format @channelusername).
- **sender_chat_id** (int) Unique identifier of the target sender chat.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError -

property bot

User instance for the bot as returned by get_me().

Type telegram. User

property can_join_groups

Bot's telegram. User.can_join_groups attribute.

Type bool

property can_read_all_group_messages

Bot's telegram. User.can_read_all_group_messages attribute.

Type bool

close (timeout=None)

Use this method to close the bot instance before moving it from one local server to another. You need to delete the webhook before calling this method to ensure that the bot isn't launched again after server restart. The method will return error 429 in the first 10 minutes after the bot is launched.

Parameters timeout (int | float, optional) – If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).

Returns On success

Return type True

Raises telegram.error.TelegramError-

property commands

Bot's commands as available in the default scope.

Deprecated since version 13.7: This property has been deprecated since there can be different commands available for different scopes.

Type List[BotCommand]

copyMessage (chat_id, from_chat_id, message_id, caption=None, parse_mode=None, caption_entities=None, disable_notification=None, reply_to_message_id=None, allow_sending_without_reply=None, reply_markup=None, timeout=None, api_kwargs=None, protect_content=None)

Alias for copy_message()

copy_message (chat_id, from_chat_id, message_id, caption=None, parse_mode=None, caption_entities=None, disable_notification=None, reply_to_message_id=None, allow_sending_without_reply=None, reply_markup=None, timeout=None, api_kwargs=None, protect_content=None)

Use this method to copy messages of any kind. Service messages and invoice messages can't be copied. The method is analogous to the method <code>forward_message()</code>, but the copied message doesn't have a link to the original message.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **from_chat_id** (int | str) Unique identifier for the chat where the original message was sent (or channel username in the format @channelusername).
- message_id (int) Message identifier in the chat specified in from_chat_id.
- **caption** (str, optional) New caption for media, 0-1024 characters after entities parsing. If not specified, the original caption is kept.
- parse_mode (str, optional) Mode for parsing entities in the new caption. See the constants in telegram. ParseMode for the available modes.
- caption_entities (telegram.utils.types.SLT[MessageEntity]) List of special entities that appear in the new caption, which can be specified instead of parse_mode
- disable_notification (bool, optional) Sends the message silently. Users will receive a notification with no sound.
- **protect_content** (bool, optional) Protects the contents of the sent message from forwarding and saving.

New in version 13.10.

- reply_to_message_id (int, optional) If the message is a reply, ID of the original message.
- allow_sending_without_reply (bool, optional) Pass True, if the message should be sent even if the specified replied-to message is not found.
- reply_markup (telegram.ReplyMarkup, optional) Additional interface options. A JSON-serialized object for an inline keyboard, custom reply keyboard, instructions to remove reply keyboard or to force a reply from the user.

- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success

Return type telegram. Message Id

Raises telegram.error.TelegramError-

Alias for create_new_sticker_set()

Use this method to create an additional invite link for a chat. The bot must be an administrator in the chat for this to work and must have the appropriate admin rights. The link can be revoked using the method revoke_chat_invite_link().

New in version 13.4.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **expire_date** (int | datetime.datetime, optional) Date when the link will expire. Integer input will be interpreted as Unix timestamp. For timezone naive datetime.datetime objects, the default timezone of the bot will be used.
- member_limit (int, optional) Maximum number of users that can be members of the chat simultaneously after joining the chat via this invite link; 1-99999.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.
- name (str, optional) Invite link name; 0-32 characters.

New in version 13.8.

• creates_join_request (bool, optional) - True, if users joining the chat via the link need to be approved by chat administrators. If True, member_limit can't be specified.

New in version 13.8.

Returns telegram.ChatInviteLink

Raises telegram.error.TelegramError-

create_new_sticker_set (user_id, name, title, emojis, png_sticker=None, con tains_masks=None, mask_position=None, timeout=20

 $tgs_sticker=None, api_kwargs=None, webm_sticker=None)$ Use this method to create new sticker set owned by a user. The bot will be able to edit the created sticker set. You must use exactly one of the fields png_sticker, tgs_sticker, or webm_sticker.

Warning: As of API 4.7 png_sticker is an optional argument and therefore the order of the arguments had to be changed. Use keyword arguments to make sure that the arguments are passed correctly.

Note: The png_sticker and tgs_sticker argument can be either a file_id, an URL or a file from disk open(filename, 'rb')

Parameters

- user_id (int) User identifier of created sticker set owner.
- name (str) Short name of sticker set, to be used in t.me/addstickers/ URLs (e.g., animals). Can contain only english letters, digits and underscores. Must begin with a letter, can't contain consecutive underscores and must end in "_by_<bot username>". <bot_username> is case insensitive. 1-64 characters.
- **title** (str) Sticker set title, 1-64 characters.
- png_sticker (str | filelike object | bytes | pathlib.Path, optional) PNG image with the sticker, must be up to 512 kilobytes in size, dimensions must not exceed 512px, and either width or height must be exactly 512px. Pass a file_id as a String to send a file that already exists on the Telegram servers, pass an HTTP URL as a String for Telegram to get a file from the Internet, or upload a new one using multipart/form-data.

Changed in version 13.2: Accept bytes as input.

• tgs_sticker (str | filelike object | bytes | pathlib.Path, optional) - TGS animation with the sticker, uploaded using multipart/form-data. See https://core.telegram.org/stickers#animated-sticker-requirements for technical requirements.

Changed in version 13.2: Accept bytes as input.

• webm_sticker (str | file object | bytes | pathlib.Path, optional) – WEBM video with the sticker, uploaded using multipart/form-data. See https://core.telegram.org/stickers#video-sticker-requirements for technical requirements.

New in version 13.11.

- **emojis** (str) One or more emoji corresponding to the sticker.
- contains_masks (bool, optional) Pass True, if a set of mask stickers should be created.
- mask_position (telegram.MaskPosition, optional) Position where the mask should be placed on faces.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError -

declineChatJoinRequest (chat_id, user_id, timeout=None, api_kwargs=None)
 Alias for decline_chat_join_request()

decline_chat_join_request (*chat_id*, *user_id*, *timeout=None*, *api_kwargs=None*) Use this method to decline a chat join request.

The bot must be an administrator in the chat for this to work and must have the telegram. ChatPermissions.can_invite_users administrator right.

New in version 13.8.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- user_id (int) Unique identifier of the target user.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError -

deleteChatPhoto (chat_id, timeout=None, api_kwargs=None)

Alias for delete_chat_photo()

deleteChatStickerSet (chat_id, timeout=None, api_kwargs=None)

Alias for delete chat sticker set ()

deleteMessage (chat_id, message_id, timeout=None, api_kwargs=None)

Alias for delete_message()

deleteMyCommands (scope=None, language_code=None, api_kwargs=None, timeout=None)

Alias for delete_my_commands()

deleteStickerFromSet (sticker, timeout=None, api_kwargs=None)

Alias for delete_sticker_from_set()

deleteWebhook (timeout=None, api_kwargs=None, drop_pending_updates=None)

Alias for delete_webhook()

delete_chat_photo (chat_id, timeout=None, api_kwargs=None)

Use this method to delete a chat photo. Photos can't be changed for private chats. The bot must be an administrator in the chat for this to work and must have the appropriate admin rights.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError-

delete_chat_sticker_set (chat_id, timeout=None, api_kwargs=None)

Use this method to delete a group sticker set from a supergroup. The bot must be an administrator

in the chat for this to work and must have the appropriate admin rights. Use the field telegram. Chat.can_set_sticker_set optionally returned in get_chat() requests to check if the bot can use this method.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target supergroup (in the format @supergroupusername).
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

delete_message (chat_id, message_id, timeout=None, api_kwargs=None)

Use this method to delete a message, including service messages, with the following limitations:

- A message can only be deleted if it was sent less than 48 hours ago.
- A dice message in a private chat can only be deleted if it was sent more than 24 hours ago.
- Bots can delete outgoing messages in private chats, groups, and supergroups.
- Bots can delete incoming messages in private chats.
- Bots granted telegram. ChatMember.can_post_messages permissions can delete outgoing messages in channels.
- If the bot is an administrator of a group, it can delete any message there.
- If the bot has telegram. ChatMember.can_delete_messages permission in a supergroup or a channel, it can delete any message there.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- message_id (int) Identifier of the message to delete.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError-

delete_my_commands (scope=None, language_code=None, api_kwargs=None, timeout=None)

Use this method to delete the list of the bot's commands for the given scope and user language. After deletion, higher level commands will be shown to affected users.

New in version 13.7.

Parameters

• scope (telegram.BotCommandScope, optional) - A JSON-serialized object, describing scope of users for which the commands are relevant. Defaults to telegram.BotCommandScopeDefault.

- language_code (str, optional) A two-letter ISO 639-1 language code. If empty, commands will be applied to all users from the given scope, for whose language there are no dedicated commands.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Return type bool

Raises telegram.error.TelegramError -

delete_sticker_from_set (sticker, timeout=None, api_kwargs=None)

Use this method to delete a sticker from a set created by the bot.

Parameters

- **sticker** (str) File identifier of the sticker.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError -

delete_webhook (timeout=None, api_kwargs=None, drop_pending_updates=None)

Use this method to remove webhook integration if you decide to switch back to <code>get_updates()</code>.

Parameters

- drop_pending_updates (bool, optional) Pass True to drop all pending updates.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError-

```
editMessageCaption (chat_id=None, message_id=None, inline_message_id=None, cap-
tion=None, reply_markup=None, timeout=None, parse_mode=None,
api_kwargs=None, caption_entities=None)
```

Alias for edit_message_caption()

 $\begin{tabular}{ll} \bf editMessageText~(\it text, & \it chat_id=None, & \it message_id=None, & \it inline_message_id=None, \\ & \it parse_mode=None, disable_web_page_preview=None, reply_markup=None, \\ & \it timeout=None, api_kwargs=None, entities=None) \\ & Alias~for~edit_message_text~() \end{tabular}$

Use this method to edit a non-primary invite link created by the bot. The bot must be an administrator in the chat for this to work and must have the appropriate admin rights.

Note: Though not stated explicitly in the official docs, Telegram changes not only the optional parameters that are explicitly passed, but also replaces all other optional parameters to the default values. However, since not documented, this behaviour may change unbeknown to PTB.

New in version 13.4.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- invite link (str) The invite link to edit.
- expire_date (int | datetime.datetime, optional) Date when the link will expire. For timezone naive datetime.datetime objects, the default timezone of the bot will be used.
- member_limit (int, optional) Maximum number of users that can be members of the chat simultaneously after joining the chat via this invite link; 1-99999.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.
- name (str, optional) Invite link name; 0-32 characters.

New in version 13.8.

• creates_join_request (bool, optional) - True, if users joining the chat via the link need to be approved by chat administrators. If True, member_limit can't be specified.

New in version 13.8.

Returns telegram.ChatInviteLink

Raises telegram.error.TelegramError-

 $\begin{tabular}{ll} \bf edit_message_caption~(chat_id=None,~message_id=None,~inline_message_id=None,~caption=None,~reply_markup=None,~timeout=None,~parse_mode=None,~api_kwargs=None,~caption_entities=None) \end{tabular}$

Use this method to edit captions of messages.

Parameters

- **chat_id** (int | str, optional) Required if inline_message_id is not specified. Unique identifier for the target chat or username of the target channel (in the format @channelusername)
- message_id (int, optional) Required if inline_message_id is not specified. Identifier of the message to edit.
- inline_message_id (str, optional) Required if chat_id and message_id are not specified. Identifier of the inline message.
- **caption** (str, optional) New caption of the message, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram.ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in message text, which can be specified instead of parse_mode.
- reply_markup (telegram.InlineKeyboardMarkup, optional) A JSON-serialized object for an inline keyboard.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, if edited message is not an inline message, the edited message is returned, otherwise True is returned.

Return type telegram. Message

Raises telegram.error.TelegramError -

edit_message_live_location (chat_id=None, message_id=None, inline_message_id=None, latitude=None, longitude=None, location=None, reply_markup=None, timeout=None, api_kwargs=None, horizontal_accuracy=None, heading=None, proximity_alert radius=None)

Use this method to edit live location messages sent by the bot or via the bot (for inline bots). A location can be edited until its telegram. Location.live_period expires or editing is explicitly disabled by a call to stop_message_live_location().

Note: You can either supply a latitude and longitude or a location.

- **chat_id** (int | str, optional) Required if inline_message_id is not specified. Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- message_id (int, optional) Required if inline_message_id is not specified. Identifier of the message to edit.

- inline_message_id (str, optional) Required if chat_id and message_id are not specified. Identifier of the inline message.
- latitude (float, optional) Latitude of location.
- longitude (float, optional) Longitude of location.
- **location** (telegram.Location, optional) The location to send.
- horizontal_accuracy (float, optional) The radius of uncertainty for the location, measured in meters; 0-1500.
- heading (int, optional) Direction in which the user is moving, in degrees. Must be between 1 and 360 if specified.
- **proximity_alert_radius** (int, optional) Maximum distance for proximity alerts about approaching another chat member, in meters. Must be between 1 and 100000 if specified.
- reply_markup (telegram.InlineKeyboardMarkup, optional) A JSON-serialized object for a new inline keyboard.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, if edited message is not an inline message, the edited message is returned, otherwise True is returned.

Return type telegram. Message

edit_message_media (chat_id=None, message_id=None, inline_message_id=None, media=None, reply_markup=None, timeout=None, api_kwargs=None)

Use this method to edit animation, audio, document, photo, or video messages. If a message is part

Use this method to edit animation, audio, document, photo, or video messages. If a message is part of a message album, then it can be edited only to an audio for audio albums, only to a document for document albums and to a photo or a video otherwise. When an inline message is edited, a new file can't be uploaded. Use a previously uploaded file via its file_id or specify a URL.

Parameters

- **chat_id** (int | str, optional) Required if inline_message_id is not specified. Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- message_id (int, optional) Required if inline_message_id is not specified. Identifier of the message to edit.
- inline_message_id (str, optional) Required if chat_id and message_id are not specified. Identifier of the inline message.
- media (telegram.InputMedia) An object for a new media content of the message.
- reply_markup (telegram.InlineKeyboardMarkup, optional) A JSON-serialized object for an inline keyboard.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, if edited message is sent by the bot, the edited Message is returned, otherwise True is returned.

Return type telegram. Message

Raises telegram.error.TelegramError-

edit_message_reply_markup (chat_id=None, message_id=None, inline_message_id=None, reply_markup=None, timeout=None, api_kwargs=None)

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

Parameters

- **chat_id** (int | str, optional) Required if inline_message_id is not specified. Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- message_id (int, optional) Required if inline_message_id is not specified. Identifier of the message to edit.
- **inline_message_id** (str, optional) Required if chat_id and message_id are not specified. Identifier of the inline message.
- reply_markup (telegram.InlineKeyboardMarkup, optional) A JSON-serialized object for an inline keyboard.
- timeout (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, if edited message is not an inline message, the edited message is returned, otherwise True is returned.

Return type telegram. Message

Raises telegram.error.TelegramError-

- **chat_id** (int | str, optional) Required if inline_message_id is not specified. Unique identifier for the target chat or username of the target channel (in the format @channelusername)
- message_id (int, optional) Required if inline_message_id is not specified. Identifier of the message to edit.
- **inline_message_id** (str, optional) Required if chat_id and message_id are not specified. Identifier of the inline message.
- **text** (str) New text of the message, 1-4096 characters after entities parsing.
- parse_mode (str, 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. See the constants in telegram.ParseMode for the available modes.
- **entities** (List[telegram.MessageEntity], optional) List of special entities that appear in message text, which can be specified instead of parse_mode.
- disable_web_page_preview (bool, optional) Disables link previews for links in this message.
- reply_markup (telegram.InlineKeyboardMarkup, optional) A JSON-serialized object for an inline keyboard.

- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, if edited message is not an inline message, the edited message is returned, otherwise True is returned.

Return type telegram.Message

Raises telegram.error.TelegramError-

exportChatInviteLink (chat_id, timeout=None, api_kwargs=None)

Alias for export_chat_invite_link()

export_chat_invite_link (chat_id, timeout=None, api_kwargs=None)

Use this method to generate a new primary invite link for a chat; any previously generated link is revoked. The bot must be an administrator in the chat for this to work and must have the appropriate admin rights.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Note: Each administrator in a chat generates their own invite links. Bots can't use invite links generated by other administrators. If you want your bot to work with invite links, it will need to generate its own link using <code>export_chat_invite_link()</code> or by calling the <code>get_chat()</code> method. If your bot needs to generate a new primary invite link replacing its previous one, use <code>export_chat_invite_link</code> again.

Returns New invite link on success.

Return type str

Raises telegram.error.TelegramError-

property first_name

Bot's first name.

Type str

forwardMessage (chat_id, from_chat_id, message_id, disable_notification=None, timeout=None, api_kwargs=None, protect_content=None)

Alias for forward_message()

forward_message(chat_id, from_chat_id, message_id, disable_notification=None, timeout=None, api_kwargs=None, protect_content=None)

Use this method to forward messages of any kind. Service messages can't be forwarded.

Note: Since the release of Bot API 5.5 it can be impossible to forward messages from some chats. Use the attributes telegram. Message. has_protected_content and telegram. Chat. has_protected_content to check this.

As a workaround, it is still possible to use <code>copy_message()</code>. However, this behaviour is undocumented and might be changed by Telegram.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **from_chat_id** (int | str) Unique identifier for the chat where the original message was sent (or channel username in the format @channelusername).
- message_id (int) Message identifier in the chat specified in from_chat_id.
- **disable_notification** (bool, optional) Sends the message silently. Users will receive a notification with no sound.
- **protect_content** (bool, optional) Protects the contents of the sent message from forwarding and saving.

New in version 13.10.

- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, the sent Message is returned. Return type telegram. Message Raises telegram.error.TelegramError getChat (chat_id, timeout=None, api_kwargs=None) Alias for get_chat () getChatAdministrators (chat_id, timeout=None, api_kwargs=None) Alias for get_chat_administrators() getChatMember (chat_id, user_id, timeout=None, api_kwargs=None) Alias for get_chat_member() getChatMemberCount (chat_id, timeout=None, api_kwargs=None) Alias for get_chat_member_count() getChatMembersCount (chat_id, timeout=None, api_kwargs=None) Alias for get_chat_members_count() getChatMenuButton (chat_id=None, timeout=None, api_kwargs=None) Alias for get_chat_menu_button() getFile (file_id, timeout=None, api_kwargs=None) Alias for get file() getGameHighScores (user_id, chat_id=None, message_id=None, inline_message_id=None, timeout=None, api kwargs=None) Alias for get_game_high_scores() getMe (timeout=None, api_kwargs=None) Alias for get_me() **getMyCommands** (timeout=None, api_kwargs=None, scope=None, language_code=None) Alias for $get_my_commands()$ getMyDefaultAdministratorRights (for_channels=None, timeout=None,

api kwargs=None)

Alias for get_my_default_administrator_rights()

```
getStickerSet (name, timeout=None, api_kwargs=None)
    Alias for get_sticker_set()
getUpdates (offset=None, limit=100, timeout=0, read latency=2.0, allowed updates=None,
             api kwargs=None)
    Alias for get\_updates()
getUserProfilePhotos (user_id, offset=None, limit=100, timeout=None, api_kwargs=None)
    Alias for get user profile photos ()
getWebhookInfo(timeout=None, api_kwargs=None)
    Alias for get_webhook_info()
get_chat (chat_id, timeout=None, api_kwargs=None)
```

Use this method to get up to date information about the chat (current name of the user for one-on-one conversations, current username of a user, group or channel, etc.).

Parameters

- chat_id(int|str) Unique identifier for the target chat or username of the target supergroup or channel (in the format @channelusername).
- timeout (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns telegram. Chat

Raises telegram.error.TelegramError -

get_chat_administrators (chat_id, timeout=None, api_kwargs=None) Use this method to get a list of administrators in a chat.

Parameters

- chat_id(int|str) Unique identifier for the target chat or username of the target supergroup or channel (in the format @channelusername).
- timeout (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, returns a list of Chat Member objects that contains information about all chat administrators except other bots. If the chat is a group or a supergroup and no administrators were appointed, only the creator will be returned.

Return type List[telegram.ChatMember]

Raises telegram.error.TelegramError-

get_chat_member (chat_id, user_id, timeout=None, api_kwargs=None) Use this method to get information about a member of a chat.

- chat_id (int | str) Unique identifier for the target chat or username of the target supergroup or channel (in the format @channelusername).
- user_id (int) Unique identifier of the target user.
- timeout (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).

• api_kwargs (dict, optional) - Arbitrary keyword arguments to be passed to the Telegram API.

Returns telegram.ChatMember

Raises telegram.error.TelegramError -

get_chat_member_count (chat_id, timeout=None, api_kwargs=None)

Use this method to get the number of members in a chat.

New in version 13.7.

Parameters

- **chat_id**(intlstr) Unique identifier for the target chat or username of the target supergroup or channel (in the format @channelusername).
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns Number of members in the chat.

Return type int

Raises telegram.error.TelegramError -

get_chat_members_count (chat_id, timeout=None, api_kwargs=None)

Deprecated, use get_chat_member_count() instead.

Deprecated since version 13.7.

get_chat_menu_button(chat_id=None, timeout=None, api_kwargs=None)

Use this method to get the current value of the bot's menu button in a private chat, or the default menu button.

See also:

```
set_chat_menu_button(), telegram.Chat.get_menu_button(), telegram.
User.get_menu_button()
```

New in version 13.12.

Parameters

- **chat_id** (int, optional) Unique identifier for the target private chat. If not specified, default bot's menu button will be returned.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, the current menu button is returned.

Return type telegram. MenuButton

get_file (file_id, timeout=None, api_kwargs=None)

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. The file can then be downloaded with <code>telegram.File.download()</code>. 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 <code>get_file</code> again.

Note: This function may not preserve the original file name and MIME type. You should save the file's MIME type and name (if available) when the File object is received.

Parameters

- file_id (str | telegram.Animation | telegram.Audio | telegram.
 ChatPhoto | telegram.Document | telegram.PhotoSize | telegram.
 Sticker | telegram.Video | telegram.VideoNote | telegram.Voice)
 Either the file identifier or an object that has a file_id attribute to get file information
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns telegram. File

Raises telegram.error.TelegramError -

get_game_high_scores (user_id, chat_id=None, message_id=None, inline_message_id=None, timeout=None, api_kwargs=None)
in-

Use this method to get data for high score tables. Will return the score of the specified user and several of their neighbors in a game.

Note: This method will currently return scores for the target user, plus two of their closest neighbors on each side. Will also return the top three users if the user and his neighbors are not among them. Please note that this behavior is subject to change.

Parameters

- user_id (int) Target user id.
- **chat_id** (int | str, optional) Required if inline_message_id is not specified. Unique identifier for the target chat.
- message_id (int, optional) Required if inline_message_id is not specified. Identifier of the sent message.
- inline_message_id (str, optional) Required if chat_id and message_id are not specified. Identifier of the inline message.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns List[telegram.GameHighScore]

Raises telegram.error.TelegramError-

get_me (timeout=None, api_kwargs=None)

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

- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns A telegram. User instance representing that bot if the credentials are valid, None otherwise.

Return type telegram. User

Raises telegram.error.TelegramError-

get_my_commands (timeout=None, api_kwargs=None, scope=None, language_code=None)

Use this method to get the current list of the bot's commands for the given scope and user language.

Parameters

- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.
- scope (telegram.BotCommandScope, optional) A JSON-serialized object, describing scope of users. Defaults to telegram.BotCommandScopeDefault.

 New in version 13.7.
- language_code (str, optional) A two-letter ISO 639-1 language code or an empty string.

New in version 13.7.

Returns On success, the commands set for the bot. An empty list is returned if commands are not set.

Return type List[telegram.BotCommand]

Raises telegram.error.TelegramError-

```
\begin{tabular}{ll} \tt get\_my\_default\_administrator\_rights (for\_channels=None, \\ api\_kwargs=None) \end{tabular} timeout=None, \\ api\_kwargs=None) \end{tabular}
```

Use this method to get the current default administrator rights of the bot.

See also:

```
set_my_default_administrator_rights()
```

New in version 13.12.

Parameters

- **for_channels** (bool, optional) Pass True to get default administrator rights of the bot in channels. Otherwise, default administrator rights of the bot for groups and supergroups will be returned.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success.

```
Return type telegram. ChatAdministratorRights
```

Raises telegram.error.TelegramError-

get_sticker_set (name, timeout=None, api_kwargs=None)
Use this method to get a sticker set.

Parameters

- name (str) Name of the sticker set.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns telegram. StickerSet

Raises telegram.error.TelegramError-

Use this method to receive incoming updates using long polling.

Parameters

- offset (int, optional) Identifier of the first update to be returned. Must be greater by one than the highest among the identifiers of previously received updates. By default, updates starting with the earliest unconfirmed update are returned. An update is considered confirmed as soon as getUpdates is called with an offset higher than its telegram. Update.update_id. The negative offset can be specified to retrieve updates starting from -offset update from the end of the updates queue. All previous updates will forgotten.
- limit (int, optional) Limits the number of updates to be retrieved. Values between 1-100 are accepted. Defaults to 100.
- **timeout** (int, 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.
- read_latency (float | int, optional) Grace time in seconds for receiving the reply from server. Will be added to the timeout value and used as the read timeout from server. Defaults to 2.
- allowed_updates (List[str]), optional) A JSON-serialized list the types of updates you want your bot to receive. For example, specify ["message", "edited_channel_post", "callback_query"] to only receive updates of these types. See telegram.Update for a complete list of available update types. Specify an empty list to receive all updates except telegram.Update.chat_member (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.
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Note:

- 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.
- 3. To take full advantage of this library take a look at telegram.ext.Updater

Returns List[telegram.Update]

Raises telegram.error.TelegramError-

 $\begin{tabular}{ll} \tt get_user_profile_photos(user_id, & offset=None, \\ & api_kwargs=None) & limit=100, & timeout=None, \\ & api_kwargs=None) & limit=100, & timeout=None, \\ & api_kwargs=None) & limit=100, & limit$

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

Parameters

- user_id (int) Unique identifier of the target user.
- **offset** (int, optional) Sequential number of the first photo to be returned. By default, all photos are returned.
- limit (int, optional) Limits the number of photos to be retrieved. Values between 1-100 are accepted. Defaults to 100.
- timeout (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns telegram. UserProfilePhotos

Raises telegram.error.TelegramError -

```
get_webhook_info(timeout=None, api_kwargs=None)
```

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

If the bot is using <code>get_updates()</code>, will return an object with the <code>telegram.WebhookInfo.url</code> field empty.

Parameters

- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns telegram. Webhook Info

property id

Unique identifier for this bot.

Type int

kickChatMember (chat_id, user_id, timeout=None, until_date=None, api_kwargs=None, revoke_messages=None)

Alias for kick_chat_member()

Deprecated, use ban_chat_member() instead.

Deprecated since version 13.7.

property last_name

Optional. Bot's last name.

Type str

leaveChat (chat_id, timeout=None, api_kwargs=None)

Alias for leave_chat()

leave_chat (chat_id, timeout=None, api_kwargs=None)

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

- **chat_id**(int|str) Unique identifier for the target chat or username of the target supergroup or channel (in the format @channelusername).
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Return type bool

Raises telegram.error.TelegramError-

property link

Convenience property. Returns the t.me link of the bot.

Type str

logOut (timeout=None)

Alias for log_out()

log_out (timeout=None)

Use this method to log out from the cloud Bot API server before launching the bot locally. You *must* log out the bot before running it locally, otherwise there is no guarantee that the bot will receive updates. After a successful call, you can immediately log in on a local server, but will not be able to log in back to the cloud Bot API server for 10 minutes.

Parameters timeout (int | float, optional) – If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).

Returns On success

Return type True

Raises telegram.error.TelegramError-

property name

Bot's @username.

Type str

Use this method to add a message to the list of pinned messages in a chat. If the chat is not a private chat, the bot must be an administrator in the chat for this to work and must have the <code>telegram.ChatMember.can_pin_messages</code> admin right in a supergroup or <code>telegram.ChatMember.can_edit_messages</code> admin right in a channel.

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- message id (int) Identifier of a message to pin.
- disable_notification (bool, optional) Pass True, if it is not necessary to send a notification to all chat members about the new pinned message. Notifications are always disabled in channels and private chats.

- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Return type bool

Raises telegram.error.TelegramError-

Use this method to promote or demote a user in a supergroup or a channel. The bot must be an administrator in the chat for this to work and must have the appropriate admin rights. Pass False for all boolean parameters to demote a user.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- user_id (int) Unique identifier of the target user.
- **is_anonymous** (bool, optional) Pass True, if the administrator's presence in the chat is hidden.
- can_manage_chat (bool, optional) Pass True, if the administrator can access the chat event log, chat statistics, message statistics in channels, see channel members, see anonymous administrators in supergroups and ignore slow mode. Implied by any other administrator privilege.

New in version 13.4.

can_manage_voice_chats (bool, optional) - Pass True, if the administrator
can manage voice chats.

New in version 13.4.

Deprecated since version 13.12: Since Bot API 6.0, voice chat was renamed to video chat

• can_manage_video_chats (bool, optional) - Pass True, if the administrator can manage video chats.

New in version 13.12.

- can_change_info (bool, optional) Pass True, if the administrator can change chat title, photo and other settings.
- can_post_messages (bool, optional) Pass True, if the administrator can create channel posts, channels only.

- can_edit_messages (bool, optional) Pass True, if the administrator can edit messages of other users and can pin messages, channels only.
- can_delete_messages (bool, optional) Pass True, if the administrator can delete messages of other users.
- can_invite_users (bool, optional) Pass True, if the administrator can invite new users to the chat.
- can_restrict_members (bool, optional) Pass True, if the administrator can restrict, ban or unban chat members.
- can_pin_messages (bool, optional) Pass True, if the administrator can pin messages, supergroups only.
- can_promote_members (bool, optional) Pass True, if the administrator can add new administrators with a subset of his own privileges or demote administrators that he has promoted, directly or indirectly (promoted by administrators that were appointed by him).
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Return type bool

Raises telegram.error.TelegramError-

Use this method to restrict a user in a supergroup. The bot must be an administrator in the supergroup for this to work and must have the appropriate admin rights. Pass True for all boolean parameters to lift restrictions from a user.

Note: Since Bot API 4.4, restrict_chat_member() takes the new user permissions in a single argument of type telegram. ChatPermissions. The old way of passing parameters will not keep working forever.

- **chat_id**(int|str) Unique identifier for the target chat or username of the target supergroup (in the format @supergroupusername).
- user_id (int) Unique identifier of the target user.
- until_date (int | datetime.datetime, optional) Date when restrictions will be lifted for the user, unix time. If user is restricted for more than 366 days or less than 30 seconds from the current time, they are considered to be restricted forever. For timezone naive datetime.datetime objects, the default timezone of the bot will be used.
- **permissions** (telegram.ChatPermissions) A JSON-serialized object for new user permissions.

- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Return type bool

Raises telegram.error.TelegramError-

revokeChatInviteLink (chat_id, invite_link, timeout=None, api_kwargs=None)
Alias for revoke_chat_invite_link()

revoke_chat_invite_link (chat_id, invite_link, timeout=None, api_kwargs=None)

Use this method to revoke an invite link created by the bot. If the primary link is revoked, a new link is automatically generated. The bot must be an administrator in the chat for this to work and must have the appropriate admin rights.

New in version 13.4.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- invite_link (str) The invite link to edit.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

 $\textbf{Returns} \ \textit{telegram.ChatInviteLink}$

Raises telegram.error.TelegramError-

sendAnimation (chat_id, animation, duration=None, width=None, height=None, thumb=None, caption=None, parse_mode=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=20, api_kwargs=None, allow_sending_without_reply=None, caption_entities=None, filename=None, protect_content=None)

Alias for send_animation()

Alias for send_audio()

sendChatAction (chat_id, action, timeout=None, api_kwargs=None)

Alias for send_chat_action()

Alias for send_contact()

Alias for send_dice()

Alias for send_document ()

- sendInvoice (chat_id, title, description, payload, provider_token, currency, prices, start_parameter=None, photo_url=None, photo_size=None, photo_width=None, photo height=None, need name=None, need phone number=None, need email=None, need_shipping_address=None, is_flexible=None, able_notification=None, reply_to_message_id=None, reply_markup=None, provider_data=None, *send_phone_number_to_provider=None*, send_email_to_provider=None, timeout=None, api_kwargs=None, allow_sending_without_reply=None, max_tip_amount=None, suggested_tip_amounts=None, protect_content=None)

Alias for send_invoice()

Alias for send_location()

Alias for send_media_group()

sendMessage (chat_id, text, parse_mode=None, disable_web_page_preview=None, disable_notification=None, reply_to_message_id=None, reply_markup=None,
timeout=None, api_kwargs=None, allow_sending_without_reply=None, entities=None, protect_content=None)

Alias for send_message ()

sendPhoto (chat_id, photo, caption=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=20, parse_mode=None,
api_kwargs=None, allow_sending_without_reply=None, caption_entities=None,
filename=None, protect_content=None)

Alias for send_photo()

sendPoll (chat_id, question, options, is_anonymous=True, type='regular', allows_multiple_answers=False, correct_option_id=None, is_closed=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=None, explanation=None, explanation_parse_mode=None, open_period=None,
close_date=None, api_kwargs=None, allow_sending_without_reply=None, explanation_entities=None, protect_content=None)

Alias for send_poll()

Alias for send_sticker()

latitude=None, sendVenue (chat id, longitude=None, title=None, address=None, foursquare_id=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=None, venue=None, foursquare_type=None, api_kwargs=None, google_place_id=None, google_place_type=None, low_sending_without_reply=None, protect_content=None)

Alias for send_venue()

sendVideo (chat_id, video, duration=None, caption=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=20, width=None,
height=None, parse_mode=None, supports_streaming=None, thumb=None,
api_kwargs=None, allow_sending_without_reply=None, caption_entities=None,
filename=None, protect_content=None)

Alias for send_video()

Alias for send_video_note()

Alias for send_voice()

send_animation (chat_id, animation, duration=None, width=None, height=None, thumb=None, caption=None, parse_mode=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=20, api_kwargs=None, allow_sending_without_reply=None, caption_entities=None, filename=None, protect_content=None)

Use this method to send animation files (GIF or H.264/MPEG-4 AVC video without sound). Bots can currently send animation files of up to 50 MB in size, this limit may be changed in the future.

Note: thumb will be ignored for small files, for which Telegram can easily generate thumb nails. However, this behaviour is undocumented and might be changed by Telegram.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- animation (str | filelike object | bytes | pathlib.Path | telegram. 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 new animation using multipart/form-data. Lastly you can pass an existing telegram. Animation object to send.

Changed in version 13.2: Accept bytes as input.

• **filename** (str, optional) – Custom file name for the animation, when uploading a new file. Convenience parameter, useful e.g. when sending files generated by the tempfile module.

New in version 13.1.

- duration (int, optional) Duration of sent animation in seconds.
- width (int, optional) Animation width.
- height (int, optional) Animation height.

• thumb (filelike object | bytes | pathlib.Path, optional) – Thumbnail of the file sent; can be ignored if thumbnail generation for the file is supported server-side. The thumbnail should be in JPEG format and less than 200 kB in size. A thumbnail's width and height should not exceed 320. Ignored if the file is not uploaded using multipart/form-data. Thumbnails can't be reused and can be only uploaded as a new file.

Changed in version 13.2: Accept bytes as input.

- **caption** (str, optional) Animation caption (may also be used when resending animations by file_id), 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram.ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in message text, which can be specified instead of parse_mode.
- disable_notification (bool, optional) Sends the message silently. Users will receive a notification with no sound.
- **protect_content** (bool, optional) Protects the contents of the sent message from forwarding and saving.

New in version 13.10.

- reply_to_message_id (int, optional) If the message is a reply, ID of the original message.
- allow_sending_without_reply (bool, optional) Pass True, if the message should be sent even if the specified replied-to message is not found.
- **reply_markup** (*telegram.ReplyMarkup*, optional) Additional interface options. A JSON-serialized object for an inline keyboard, custom reply keyboard, instructions to remove reply keyboard or to force a reply from the user.
- timeout (int | float, optional) Send file timeout (default: 20 seconds).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, the sent Message is returned.

Return type telegram. Message

Raises telegram.error.TelegramError-

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 or .m4a format.

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 send_voice() method instead.

Note: The audio argument can be either a file_id, an URL or a file from disk open (filename, 'rb')

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- audio (str | filelike object | bytes | pathlib.Path | telegram.Audio) Audio file to send. Pass a file_id as String to send an audio file that exists on the Telegram servers (recommended), pass an HTTP URL as a String for Telegram to get an audio file from the Internet, or upload a new one using multipart/form-data. Lastly you can pass an existing telegram.Audio object to send.

Changed in version 13.2: Accept bytes as input.

• **filename** (str, optional) — Custom file name for the audio, when uploading a new file. Convenience parameter, useful e.g. when sending files generated by the tempfile module.

New in version 13.1.

- caption (str, optional) Audio caption, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram.ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in message text, which can be specified instead of parse_mode.
- duration (int, optional) Duration of sent audio in seconds.
- performer (str, optional) Performer.
- title (str, optional) Track name.
- **disable_notification** (bool, optional) Sends the message silently. Users will receive a notification with no sound.
- **protect_content** (bool, optional) Protects the contents of the sent message from forwarding and saving.

New in version 13.10.

- reply_to_message_id (int, optional) If the message is a reply, ID of the original message.
- allow_sending_without_reply (bool, optional) Pass True, if the message should be sent even if the specified replied-to message is not found.
- reply_markup(telegram.ReplyMarkup, optional) Additional interface options. A JSON-serialized object for an inline keyboard, custom reply keyboard, instructions to remove reply keyboard or to force a reply from the user.
- thumb (filelike object | bytes | pathlib.Path, optional) Thumbnail of the file sent; can be ignored if thumbnail generation for the file is supported server-side. The thumbnail should be in JPEG format and less than 200 kB in size. A thumbnail's width and height should not exceed 320. Ignored if the file is not uploaded using multipart/form-data. Thumbnails can't be reused and can be only uploaded as a new file.

Changed in version 13.2: Accept bytes as input.

- timeout (int | float, optional) Send file timeout (default: 20 seconds).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, the sent Message is returned.

Return type telegram. Message

Raises telegram.error.TelegramError-

send_chat_action (chat_id, action, timeout=None, api_kwargs=None)

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). Telegram only recommends using this method when a response from the bot will take a noticeable amount of time to arrive.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- action (telegram. ChatAction | str) Type of action to broadcast. Choose one, depending on what the user is about to receive. For convenience look at the constants in telegram. ChatAction
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError -

Note: You can either supply contact or phone_number and first_name with optionally last_name and optionally vcard.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **phone_number** (str, optional) Contact's phone number.
- first_name (str, optional) Contact's first name.
- last_name (str, optional) Contact's last name.
- **vcard** (str, optional) Additional data about the contact in the form of a vCard, 0-2048 bytes.
- contact (telegram.Contact, optional) The contact to send.
- disable_notification (bool, optional) Sends the message silently. Users will receive a notification with no sound.
- **protect_content** (bool, optional) Protects the contents of the sent message from forwarding and saving.

New in version 13.10.

- reply_to_message_id (int, optional) If the message is a reply, ID of the original message.
- allow_sending_without_reply (bool, optional) Pass True, if the message should be sent even if the specified replied-to message is not found.

- reply_markup(telegram.ReplyMarkup, optional) Additional interface options. A JSON-serialized object for an inline keyboard, custom reply keyboard, instructions to remove reply keyboard or to force a reply from the user.
- timeout (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, the sent Message is returned.

Return type telegram. Message

Raises telegram.error.TelegramError-

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- emoji (str, optional) Emoji on which the dice throw animation is based. Currently, must be one of "", "", "", "", or "". Dice can have values 1-6 for "", "" and "", values 1-5 for "" and "", and values 1-64 for "". Defaults to "".

Changed in version 13.4: Added the "" emoji.

- disable_notification (bool, optional) Sends the message silently. Users will receive a notification with no sound.
- **protect_content** (bool, optional) Protects the contents of the sent message from forwarding and saving.

New in version 13.10.

- reply_to_message_id (int, optional) If the message is a reply, ID of the original message.
- allow_sending_without_reply (bool, optional) Pass True, if the message should be sent even if the specified replied-to message is not found.
- reply_markup (telegram. ReplyMarkup, optional) Additional interface options. A JSON-serialized object for an inline keyboard, custom reply keyboard, instructions to remove reply keyboard or to force a reply from the user.
- timeout (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, the sent Message is returned.

Return type telegram. Message

Raises telegram.error.TelegramError-

Use this method to send general files.

Bots can currently send files of any type of up to 50 MB in size, this limit may be changed in the future.

Note: The document argument can be either a file_id, an URL or a file from disk open (filename, 'rb')

Parameters

- **chat_id** (int | str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- document (str | filelike object | bytes | pathlib.Path | telegram. 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 new one using multipart/form-data. Lastly you can pass an existing telegram.Document object to send.

Changed in version 13.2: Accept bytes as input.

- **filename** (str, optional) Custom file name for the document, when uploading a new file. Convenience parameter, useful e.g. when sending files generated by the tempfile module.
- **caption** (str, optional) Document caption (may also be used when resending documents by file_id), 0-1024 characters after entities parsing.
- **disable_content_type_detection** (bool, optional) Disables automatic server-side content type detection for files uploaded using multipart/form-data.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram.ParseMode for the available modes.
- **caption_entities** (List[telegram.MessageEntity], optional) List of special entities that appear in message text, which can be specified instead of parse_mode.
- **disable_notification** (bool, optional) Sends the message silently. Users will receive a notification with no sound.
- **protect_content** (bool, optional) Protects the contents of the sent message from forwarding and saving.

New in version 13.10.

- reply_to_message_id (int, optional) If the message is a reply, ID of the original message.
- allow_sending_without_reply (bool, optional) Pass True, if the message should be sent even if the specified replied-to message is not found.
- reply_markup (telegram. ReplyMarkup, optional) Additional interface options. A JSON-serialized object for an inline keyboard, custom reply keyboard, instructions to remove reply keyboard or to force a reply from the user.
- thumb (filelike object | bytes | pathlib.Path, optional) Thumbnail of the file sent; can be ignored if thumbnail generation for the file is supported server-side. The thumbnail should be in JPEG format and less than 200 kB in size. A thumbnail's width and height should not exceed 320. Ignored if the file is not uploaded using multipart/form-data. Thumbnails can't be reused and can be only uploaded as a new file.

Changed in version 13.2: Accept bytes as input.

- timeout (int | float, optional) Send file timeout (default: 20 seconds).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, the sent Message is returned.

Return type telegram. Message

Raises telegram.error.TelegramError -

Parameters

- chat_id (int | str) Unique identifier for the target chat.
- game_short_name (str) Short name of the game, serves as the unique identifier for the game. Set up your games via @BotFather.
- disable_notification (bool, optional) Sends the message silently. Users will receive a notification with no sound.
- **protect_content** (bool, optional) Protects the contents of the sent message from forwarding and saving.

New in version 13.10.

- reply_to_message_id (int, optional) If the message is a reply, ID of the original message.
- allow_sending_without_reply (bool, optional) Pass True, if the message should be sent even if the specified replied-to message is not found.
- reply_markup (telegram.InlineKeyboardMarkup, optional) A JSON-serialized object for a new inline keyboard. If empty, one 'Play game_title' button will be shown. If not empty, the first button must launch the game.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, the sent Message is returned.

Return type telegram.Message

Raises telegram.error.TelegramError -

send_invoice (chat_id, title, description, payload, provider_token, currency, prices, start_parameter=None, photo_url=None, photo_size=None, photo_width=None, photo_height=None, need_name=None, need_phone_number=None, need_email=None, need_shipping_address=None, is_flexible=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, provider_data=None, send_phone_number_to_provider=None, send_email_to_provider=None, timeout=None, api_kwargs=None, allow_sending_without_reply=None, max_tip_amount=None, suggested_tip_amounts=None, protect_content=None)

Use this method to send invoices.

Warning: As of API 5.2 start_parameter is an optional argument and therefore the order of the arguments had to be changed. Use keyword arguments to make sure that the arguments are passed correctly.

Changed in version 13.5: As of Bot API 5.2, the parameter start_parameter is optional.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- title (str) Product name, 1-32 characters.
- **description** (str) Product description, 1-255 characters.
- payload (str) Bot-defined invoice payload, 1-128 bytes. This will not be displayed to the user, use for your internal processes.
- provider_token (str) Payments provider token, obtained via @BotFather.
- **currency** (str) Three-letter ISO 4217 currency code.
- **prices** (List[telegram.LabeledPrice) Price breakdown, a JSON-serialized list of components (e.g. product price, tax, discount, delivery cost, delivery tax, bonus, etc.).
- max_tip_amount (int, optional) The maximum accepted amount for tips in the smallest units of the currency (integer, not float/double). For example, for a maximum tip of US\$ 1.45 pass max_tip_amount = 145. See the exp parameter in currencies.json, it shows the number of digits past the decimal point for each currency (2 for the majority of currencies). Defaults to 0.

New in version 13.5.

• suggested_tip_amounts (List[int], optional) — A JSON-serialized array of suggested amounts of tips in the smallest units of the currency (integer, not float/double). At most 4 suggested tip amounts can be specified. The suggested tip amounts must be positive, passed in a strictly increased order and must not exceed max_tip_amount.

New in version 13.5.

• **start_parameter** (str, optional) – Unique deep-linking parameter. If left empty, *forwarded copies* of the sent message will have a *Pay* button, allowing multiple users to pay directly from the forwarded message, using the same invoice. If non-empty, forwarded copies of the sent message will have a *URL* button with a deep link to the bot (instead of a *Pay* button), with the value used as the start parameter.

Changed in version 13.5: As of Bot API 5.2, this parameter is optional.

- **provider_data** (str | object, optional) JSON-serialized data about the invoice, which will be shared with the payment provider. A detailed description of required fields should be provided by the payment provider. When an object is passed, it will be encoded as JSON.
- **photo_url** (str, optional) URL of the product photo for the invoice. Can be a photo of the goods or a marketing image for a service. People like it better when they see what they are paying for.
- photo_size (str, optional) Photo size.
- photo_width (int, optional) Photo width.
- photo_height (int, optional) Photo height.
- need_name (bool, optional) Pass True, if you require the user's full name to complete the order.

- **need_phone_number** (bool, optional) Pass True, if you require the user's phone number to complete the order.
- need_email (bool, optional) Pass True, if you require the user's email to complete the order.
- need_shipping_address (bool, optional) Pass True, if you require the user's shipping address to complete the order.
- **send_phone_number_to_provider** (bool, optional) Pass True, if user's phone number should be sent to provider.
- **send_email_to_provider** (bool, optional) Pass True, if user's email address should be sent to provider.
- **is_flexible** (bool, optional) Pass True, if the final price depends on the shipping method.
- disable_notification (bool, optional) Sends the message silently. Users will receive a notification with no sound.
- **protect_content** (bool, optional) Protects the contents of the sent message from forwarding and saving.

New in version 13.10.

- reply_to_message_id (int, optional) If the message is a reply, ID of the original message.
- allow_sending_without_reply (bool, optional) Pass True, if the message should be sent even if the specified replied-to message is not found.
- reply_markup (telegram.InlineKeyboardMarkup, optional) A JSON-serialized object for an inline keyboard. If empty, one 'Pay total price' button will be shown. If not empty, the first button must be a Pay button.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, the sent Message is returned.

Return type telegram. Message

Raises telegram.error.TelegramError -

Note: You can either supply a latitude and longitude or a location.

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- latitude (float, optional) Latitude of location.
- longitude (float, optional) Longitude of location.

- **location** (*telegram.Location*, optional) The location to send.
- horizontal_accuracy (int, optional) The radius of uncertainty for the location, measured in meters; 0-1500.
- **live_period** (int, optional) Period in seconds for which the location will be updated, should be between 60 and 86400.
- heading (int, optional) For live locations, a direction in which the user is moving, in degrees. Must be between 1 and 360 if specified.
- **proximity_alert_radius** (int, optional) For live locations, a maximum distance for proximity alerts about approaching another chat member, in meters. Must be between 1 and 100000 if specified.
- **disable_notification** (bool, optional) Sends the message silently. Users will receive a notification with no sound.
- **protect_content** (bool, optional) Protects the contents of the sent message from forwarding and saving.

New in version 13.10.

- reply_to_message_id (int, optional) If the message is a reply, ID of the original message.
- allow_sending_without_reply (bool, optional) Pass True, if the message should be sent even if the specified replied-to message is not found.
- reply_markup (telegram. ReplyMarkup, optional) Additional interface options. A JSON-serialized object for an inline keyboard, custom reply keyboard, instructions to remove reply keyboard or to force a reply from the user.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, the sent Message is returned.

Return type telegram. Message

Raises telegram.error.TelegramError -

Use this method to send a group of photos or videos as an album.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- media (List[telegram.InputMediaAudio, telegram. InputMediaDocument, telegram.InputMediaPhoto, telegram. InputMediaVideo]) An array describing messages to be sent, must include 2-10 items.
- disable_notification (bool, optional) Sends the message silently. Users will receive a notification with no sound.
- **protect_content** (bool, optional) Protects the contents of the sent message from forwarding and saving.

New in version 13.10.

- reply_to_message_id (int, optional) If the message is a reply, ID of the original message.
- allow_sending_without_reply (bool, optional) Pass True, if the message should be sent even if the specified replied-to message is not found.
- timeout (int | float, optional) Send file timeout (default: 20 seconds).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns An array of the sent Messages.

Return type List[telegram.Message]

Raises telegram.error.TelegramError-

send_message (chat_id, text, parse_mode=None, disable_web_page_preview=None, disable_notification=None, reply_to_message_id=None, reply_markup=None,
timeout=None, api_kwargs=None, allow_sending_without_reply=None, entities=None, protect_content=None)

Use this method to send text messages.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- text (str) Text of the message to be sent. Max 4096 characters after entities parsing. Also found as telegram.constants.MAX_MESSAGE_LENGTH.
- parse_mode (str) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in your bot's message. See the constants in telegram. ParseMode for the available modes.
- **entities** (List[telegram.MessageEntity], optional) List of special entities that appear in message text, which can be specified instead of parse_mode.
- disable_web_page_preview (bool, optional) Disables link previews for links in this message.
- disable_notification (bool, optional) Sends the message silently. Users will receive a notification with no sound.
- **protect_content** (bool, optional) Protects the contents of sent messages from forwarding and saving.

New in version 13.10.

- reply_to_message_id (int, optional) If the message is a reply, ID of the original message.
- allow_sending_without_reply (bool, optional) Pass True, if the message should be sent even if the specified replied-to message is not found.
- reply_markup (telegram.ReplyMarkup, optional) Additional interface options. A JSON-serialized object for an inline keyboard, custom reply keyboard, instructions to remove reply keyboard or to force a reply from the user.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, the sent message is returned.

Return type telegram. Message

Raises telegram.error.TelegramError-

Note: The photo argument can be either a file_id, an URL or a file from disk open (filename, 'rb')

Parameters

- **chat_id** (int | str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- photo (str | filelike object | bytes | pathlib.Path | telegram. PhotoSize) 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 new photo using multipart/form-data. Lastly you can pass an existing telegram. PhotoSize object to send.

Changed in version 13.2: Accept bytes as input.

• **filename** (str, optional) – Custom file name for the photo, when uploading a new file. Convenience parameter, useful e.g. when sending files generated by the tempfile module.

New in version 13.1.

- **caption** (str, optional) Photo caption (may also be used when resending photos by file_id), 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram.ParseMode for the available modes.
- **caption_entities** (List[telegram.MessageEntity], optional) List of special entities that appear in message text, which can be specified instead of parse_mode.
- disable_notification (bool, optional) Sends the message silently. Users will receive a notification with no sound.
- **protect_content** (bool, optional) Protects the contents of the sent message from forwarding and saving.

New in version 13.10.

- reply_to_message_id (int, optional) If the message is a reply, ID of the original message.
- allow_sending_without_reply (bool, optional) Pass True, if the message should be sent even if the specified replied-to message is not found.
- **reply_markup** (*telegram.ReplyMarkup*, optional) Additional interface options. A JSON-serialized object for an inline keyboard, custom reply keyboard, instructions to remove reply keyboard or to force a reply from the user.
- timeout (int | float, optional) Send file timeout (default: 20 seconds).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, the sent Message is returned.

Return type telegram. Message

Raises telegram.error.TelegramError-

send_pol1 (chat_id, question, options, is_anonymous=True, type='regular', allows_multiple_answers=False, correct_option_id=None, is_closed=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=None, explanation=None, explanation_parse_mode=None, open_period=None,
close_date=None, api_kwargs=None, allow_sending_without_reply=None, explanation_entities=None, protect_content=None)

Use this method to send a native poll.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- question (str) Poll question, 1-300 characters.
- **options** (List[str]) List of answer options, 2-10 strings 1-100 characters each.
- is_anonymous (bool, optional) True, if the poll needs to be anonymous, defaults to True.
- type (str, optional) Poll type, telegram. Poll. QUIZ or telegram. Poll. REGULAR, defaults to telegram. Poll. REGULAR.
- allows_multiple_answers (bool, optional) True, if the poll allows multiple answers, ignored for polls in quiz mode, defaults to False.
- **correct_option_id** (int, optional) 0-based identifier of the correct answer option, required for polls in quiz mode.
- **explanation** (str, optional) Text that is shown when a user chooses an incorrect answer or taps on the lamp icon in a quiz-style poll, 0-200 characters with at most 2 line feeds after entities parsing.
- **explanation_parse_mode** (str, optional) Mode for parsing entities in the explanation. See the constants in *telegram.ParseMode* for the available modes.
- **explanation_entities** (List[telegram.MessageEntity], optional) List of special entities that appear in message text, which can be specified instead of parse_mode.
- **open_period** (int, optional) Amount of time in seconds the poll will be active after creation, 5-600. Can't be used together with close_date.
- close_date (int | datetime.datetime, optional) Point in time (Unix timestamp) when the poll will be automatically closed. Must be at least 5 and no more than 600 seconds in the future. Can't be used together with open_period. For timezone naive datetime.datetime objects, the default timezone of the bot will be used.
- **is_closed** (bool, optional) Pass True, if the poll needs to be immediately closed. This can be useful for poll preview.
- **disable_notification** (bool, optional) Sends the message silently. Users will receive a notification with no sound.
- **protect_content** (bool, optional) Protects the contents of the sent message from forwarding and saving.

New in version 13.10.

• reply_to_message_id (int, optional) - If the message is a reply, ID of the original message.

- allow_sending_without_reply (bool, optional) Pass True, if the message should be sent even if the specified replied-to message is not found.
- reply_markup (telegram.ReplyMarkup, optional) Additional interface options. A JSON-serialized object for an inline keyboard, custom reply keyboard, instructions to remove reply keyboard or to force a reply from the user.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, the sent Message is returned.

Return type telegram. Message

Raises telegram.error.TelegramError-

Note: The sticker argument can be either a file_id, an URL or a file from disk open (filename, 'rb')

Parameters

- **chat_id** (int | str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **sticker** (str | *filelike object* | bytes | pathlib.Path | *telegram.* 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 new one using multipart/form-data. Lastly you can pass an existing telegram.Sticker object to send.

Changed in version 13.2: Accept bytes as input.

- **disable_notification** (bool, optional) Sends the message silently. Users will receive a notification with no sound.
- **protect_content** (bool, optional) Protects the contents of the sent message from forwarding and saving.

New in version 13.10.

- reply_to_message_id (int, optional) If the message is a reply, ID of the original message.
- allow_sending_without_reply (bool, optional) Pass True, if the message should be sent even if the specified replied-to message is not found.
- **reply_markup** (*telegram.ReplyMarkup*, optional) Additional interface options. A JSON-serialized object for an inline keyboard, custom reply keyboard, instructions to remove reply keyboard or to force a reply from the user.
- timeout (int | float, optional) Send file timeout (default: 20 seconds).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, the sent Message is returned.

Return type telegram. Message

Raises telegram.error.TelegramError-

Note:

- You can either supply venue, or latitude, longitude, title and address and optionally foursquare_id and foursquare_type or optionally google_place_id and google_place_type.
- Foursquare details and Google Pace details are mutually exclusive. However, this behaviour is undocumented and might be changed by Telegram.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- latitude (float, optional) Latitude of venue.
- longitude (float, optional) Longitude of venue.
- title (str, optional) Name of the venue.
- address (str, optional) Address of the venue.
- **foursquare_id** (str, optional) Foursquare identifier of the venue.
- **foursquare_type** (str, optional) Foursquare type of the venue, if known. (For example, "arts_entertainment/default", "arts_entertainment/aquarium" or "food/icecream".)
- google_place_id (str, optional) Google Places identifier of the venue.
- **google_place_type** (str, optional) Google Places type of the venue. (See supported types.)
- **venue** (*telegram*. *Venue*, **optional**) The venue to send.
- disable_notification (bool, optional) Sends the message silently. Users will receive a notification with no sound.
- **protect_content** (bool, optional) Protects the contents of the sent message from forwarding and saving.

New in version 13.10.

- reply_to_message_id (int, optional) If the message is a reply, ID of the original message.
- allow_sending_without_reply (bool, optional) Pass True, if the message should be sent even if the specified replied-to message is not found.
- reply_markup(telegram.ReplyMarkup, optional) Additional interface options. A JSON-serialized object for an inline keyboard, custom reply keyboard, instructions to remove reply keyboard or to force a reply from the user.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).

• api_kwargs (dict, optional) - Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, the sent Message is returned.

Return type telegram. Message

Raises telegram.error.TelegramError-

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

Bots can currently send video files of up to 50 MB in size, this limit may be changed in the future.

Note:

- The video argument can be either a file_id, an URL or a file from disk open(filename, 'rb')
- thumb will be ignored for small video files, for which Telegram can easily generate thumb nails. However, this behaviour is undocumented and might be changed by Telegram.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- video (str | filelike object | bytes | pathlib.Path | telegram.Video) Video file to send. Pass a file_id as String to send an video file that exists on the Telegram servers (recommended), pass an HTTP URL as a String for Telegram to get an video file from the Internet, or upload a new one using multipart/form-data. Lastly you can pass an existing telegram.Video object to send.

Changed in version 13.2: Accept bytes as input.

• **filename** (str, optional) — Custom file name for the video, when uploading a new file. Convenience parameter, useful e.g. when sending files generated by the tempfile module.

New in version 13.1.

- duration (int, optional) Duration of sent video in seconds.
- width (int, optional) Video width.
- height (int, optional) Video height.
- **caption** (str, optional) Video caption (may also be used when resending videos by file_id), 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram.ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in message text, which can be specified instead of parse_mode.
- **supports_streaming** (bool, optional) Pass True, if the uploaded video is suitable for streaming.

- **disable_notification** (bool, optional) Sends the message silently. Users will receive a notification with no sound.
- **protect_content** (bool, optional) Protects the contents of the sent message from forwarding and saving.

New in version 13.10.

- reply_to_message_id (int, optional) If the message is a reply, ID of the original message.
- allow_sending_without_reply (bool, optional) Pass True, if the message should be sent even if the specified replied-to message is not found.
- reply_markup(telegram.ReplyMarkup, optional) Additional interface options. A JSON-serialized object for an inline keyboard, custom reply keyboard, instructions to remove reply keyboard or to force a reply from the user.
- thumb (filelike object | bytes | pathlib.Path, optional) Thumbnail of the file sent; can be ignored if thumbnail generation for the file is supported server-side. The thumbnail should be in JPEG format and less than 200 kB in size. A thumbnail's width and height should not exceed 320. Ignored if the file is not uploaded using multipart/form-data. Thumbnails can't be reused and can be only uploaded as a new file.

Changed in version 13.2: Accept bytes as input.

- timeout (int | float, optional) Send file timeout (default: 20 seconds).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, the sent Message is returned.

Return type telegram. Message

Raises telegram.error.TelegramError -

```
send_video_note (chat_id, video_note, duration=None, length=None, dis-
able_notification=None, reply_to_message_id=None, re-
ply_markup=None, timeout=20, thumb=None, api_kwargs=None, al-
low_sending_without_reply=None, filename=None, protect_content=None)
As of v.4.0, Telegram clients support rounded square mp4 videos of up to 1 minute long. Use this
method to send video messages.
```

Note:

- The video_note argument can be either a file_id or a file from disk open (filename, 'rb')
- thumb will be ignored for small video files, for which Telegram can easily generate thumb nails. However, this behaviour is undocumented and might be changed by Telegram.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- video_note (str | filelike object | bytes | pathlib.Path | telegram. VideoNote) Video note to send. Pass a file_id as String to send a video note that exists on the Telegram servers (recommended) or upload a new video using multipart/form-data. Or you can pass an existing telegram.VideoNote object to send. Sending video notes by a URL is currently unsupported.

Changed in version 13.2: Accept bytes as input.

• **filename** (str, optional) – Custom file name for the video note, when uploading a new file. Convenience parameter, useful e.g. when sending files generated by the tempfile module.

New in version 13.1.

- duration (int, optional) Duration of sent video in seconds.
- **length** (int, optional) Video width and height, i.e. diameter of the video message.
- disable_notification (bool, optional) Sends the message silently. Users will receive a notification with no sound.
- **protect_content** (bool, optional) Protects the contents of the sent message from forwarding and saving.

New in version 13.10.

- reply_to_message_id (int, optional) If the message is a reply, ID of the original message.
- allow_sending_without_reply (bool, optional) Pass True, if the message should be sent even if the specified replied-to message is not found.
- **reply_markup** (*telegram.ReplyMarkup*, optional) Additional interface options. A JSON-serialized object for an inline keyboard, custom reply keyboard, instructions to remove reply keyboard or to force a reply from the user.
- **thumb** (*filelike object* | bytes | pathlib.Path, optional) Thumbnail of the file sent; can be ignored if thumbnail generation for the file is supported server-side. The thumbnail should be in JPEG format and less than 200 kB in size. A thumbnail's width and height should not exceed 320. Ignored if the file is not uploaded using multipart/form-data. Thumbnails can't be reused and can be only uploaded as a new file.

Changed in version 13.2: Accept bytes as input.

- timeout (int | float, optional) Send file timeout (default: 20 seconds).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, the sent Message is returned.

Return type telegram. Message

Raises telegram.error.TelegramError -

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 as Audio or Document). Bots can currently send voice messages of up to 50 MB in size, this limit may be changed in the future.

Note: The voice argument can be either a file_id, an URL or a file from disk open (filename, 'rb')

Parameters

• **chat_id**(int|str) – Unique identifier for the target chat or username of the target channel (in the format @channelusername).

• **voice** (str | *filelike object* | bytes | pathlib.Path | *telegram.Voice*) – Voice file to send. Pass a file_id as String to send an voice file that exists on the Telegram servers (recommended), pass an HTTP URL as a String for Telegram to get an voice file from the Internet, or upload a new one using multipart/form-data. Lastly you can pass an existing *telegram.Voice* object to send.

Changed in version 13.2: Accept bytes as input.

• **filename** (str, optional) — Custom file name for the voice, when uploading a new file. Convenience parameter, useful e.g. when sending files generated by the tempfile module.

New in version 13.1.

- **caption** (str, optional) Voice message caption, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram.ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in message text, which can be specified instead of parse_mode.
- duration (int, optional) Duration of the voice message in seconds.
- disable_notification (bool, optional) Sends the message silently. Users will receive a notification with no sound.
- **protect_content** (bool, optional) Protects the contents of the sent message from forwarding and saving.

New in version 13.10.

- reply_to_message_id (int, optional) If the message is a reply, ID of the original message.
- allow_sending_without_reply (bool, optional) Pass True, if the message should be sent even if the specified replied-to message is not found.
- reply_markup (telegram. ReplyMarkup, optional) Additional interface options. A JSON-serialized object for an inline keyboard, custom reply keyboard, instructions to remove reply keyboard or to force a reply from the user.
- timeout (int | float, optional) Send file timeout (default: 20 seconds).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, the sent Message is returned.

```
\textbf{Return type} \ \textit{telegram.Message}
```

Alias for set_chat_permissions()

Raises telegram.error.TelegramError-

```
setChatPhoto (chat_id, photo, timeout=20, api_kwargs=None)
    Alias for set_chat_photo()
setChatStickerSet (chat_id, sticker_set_name, timeout=None, api_kwargs=None)
    Alias for set chat sticker set ()
setChatTitle (chat_id, title, timeout=None, api_kwargs=None)
    Alias for set chat title()
setGameScore (user_id, score, chat_id=None, message_id=None, inline_message_id=None,
                force=None, disable_edit_message=None, timeout=None, api_kwargs=None)
    Alias for set_game_score()
                              timeout=None,
                                              api kwargs=None,
setMyCommands (commands,
                                                                  scope=None,
                                                                                 lan-
                 guage_code=None)
    Alias for set_my_commands()
setMyDefaultAdministratorRights (rights=None, for_channels=None, timeout=None,
                                        api_kwargs=None)
    Alias for set_my_default_administrator_rights()
setPassportDataErrors (user_id, errors, timeout=None, api_kwargs=None)
    Alias for set_passport_data_errors()
setStickerPositionInSet (sticker, position, timeout=None, api_kwargs=None)
    Alias for set_sticker_position_in_set()
setStickerSetThumb (name, user_id, thumb=None, timeout=None, api_kwargs=None)
    Alias for set_sticker_set_thumb()
setWebhook (url=None,
                           certificate=None,
                                                timeout=None,
                                                                  max\_connections=40,
             allowed_updates=None,
                                           api_kwargs=None,
                                                                     ip_address=None,
             drop pending updates=None)
    Alias for set_webhook()
set_chat_administrator_custom_title(chat_id, user_id, custom_title, timeout=None,
                                             api kwargs=None)
    Use this method to set a custom title for administrators promoted by the bot in a supergroup. The bot
```

Parameters

must be an administrator for this to work.

- **chat_id**(int|str) Unique identifier for the target chat or username of the target supergroup (in the format @ supergroupusername).
- user_id (int) Unique identifier of the target administrator.
- **custom_title** (str) New custom title for the administrator; 0-16 characters, emoji are not allowed.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError -

 $\verb|set_chat_description| (chat_id, description, timeout=None, api_kwargs=None)|$

Use this method to change the description of a group, a supergroup or a channel. The bot must be an administrator in the chat for this to work and must have the appropriate admin rights.

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **description** (str) New chat description, 0-255 characters.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError-

Use this method to change the bot's menu button in a private chat, or the default menu button.

See also:

```
get_chat_menu_button(), telegram.Chat.set_menu_button(), telegram.
User.set_menu_button()
```

New in version 13.12.

Parameters

- **chat_id** (int, optional) Unique identifier for the target private chat. If not specified, default bot's menu button will be changed
- menu_button (telegram.MenuButton, optional) An object for the new bot's menu button. Defaults to telegram.MenuButtonDefault.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

set_chat_permissions (chat_id, permissions, timeout=None, api_kwargs=None)

Use this method to set default chat permissions for all members. The bot must be an administrator in the group or a supergroup for this to work and must have the <code>telegram.ChatMember.can_restrict_members</code> admin rights.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target supergroup (in the format @ *supergroupusername*).
- permissions (telegram.ChatPermissions) New default chat permissions.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError-

set_chat_photo (chat_id, photo, timeout=20, api_kwargs=None)

Use this method to set a new profile photo for the chat.

Photos can't be changed for private chats. The bot must be an administrator in the chat for this to work and must have the appropriate admin rights.

Parameters

- **chat_id** (int | str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- photo (filelike object | bytes | pathlib.Path) New chat photo.

Changed in version 13.2: Accept bytes as input.

- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError-

set_chat_sticker_set (chat_id, sticker_set_name, timeout=None, api_kwargs=None)

Use this method to set a new group sticker set for a supergroup. The bot must be an administrator in the chat for this to work and must have the appropriate admin rights. Use the field <code>telegram</code>. <code>Chat.can_set_sticker_set</code> optionally returned in <code>get_chat()</code> requests to check if the bot can use this method.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target supergroup (in the format @supergroupusername).
- **sticker_set_name** (str) Name of the sticker set to be set as the group sticker set.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

set_chat_title (chat_id, title, timeout=None, api_kwargs=None)

Use this method to change the title of a chat. Titles can't be changed for private chats. The bot must be an administrator in the chat for this to work and must have the appropriate admin rights.

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- title (str) New chat title, 1-255 characters.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).

• api_kwargs (dict, optional) - Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError-

Parameters

- user_id (int) User identifier.
- score (int) New score, must be non-negative.
- **force** (bool, optional) Pass True, if the high score is allowed to decrease. This can be useful when fixing mistakes or banning cheaters.
- **disable_edit_message** (bool, optional) Pass True, if the game message should not be automatically edited to include the current scoreboard.
- **chat_id** (int | str, optional) Required if inline_message_id is not specified. Unique identifier for the target chat.
- message_id (int, optional) Required if inline_message_id is not specified. Identifier of the sent message.
- inline_message_id (str, optional) Required if chat_id and message_id are not specified. Identifier of the inline message.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns The edited message, or if the message wasn't sent by the bot, True.

Return type telegram. Message

Raises telegram.error.TelegramError — If the new score is not greater than the user's current score in the chat and force is False.

set_my_commands (commands, timeout=None, api_kwargs=None, scope=None, language_code=None)

Use this method to change the list of the bot's commands. See the Telegram docs for more details about bot commands.

- **commands** (List[BotCommand | (str, str)]) A JSON-serialized list of bot commands to be set as the list of the bot's commands. At most 100 commands can be specified.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.
- scope (telegram.BotCommandScope, optional) A JSON-serialized object, describing scope of users for which the commands are relevant. Defaults to telegram.BotCommandScopeDefault.

New in version 13.7.

• language_code (str, optional) – A two-letter ISO 639-1 language code. If empty, commands will be applied to all users from the given scope, for whose language there are no dedicated commands.

New in version 13.7.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError-

```
set_my_default_administrator_rights (rights=None, for_channels=None, time-
out=None, api kwargs=None)
```

Use this method to change the default administrator rights requested by the bot when it's added as an administrator to groups or channels. These rights will be suggested to users, but they are are free to modify the list before adding the bot.

See also:

```
get_my_default_administrator_rights()
```

New in version 13.12.

Parameters

- rights (telegram.ChatAdministratorRights, optional) A telegram.ChatAdministratorRights object describing new default administrator rights. If not specified, the default administrator rights will be cleared.
- **for_channels** (bool, optional) Pass True to change the default administrator rights of the bot in channels. Otherwise, the default administrator rights of the bot for groups and supergroups will be changed.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns True on success.

Return type bool

Raises telegram.error.TelegramError-

set_passport_data_errors (user_id, errors, timeout=None, api_kwargs=None)

Informs a user that some of the Telegram Passport elements they provided contains errors. The user will not be able to re-submit their Passport to you until the errors are fixed (the contents of the field for which you returned the error must change).

Use this if the data submitted by the user doesn't satisfy the standards your service requires for any reason. For example, if a birthday date seems invalid, a submitted document is blurry, a scan shows evidence of tampering, etc. Supply some details in the error message to make sure the user knows how to correct the issues.

- user_id (int) User identifier
- errors (List[PassportElementError]) A JSON-serialized array describing the errors.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).

 api_kwargs (dict, optional) – Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError-

set_sticker_position_in_set (*sticker*, *position*, *timeout=None*, *api_kwargs=None*) Use this method to move a sticker in a set created by the bot to a specific position.

Parameters

- **sticker** (str) File identifier of the sticker.
- position (int) New sticker position in the set, zero-based.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError -

set_sticker_set_thumb (name, user_id, thumb=None, timeout=None, api_kwargs=None)

Use this method to set the thumbnail of a sticker set. Animated thumbnails can be set for animated sticker sets only. Video thumbnails can be set only for video sticker sets only.

Note: The thumb can be either a file_id, an URL or a file from disk open (filename, 'rb')

Parameters

- name (str) Sticker set name
- user_id (int) User identifier of created sticker set owner.
- thumb (str | filelike object | bytes | pathlib.Path, optional) A PNG image with the thumbnail, must be up to 128 kilobytes in size and have width and height exactly 100px, or a TGS animation with the thumbnail up to 32 kilobytes in size; see https://core.telegram.org/stickers#animated-sticker-requirements for animated sticker technical requirements, or a WEBM video with the thumbnail up to 32 kilobytes in size; see https://core.telegram.org/stickers#video-sticker-requirements for video sticker technical requirements. Pass a file_id as a String to send a file that already exists on the Telegram servers, pass an HTTP URL as a String for Telegram to get a file from the Internet, or upload a new one using multipart/form-data. Animated sticker set thumbnails can't be uploaded via HTTP URL.

Changed in version 13.2: Accept bytes as input.

- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError-

Use this method to specify a url and receive incoming updates via an outgoing webhook. Whenever there is an update for the bot, Telegram will send an HTTPS POST request to the specified url, containing a JSON-serialized Update. In case of an unsuccessful request, Telegram will give up after a reasonable amount of attempts.

If you'd like to make sure that the Webhook request comes from Telegram, Telegram recommends using a secret path in the URL, e.g. https://www.example.com/<token>. Since nobody else knows your bot's token, you can be pretty sure it's us.

Note: The certificate argument should be a file from disk open (filename, 'rb').

Parameters

- url (str) HTTPS url to send updates to. Use an empty string to remove webhook integration.
- **certificate** (filelike) Upload your public key certificate so that the root certificate in use can be checked. See our self-signed guide for details. (https://goo.gl/rw7w6Y)
- **ip_address** (str, optional) The fixed IP address which will be used to send webhook requests instead of the IP address resolved through DNS.
- max_connections (int, 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 (List[str], optional) A JSON-serialized list the types of updates you want your bot to receive. For example, specify ["message", "edited_channel_post", "callback_query"] to only receive updates of these types. See telegram.Update for a complete list of available update types. Specify an empty list to receive all updates except telegram.Update.chat_member (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 set_webhook, so unwanted updates may be received for a short period of time.
- drop_pending_updates (bool, optional) Pass True to drop all pending updates.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Note:

- 1. You will not be able to receive updates using get_updates () for long as an outgoing webhook is set up.
- 2. To use a self-signed certificate, you need to upload your public key certificate using certificate parameter. Please upload as InputFile, sending a String will not work.
- 3. Ports currently supported for Webhooks: 443, 80, 88, 8443.

If you're having any trouble setting up webhooks, please check out this guide to Webhooks.

Returns bool On success, True is returned.

Raises telegram.error.TelegramError-

stopMessageLiveLocation (chat_id=None, message_id=None, inline_message_id=None, re-ply_markup=None, timeout=None, api_kwargs=None)

Alias for stop_message_live_location()

stopPoll (chat_id, message_id, reply_markup=None, timeout=None, api_kwargs=None)
Alias for stop_poll()

Use this method to stop updating a live location message sent by the bot or via the bot (for inline bots) before live_period expires.

Parameters

- **chat_id** (int | str) Required if inline_message_id is not specified. Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- message_id (int, optional) Required if inline_message_id is not specified. Identifier of the sent message with live location to stop.
- inline_message_id (str, optional) Required if chat_id and message_id are not specified. Identifier of the inline message.
- reply_markup (telegram.InlineKeyboardMarkup, optional) A JSON-serialized object for a new inline keyboard.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, if edited message is sent by the bot, the sent Message is returned, otherwise True is returned.

Return type telegram. Message

stop_poll (*chat_id*, *message_id*, *reply_markup=None*, *timeout=None*, *api_kwargs=None*) Use this method to stop a poll which was sent by the bot.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- message_id (int) Identifier of the original message with the poll.
- reply_markup (telegram.InlineKeyboardMarkup, optional) A JSON-serialized object for a new message inline keyboard.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, the stopped Poll with the final results is returned.

Return type telegram.Poll

Raises telegram.error.TelegramError -

property supports_inline_queries

Bot's telegram. User. supports_inline_queries attribute.

Type bool

to_dict()

See telegram. TelegramObject.to dict().

unbanChatMember (chat_id, user_id, timeout=None, api_kwargs=None, only_if_banned=None)
Alias for unban_chat_member()

unbanChatSenderChat (chat_id, sender_chat_id, timeout=None, api_kwargs=None)
Alias for unban_chat_sender_chat ()

Use this method to unban a previously kicked user in a supergroup or channel.

The user will *not* return to the group or channel automatically, but will be able to join via link, etc. The bot must be an administrator for this to work. By default, this method guarantees that after the call the user is not a member of the chat, but will be able to join it. So if the user is a member of the chat they will also be *removed* from the chat. If you don't want this, use the parameter only_if_banned.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target supergroup or channel (in the format @channelusername).
- user_id (int) Unique identifier of the target user.
- only_if_banned (bool, optional) Do nothing if the user is not banned.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError-

unban_chat_sender_chat (chat_id, sender_chat_id, timeout=None, api_kwargs=None)

Use this method to unban a previously banned channel in a supergroup or channel. The bot must be an administrator for this to work and must have the appropriate administrator rights.

New in version 13.9.

Parameters

- **chat_id** (int | str) Unique identifier for the target chat or username of the target supergroup or channel (in the format @channelusername).
- **sender_chat_id** (int) Unique identifier of the target sender chat.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError -

```
unpinAllChatMessages (chat_id, timeout=None, api_kwargs=None)
```

Alias for unpin_all_chat_messages()

 $\verb"unpinChatMessage" (chat_id, timeout=None, api_kwargs=None, message_id=None)$

Alias for unpin_chat_message()

unpin_all_chat_messages (chat_id, timeout=None, api_kwargs=None)

Use this method to clear the list of pinned messages in a chat. If the chat is not a private chat, the bot must be an administrator in the chat for this to work and must have the <code>telegram.ChatMember.can_pin_messages</code> admin right in a supergroup or <code>telegram.ChatMember.can_edit_messages</code> admin right in a channel.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError -

unpin_chat_message (chat_id, timeout=None, api_kwargs=None, message_id=None)

Use this method to remove a message from the list of pinned messages in a chat. If the chat is not a private chat, the bot must be an administrator in the chat for this to work and must have the telegram. ChatMember.can_pin_messages admin right in a supergroup or telegram. ChatMember.can_edit_messages admin right in a channel.

Parameters

- **chat_id**(int|str) Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- message_id (int, optional) Identifier of a message to unpin. If not specified, the most recent pinned message (by sending date) will be unpinned.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, True is returned.

Return type bool

Raises telegram.error.TelegramError -

uploadStickerFile (user_id, png_sticker, timeout=20, api_kwargs=None)

Alias for upload_sticker_file()

upload_sticker_file (user_id, png_sticker, timeout=20, api_kwargs=None)

Use this method to upload a .PNG file with a sticker for later use in <code>create_new_sticker_set()</code> and <code>add_sticker_to_set()</code> methods (can be used multiple times).

Note: The png_sticker argument can be either a file_id, an URL or a file from disk open(filename, 'rb')

Parameters

- user_id (int) User identifier of sticker file owner.
- png_sticker (str|filelike object|bytes|pathlib.Path) PNG image with the sticker, must be up to 512 kilobytes in size, dimensions must not exceed 512px, and either width or height must be exactly 512px.

Changed in version 13.2: Accept bytes as input.

- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- api_kwargs (dict, optional) Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, the uploaded File is returned.

Raises telegram.error.TelegramError-

```
Return type telegram.File
```

property username

Bot's username.

Type str

3.2.4 telegram.BotCommand

```
class telegram.BotCommand(command, description, **_kwargs)
    Bases: telegram.base.TelegramObject
```

This object represents a bot command.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their command and description are equal.

Parameters

- **command** (str) Text of the command, 1-32 characters. Can contain only lowercase English letters, digits and underscores.
- **description** (str) Description of the command, 1-256 characters.

command

Text of the command.

```
Type str
```

description

Description of the command.

Type str

3.2.5 telegram.BotCommandScope

```
class telegram.BotCommandScope(type, **_kwargs)
```

Bases: telegram.base.TelegramObject

Base class for objects that represent the scope to which bot commands are applied. Currently, the following 7 scopes are supported:

- telegram.BotCommandScopeDefault
- telegram.BotCommandScopeAllPrivateChats
- telegram.BotCommandScopeAllGroupChats
- telegram.BotCommandScopeAllChatAdministrators
- telegram.BotCommandScopeChat
- telegram.BotCommandScopeChatAdministrators
- telegram.BotCommandScopeChatMember

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their type is equal. For subclasses with additional attributes, the notion of equality is overridden.

Note: Please see the official docs on how Telegram determines which commands to display.

New in version 13.7.

Parameters type (str) – Scope type.

type

Scope type.

Type str

```
ALL_CHAT_ADMINISTRATORS = 'all_chat_administrators'
```

telegram.constants.BOT_COMMAND_SCOPE_ALL_CHAT_ADMINISTRATORS

```
ALL_GROUP_CHATS = 'all_group_chats'
```

telegram.constants.BOT_COMMAND_SCOPE_ALL_GROUP_CHATS

```
ALL_PRIVATE_CHATS = 'all_private_chats'
```

telegram.constants.BOT_COMMAND_SCOPE_ALL_PRIVATE_CHATS

CHAT = 'chat'

telegram.constants.BOT_COMMAND_SCOPE_CHAT

CHAT_ADMINISTRATORS = 'chat_administrators'

telegram.constants.BOT_COMMAND_SCOPE_CHAT_ADMINISTRATORS

CHAT_MEMBER = 'chat_member'

telegram.constants.BOT_COMMAND_SCOPE_CHAT_MEMBER

DEFAULT = 'default'

telegram.constants.BOT_COMMAND_SCOPE_DEFAULT

classmethod de_json(data, bot)

Converts JSON data to the appropriate BotCommandScope object, i.e. takes care of selecting the correct subclass.

Parameters

- data (Dict[str,...]) The JSON data.
- **bot** (telegram.Bot) The bot associated with this object.

Returns The Telegram object.

3.2.6 telegram.BotCommandScopeDefault

```
class telegram.BotCommandScopeDefault(**_kwargs)
```

Bases: telegram.botcommandscope.BotCommandScope

Represents the default scope of bot commands. Default commands are used if no commands with a narrower scope are specified for the user.

New in version 13.7.

type

Scope type telegram.BotCommandScope.DEFAULT.

Type str

3.2.7 telegram.BotCommandScopeAllPrivateChats

```
class telegram.BotCommandScopeAllPrivateChats(**_kwargs)
```

Bases: telegram.botcommandscope.BotCommandScope

Represents the scope of bot commands, covering all private chats.

New in version 13.7.

type

Scope type telegram.BotCommandScope.ALL_PRIVATE_CHATS.

Type str

3.2.8 telegram.BotCommandScopeAllGroupChats

class telegram.BotCommandScopeAllGroupChats(**_kwargs)

Bases: telegram.botcommandscope.BotCommandScope

Represents the scope of bot commands, covering all group and supergroup chats.

New in version 13.7.

type

Scope type telegram.BotCommandScope.ALL_GROUP_CHATS.

Type str

3.2.9 telegram.BotCommandScopeAllChatAdministrators

class telegram.BotCommandScopeAllChatAdministrators(**_kwargs)

Bases: telegram.botcommandscope.BotCommandScope

Represents the scope of bot commands, covering all group and supergroup chat administrators.

New in version 13.7.

type

Scope type telegram. BotCommandScope.ALL_CHAT_ADMINISTRATORS.

Type str

3.2.10 telegram.BotCommandScopeChat

```
class telegram.BotCommandScopeChat (chat_id, **_kwargs)
```

Bases: telegram.botcommandscope.BotCommandScope

Represents the scope of bot commands, covering a specific chat.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their type and chat_id are equal.

New in version 13.7.

Parameters chat_id (str|int) - Unique identifier for the target chat or username of the target supergroup (in the format @supergroupusername)

type

Scope type telegram.BotCommandScope.CHAT.

Type str

chat_id

Unique identifier for the target chat or username of the target supergroup (in the format @supergroupusername)

Type strlint

3.2.11 telegram.BotCommandScopeChatAdministrators

class telegram.BotCommandScopeChatAdministrators(chat_id, **_kwargs)

Bases: telegram.botcommandscope.BotCommandScope

Represents the scope of bot commands, covering all administrators of a specific group or supergroup chat.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their type and $chat_id$ are equal.

New in version 13.7.

Parameters chat_id (strlint) - Unique identifier for the target chat or username of the target supergroup (in the format @supergroupusername)

type

Scope type telegram.BotCommandScope.CHAT_ADMINISTRATORS.

Type str

chat id

Unique identifier for the target chat or username of the target supergroup (in the format @supergroupusername)

Type strlint

3.2.12 telegram.BotCommandScopeChatMember

class telegram.BotCommandScopeChatMember (chat_id, user_id, **_kwargs)

Bases: telegram.botcommandscope.BotCommandScope

Represents the scope of bot commands, covering a specific member of a group or supergroup chat.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their type, chat_id and user_id are equal.

New in version 13.7.

- **chat_id** (str|int) Unique identifier for the target chat or username of the target supergroup (in the format @supergroupusername)
- user_id (int) Unique identifier of the target user.

type

Scope type telegram.BotCommandScope.CHAT_MEMBER.

```
Type str
```

chat id

Unique identifier for the target chat or username of the target supergroup (in the format @supergroupusername)

```
Type strlint
```

user_id

Unique identifier of the target user.

Type int

3.2.13 telegram.CallbackQuery

Bases: telegram.base.TelegramObject

This object represents an incoming callback query from a callback button in an inline keyboard.

If the button that originated the query was attached to a message sent by the bot, the field <code>message</code> will be present. If the button was attached to a message sent via the bot (in inline mode), the field <code>inline_message_id</code> will be present.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their i d is equal.

Note:

- In Python from is a reserved word, use from_user instead.
- Exactly one of the fields data or game short name will be present.
- After the user presses an inline button, Telegram clients will display a progress bar until you call <code>answer</code>. It is, therefore, necessary to react by calling <code>telegram.Bot.answer_callback_query</code> even if no notification to the user is needed (e.g., without specifying any of the optional parameters).
- If you're using Bot.arbitrary_callback_data, data may be an instance of telegram. ext.InvalidCallbackData. This will be the case, if the data associated with the button triggering the telegram.CallbackQuery was already deleted or if data was manipulated by a malicious client.

New in version 13.6.

- id (str) Unique identifier for this query.
- from_user(telegram.User) Sender.
- **chat_instance** (str) Global identifier, uniquely corresponding to the chat to which the message with the callback button was sent. Useful for high scores in games.

- message (telegram. Message, optional) Message with the callback button that originated the query. Note that message content and message date will not be available if the message is too old.
- data (str, optional) Data associated with the callback button. Be aware that a bad client can send arbitrary data in this field.
- **inline_message_id** (str, optional) Identifier of the message sent via the bot in inline mode, that originated the query.
- game_short_name (str, optional) Short name of a Game to be returned, serves as the unique identifier for the game
- **bot** (*telegram.Bot*, optional) The Bot to use for instance methods.

id

Unique identifier for this query.

Type str

from_user

Sender.

Type telegram. User

chat_instance

Global identifier, uniquely corresponding to the chat to which the message with the callback button was sent.

Type str

message

Optional. Message with the callback button that originated the query.

Type telegram.Message

data

Optional. Data associated with the callback button.

Type strlobject

inline_message_id

Optional. Identifier of the message sent via the bot in inline mode, that originated the query.

Type str

game short name

Optional. Short name of a Game to be returned.

Type str

bot

The Bot to use for instance methods.

Type telegram.Bot, optional

MAX_ANSWER_TEXT_LENGTH: ClassVar[int] = 200

telegram.constants.MAX_ANSWER_CALLBACK_QUERY_TEXT_LENGTH

New in version 13.2.

Shortcut for:

```
bot.answer_callback_query(update.callback_query.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot. answer_callback_query().

```
Returns On success, True is returned.
```

Return type bool

Shortcut for:

```
update.callback_query.message.copy(
    chat_id,
    from_chat_id=update.message.chat_id,
    message_id=update.message.message_id,
    *args,
    **kwargs)
```

For the documentation of the arguments, please see telegram. Message.copy().

Returns On success, returns the MessageId of the sent message.

Return type telegram.MessageId

```
classmethod de_json(data, bot)
```

See telegram. TelegramObject.de_json().

delete_message (timeout=None, api_kwargs=None)

Shortcut for:

```
update.callback_query.message.delete(*args, **kwargs)
```

For the documentation of the arguments, please see telegram. Message.delete().

Returns On success, True is returned.

Return type bool

Shortcut for either:

```
update.callback_query.message.edit_caption(caption, *args, **kwargs)
```

or:

For the documentation of the arguments, please see telegram.Bot.edit_message_caption() and telegram.Message.edit_caption().

Returns On success, if edited message is sent by the bot, the edited Message is returned, otherwise True is returned.

Return type telegram. Message

Shortcut for either:

```
update.callback_query.message.edit_live_location(*args, **kwargs)
```

or:

```
bot.edit_message_live_location(
    inline_message_id=update.callback_query.inline_message_id,
    *args, **kwargs
)
```

For the documentation of the arguments, please see telegram. Bot.edit_message_live_location() and telegram.Message.edit_live_location().

Returns On success, if edited message is sent by the bot, the edited Message is returned, otherwise True is returned.

Return type telegram. Message

edit_message_media (media=None, reply_markup=None, timeout=None, api_kwargs=None)
 Shortcut for either:

```
update.callback_query.message.edit_media(*args, **kwargs)
```

or:

```
bot.edit_message_media(inline_message_id=update.callback_query.inline_

→message_id,

*args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.edit_message_media() and telegram.Message.edit_media().

Returns On success, if edited message is sent by the bot, the edited Message is returned, otherwise True is returned.

Return type telegram. Message

edit_message_reply_markup (reply_markup=None, timeout=None, api_kwargs=None)
Shortcut for either:

```
update.callback_query.message.edit_reply_markup(
    reply_markup=reply_markup,
    *args,
    **kwargs
)
```

or:

```
bot.edit_message_reply_markup
   inline_message_id=update.callback_query.inline_message_id,
   reply_markup=reply_markup,
   *args,
   **kwargs
)
```

For the documentation of the arguments, please see telegram.Bot. edit_message_reply_markup() and telegram.Message.edit_reply_markup().

Returns On success, if edited message is sent by the bot, the edited Message is returned, otherwise True is returned.

Return type telegram. Message

```
update.callback_query.message.edit_text(text, *args, **kwargs)
```

or:

For the documentation of the arguments, please see telegram.Bot.edit_message_text() and telegram.Message.edit_text().

Returns On success, if edited message is sent by the bot, the edited Message is returned, otherwise True is returned.

Return type telegram. Message

get_game_high_scores (user_id, timeout=None, api_kwargs=None)

Shortcut for either:

```
update.callback_query.message.get_game_high_score(*args, **kwargs)
```

or:

```
bot.get_game_high_scores(inline_message_id=update.callback_query.inline_

→message_id,

*args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot. get_game_high_scores() and telegram.Message.get_game_high_score().

Returns List[telegram.GameHighScore]

```
update.callback_query.message.pin(*args, **kwargs)
```

For the documentation of the arguments, please see telegram. Message.pin().

Returns On success, True is returned.

Return type bool

Shortcut for either:

```
update.callback_query.message.set_game_score(*args, **kwargs)
```

or:

```
bot.set_game_score(inline_message_id=update.callback_query.inline_message_

→id,

*args, **kwargs)
```

For the documentation of the arguments, please see $telegram.Bot.set_game_score()$ and $telegram.Message.set_game_score()$.

Returns On success, if edited message is sent by the bot, the edited Message is returned, otherwise True is returned.

Return type telegram. Message

stop_message_live_location (reply_markup=None, timeout=None, api_kwargs=None)
Shortcut for either:

```
update.callback_query.message.stop_live_location(*args, **kwargs)
```

or:

```
bot.stop_message_live_location(
   inline_message_id=update.callback_query.inline_message_id,
   *args, **kwargs
)
```

For the documentation of the arguments, please see telegram. Bot.stop_message_live_location() and telegram.Message. $stop_live_location()$.

Returns On success, if edited message is sent by the bot, the edited Message is returned, otherwise True is returned.

Return type telegram. Message

unpin_message (timeout=None, api_kwargs=None)

Shortcut for:

```
update.callback_query.message.unpin(*args, **kwargs)
```

For the documentation of the arguments, please see telegram. Message.unpin().

Returns On success, True is returned.

Return type bool

3.2.14 telegram.Chat

This object represents a chat.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their i d is equal.

- id (int) Unique identifier for this chat. This number may be greater than 32 bits and some programming languages may have difficulty/silent defects in interpreting it. But it is smaller than 52 bits, so a signed 64 bit integer or double-precision float type are safe for storing this identifier.
- **type** (str) Type of chat, can be either 'private', 'group', 'supergroup' or 'channel'.
- title (str, optional) Title, for supergroups, channels and group chats.
- username (str, optional) Username, for private chats, supergroups and channels if available.
- **first_name** (str, optional) First name of the other party in a private chat.
- last_name (str, optional) Last name of the other party in a private chat.
- photo (telegram.ChatPhoto, optional) Chat photo. Returned only in telegram.Bot.get_chat().
- bio (str, optional) Bio of the other party in a private chat. Returned only in telegram.Bot.get_chat().

• has_private_forwards (bool, optional) - True, if privacy settings of the other party in the private chat allows to use tg://user?id=<user_id> links only in chats with the user. Returned only in telegram.Bot.get_chat().

New in version 13.9.

- **description** (str, optional) Description, for groups, supergroups and channel chats. Returned only in telegram.Bot.get_chat().
- invite_link (str, optional) Primary invite link, for groups, supergroups and channel. Returned only in telegram.Bot.get_chat().
- pinned_message (telegram.Message, optional) The most recent pinned message (by sending date). Returned only in telegram.Bot.get_chat().
- permissions (telegram.ChatPermissions) Optional. Default chat member permissions, for groups and supergroups. Returned only in telegram.Bot. get_chat().
- **slow_mode_delay** (int, optional) For supergroups, the minimum allowed delay between consecutive messages sent by each unprivileged user. Returned only in telegram.Bot.get_chat().
- message_auto_delete_time (int, optional) The time after which all messages sent to the chat will be automatically deleted; in seconds. Returned only in telegram.Bot.get_chat().

New in version 13.4.

- has_protected_content (bool, optional) True, if messages from the chat can't be forwarded to other chats. Returned only in telegram.Bot.get_chat().

 New in version 13.9.
- **bot** (*telegram.Bot*, optional) The Bot to use for instance methods.
- **sticker_set_name** (str, optional) For supergroups, name of group sticker set. Returned only in telegram.Bot.get_chat().
- can_set_sticker_set (bool, optional) True, if the bot can change group the sticker set. Returned only in telegram.Bot.get_chat().
- linked_chat_id (int, optional) Unique identifier for the linked chat, i.e. the discussion group identifier for a channel and vice versa; for supergroups and channel chats. Returned only in telegram.Bot.get_chat().
- location (telegram.ChatLocation, optional) For supergroups, the location to which the supergroup is connected. Returned only in telegram.Bot. get_chat().
- **kwargs (dict) Arbitrary keyword arguments.

id

Unique identifier for this chat.

Type int

type

Type of chat.

Type str

title

Optional. Title, for supergroups, channels and group chats.

Type str

username

Optional. Username.

```
Type str
```

first_name

Optional. First name of the other party in a private chat.

```
Type str
```

last_name

Optional. Last name of the other party in a private chat.

```
Type str
```

photo

Optional. Chat photo.

```
Type telegram.ChatPhoto
```

bio

Optional. Bio of the other party in a private chat. Returned only in telegram. Bot. get_chat().

```
Type str
```

has_private_forwards

Optional. True, if privacy settings of the other party in the private chat allows to use tg://user?id=<user_id> links only in chats with the user.

New in version 13.9.

Type bool

description

Optional. Description, for groups, supergroups and channel chats.

Type str

invite link

Optional. Primary invite link, for groups, supergroups and channel. Returned only in telegram. Bot.get_chat().

Type str

pinned_message

Optional. The most recent pinned message (by sending date). Returned only in telegram.Bot. get_chat().

Type telegram. Message

permissions

Optional. Default chat member permissions, for groups and supergroups. Returned only in telegram.Bot.get_chat().

Type telegram. ChatPermissions

slow_mode_delay

Optional. For supergroups, the minimum allowed delay between consecutive messages sent by each unprivileged user. Returned only in telegram.Bot.get_chat().

Type int

message_auto_delete_time

Optional. The time after which all messages sent to the chat will be automatically deleted; in seconds. Returned only in telegram.Bot.get_chat().

New in version 13.4.

Type int

has_protected_content

Optional. True, if messages from the chat can't be forwarded to other chats.

New in version 13.9.

```
Type bool
```

sticker_set_name

Optional. For supergroups, name of Group sticker set.

Type str

can_set_sticker_set

Optional. True, if the bot can change group the sticker set.

Type bool

linked chat id

Optional. Unique identifier for the linked chat, i.e. the discussion group identifier for a channel and vice versa; for supergroups and channel chats. Returned only in telegram. Bot.get_chat().

Type int

location

Optional. For supergroups, the location to which the supergroup is connected. Returned only in telegram.Bot.get_chat().

Type telegram. ChatLocation

CHANNEL: ClassVar[str] = 'channel'

telegram.constants.CHAT_CHANNEL

GROUP: ClassVar[str] = 'group'

telegram.constants.CHAT_GROUP

PRIVATE: ClassVar[str] = 'private'

telegram.constants.CHAT_PRIVATE

SENDER: ClassVar[str] = 'sender'

telegram.constants.CHAT_SENDER

New in version 13.5.

SUPERGROUP: ClassVar[str] = 'supergroup'

telegram.constants.CHAT_SUPERGROUP

approve_join_request (user_id, timeout=None, api_kwargs=None)

Shortcut for:

For the documentation of the arguments, please see telegram.Bot. approve_chat_join_request().

New in version 13.8.

Returns On success, True is returned.

Return type bool

ban_chat (chat_id, timeout=None, api_kwargs=None)

Shortcut for:

For the documentation of the arguments, please see telegram.Bot. $ban_chat_sender_chat().$

New in version 13.9.

Returns On success, True is returned.

Return type bool

timeout=None,

until_date=None,

api_kwargs=None,

re-

ban_member (user_id,

```
voke_messages=None)
    Shortcut for:
    bot.ban_chat_member(update.effective_chat.id, *args, **kwargs)
    For the documentation of the arguments, please see telegram.Bot.ban_chat_member().
        Returns On success. True is returned.
        Return type bool
ban_sender_chat (sender_chat_id, timeout=None, api_kwargs=None)
    Shortcut for:
    bot.ban_chat_sender_chat(chat_id=update.effective_chat.id, *args, **kwargs)
    For
          the
                documentation
                                of
                                     the
                                           arguments,
                                                         please
                                                                        telegram.Bot.
                                                                 see
    ban_chat_sender_chat().
    New in version 13.9.
        Returns On success. True is returned.
        Return type bool
copy_message(chat_id,
                           message_id,
                                          caption=None,
                                                          parse_mode=None,
                tion_entities=None, disable_notification=None, reply_to_message_id=None,
                allow_sending_without_reply=None,
                                                 reply_markup=None,
                                                                       timeout=None,
                api_kwargs=None, protect_content=None)
    Shortcut for:
    bot.copy_message(from_chat_id=update.effective_chat.id, *args, **kwargs)
    For the documentation of the arguments, please see telegram.Bot.copy_message().
        Returns On success, instance representing the message posted.
        Return type telegram. Message
create_invite_link (expire_date=None,
                                              member_limit=None,
                                                                       timeout=None,
                       api_kwargs=None, name=None, creates_join_request=None)
    Shortcut for:
    bot.create_chat_invite_link(chat_id=update.effective_chat.id, *args,_
     →**kwargs)
    For
                 documentation
                                of
                                     the
                                            arguments,
                                                         please
                                                                 see
                                                                        telegram.Bot.
    create_chat_invite_link().
    New in version 13.4.
    Changed in version 13.8: Edited signature according to the changes of telegram. Bot.
    create_chat_invite_link().
        Returns telegram.ChatInviteLink
classmethod de_json(data, bot)
    See telegram. TelegramObject.de_json().
decline_join_request (user_id, timeout=None, api_kwargs=None)
    Shortcut for:
    bot.decline_chat_join_request(chat_id=update.effective_chat.id, *args,...
     →**kwarqs)
```

For the documentation of the arguments, please see telegram.Bot. decline_chat_join_request().

New in version 13.8.

Returns On success, True is returned.

Return type bool

Shortcut for:

For the documentation of the arguments, please see $telegram.Bot.edit_chat_invite_link()$.

New in version 13.4.

Changed in version 13.8: Edited signature according to the changes of $telegram.Bot.edit_chat_invite_link()$.

 $\textbf{Returns} \ \textit{telegram.ChatInviteLink}$

export_invite_link (timeout=None, api_kwargs=None)

Shortcut for:

For the documentation of the arguments, please see $telegram.Bot.export_chat_invite_link()$.

New in version 13.4.

Returns New invite link on success.

Return type str

property full_name

Convenience property. If first_name is not None gives, first_name followed by (if available) last name.

Note: full_name will always be None, if the chat is a (super)group or channel.

New in version 13.2.

Type str

get_administrators (timeout=None, api_kwargs=None)

Shortcut for:

```
bot.get_chat_administrators(update.effective_chat.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot. $get_chat_administrators()$.

Returns A list of administrators in a chat. An Array of telegram. ChatMember objects that contains information about all chat administrators except other bots. If the chat is a group or a supergroup and no administrators were appointed, only the creator will be returned.

Return type List[telegram.ChatMember]

get_member (user_id, timeout=None, api_kwargs=None)

```
Shortcut for:
    bot.get_chat_member(update.effective_chat.id, *args, **kwargs)
    For the documentation of the arguments, please see telegram.Bot.get_chat_member().
        Returns telegram.ChatMember
get member_count (timeout=None, api_kwargs=None)
    Shortcut for:
    bot.get_chat_member_count(update.effective_chat.id, *args, **kwargs)
           the
                 documentation
                                 of
                                      the
                                             arguments,
                                                          please
                                                                   see
                                                                          telegram.Bot.
     get_chat_member_count().
        Returns int
get_members_count (timeout=None, api_kwargs=None)
    Deprecated, use get_member_count() instead.
    Deprecated since version 13.7.
get_menu_button (timeout=None, api_kwargs=None)
    Shortcut for:
    bot.get_chat_menu_button(chat_id=update.effective_chat.id, *args, **kwargs)
    For
                 documentation
                                 of
           the
                                      the
                                             arguments,
                                                          please
                                                                          telegram.Bot.
                                                                   see
     set_chat_menu_button().
      Caution: Can only work, if the chat is a private chat.
    ..seealso:: set_menu_button()
    New in version 13.12.
        Returns On success, the current menu button is returned.
        Return type telegram. MenuButton
kick_member (user_id,
                          timeout=None,
                                           until date=None,
                                                              api_kwargs=None,
                                                                                   re-
               voke_messages=None)
    Deprecated, use ban_member() instead.
    Deprecated since version 13.7.
leave (timeout=None, api_kwargs=None)
    Shortcut for:
    bot.leave_chat(update.effective_chat.id, *args, **kwargs)
    For the documentation of the arguments, please see telegram. Bot.leave_chat().
        Returns On success, True is returned.
        Return type bool
property link
    Convenience property. If the chat has a username, returns a t.me link of the chat.
        Type str
pin_message (message_id, disable_notification=None, timeout=None, api_kwargs=None)
    Shortcut for:
```

```
bot.pin_chat_message(chat_id=update.effective_chat.id,
                            *args,
                            **kwargs)
    For the documentation of the arguments, please see telegram.Bot.pin_chat_message().
        Returns On success, True is returned.
        Return type bool
                                 can_change_info=None,
promote_member (user_id,
                                                              can_post_messages=None,
                   can edit messages=None,
                                                             can delete messages=None,
                   can_invite_users=None,
                                                            can_restrict_members=None,
                   can_pin_messages=None,
                                           can_promote_members=None, timeout=None,
                   api_kwargs=None,
                                       is_anonymous=None,
                                                               can_manage_chat=None,
                   can_manage_voice_chats=None, can_manage_video_chats=None)
    Shortcut for:
    bot.promote_chat_member(update.effective_chat.id, *args, **kwargs)
    For
           the
                 documentation
                                 of
                                      the
                                             arguments,
                                                          please
                                                                   see
                                                                          telegram.Bot.
    promote_chat_member().
    New in version 13.2.
    ..versionchanged:: 13.12 Since Bot API 6.0, voice chat was renamed to video chat.
        Returns On success, True is returned.
        Return type bool
restrict member (user id, permissions, until date=None, timeout=None, api kwargs=None)
    Shortcut for:
    bot.restrict_chat_member(update.effective_chat.id, *args, **kwargs)
                 documentation
                                 of
                                      the
                                            arguments,
                                                          please
                                                                   see
                                                                         telegram.Bot.
    restrict chat member().
    New in version 13.2.
        Returns On success, True is returned.
        Return type bool
revoke_invite_link (invite_link, timeout=None, api_kwargs=None)
    Shortcut for:
    bot.revoke_chat_invite_link(chat_id=update.effective_chat.id, *args,_
     →**kwargs)
           the
                 documentation
                                 of
                                      the
                                             arguments,
                                                          please
                                                                         telegram.Bot.
                                                                   see
    revoke chat invite link().
    New in version 13.4.
```

Returns telegram.ChatInviteLink
send_action(action, timeout=None, api_kwargs=None)

Alias for send_chat_action

```
send_animation (animation, duration=None, width=None, height=None, thumb=None, caption=None, parse_mode=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=20, api_kwargs=None, allow_sending_without_reply=None, caption_entities=None, filename=None, protect_content=None)
```

Shortcut for:

```
bot.send_animation(update.effective_chat.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_animation().

Returns On success, instance representing the message posted.

Return type telegram. Message

send_audio (audio, duration=None, performer=None, title=None, caption=None, disable_notification=None, reply_to_message_id=None, reply_markup=None,
timeout=20, parse_mode=None, thumb=None, api_kwargs=None, allow_sending_without_reply=None, caption_entities=None, filename=None,
protect_content=None)

Shortcut for:

```
bot.send_audio(update.effective_chat.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_audio().

Returns On success, instance representing the message posted.

Return type telegram. Message

send_chat_action(action, timeout=None, api_kwargs=None)

Shortcut for:

```
bot.send_chat_action(update.effective_chat.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram. Bot.send_chat_action().

Returns On success, True is returned.

Return type bool

send_contact (phone_number=None, first_name=None, last_name=None, disable_notification=None, reply_to_message_id=None, reply_markup=None,
timeout=None, contact=None, vcard=None, api_kwargs=None, allow_sending_without_reply=None, protect_content=None)

Shortcut for:

```
bot.send_contact(update.effective_chat.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_contact().

Returns On success, instance representing the message posted.

```
Return type telegram. Message
```

Shortcut for:

```
bot.copy_message(chat_id=update.effective_chat.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.copy_message().

Returns On success, instance representing the message posted.

```
Return type telegram. Message
```

Shortcut for:

```
bot.send_dice(update.effective_chat.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_dice().

Returns On success, instance representing the message posted.

Return type telegram. Message

send_document (document, filename=None, caption=None, disable_notification=None,
 reply_to_message_id=None, reply_markup=None, timeout=20,
 parse_mode=None, thumb=None, api_kwargs=None, disable_content_type_detection=None, allow_sending_without_reply=None,
 caption_entities=None, protect_content=None)

Shortcut for:

```
bot.send_document(update.effective_chat.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_document().

Returns On success, instance representing the message posted.

Return type telegram. Message

```
bot.send_game(update.effective_chat.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_game().

Returns On success, instance representing the message posted.

Return type telegram. Message

description, prices, send invoice (title, payload, provider_token, currency, start_parameter=None, photo_url=None, photo_size=None, photo_width=None, photo_height=None, need_name=None, need_phone_number=None, need_email=None, need_shipping_address=None, is_flexible=None, able_notification=None, reply_to_message_id=None, reply_markup=None, provider_data=None, send_phone_number_to_provider=None, send_email_to_provider=None, timeout=None, api_kwargs=None, allow_sending_without_reply=None, max_tip_amount=None, suggested_tip_amounts=None, protect_content=None)

Shortcut for:

```
bot.send_invoice(update.effective_chat.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_invoice().

Warning: As of API 5.2 start_parameter is an optional argument and therefore the order of the arguments had to be changed. Use keyword arguments to make sure that the arguments are passed correctly.

Changed in version 13.5: As of Bot API 5.2, the parameter start_parameter is optional.

Returns On success, instance representing the message posted.

Return type telegram. Message

send_location (latitude=None, longitude=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=None,
location=None, live_period=None, api_kwargs=None, horizontal_accuracy=None, heading=None, proximity_alert_radius=None, allow sending without reply=None, protect content=None)

Shortcut for:

```
bot.send_location(update.effective_chat.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_location().

Returns On success, instance representing the message posted.

Return type telegram. Message

send_media_group (media, disable_notification=None, reply_to_message_id=None, timeout=20, api_kwargs=None, allow_sending_without_reply=None, protect_content=None)

Shortcut for:

```
bot.send_media_group(update.effective_chat.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_media_group().

Returns On success, instance representing the message posted.

Return type List[telegram.Message]

send_message (text, parse_mode=None, disable_web_page_preview=None, dis able_notification=None, reply_to_message_id=None, reply_markup=None,
 timeout=None, api_kwargs=None, allow_sending_without_reply=None, entities=None, protect_content=None)

Shortcut for:

```
bot.send_message(update.effective_chat.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_message().

Returns On success, instance representing the message posted.

Return type telegram. Message

Shortcut for:

```
bot.send_photo(update.effective_chat.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_photo().

Returns On success, instance representing the message posted.

Return type telegram. Message

send_poll (question, options, is_anonymous=True, type='regular', allows_multiple_answers=False, correct_option_id=None, is_closed=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=None, explanation=None, explanation_parse_mode=None, open_period=None,
close_date=None, api_kwargs=None, allow_sending_without_reply=None, explanation_entities=None, protect_content=None)

Shortcut for:

```
bot.send_poll(update.effective_chat.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_poll().

Returns On success, instance representing the message posted.

Return type telegram. Message

Shortcut for:

```
bot.send_sticker(update.effective_chat.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_sticker().

Returns On success, instance representing the message posted.

Return type telegram. Message

send_venue (latitude=None, longitude=None, title=None, address=None,
 foursquare_id=None, disable_notification=None, reply_to_message_id=None,
 reply_markup=None, timeout=None, venue=None, foursquare_type=None,
 api_kwargs=None, google_place_id=None, google_place_type=None, al low_sending_without_reply=None, protect_content=None)

Shortcut for:

```
bot.send_venue(update.effective_chat.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_venue().

Returns On success, instance representing the message posted.

Return type telegram. Message

send_video (video, duration=None, caption=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=20, width=None,
height=None, parse_mode=None, supports_streaming=None, thumb=None,
api_kwargs=None, allow_sending_without_reply=None, caption_entities=None,
filename=None, protect_content=None)

Shortcut for:

```
bot.send_video(update.effective_chat.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_video().

Returns On success, instance representing the message posted.

Return type telegram. Message

Shortcut for:

```
bot.send_video_note(update.effective_chat.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram. Bot.send_video_note().

Returns On success, instance representing the message posted.

Return type telegram. Message

duration=None,

send_voice(voice,

```
filename=None, protect_content=None)
    Shortcut for:
    bot.send_voice(update.effective_chat.id, *args, **kwargs)
    For the documentation of the arguments, please see telegram.Bot.send_voice().
        Returns On success, instance representing the message posted.
        Return type telegram. Message
set_administrator_custom_title (user_id,
                                                     custom_title,
                                                                       timeout=None,
                                      api_kwargs=None)
    Shortcut for:
    bot.set_chat_administrator_custom_title(update.effective_chat.id, *args,_
     →**kwargs)
    For
          the
                 documentation
                                of
                                      the
                                            arguments,
                                                         please
                                                                  see
                                                                        telegram.Bot.
    set_chat_administrator_custom_title().
        Returns On success, True is returned.
        Return type bool
set_menu_button (menu_button=None, timeout=None, api_kwargs=None)
    Shortcut for:
    bot.set_chat_menu_button(chat_id=update.effective_chat.id, *args, **kwargs)
    For
          the
                 documentation
                                of
                                      the
                                            arguments,
                                                         please
                                                                  see
                                                                        telegram.Bot.
    set chat menu button().
      Caution: Can only work, if the chat is a private chat.
    ..seealso:: get menu button()
    New in version 13.12.
        Returns On success, True is returned.
        Return type bool
set_permissions (permissions, timeout=None, api_kwargs=None)
    Shortcut for:
    bot.set_chat_permissions(update.effective_chat.id, *args, **kwargs)
    For
          the
                 documentation
                                 of
                                      the
                                            arguments,
                                                         please
                                                                  see
                                                                         telegram.Bot.
    set_chat_permissions().
        Returns On success, True is returned.
        Return type bool
unban_chat (chat_id, timeout=None, api_kwargs=None)
    Shortcut for:
    bot.unban_chat_sender_chat(sender_chat_id=update.effective_chat.id, *args,_
     →**kwargs)
```

caption=None,

ply_to_message_id=None, reply_markup=None, timeout=20, parse_mode=None, api_kwargs=None, allow_sending_without_reply=None, caption_entities=None,

disable_notification=None,

For the documentation of the arguments, please see $telegram.Bot.unban_chat_sender_chat()$.

New in version 13.9.

Returns On success, True is returned.

Return type bool

unban_member (user_id, timeout=None, api_kwargs=None, only_if_banned=None)

Shortcut for:

```
bot.unban_chat_member(update.effective_chat.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.unban_chat_member().

Returns On success, True is returned.

Return type bool

unban_sender_chat (sender_chat_id, timeout=None, api_kwargs=None)

Shortcut for:

For the documentation of the arguments, please see $telegram.Bot.unban_chat_sender_chat()$.

New in version 13.9.

Returns On success, True is returned.

Return type bool

unpin_all_messages (timeout=None, api_kwargs=None)

Shortcut for:

For the documentation of the arguments, please see telegram. Bot. $unpin_all_chat_messages()$.

Returns On success, True is returned.

Return type bool

unpin_message (timeout=None, api_kwargs=None, message_id=None)

Shortcut for:

For the documentation of the arguments, please see telegram.Bot.unpin_chat_message().

Returns On success, True is returned.

Return type bool

3.2.15 telegram.ChatAdministratorRights

Bases: telegram.base.TelegramObject

Represents the rights of an administrator in a chat. Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their <code>is_anonymous</code>, <code>can_manage_chat</code>, <code>can_delete_messages</code>, <code>can_manage_video_chats</code>, <code>can_restrict_members</code>, <code>can_promote_members</code>, <code>can_change_info</code>, <code>can_invite_users</code>, <code>can_post_messages</code>, <code>can_edit_messages</code>, <code>can_pin_messages</code> are equal.

New in version 13.12.

Parameters

- is_anonymous (bool) True, if the user's presence in the chat is hidden.
- can_manage_chat (bool) True, if the administrator can access the chat event log, chat statistics, message statistics in channels, see channel members, see anonymous administrators in supergroups and ignore slow mode. Implied by any other administrator privilege.
- can_delete_messages (bool) True, if the administrator can delete messages of other users.
- can_manage_video_chats (bool) True, if the administrator can manage video chats.
- can_restrict_members (bool) True, if the administrator can restrict, ban or unban chat members.
- can_promote_members (bool) True, if the administrator can add new administrators with a subset of their own privileges or demote administrators that he has promoted, directly or indirectly (promoted by administrators that were appointed by the user.)
- can_change_info (bool) True, if the user is allowed to change the chat title, photo and other settings.
- can_invite_users (bool) True, if the user is allowed to invite new users to the chat.
- can_post_messages (bool, optional) True, if the administrator can post messages in the channel; channels only.
- can_edit_messages (bool, optional) True, if the administrator can edit messages of other users.
- can_pin_messages (bool, optional) True, if the user is allowed to pin messages; groups and supergroups only.

is_anonymous

True, if the user's presence in the chat is hidden.

Type bool

can manage chat

True, if the administrator can access the chat event log, chat statistics, message statistics in channels, see channel members, see anonymous administrators in supergroups and ignore slow mode. Implied by any other administrator privilege.

Type bool

can_delete_messages

True, if the administrator can delete messages of other users.

Type bool

can_manage_video_chats

True, if the administrator can manage video chats.

Type bool

can restrict members

True, if the administrator can restrict, ban or unban chat members.

Type bool

can_promote_members

True, if the administrator can add new administrators with a subset of their own privileges or demote administrators that he has promoted, directly or indirectly (promoted by administrators that were appointed by the user.)

Type bool

can_change_info

True, if the user is allowed to change the chat title ,photo and other settings.

Type bool

can invite users

True, if the user is allowed to invite new users to the chat.

Type bool

can_post_messages

Optional. True, if the administrator can post messages in the channel; channels only.

Type bool

can_edit_messages

Optional. True, if the administrator can edit messages of other users.

Type bool

can_pin_messages

Optional. True, if the user is allowed to pin messages; groups and supergroups only.

Type bool

${\tt classmethod\ all_rights}\,(\,)$

This method returns the ChatAdministratorRights object with all attributes set to True. This is e.g. useful when changing the bot's default administrator rights with telegram.Bot.set_my_default_administrator_rights().

classmethod no_rights()

This method returns the ${\it ChatAdministratorRights}$ object with all attributes set to False.

3.2.16 telegram.ChatAction

```
class telegram.ChatAction
    Bases: object
    Helper class to provide constants for different chat actions.
    CHOOSE_STICKER: ClassVar[str] = 'choose_sticker'
        telegram.constants.CHOOSE STICKER
        New in version 13.8.
    FIND_LOCATION: ClassVar[str] = 'find_location'
        telegram.constants.CHATACTION_FIND_LOCATION
    RECORD_AUDIO: ClassVar[str] = 'record_audio'
        telegram.constants.CHATACTION_RECORD_AUDIO
        Deprecated since version 13.5: Deprecated by Telegram. Use RECORD VOICE instead.
    RECORD_VIDEO: ClassVar[str] = 'record_video'
        telegram.constants.CHATACTION_RECORD_VIDEO
    RECORD_VIDEO_NOTE: ClassVar[str] = 'record_video_note'
        telegram.constants.CHATACTION_RECORD_VIDEO_NOTE
    RECORD VOICE: ClassVar[str] = 'record voice'
        telegram.constants.CHATACTION_RECORD_VOICE
        New in version 13.5.
    TYPING: ClassVar[str] = 'typing'
        telegram.constants.CHATACTION_TYPING
    UPLOAD_AUDIO: ClassVar[str] = 'upload_audio'
        telegram.constants.CHATACTION_UPLOAD_AUDIO
        Deprecated since version 13.5: Deprecated by Telegram. Use UPLOAD_VOICE instead.
    UPLOAD_DOCUMENT: ClassVar[str] = 'upload_document'
        telegram.constants.CHATACTION_UPLOAD_DOCUMENT
    UPLOAD_PHOTO: ClassVar[str] = 'upload_photo'
        telegram.constants.CHATACTION_UPLOAD_PHOTO
    UPLOAD VIDEO: ClassVar[str] = 'upload video'
        telegram.constants.CHATACTION_UPLOAD_VIDEO
    UPLOAD_VIDEO_NOTE: ClassVar[str] = 'upload_video_note'
        telegram.constants.CHATACTION_UPLOAD_VIDEO_NOTE
    UPLOAD_VOICE: ClassVar[str] = 'upload_voice'
        telegram.constants.CHATACTION_UPLOAD_VOICE
        New in version 13.5.
```

3.2.17 telegram.ChatInviteLink

Bases: telegram.base.TelegramObject

This object represents an invite link for a chat.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their <code>invite_link</code>, <code>creator</code>, <code>is_primary</code> and <code>is_revoked</code> are equal.

New in version 13.4.

Parameters

- invite_link (str) The invite link.
- creator (telegram. User) Creator of the link.
- is_primary (bool) True, if the link is primary.
- is_revoked (bool) True, if the link is revoked.
- **expire_date** (datetime.datetime, optional) Date when the link will expire or has been expired.
- member_limit (int, optional) Maximum number of users that can be members of the chat simultaneously after joining the chat via this invite link; 1-99999.
- name (str, optional) Invite link name.

New in version 13.8.

• **creates_join_request** (bool, optional) – True, if users joining the chat via the link need to be approved by chat administrators.

New in version 13.8.

• **pending_join_request_count** (int, optional) – Number of pending join requests created using this link.

New in version 13.8.

invite_link

The invite link. If the link was created by another chat administrator, then the second part of the link will be replaced with '...'.

Type str

creator

Creator of the link.

Type telegram.User

is_primary

True, if the link is primary.

Type bool

is revoked

True, if the link is revoked.

Type bool

expire_date

Optional. Date when the link will expire or has been expired.

Type datetime.datetime

member limit

Optional. Maximum number of users that can be members of the chat simultaneously after joining the chat via this invite link; 1-99999.

Type int

name

Optional. Invite link name.

New in version 13.8.

Type str

creates_join_request

Optional. True, if users joining the chat via the link need to be approved by chat administrators.

New in version 13.8.

Type bool

pending_join_request_count

Optional. Number of pending join requests created using this link.

New in version 13.8.

Type int

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

to_dict()

See telegram. TelegramObject.to_dict().

3.2.18 telegram.ChatJoinRequest

Bases: telegram.base.TelegramObject

This object represents a join request sent to a chat.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their chat, from_user and date are equal.

Note: Since Bot API 5.5, bots are allowed to contact users who sent a join request to a chat where the bot is an administrator with the *can_invite_users* administrator right – even if the user never interacted with the bot before.

New in version 13.8.

Parameters

- **chat** (telegram.Chat) Chat to which the request was sent.
- from_user (telegram.User) User that sent the join request.
- date (datetime.datetime) Date the request was sent.
- bio (str, optional) Bio of the user.
- invite_link (telegram.ChatInviteLink, optional) Chat invite link that was used by the user to send the join request.
- **bot** (telegram.Bot, optional) The Bot to use for instance methods.

chat

Chat to which the request was sent.

```
Type telegram.Chat
```

from_user

User that sent the join request.

```
Type telegram. User
```

date

Date the request was sent.

Type datetime.datetime

bio

Optional. Bio of the user.

Type str

invite link

Optional. Chat invite link that was used by the user to send the join request.

Type telegram. ChatInviteLink

approve (timeout=None, api_kwargs=None)

Shortcut for:

```
bot.approve_chat_join_request(chat_id=update.effective_chat.id,
user_id=update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot. approve_chat_join_request().

Returns On success, True is returned.

Return type bool

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

decline(timeout=None, api_kwargs=None)

Shortcut for:

```
bot.decline_chat_join_request(chat_id=update.effective_chat.id,
user_id=update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see $telegram.Bot.decline_chat_join_request()$.

Returns On success, True is returned.

Return type bool

to_dict()

See telegram. TelegramObject.to_dict().

3.2.19 telegram.ChatLocation

```
class telegram.ChatLocation(location, address, **_kwargs)
```

Bases: telegram.base.TelegramObject

This object represents a location to which a chat is connected.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their location is equal.

Parameters

- **location** (telegram.Location) The location to which the supergroup is connected. Can't be a live location.
- address (str) Location address; 1-64 characters, as defined by the chat owner
- **kwargs (dict) Arbitrary keyword arguments.

location

The location to which the supergroup is connected.

Type telegram.Location

address

Location address, as defined by the chat owner

Type str

```
classmethod de_json(data, bot)
```

See telegram. TelegramObject.de_json().

3.2.20 telegram.ChatMember

class telegram.ChatMember(user, status, until_date=None, *can_be_edited=None*, can_change_info=None, can_post_messages=None, can edit messages=None, can delete messages=None, can_restrict_members=None, can_invite_users=None, can_pin_messages=None, can_promote_members=None, can_send_messages=None, can_send_media_messages=None, can_send_polls=None, can send other messages=None, can_add_web_page_previews=None, is_member=None, tom_title=None, is_anonymous=None, can_manage_chat=None, can_manage_voice_chats=None, can_manage_video_chats=None,

Bases: telegram.base.TelegramObject

Base class for Telegram ChatMember Objects. Currently, the following 6 types of chat members are supported:

- telegram.ChatMemberOwner
- telegram.ChatMemberAdministrator
- telegram.ChatMemberMember
- telegram.ChatMemberRestricted
- telegram.ChatMemberLeft
- telegram.ChatMemberBanned

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their user and status are equal.

Note: As of Bot API 5.3, ChatMember is nothing but the base class for the subclasses listed above and is no longer returned directly by get_chat(). Therefore, most of the arguments and attributes were deprecated and you should no longer use ChatMember directly.

Parameters

- **user** (*telegram.User*) Information about the user.
- **status** (str) The member's status in the chat. Can be ADMINISTRATOR, CREATOR, KICKED, LEFT, MEMBER or RESTRICTED.
- custom_title (str, optional) Owner and administrators only. Custom title for this user.

Deprecated since version 13.7.

• **is_anonymous** (bool, optional) – Owner and administrators only. True, if the user's presence in the chat is hidden.

Deprecated since version 13.7.

• until_date (datetime.datetime, optional) - Restricted and kicked only. Date when restrictions will be lifted for this user.

Deprecated since version 13.7.

• can_be_edited (bool, optional) – Administrators only. True, if the bot is allowed to edit administrator privileges of that user.

Deprecated since version 13.7.

• can_manage_chat (bool, optional) – Administrators only. True, if the administrator can access the chat event log, chat statistics, message statistics in channels, see channel members, see anonymous administrators in supergroups and ignore slow mode. Implied by any other administrator privilege.

New in version 13.4.

Deprecated since version 13.7.

• can_manage_voice_chats (bool, optional) – Administrators only. True, if the administrator can manage voice chats.

New in version 13.4.

Deprecated since version 13.7.

• can_change_info (bool, optional) – Administrators and restricted only. True, if the user can change the chat title, photo and other settings.

Deprecated since version 13.7.

• can_post_messages (bool, optional) – Administrators only. True, if the administrator can post in the channel, channels only.

Deprecated since version 13.7.

• can_edit_messages (bool, optional) – Administrators only. True, if the administrator can edit messages of other users and can pin messages; channels only.

Deprecated since version 13.7.

• can_delete_messages (bool, optional) – Administrators only. True, if the administrator can delete messages of other users.

Deprecated since version 13.7.

• **can_invite_users** (bool, optional) – Administrators and restricted only. True, if the user can invite new users to the chat.

Deprecated since version 13.7.

• can_restrict_members (bool, optional) – Administrators only. True, if the administrator can restrict, ban or unban chat members.

Deprecated since version 13.7.

• can_pin_messages (bool, optional) – Administrators and restricted only. True, if the user can pin messages, groups and supergroups only.

Deprecated since version 13.7.

• can_promote_members (bool, optional) – Administrators only. True, if the administrator can add new administrators with a subset of his own privileges or demote administrators that he has promoted, directly or indirectly (promoted by administrators that were appointed by the user).

Deprecated since version 13.7.

• **is_member** (bool, optional) – Restricted only. True, if the user is a member of the chat at the moment of the request.

Deprecated since version 13.7.

• can_send_messages (bool, optional) – Restricted only. True, if the user can send text messages, contacts, locations and venues.

Deprecated since version 13.7.

• can_send_media_messages (bool, optional) – Restricted only. True, if the user can send audios, documents, photos, videos, video notes and voice notes.

Deprecated since version 13.7.

• can_send_polls (bool, optional) – Restricted only. True, if the user is allowed to send polls.

Deprecated since version 13.7.

• can_send_other_messages (bool, optional) – Restricted only. True, if the user can send animations, games, stickers and use inline bots.

Deprecated since version 13.7.

• can_add_web_page_previews (bool, optional) – Restricted only. True, if user may add web page previews to his messages.

Deprecated since version 13.7.

user

Information about the user.

```
Type telegram. User
```

status

The member's status in the chat.

Type str

custom_title

Optional. Custom title for owner and administrators.

Deprecated since version 13.7.

Type str

is_anonymous

Optional. True, if the user's presence in the chat is hidden.

Deprecated since version 13.7.

Type bool

until_date

Optional. Date when restrictions will be lifted for this user.

Deprecated since version 13.7.

Type datetime.datetime

can_be_edited

Optional. If the bot is allowed to edit administrator privileges of that user.

Deprecated since version 13.7.

Type bool

can_manage_chat

Optional. If the administrator can access the chat event log, chat statistics, message statistics in channels, see channel members, see anonymous administrators in supergroups and ignore slow mode.

New in version 13.4.

Deprecated since version 13.7.

Type bool

can_manage_voice_chats

Optional. if the administrator can manage voice chats.

New in version 13.4.

Deprecated since version 13.7.

Type bool

can_change_info

Optional. If the user can change the chat title, photo and other settings.

Deprecated since version 13.7.

Type bool

can_post_messages

Optional. If the administrator can post in the channel.

Deprecated since version 13.7.

Type bool

can_edit_messages

Optional. If the administrator can edit messages of other users.

Deprecated since version 13.7.

Type bool

can_delete_messages

Optional. If the administrator can delete messages of other users.

Deprecated since version 13.7.

Type bool

can_invite_users

Optional. If the user can invite new users to the chat.

Deprecated since version 13.7.

Type bool

can_restrict_members

Optional. If the administrator can restrict, ban or unban chat members.

Deprecated since version 13.7.

Type bool

can_pin_messages

Optional. If the user can pin messages.

Deprecated since version 13.7.

Type bool

can_promote_members

Optional. If the administrator can add new administrators.

Deprecated since version 13.7.

Type bool

is_member

Optional. Restricted only. True, if the user is a member of the chat at the moment of the request.

Deprecated since version 13.7.

Type bool

can_send_messages

Optional. If the user can send text messages, contacts, locations and venues.

Deprecated since version 13.7.

Type bool

can_send_media_messages

Optional. If the user can send media messages, implies can_send_messages.

Deprecated since version 13.7.

Type bool

can_send_polls

Optional. True, if the user is allowed to send polls.

Deprecated since version 13.7.

Type bool

can_send_other_messages

Optional. If the user can send animations, games, stickers and use inline bots, implies can_send_media_messages.

Deprecated since version 13.7.

Type bool

can_add_web_page_previews

Optional. If user may add web page previews to his messages, implies can_send_media_messages

Deprecated since version 13.7.

Type bool

ADMINISTRATOR: ClassVar[str] = 'administrator'

telegram.constants.CHATMEMBER_ADMINISTRATOR

CREATOR: ClassVar[str] = 'creator'

telegram.constants.CHATMEMBER_CREATOR

KICKED: ClassVar[str] = 'kicked'

 $telegram.constants.CHATMEMBER_KICKED$

LEFT: ClassVar[str] = 'left'

telegram.constants.CHATMEMBER_LEFT

MEMBER: ClassVar[str] = 'member'

 $telegram.constants.CHATMEMBER_{MEMBER}$

RESTRICTED: ClassVar[str] = 'restricted'

telegram.constants.CHATMEMBER_RESTRICTED

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

to_dict()

See telegram. TelegramObject.to_dict().

3.2.21 telegram.ChatMemberOwner

```
class telegram.ChatMemberOwner(user, custom_title=None, is_anonymous=None,
```

** kwargs)

Bases: telegram.chatmember.ChatMember

Represents a chat member that owns the chat and has all administrator privileges.

New in version 13.7.

Parameters

- user (telegram. User) Information about the user.
- custom_title (str, optional) Custom title for this user.
- is_anonymous (bool, optional) True, if the user's presence in the chat is hidden.

status

The member's status in the chat, always telegram. ChatMember. CREATOR.

Type str

user

Information about the user.

Type telegram. User

custom title

Optional. Custom title for this user.

Type str

is_anonymous

Optional. True, if the user's presence in the chat is hidden.

Type bool

3.2.22 telegram.ChatMemberAdministrator

class telegram.ChatMemberAdministrator(user, can_be_edited=None, custom_title=None,

is_anonymous=None, can_manage_chat=None, can_post_messages=None, can_edit_messages=None, can_delete_messages=None, can_manage_voice_chats=None, can_restrict_members=None, can_promote_members=None, can_change_info=None, can_invite_users=None, can_pin_messages=None, can_manage_video_chats=None, **_kwargs)

Bases: telegram.chatmember.ChatMember

Represents a chat member that has some additional privileges.

New in version 13.7.

Changed in version 13.12: Since Bot API 6.0, voice chat was renamed to video chat.

Parameters

- user (telegram. User) Information about the user.
- can_be_edited (bool, optional) True, if the bot is allowed to edit administrator privileges of that user.
- **custom_title** (str, optional) Custom title for this user.
- $is_anonymous$ (bool, optional) True, if the user's presence in the chat is hidden.
- can_manage_chat (bool, optional) True, if the administrator can access the chat event log, chat statistics, message statistics in channels, see channel members, see anonymous administrators in supergroups and ignore slow mode. Implied by any other administrator privilege.
- can_post_messages (bool, optional) True, if the administrator can post in the channel, channels only.
- can_edit_messages (bool, optional) True, if the administrator can edit messages of other users and can pin messages; channels only.
- can_delete_messages (bool, optional) True, if the administrator can delete messages of other users.

• can_manage_voice_chats (bool, optional) - True, if the administrator can manage voice chats.

Deprecated since version 13.12.

 can_manage_video_chats (bool) - True, if the administrator can manage video chats.

New in version 13.12.

- can_restrict_members (bool, optional) True, if the administrator can restrict, ban or unban chat members.
- can_promote_members (bool, optional) True, if the administrator can add new administrators with a subset of his own privileges or demote administrators that he has promoted, directly or indirectly (promoted by administrators that were appointed by the user).
- can_change_info (bool, optional) True, if the user can change the chat title, photo and other settings.
- can_invite_users (bool, optional) True, if the user can invite new users to the chat.
- can_pin_messages (bool, optional) True, if the user is allowed to pin messages; groups and supergroups only.

status

The member's status in the chat, always telegram. ChatMember. ADMINISTRATOR.

```
Type str
```

user

Information about the user.

```
Type telegram. User
```

can_be_edited

Optional. True, if the bot is allowed to edit administrator privileges of that user.

```
Type bool
```

custom title

Optional. Custom title for this user.

```
Type str
```

is_anonymous

Optional. True, if the user's presence in the chat is hidden.

```
Type bool
```

can_manage_chat

Optional. True, if the administrator can access the chat event log, chat statistics, message statistics in channels, see channel members, see anonymous administrators in supergroups and ignore slow mode. Implied by any other administrator privilege.

Type bool

can_post_messages

Optional. True, if the administrator can post in the channel, channels only.

Type bool

can_edit_messages

Optional. True, if the administrator can edit messages of other users and can pin messages; channels only.

Type bool

can_delete_messages

Optional. True, if the administrator can delete messages of other users.

Type bool

can_manage_voice_chats

Optional. True, if the administrator can manage voice chats.

Deprecated since version 13.12: contains the same value as <code>can_manage_video_chats</code> for backwards compatibility.

Type bool

can_manage_video_chats

True, if the administrator can manage video chats.

New in version 13.12.

Type bool

can_restrict_members

Optional. True, if the administrator can restrict, ban or unban chat members.

Type bool

can_promote_members

Optional. True, if the administrator can add new administrators with a subset of his own privileges or demote administrators that he has promoted, directly or indirectly (promoted by administrators that were appointed by the user).

Type bool

can_change_info

Optional. True, if the user can change the chat title, photo and other settings.

Type bool

can_invite_users

Optional. True, if the user can invite new users to the chat.

Type bool

can_pin_messages

Optional. True, if the user is allowed to pin messages; groups and supergroups only.

Type bool

3.2.23 telegram.ChatMemberMember

```
class telegram.ChatMemberMember(user, **_kwargs)
```

Bases: telegram.chatmember.ChatMember

Represents a chat member that has no additional privileges or restrictions.

New in version 13.7.

Parameters user (telegram. User) – Information about the user.

status

The member's status in the chat, always telegram. ChatMember. MEMBER.

Type str

user

Information about the user.

Type telegram. User

3.2.24 telegram.ChatMemberRestricted

Bases: telegram.chatmember.ChatMember

Represents a chat member that is under certain restrictions in the chat. Supergroups only.

New in version 13.7.

Parameters

- user (telegram. User) Information about the user.
- **is_member** (bool, optional) True, if the user is a member of the chat at the moment of the request.
- can_change_info (bool, optional) True, if the user can change the chat title, photo and other settings.
- can_invite_users (bool, optional) True, if the user can invite new users to the chat.
- can_pin_messages (bool, optional) True, if the user is allowed to pin messages; groups and supergroups only.
- can_send_messages (bool, optional) True, if the user is allowed to send text messages, contacts, locations and venues.
- can_send_media_messages (bool, optional) True, if the user is allowed to send audios, documents, photos, videos, video notes and voice notes.
- can_send_polls (bool, optional) True, if the user is allowed to send polls.
- can_send_other_messages (bool, optional) True, if the user is allowed to send animations, games, stickers and use inline bots.
- can_add_web_page_previews (bool, optional) True, if the user is allowed to add web page previews to their messages.
- until_date (datetime.datetime, optional) Date when restrictions will be lifted for this user.

status

The member's status in the chat, always telegram. ChatMember. RESTRICTED.

```
Type str
```

user

Information about the user.

```
Type telegram. User
```

is member

Optional. True, if the user is a member of the chat at the moment of the request.

Type bool

can_change_info

Optional. True, if the user can change the chat title, photo and other settings.

Type bool

can_invite_users

Optional. True, if the user can invite new users to the chat.

Type bool

can_pin_messages

Optional. True, if the user is allowed to pin messages; groups and supergroups only.

Type bool

can_send_messages

Optional. True, if the user is allowed to send text messages, contacts, locations and venues.

Type bool

can_send_media_messages

Optional. True, if the user is allowed to send audios, documents, photos, videos, video notes and voice notes.

Type bool

can_send_polls

Optional. True, if the user is allowed to send polls.

Type bool

can_send_other_messages

Optional. True, if the user is allowed to send animations, games, stickers and use inline bots.

Type bool

can_add_web_page_previews

Optional. True, if the user is allowed to add web page previews to their messages.

Type bool

until date

Optional. Date when restrictions will be lifted for this user.

Type datetime.datetime

3.2.25 telegram.ChatMemberLeft

```
class telegram.ChatMemberLeft (user, **_kwargs)
```

Bases: telegram.chatmember.ChatMember

Represents a chat member that isn't currently a member of the chat, but may join it themselves.

New in version 13.7.

Parameters user (telegram. User) - Information about the user.

status

The member's status in the chat, always telegram. ChatMember. LEFT.

Type str

user

Information about the user.

Type telegram. User

3.2.26 telegram.ChatMemberBanned

```
class telegram.ChatMemberBanned(user, until_date=None, **_kwargs)
```

Bases: telegram.chatmember.ChatMember

Represents a chat member that was banned in the chat and can't return to the chat or view chat messages.

New in version 13.7.

Parameters

- user (telegram. User) Information about the user.
- until_date (datetime.datetime, optional) Date when restrictions will be lifted for this user.

status

The member's status in the chat, always telegram. ChatMember. KICKED.

```
Type str
```

user

Information about the user.

```
Type telegram. User
```

until date

Optional. Date when restrictions will be lifted for this user.

Type datetime.datetime

3.2.27 telegram.ChatMemberUpdated

This object represents changes in the status of a chat member.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their chat, from user, date, old chat member and new chat member are equal.

New in version 13.4.

Note: In Python from is a reserved word, use from_user instead.

Parameters

- chat (telegram. Chat) Chat the user belongs to.
- **from_user** (telegram.User) Performer of the action, which resulted in the change.
- date (datetime.datetime) Date the change was done in Unix time. Converted to datetime.datetime.
- old_chat_member (telegram.ChatMember) Previous information about the chat member.
- new_chat_member (telegram.ChatMember) New information about the chat member.
- invite_link (telegram.ChatInviteLink, optional) Chat invite link, which was used by the user to join the chat. For joining by invite link events only.

chat

Chat the user belongs to.

Type telegram. Chat

from_user

Performer of the action, which resulted in the change.

Type telegram. User

date

Date the change was done in Unix time. Converted to datetime. datetime.

Type datetime.datetime

old_chat_member

Previous information about the chat member.

Type telegram.ChatMember

new_chat_member

New information about the chat member.

Type telegram.ChatMember

invite_link

Optional. Chat invite link, which was used by the user to join the chat.

Type telegram.ChatInviteLink

${\tt classmethod\ de_json}\,({\it data}, {\it bot})$

See telegram. TelegramObject.de_json().

difference()

Computes the difference between old_chat_member and new_chat_member.

Example

```
>>> chat_member_updated.difference()
{'custom_title': ('old title', 'new title')}
```

Note: To determine, if the telegram. ChatMember. user attribute has changed, every attribute of the user will be checked.

New in version 13.5.

Returns A dictionary mapping attribute names to tuples of the form (old_value, new_value)

Return type Dict[str, Tuple[obj, obj]]

to_dict()

See telegram. TelegramObject.to_dict().

3.2.28 telegram.ChatPermissions

 $Bases: \verb|telegram.base.TelegramObject| \\$

Describes actions that a non-administrator user is allowed to take in a chat.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their can_send_messages, can_send_media_messages, can_send_polls, can_send_other_messages, can_add_web_page_previews, can_change_info, can_invite_users and can_pin_messages are equal.

Note: Though not stated explicitly in the official docs, Telegram changes not only the permissions that are set, but also sets all the others to False. However, since not documented, this behaviour may change unbeknown to PTB.

Parameters

- can_send_messages (bool, optional) True, if the user is allowed to send text messages, contacts, locations and venues.
- can_send_media_messages (bool, optional) True, if the user is allowed to send audios, documents, photos, videos, video notes and voice notes, implies can_send_messages.
- can_send_polls (bool, optional) True, if the user is allowed to send polls, implies can_send_messages.
- can_send_other_messages (bool, optional) True, if the user is allowed to send animations, games, stickers and use inline bots, implies can_send_media_messages.
- can_add_web_page_previews (bool, optional) True, if the user is allowed to add web page previews to their messages, implies can_send_media_messages.
- can_change_info (bool, optional) True, if the user is allowed to change the chat title, photo and other settings. Ignored in public supergroups.
- can_invite_users (bool, optional) True, if the user is allowed to invite new
 users to the chat.
- can_pin_messages (bool, optional) True, if the user is allowed to pin messages. Ignored in public supergroups.

can send messages

Optional. True, if the user is allowed to send text messages, contacts, locations and venues.

Type bool

can_send_media_messages

Optional. True, if the user is allowed to send audios, documents, photos, videos, video notes and voice notes, implies <code>can_send_messages</code>.

Type bool

can_send_polls

Optional. True, if the user is allowed to send polls, implies can_send_messages.

Type bool

can_send_other_messages

Optional. True, if the user is allowed to send animations, games, stickers and use inline bots, implies can_send_media_messages.

Type bool

can_add_web_page_previews

Optional. True, if the user is allowed to add web page previews to their messages, implies can_send_media_messages.

Type bool

can_change_info

Optional. True, if the user is allowed to change the chat title, photo and other settings. Ignored in public supergroups.

Type bool

can_invite_users

Optional. True, if the user is allowed to invite new users to the chat.

Type bool

can_pin_messages

Optional. True, if the user is allowed to pin messages. Ignored in public supergroups.

Type bool

3.2.29 telegram.ChatPhoto

Bases: telegram.base.TelegramObject

This object represents a chat photo.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their small_file_unique_id and big_file_unique_id are equal.

Parameters

- **small_file_id** (str) Unique file identifier of small (160x160) chat photo. This file_id can be used only for photo download and only for as long as the photo is not changed.
- **small_file_unique_id** (str) Unique file identifier of small (160x160) chat photo, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.
- **big_file_id** (str) Unique file identifier of big (640x640) chat photo. This file_id can be used only for photo download and only for as long as the photo is not changed.
- **big_file_unique_id** (str) Unique file identifier of big (640x640) chat photo, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.
- bot (telegram. Bot, optional) The Bot to use for instance methods
- **kwargs (dict) Arbitrary keyword arguments.

small_file_id

File identifier of small (160x160) chat photo. This file_id can be used only for photo download and only for as long as the photo is not changed.

Type str

small_file_unique_id

Unique file identifier of small (160x160) chat photo, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.

```
Type str
```

big_file_id

File identifier of big (640x640) chat photo. This file_id can be used only for photo download and only for as long as the photo is not changed.

Type str

big_file_unique_id

Unique file identifier of big (640x640) chat photo, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.

Type str

get_big_file (timeout=None, api_kwargs=None)

Convenience wrapper over telegram. Bot. get_file for getting the big (640x640) chat photo

For the documentation of the arguments, please see telegram.Bot.get_file().

Returns telegram. File

Raises telegram.error.TelegramError -

get_small_file (timeout=None, api_kwargs=None)

Convenience wrapper over telegram. Bot. get_file for getting the small (160x160) chat photo

For the documentation of the arguments, please see telegram.Bot.get_file().

Returns telegram. File

Raises telegram.error.TelegramError -

3.2.30 telegram.constants Module

Constants in the Telegram network.

The following constants were extracted from the Telegram Bots FAQ and Telegram Bots API.

```
telegram.constants.BOT_API_VERSION
```

6.0. Telegram Bot API version supported by this version of *python-telegram-bot*. Also available as telegram.bot_api_version.

New in version 13.4.

Type str

telegram.constants. ${\tt MAX_MESSAGE_LENGTH}$ 4096

Type int

telegram.constants. ${\tt MAX_CAPTION_LENGTH}$ 1024

Type int

telegram.constants.**SUPPORTED_WEBHOOK_PORTS** [443, 80, 88, 8443]

Type List[int]

telegram.constants.MAX_FILESIZE_DOWNLOAD In bytes (20MB)

Type int

```
telegram.constants.MAX_FILESIZE_UPLOAD
     In bytes (50MB)
         Type int
telegram.constants.MAX_PHOTOSIZE_UPLOAD
    In bytes (10MB)
         Type int
telegram.constants.MAX_MESSAGES_PER_SECOND_PER_CHAT
     1. Telegram may allow short bursts that go over this limit, but eventually you'll begin receiving 429 errors.
         Type int
telegram.constants.MAX_MESSAGES_PER_SECOND
         Type int
telegram.constants.MAX_MESSAGES_PER_MINUTE_PER_GROUP
         Type int
telegram.constants.MAX_INLINE_QUERY_RESULTS
         Type int
telegram.constants.MAX_ANSWER_CALLBACK_QUERY_TEXT_LENGTH
     New in version 13.2.
         Type int
The following constant have been found by experimentation:
telegram.constants.MAX_MESSAGE_ENTITIES
     100 (Beyond this cap telegram will simply ignore further formatting styles)
         Type int
telegram.constants.ANONYMOUS_ADMIN_ID
     1087968824 (User id in groups for anonymous admin)
         Type int
telegram.constants.SERVICE_CHAT_ID
     777000 (Telegram service chat, that also acts as sender of channel posts forwarded to discussion groups)
         Type int
telegram.constants.FAKE_CHANNEL_ID
     136817688 (User id in groups when message is sent on behalf of a channel).
     New in version 13.9.
         Type int
The following constants are related to specific classes and are also available as attributes of those classes:
telegram. Chat:
telegram.constants.CHAT_PRIVATE
     'private'
         Type str
telegram.constants.CHAT_GROUP
     'group'
```

```
Type str
telegram.constants.CHAT_SUPERGROUP
    'supergroup'
        Type str
\verb|telegram.constants.CHAT_CHANNEL|
    'channel'
        Type str
telegram.constants.CHAT_SENDER
    'sender'. Only relevant for telegram. InlineQuery. chat type.
    New in version 13.5.
        Type str
telegram. ChatAction:
telegram.constants.CHATACTION_FIND_LOCATION
    'find_location'
        Type str
telegram.constants.CHATACTION_RECORD_AUDIO
    'record audio'
    Deprecated since version 13.5: Deprecated by Telegram. Use CHATACTION_RECORD_VOICE instead.
        Type str
telegram.constants.CHATACTION_RECORD_VOICE
    'record voice'
    New in version 13.5.
        Type str
telegram.constants.CHATACTION_RECORD_VIDEO
    'record_video'
        Type str
telegram.constants.CHATACTION_RECORD_VIDEO_NOTE
    'record_video_note'
        Type str
telegram.constants.CHATACTION_TYPING
    'typing'
        Type str
telegram.constants.CHATACTION_UPLOAD_AUDIO
    'upload_audio'
    Deprecated since version 13.5: Deprecated by Telegram. Use CHATACTION_UPLOAD_VOICE instead.
        Type str
telegram.constants.CHATACTION_UPLOAD_VOICE
    'upload_voice'
    New in version 13.5.
        Type str
telegram.constants.CHATACTION_UPLOAD_DOCUMENT
    'upload_document'
        Type str
```

```
telegram.constants.CHATACTION_CHOOSE_STICKER
    'choose_sticker'
    New in version 13.8.
        Type str
telegram.constants.CHATACTION_UPLOAD_PHOTO
    'upload_photo'
        Type str
telegram.constants.CHATACTION_UPLOAD_VIDEO
    'upload video'
        Type str
telegram.constants.CHATACTION_UPLOAD_VIDEO_NOTE
    'upload_video_note'
        Type str
telegram.ChatMember:
telegram.constants.CHATMEMBER_ADMINISTRATOR
    'administrator'
        Type str
telegram.constants.CHATMEMBER_CREATOR
    'creator'
        Type str
telegram.constants.CHATMEMBER_KICKED
    'kicked'
        Type str
telegram.constants.CHATMEMBER_LEFT
    'left'
        Type str
telegram.constants.CHATMEMBER_MEMBER
    'member'
        Type str
telegram.constants.CHATMEMBER_RESTRICTED
    'restricted'
        Type str
telegram.Dice:
telegram.constants.DICE_DICE
        Type str
telegram.constants.DICE_DARTS
        Type str
telegram.constants.DICE_BASKETBALL
    1 1
        Type str
telegram.constants.DICE_FOOTBALL
```

```
Type str
telegram.constants.DICE_SLOT_MACHINE
        Type str
telegram.constants.DICE_BOWLING
    New in version 13.4.
        Type str
telegram.constants.DICE_ALL_EMOJI
    List of all supported base emoji.
    Changed in version 13.4: Added DICE_BOWLING
        Type List[str]
telegram.MessageEntity:
telegram.constants.MESSAGEENTITY_MENTION
    'mention'
        Type str
telegram.constants.MESSAGEENTITY_HASHTAG
    'hashtag'
        Type str
telegram.constants.MESSAGEENTITY_CASHTAG
    'cashtag'
        Type str
telegram.constants.MESSAGEENTITY_PHONE_NUMBER
    'phone_number'
        Type str
telegram.constants.MESSAGEENTITY_BOT_COMMAND
    'bot_command'
        Type str
telegram.constants.MESSAGEENTITY_URL
    'url'
        Type str
telegram.constants.MESSAGEENTITY_EMAIL
    'email'
        Type str
telegram.constants.MESSAGEENTITY_BOLD
    'bold'
        Type str
telegram.constants.MESSAGEENTITY_ITALIC
    'italic'
        Type str
telegram.constants.MESSAGEENTITY_CODE
    'code'
        Type str
```

```
telegram.constants.MESSAGEENTITY_PRE
    'pre'
        Type str
telegram.constants.MESSAGEENTITY_TEXT_LINK
    'text link'
telegram.constants.MESSAGEENTITY_TEXT_MENTION
    'text_mention'
        Type str
telegram.constants.MESSAGEENTITY_UNDERLINE
    'underline'
        Type str
telegram.constants.MESSAGEENTITY_STRIKETHROUGH
    'strikethrough'
        Type str
telegram.constants.MESSAGEENTITY_SPOILER
    'spoiler'
    New in version 13.10.
        Type str
telegram.constants.MESSAGEENTITY_ALL_TYPES
    List of all the types of message entity.
        Type List[str]
telegram.ParseMode:
telegram.constants.PARSEMODE_MARKDOWN
    'Markdown'
        Type str
telegram.constants.PARSEMODE_MARKDOWN_V2
    'MarkdownV2'
        Type str
telegram.constants.PARSEMODE_HTML
    'HTML'
        Type str
telegram.Poll:
telegram.constants.POLL_REGULAR
    'regular'
        Type str
telegram.constants.POLL_QUIZ
    'quiz'
        Type str
telegram.constants.MAX_POLL_QUESTION_LENGTH
    300
        Type int
telegram.constants.MAX_POLL_OPTION_LENGTH
    100
```

```
Type int
telegram.MaskPosition:
telegram.constants.STICKER_FOREHEAD
    'forehead'
        Type str
telegram.constants.STICKER_EYES
    'eyes'
        Type str
telegram.constants.STICKER_MOUTH
    'mouth'
        Type str
telegram.constants.STICKER_CHIN
    'chin'
        Type str
telegram. Update:
telegram.constants.UPDATE_MESSAGE
    'message'
    New in version 13.5.
        Type str
telegram.constants.UPDATE EDITED MESSAGE
    'edited_message'
    New in version 13.5.
        Type str
telegram.constants.UPDATE_CHANNEL_POST
    'channel_post'
    New in version 13.5.
        Type str
telegram.constants.UPDATE_EDITED_CHANNEL_POST
    'edited_channel_post'
    New in version 13.5.
        Type str
telegram.constants.UPDATE_INLINE_QUERY
    'inline_query'
    New in version 13.5.
        Type str
telegram.constants.UPDATE_CHOSEN_INLINE_RESULT
    'chosen_inline_result'
    New in version 13.5.
        Type str
telegram.constants.UPDATE_CALLBACK_QUERY
    'callback_query'
    New in version 13.5.
        Type str
```

```
telegram.constants.UPDATE_SHIPPING_QUERY
     'shipping_query'
    New in version 13.5.
        Type str
telegram.constants.UPDATE_PRE_CHECKOUT_QUERY
     'pre_checkout_query'
    New in version 13.5.
        Type str
telegram.constants.UPDATE_POLL
     'poll'
    New in version 13.5.
        Type str
telegram.constants.UPDATE_POLL_ANSWER
     'poll_answer'
    New in version 13.5.
        Type str
telegram.constants.UPDATE_MY_CHAT_MEMBER
     'my_chat_member'
    New in version 13.5.
        Type str
telegram.constants.UPDATE_CHAT_MEMBER
     'chat_member'
    New in version 13.5.
        Type str
telegram.constants.UPDATE_CHAT_JOIN_REQUEST
     'chat_join_request'
    New in version 13.8.
         Type str
telegram.constants.UPDATE_ALL_TYPES
    List of all update types.
    New in version 13.5.
    Changed in version 13.8.
        Type List[str]
telegram.BotCommandScope:
telegram.constants.BOT_COMMAND_SCOPE_DEFAULT
     'default'
    ..versionadded:: 13.7
        Type str
telegram.constants.BOT_COMMAND_SCOPE_ALL_PRIVATE_CHATS
     'all_private_chats'
    ..versionadded:: 13.7
         Type str
```

```
telegram.constants.BOT_COMMAND_SCOPE_ALL_GROUP_CHATS
    'all_group_chats'
    ..versionadded:: 13.7
        Type str
telegram.constants.BOT_COMMAND_SCOPE_ALL_CHAT_ADMINISTRATORS
    'all_chat_administrators'
    ..versionadded:: 13.7
        Type str
telegram.constants.BOT_COMMAND_SCOPE_CHAT
    'chat'
    ..versionadded:: 13.7
        Type str
telegram.constants.BOT_COMMAND_SCOPE_CHAT_ADMINISTRATORS
    'chat_administrators'
    ..versionadded:: 13.7
        Type str
telegram.constants.BOT_COMMAND_SCOPE_CHAT_MEMBER
    'chat member'
    ..versionadded:: 13.7
        Type str
```

3.2.31 telegram.Contact

This object represents a phone contact.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their phone_number is equal.

Parameters

- phone_number (str) Contact's phone number.
- **first_name** (str) Contact's first name.
- last_name (str, optional) Contact's last name.
- user_id (int, optional) Contact's user identifier in Telegram.
- vcard (str, optional) Additional data about the contact in the form of a vCard.
- **kwargs (dict) Arbitrary keyword arguments.

phone_number

Contact's phone number.

Type str

$first_name$

Contact's first name.

Type str

```
last_name
```

Optional. Contact's last name.

Type str

user id

Optional. Contact's user identifier in Telegram.

Type int

vcard

Optional. Additional data about the contact in the form of a vCard.

Type str

3.2.32 telegram.Dice

```
class telegram.Dice(value, emoji, **_kwargs)
Bases: telegram.base.TelegramObject
```

This object represents an animated emoji with a random value for currently supported base emoji. (The singular form of "dice" is "die". However, PTB mimics the Telegram API, which uses the term "dice".)

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their value and emoji are equal.

Note: If *emoji* is "", a value of 6 currently represents a bullseye, while a value of 1 indicates that the dartboard was missed. However, this behaviour is undocumented and might be changed by Telegram.

If *emoji* is "", a value of 4 or 5 currently score a basket, while a value of 1 to 3 indicates that the basket was missed. However, this behaviour is undocumented and might be changed by Telegram.

If emoji is "", a value of 4 to 5 currently scores a goal, while a value of 1 to 3 indicates that the goal was missed. However, this behaviour is undocumented and might be changed by Telegram.

If *emoji* is "", a value of 6 knocks all the pins, while a value of 1 means all the pins were missed. However, this behaviour is undocumented and might be changed by Telegram.

If *emoji* is "", each value corresponds to a unique combination of symbols, which can be found at our wiki. However, this behaviour is undocumented and might be changed by Telegram.

Parameters

- **value** (int) Value of the dice. 1-6 for dice, darts and bowling balls, 1-5 for basket-ball and football/soccer ball, 1-64 for slot machine.
- **emoji** (str) Emoji on which the dice throw animation is based.

value

Value of the dice.

Type int

emoji

Emoji on which the dice throw animation is based.

```
Type str
```

```
ALL_EMOJI: ClassVar[List[str]] = ['', '', '', '', '', '']
    telegram.constants.DICE_ALL_EMOJI
```

```
BASKETBALL: ClassVar[str] = ''
```

telegram.constants.DICE BASKETBALL

```
BOWLING: ClassVar[str] = ''

telegram.constants.DICE_BOWLING

New in version 13.4.

DARTS: ClassVar[str] = ''

telegram.constants.DICE_DARTS

DICE: ClassVar[str] = ''

telegram.constants.DICE_DICE

FOOTBALL: ClassVar[str] = ''

telegram.constants.DICE_FOOTBALL

SLOT_MACHINE: ClassVar[str] = ''

telegram.constants.DICE_SLOT_MACHINE
```

3.2.33 telegram.Document

This object represents a general file (as opposed to photos, voice messages and audio files).

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their file_unique_id is equal.

Parameters

- **file_id** (str) Identifier for this file, which can be used to download or reuse the file.
- **file_unique_id** (str) Unique identifier for this file, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.
- **thumb** (*telegram.PhotoSize*, optional) Document thumbnail as defined by sender.
- file_name (str, optional) Original filename as defined by sender.
- mime_type (str, optional) MIME type of the file as defined by sender.
- file_size (int, optional) File size.
- **bot** (*telegram.Bot*, optional) The Bot to use for instance methods.
- **kwargs (dict) Arbitrary keyword arguments.

file_id

File identifier.

Type str

file_unique_id

Unique identifier for this file, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.

Type str

thumb

Optional. Document thumbnail.

 $\textbf{Type} \ \textit{telegram.PhotoSize}$

file_name

Original filename.

Type str

```
mime_type
         Optional. MIME type of the file.
             Type str
     file size
         Optional. File size.
             Type int
     bot
         Optional. The Bot to use for instance methods.
             Type telegram. Bot
     classmethod de_json(data, bot)
         See telegram. TelegramObject.de_json().
     get_file (timeout=None, api_kwargs=None)
         Convenience wrapper over telegram.Bot.get_file
         For the documentation of the arguments, please see telegram.Bot.get_file().
             Returns telegram. File
             Raises telegram.error.TelegramError -
3.2.34 telegram.error module
This module contains an object that represents Telegram errors.
exception telegram.error.BadRequest(message)
     Bases: telegram.error.NetworkError
     Raised when Telegram could not process the request correctly.
exception telegram.error.ChatMigrated(new_chat_id)
     Bases: telegram.error.TelegramError
     Raised when the requested group chat migrated to supergroup and has a new chat id.
         Parameters new_chat_id (int) - The new chat id of the group.
     new_chat_id
exception telegram.error.Conflict(message)
     Bases: telegram.error.TelegramError
     Raised when a long poll or webhook conflicts with another one.
exception telegram.error.InvalidToken
     Bases: telegram.error.TelegramError
     Raised when the token is invalid.
exception telegram.error.NetworkError(message)
     Bases: telegram.error.TelegramError
     Base class for exceptions due to networking errors.
exception telegram.error.RetryAfter(retry_after)
     Bases: telegram.error.TelegramError
     Raised when flood limits where exceeded.
         \textbf{Parameters retry\_after} \ (\texttt{int}) - Time \ in seconds, after \ which \ the \ bot \ can \ retry \ the \ request.
     retry_after
```

exception telegram.error.TelegramError(message)

Bases: Exception

Base class for Telegram errors.

message

exception telegram.error.TimedOut

Bases: telegram.error.NetworkError

Raised when a request took too long to finish.

exception telegram.error.Unauthorized(message)

Bases: telegram.error.TelegramError

Raised when the bot has not enough rights to perform the requested action.

3.2.35 telegram.File

Bases: telegram.base.TelegramObject

This object represents a file ready to be downloaded. The file can be downloaded with <code>download</code>. 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 <code>telegram.Bot.get_file()</code>.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their file_unique_id is equal.

Note:

- Maximum file size to download is 20 MB.
- If you obtain an instance of this class from telegram.PassportFile.get_file, then it will automatically be decrypted as it downloads when you call download().

Parameters

- **file_id** (str) Identifier for this file, which can be used to download or reuse the file.
- **file_unique_id** (str) Unique identifier for this file, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.
- file_size (int, optional) Optional. File size, if known.
- file_path (str, optional) File path. Use download to get the file.
- **bot** (telegram. Bot, optional) Bot to use with shortcut method.
- **kwargs (dict) Arbitrary keyword arguments.

file_id

Identifier for this file.

Type str

file_unique_id

Unique identifier for this file, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.

Type str

file size

Optional. File size.

Type str

file_path

Optional. File path. Use download to get the file.

Type str

download (custom_path=None, out=None, timeout=None)

Download this file. By default, the file is saved in the current working directory with its original filename as reported by Telegram. If the file has no filename, it the file ID will be used as filename. If a custom_path is supplied, it will be saved to that path instead. If out is defined, the file contents will be saved to that object using the out.write method.

Note:

- custom_path and out are mutually exclusive.
- If neither custom_path nor out is provided and file_path is the path of a local file (which is the case when a Bot API Server is running in local mode), this method will just return the path.

Parameters

- **custom_path** (str, optional) Custom path.
- out (io.BufferedWriter, optional) A file-like object. Must be opened for writing in binary mode, if applicable.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).

Returns The same object as out if specified. Otherwise, returns the filename downloaded to or the file path of the local file.

Return type strlio.BufferedWriter

Raises ValueError – If both custom_path and out are passed.

download_as_bytearray(buf=None)

Download this file and return it as a bytearray.

Parameters buf (bytearray, optional) – Extend the given bytearray with the downloaded data.

Returns The same object as buf if it was specified. Otherwise a newly allocated bytearray.

Return type bytearray

set_credentials (credentials)

Sets the passport credentials for the file.

Parameters credentials (telegram. FileCredentials) - The credentials.

3.2.36 telegram.ForceReply

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'). This can be extremely useful if you want to create user-friendly step-by-step interfaces without having to sacrifice privacy mode.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their selective is equal.

Parameters

- **selective** (bool, optional) Use this parameter if you want to force reply from specific users only. Targets:
- 1) Users that are @mentioned in the text of the telegram. Message object.
- 2) If the bot's message is a reply (has reply_to_message_id), sender of the original message.
- **input_field_placeholder** (str, optional) The placeholder to be shown in the input field when the reply is active; 1-64 characters.

New in version 13.7.

• **kwargs (dict) - Arbitrary keyword arguments.

force_reply

Shows reply interface to the user, as if they manually selected the bots message and tapped 'Reply'.

```
Type True
```

selective

Optional. Force reply from specific users only.

Type bool

input field placeholder

Optional. The placeholder shown in the input field when the reply is active.

New in version 13.7.

Type str

3.2.37 telegram.InlineKeyboardButton

 $Bases: \verb|telegram.base.TelegramObject| \\$

This object represents one button of an inline keyboard.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their text, url, login_url, callback_data, switch_inline_query, switch_inline_query_current_chat, callback_game and pay are equal.

Note:

• You must use exactly one of the optional fields. Mind that <code>callback_game</code> is not working as expected. Putting a game short name in it might, but is not guaranteed to work.

• If your bot allows for arbitrary callback data, in keyboards returned in a response from telegram, callback_data maybe be an instance of telegram.ext.InvalidCallbackData. This will be the case, if the data associated with the button was already deleted.

New in version 13.6.

• Since Bot API 5.5, it's now allowed to mention users by their ID in inline keyboards. This will only work in Telegram versions released after December 7, 2021. Older clients will display *unsupported message*.

Warning:

- If your bot allows your arbitrary callback data, buttons whose callback data is a non-hashable object will become unhashable. Trying to evaluate hash (button) will result in a TypeError. Changed in version 13.6.
- After Bot API 6.1, only HTTPS links will be allowed in login_url.

Parameters

- **text** (str) Label text on the button.
- url (str, optional) HTTP or tg:// url to be opened when the button is pressed. Links tg://user?id=<user_id> can be used to mention a user by their ID without using a username, if this is allowed by their privacy settings.

Changed in version 13.9: You can now mention a user using tg://user?id=<user_id>.

• login_url (telegram.LoginUrl, optional) – An HTTPS URL used to automatically authorize the user. Can be used as a replacement for the Telegram Login Widget.

Caution: Only HTTPS links are allowed after Bot API 6.1.

- callback_data (str | Any, optional) Data to be sent in a callback query to the bot when button is pressed, UTF-8 1-64 bytes. If the bot instance allows arbitrary callback data, anything can be passed.
- web_app (telegram.WebAppInfo, optional) Description of the Web App that will be launched when the user presses the button. The Web App will be able to send an arbitrary message on behalf of the user using the method answer_web_app_query(). Available only in private chats between a user and the bot.

New in version 13.12.

- switch_inline_query (str, 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. This offers an easy way for users to start using your bot in inline mode when they are currently in a private chat with it. Especially useful when combined with switch_pm* actions in this case the user will be automatically returned to the chat they switched from, skipping the chat selection screen.
- **switch_inline_query_current_chat** (str, 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. This offers a quick way for the user to open your bot in inline mode in the same chat good for selecting something from multiple options.

- callback_game (telegram.CallbackGame, optional) Description of the game that will be launched when the user presses the button. This type of button must always be the first button in the first row.
- pay (bool, optional) Specify True, to send a Pay button. This type of button must always be the *first* button in the first row and can only be used in invoice messages.
- **kwargs (dict) Arbitrary keyword arguments.

text

Label text on the button.

Type str

url

Optional. HTTP or tg:// url to be opened when the button is pressed. Links tg://user?id=<user_id> can be used to mention a user by their ID without using a username, if this is allowed by their privacy settings.

Changed in version 13.9: You can now mention a user using tg://user?id=<user_id>.

Type str

login_url

Optional. An HTTPS URL used to automatically authorize the user. Can be used as a replacement for the Telegram Login Widget.

Caution: Only HTTPS links are allowed after Bot API 6.1.

Type telegram.LoginUrl

callback data

Optional. Data to be sent in a callback query to the bot when button is pressed, UTF-8 1-64 bytes.

Type strlobject

web_app

Optional. Description of the Web App that will be launched when the user presses the button. The Web App will be able to send an arbitrary message on behalf of the user using the method <code>answer_web_app_query()</code>. Available only in private chats between a user and the bot.

New in version 13.12.

 $\textbf{Type} \ \textit{telegram.WebAppInfo}$

switch_inline_query

Optional. 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.

 $Type \ \mathop{\hbox{\rm str}}$

switch_inline_query_current_chat

Optional. Will insert the bot's username and the specified inline query in the current chat's input field. Can be empty, in which case just the bot's username will be inserted.

Type str

callback_game

Optional. Description of the game that will be launched when the user presses the button.

Type telegram. Callback Game

pay

Optional. Specify True, to send a Pay button.

Type bool

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

update_callback_data (callback_data)

Sets callback_data to the passed object. Intended to be used by telegram.ext. CallbackDataCache.

New in version 13.6.

Parameters callback_data (obj) - The new callback data.

3.2.38 telegram.InlineKeyboardMarkup

class telegram.InlineKeyboardMarkup(inline_keyboard, **_kwargs)

Bases: telegram.replymarkup.ReplyMarkup

This object represents an inline keyboard that appears right next to the message it belongs to.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their the size of <code>inline_keyboard</code> and all the buttons are equal.

Parameters

- **inline_keyboard** (List[List[telegram.InlineKeyboardButton]]) List of button rows, each represented by a list of InlineKeyboardButton objects.
- **kwargs (dict) Arbitrary keyword arguments.

inline_keyboard

List of button rows, each represented by a list of InlineKeyboardButton objects.

Type List[List[telegram.InlineKeyboardButton]]

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

classmethod from_button(button, **kwargs)

Shortcut for:

```
InlineKeyboardMarkup([[button]], **kwargs)
```

Return an InlineKeyboardMarkup from a single InlineKeyboardButton

Parameters

- button (telegram.InlineKeyboardButton) The button to use in the markup
- **kwargs (dict) Arbitrary keyword arguments.

classmethod from_column (button_column, **kwargs)

Shortcut for:

```
InlineKeyboardMarkup([[button] for button in button_column], **kwargs)
```

Return an InlineKeyboardMarkup from a single column of InlineKeyboardButtons

Parameters

- button_column (List[telegram.InlineKeyboardButton]) The button to use in the markup
- **kwarqs (dict) Arbitrary keyword arguments.

classmethod from_row (button_row, **kwargs)

Shortcut for:

```
InlineKeyboardMarkup([button_row], **kwargs)
```

Return an InlineKeyboardMarkup from a single row of InlineKeyboardButtons

Parameters

- button_row (List[telegram.InlineKeyboardButton]) The button to use in the markup
- **kwargs (dict) Arbitrary keyword arguments.

to_dict()

See telegram. TelegramObject.to_dict().

3.2.39 telegram.InputFile

```
class telegram.InputFile(obj, filename=None, attach=None)
    Bases: object
```

This object represents a Telegram InputFile.

Parameters

- **obj** (File handler | bytes) An open file descriptor or the files content as bytes.
- **filename** (str, optional) Filename for this InputFile.
- attach (bool, optional) Whether this should be send as one file or is part of a collection of files.

Raises TelegramError -

input_file_content

The binary content of the file to send.

```
Type bytes
```

filename

Optional. Filename for the file to be sent.

```
Type str
```

attach

Optional. Attach id for sending multiple files.

```
Type str
```

static is_image(stream)

Check if the content file is an image by analyzing its headers.

Parameters stream (bytes) – A byte stream representing the content of a file.

Returns The mime-type of an image, if the input is an image, or None else.

Return type str|None

to_dict()

See telegram. TelegramObject.to_dict().

3.2.40 telegram.InputMedia

```
class telegram.InputMedia
```

Bases: telegram.base.TelegramObject

Base class for Telegram InputMedia Objects.

See telegram. InputMediaAnimation, telegram. InputMediaAudio, telegram. InputMediaDocument, telegram. InputMediaPhoto and telegram. InputMediaVideo for detailed use.

to dict()

See telegram. TelegramObject.to_dict().

3.2.41 telegram.InputMediaAnimation

 $\begin{array}{c} \textbf{class} \ \ \textbf{telegram.InputMediaAnimation} \ (\textit{media}, \quad \textit{thumb=None}, \quad \textit{caption=None}, \\ \textit{parse_mode=None}, \textit{width=None}, \textit{height=None}, \textit{duration=None}, \textit{caption_entities=None}, \textit{filename=None}) \end{array}$

Bases: telegram.files.inputmedia.InputMedia

Represents an animation file (GIF or H.264/MPEG-4 AVC video without sound) to be sent.

Note: When using a *telegram*. Animation for the *media* attribute. It will take the width, height and duration from that video, unless otherwise specified with the optional arguments.

Parameters

• media (str|filelike object|bytes|pathlib.Path|telegram.Animation)

- File to send. Pass a file_id to send a file that exists on the Telegram servers (recommended), pass an HTTP URL for Telegram to get a file from the Internet. Lastly you can pass an existing telegram.Animation object to send.

Changed in version 13.2: Accept bytes as input.

• **filename** (str, optional) – Custom file name for the animation, when uploading a new file. Convenience parameter, useful e.g. when sending files generated by the tempfile module.

New in version 13.1.

• thumb (filelike object | bytes | pathlib.Path, optional) — Thumbnail of the file sent; can be ignored if thumbnail generation for the file is supported server-side. The thumbnail should be in JPEG format and less than 200 kB in size. A thumbnail's width and height should not exceed 320. Ignored if the file is not uploaded using multipart/form-data. Thumbnails can't be reused and can be only uploaded as a new file.

Changed in version 13.2: Accept bytes as input.

- **caption** (str, optional) Caption of the animation to be sent, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.
- **caption_entities** (List[telegram.MessageEntity], optional) List of special entities that appear in the caption, which can be specified instead of parse mode.
- width (int, optional) Animation width.
- height (int, optional) Animation height.

```
• duration (int, optional) – Animation duration.
```

type

animation.

Type str

media

Animation to send.

Type strltelegram.InputFile

caption

Optional. Caption of the document to be sent.

Type str

parse_mode

Optional. The parse mode to use for text formatting.

Type str

caption_entities

Optional. List of special entities that appear in the caption.

Type List[telegram.MessageEntity]

thumb

Optional. Thumbnail of the file to send.

Type telegram. InputFile

width

Optional. Animation width.

Type int

height

Optional. Animation height.

Type int

duration

Optional. Animation duration.

Type int

3.2.42 telegram.InputMediaAudio

Bases: telegram.files.inputmedia.InputMedia

Represents an audio file to be treated as music to be sent.

Note: When using a telegram. Audio for the media attribute. It will take the duration, performer and title from that video, unless otherwise specified with the optional arguments.

Parameters

• media (str|filelike object|bytes|pathlib.Path|telegram.Audio) - File to send. Pass a file_id to send a file that exists on the Telegram servers (recommended), pass an HTTP URL for Telegram to get a file from the Internet. Lastly you can pass an existing telegram.Audio object to send.

Changed in version 13.2: Accept bytes as input.

• **filename** (str, optional) - Custom file name for the audio, when uploading a new file. Convenience parameter, useful e.g. when sending files generated by the tempfile module.

New in version 13.1.

- **caption** (str, optional) Caption of the audio to be sent, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in the caption, which can be specified instead of parse_mode.
- duration (int) Duration of the audio in seconds as defined by sender.
- **performer** (str, optional) Performer of the audio as defined by sender or by audio tags.
- title (str, optional) Title of the audio as defined by sender or by audio tags.
- **thumb** (*filelike object* | bytes | pathlib.Path, optional) Thumbnail of the file sent; can be ignored if thumbnail generation for the file is supported server-side. The thumbnail should be in JPEG format and less than 200 kB in size. A thumbnail's width and height should not exceed 320. Ignored if the file is not uploaded using multipart/form-data. Thumbnails can't be reused and can be only uploaded as a new file.

Changed in version 13.2: Accept bytes as input.

type

audio.

Type str

media

Audio file to send.

Type str|telegram.InputFile

caption

Optional. Caption of the document to be sent.

Type str

parse_mode

Optional. The parse mode to use for text formatting.

Type str

caption_entities

Optional. List of special entities that appear in the caption.

Type List[telegram.MessageEntity]

duration

Duration of the audio in seconds.

Type int

performer

Optional. Performer of the audio as defined by sender or by audio tags.

Type str

title

Optional. Title of the audio as defined by sender or by audio tags.

Type str

thumb

Optional. Thumbnail of the file to send.

Type telegram. InputFile

3.2.43 telegram.InputMediaDocument

```
class telegram.InputMediaDocument (media, thumb=None, cap-
tion=None, parse_mode=None, dis-
able_content_type_detection=None, cap-
tion_entities=None, filename=None)
```

Bases: telegram.files.inputmedia.InputMedia

Represents a general file to be sent.

Parameters

media (str | filelike object | bytes | pathlib.Path | telegram.Document)
 File to send. Pass a file_id to send a file that exists on the Telegram servers (recommended), pass an HTTP URL for Telegram to get a file from the Internet. Lastly you can pass an existing telegram.Document object to send.

Changed in version 13.2: Accept bytes as input.

• **filename** (str, optional) – Custom file name for the document, when uploading a new file. Convenience parameter, useful e.g. when sending files generated by the tempfile module.

New in version 13.1.

- **caption** (str, optional) Caption of the document to be sent, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.
- **caption_entities** (List[telegram.MessageEntity], optional) List of special entities that appear in the caption, which can be specified instead of parse_mode.
- **thumb** (*filelike object* | bytes | pathlib.Path, optional) Thumbnail of the file sent; can be ignored if thumbnail generation for the file is supported server-side. The thumbnail should be in JPEG format and less than 200 kB in size. A thumbnail's width and height should not exceed 320. Ignored if the file is not uploaded using multipart/form-data. Thumbnails can't be reused and can be only uploaded as a new file.

Changed in version 13.2: Accept bytes as input.

• disable_content_type_detection (bool, optional) – Disables automatic server-side content type detection for files uploaded using multipart/form-data. Always true, if the document is sent as part of an album.

type

document.

Type str

media

File to send.

Type strltelegram.InputFile

caption

Optional. Caption of the document to be sent.

Type str

parse_mode

Optional. The parse mode to use for text formatting.

Type str

caption entities

Optional. List of special entities that appear in the caption.

Type List[telegram.MessageEntity]

thumb

Optional. Thumbnail of the file to send.

Type telegram. InputFile

disable_content_type_detection

Optional. Disables automatic server-side content type detection for files uploaded using multipart/form-data. Always true, if the document is sent as part of an album.

Type bool

3.2.44 telegram.InputMediaPhoto

class telegram.InputMediaPhoto(media, caption=None, parse_mode=None, caption entities=None, filename=None)

Bases: telegram.files.inputmedia.InputMedia

Represents a photo to be sent.

Parameters

• media (str|filelike object|bytes|pathlib.Path|telegram.PhotoSize)

- File to send. Pass a file_id to send a file that exists on the Telegram servers (recommended), pass an HTTP URL for Telegram to get a file from the Internet. Lastly you can pass an existing telegram.PhotoSize object to send.

Changed in version 13.2: Accept bytes as input.

• **filename** (str, optional) – Custom file name for the photo, when uploading a new file. Convenience parameter, useful e.g. when sending files generated by the tempfile module.

New in version 13.1.

- **caption** (str, optional) Caption of the photo to be sent, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in the caption, which can be specified instead of parse_mode.

type

photo.

Type str

media

Photo to send.

Type strltelegram. InputFile

caption

Optional. Caption of the document to be sent.

Type str

parse_mode

Optional. The parse mode to use for text formatting.

Type str

caption_entities

Optional. List of special entities that appear in the caption.

Type List[telegram.MessageEntity]

3.2.45 telegram.InputMediaVideo

class telegram.InputMediaVideo (media, caption=None, width=None, height=None, duration=None, supports_streaming=None, parse_mode=None,
thumb=None, caption_entities=None, filename=None)

 $Bases: \verb|telegram.files.inputmedia.InputMedia|\\$

Represents a video to be sent.

Note:

- When using a telegram. Video for the media attribute. It will take the width, height and duration from that video, unless otherwise specified with the optional arguments.
- thumb will be ignored for small video files, for which Telegram can easily generate thumb nails. However, this behaviour is undocumented and might be changed by Telegram.

Parameters

• media (str|filelike object|bytes|pathlib.Path|telegram.Video) - File to send. Pass a file_id to send a file that exists on the Telegram servers (recommended), pass an HTTP URL for Telegram to get a file from the Internet. Lastly you can pass an existing telegram.Video object to send.

Changed in version 13.2: Accept bytes as input.

• **filename** (str, optional) – Custom file name for the video, when uploading a new file. Convenience parameter, useful e.g. when sending files generated by the tempfile module.

New in version 13.1.

- **caption** (str, optional) Caption of the video to be sent, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram.ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in the caption, which can be specified instead of parse_mode.
- width (int, optional) Video width.
- height (int, optional) Video height.
- duration (int, optional) Video duration.
- **supports_streaming** (bool, optional) Pass True, if the uploaded video is suitable for streaming.

• **thumb** (*filelike object* | bytes | pathlib.Path, optional) — Thumbnail of the file sent; can be ignored if thumbnail generation for the file is supported server-side. The thumbnail should be in JPEG format and less than 200 kB in size. A thumbnail's width and height should not exceed 320. Ignored if the file is not uploaded using multipart/form-data. Thumbnails can't be reused and can be only uploaded as a new file.

Changed in version 13.2: Accept bytes as input.

```
type
```

video.

Type str

media

Video file to send.

Type strltelegram. InputFile

caption

Optional. Caption of the document to be sent.

Type str

parse_mode

Optional. The parse mode to use for text formatting.

Type str

caption_entities

Optional. List of special entities that appear in the caption.

Type List[telegram.MessageEntity]

width

Optional. Video width.

Type int

height

Optional. Video height.

Type int

duration

Optional. Video duration.

Type int

supports_streaming

Optional. Pass True, if the uploaded video is suitable for streaming.

Type bool

thumb

Optional. Thumbnail of the file to send.

Type telegram.InputFile

3.2.46 telegram.KeyboardButton

Bases: telegram.base.TelegramObject

This object represents one button of the reply keyboard. For simple text buttons String can be used instead of this object to specify text of the button.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their text, request_contact, request_location and request_poll are equal.

Note:

- Optional fields are mutually exclusive.
- request_contact and request_location options will only work in Telegram versions released after 9 April, 2016. Older clients will display unsupported message.
- request_poll option will only work in Telegram versions released after 23 January, 2020. Older clients will receive unsupported message.
- web_app option will only work in Telegram versions released after 16 April, 2022. Older clients will display unsupported message.

Parameters

- **text** (str) Text of the button. If none of the optional fields are used, it will be sent to the bot as a message when the button is pressed.
- request_contact (bool, 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** (bool, optional) If True, the user's current location will be sent when the button is pressed. Available in private chats only.
- request_pol1 (KeyboardButtonPollType, optional) If specified, the user will be asked to create a poll and send it to the bot when the button is pressed. Available in private chats only.
- web_app (WebAppInfo, optional) If specified, the described Web App will be launched when the button is pressed. The Web App will be able to send a Message. web_app_data service message. Available in private chats only.

New in version 13.12.

text

Text of the button.

Type str

request_contact

Optional. The user's phone number will be sent.

Type bool

request_location

Optional. The user's current location will be sent.

Type bool

request_poll

Optional. If the user should create a poll.

Type KeyboardButtonPollType

web_app

Optional. If the described Web App will be launched when the button is pressed.

New in version 13.12.

Type WebAppInfo

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

3.2.47 telegram.KeyboardButtonPollType

class telegram.KeyboardButtonPollType(type=None, **_kwargs)

Bases: telegram.base.TelegramObject

This object represents type of a poll, which is allowed to be created and sent when the corresponding button is pressed.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their type is equal.

type

Optional. If telegram.Poll.QUIZ is passed, the user will be allowed to create only polls in the quiz mode. If telegram.Poll.REGULAR is passed, only regular polls will be allowed. Otherwise, the user will be allowed to create a poll of any type.

Type str

3.2.48 telegram.Location

Bases: telegram.base.TelegramObject

This object represents a point on the map.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their longitute and latitude are equal.

Parameters

- longitude (float) Longitude as defined by sender.
- latitude (float) Latitude as defined by sender.
- horizontal_accuracy (float, optional) The radius of uncertainty for the location, measured in meters; 0-1500.
- live_period (int, optional) Time relative to the message sending date, during which the location can be updated, in seconds. For active live locations only.
- **heading** (int, optional) The direction in which user is moving, in degrees; 1-360. For active live locations only.
- **proximity_alert_radius** (int, optional) Maximum distance for proximity alerts about approaching another chat member, in meters. For sent live locations only.
- **kwargs (dict) Arbitrary keyword arguments.

longitude

Longitude as defined by sender.

Type float

latitude

Latitude as defined by sender.

Type float

horizontal_accuracy

Optional. The radius of uncertainty for the location, measured in meters.

Type float

live_period

Optional. Time relative to the message sending date, during which the location can be updated, in seconds. For active live locations only.

Type int

heading

Optional. The direction in which user is moving, in degrees. For active live locations only.

Type int

proximity_alert_radius

Optional. Maximum distance for proximity alerts about approaching another chat member, in meters. For sent live locations only.

Type int

3.2.49 telegram.LoginUrl

This object represents a parameter of the inline keyboard button used to automatically authorize a user. Serves as a great replacement for the Telegram Login Widget when the user is coming from Telegram. All the user needs to do is tap/click a button and confirm that they want to log in. Telegram apps support these buttons as of version 5.7.

Sample bot: @discussbot

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their url is equal.

Note: You must always check the hash of the received data to verify the authentication and the integrity of the data as described in Checking authorization

Parameters

- url (str) An HTTP URL to be opened with user authorization data added to the query string when the button is pressed. If the user refuses to provide authorization data, the original URL without information about the user will be opened. The data added is the same as described in Receiving authorization data
- **forward_text** (str, optional) New text of the button in forwarded messages.
- bot_username (str, optional) Username of a bot, which will be used for user authorization. See Setting up a bot for more details. If not specified, the current bot's username will be assumed. The url's domain must be the same as the domain linked with the bot. See Linking your domain to the bot for more details.
- request_write_access (bool, optional) Pass True to request the permission for your bot to send messages to the user.

url

An HTTP URL to be opened with user authorization data.

Type str

forward_text

Optional. New text of the button in forwarded messages.

```
Type str
```

bot username

Optional. Username of a bot, which will be used for user authorization.

```
Type str
```

request_write_access

Optional. Pass True to request the permission for your bot to send messages to the user.

```
Type bool
```

3.2.50 telegram.MenuButton

```
class telegram.MenuButton(type, **_kwargs)
Bases: telegram.base.TelegramObject
```

This object describes the bot's menu button in a private chat. It should be one of

- telegram.MenuButtonCommands
- telegram.MenuButtonWebApp
- telegram.MenuButtonDefault

If a menu button other than telegram. MenuButtonDefault is set for a private chat, then it is applied in the chat. Otherwise the default menu button is applied. By default, the menu button opens the list of bot commands.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their type is equal. For subclasses with additional attributes, the notion of equality is overridden.

New in version 13.12.

Parameters type (str) – Type of menu button that the instance represents.

type

Type of menu button that the instance represents.

```
Type str
```

```
COMMANDS: ClassVar[str] = 'commands'
```

telegram.constants.MENU_BUTTON_COMMANDS

```
DEFAULT: ClassVar[str] = 'default'
```

telegram.constants.MENU_BUTTON_DEFAULT

```
WEB_APP: ClassVar[str] = 'web_app'
```

telegram.constants.MENU_BUTTON_WEB_APP

${\tt classmethod\ de_json}\,(\mathit{data},\mathit{bot})$

Converts JSON data to the appropriate *MenuButton* object, i.e. takes care of selecting the correct subclass.

Parameters

- data (Dict[str, \dots]) The JSON data.
- **bot** (telegram.Bot) The bot associated with this object.

Returns The Telegram object.

3.2.51 telegram.MenuButtonCommands

```
class telegram.MenuButtonCommands(**_kwargs)
    Bases: telegram.menubutton.MenuButton
    Represents a menu button, which opens the bot's list of commands.
    New in version 13.12.
    type
        telegram.constants.MENU_BUTTON_COMMANDS.
        Type str
```

3.2.52 telegram.MenuButtonDefault

```
class telegram.MenuButtonDefault (**_kwargs)
    Bases: telegram.menubutton.MenuButton

Describes that no specific value for the menu button was set.

New in version 13.12.

type
    telegram.constants.MENU_BUTTON_DEFAULT.

Type str
```

3.2.53 telegram.MenuButtonWebApp

```
class telegram.MenuButtonWebApp (text, web_app, **_kwargs)
    Bases: telegram.menubutton.MenuButton
```

Represents a menu button, which launches a Web App.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their type, text and web_app are equal.

New in version 13.12.

Parameters

- **text** (str) Text of the button.
- web_app (telegram.WebAppInfo) Description of the Web App that will be launched when the user presses the button. The Web App will be able to send an arbitrary message on behalf of the user using the method answerWebAppQuery().

```
type
```

```
\label{telegram.dense} \textbf{Type} \ \texttt{str}
```

text

Text of the button.

```
Type \ \mathop{\hbox{\rm str}}
```

web_app

Description of the Web App that will be launched when the user presses the button. The Web App will be able to send an arbitrary message on behalf of the user using the method <code>answerWebAppQuery()</code>.

```
Type telegram.WebAppInfo

classmethod de_json(data, bot)

See telegram.TelegramObject.de_json().
```

```
to_dict()
    See telegram.TelegramObject.to_dict().
```

3.2.54 telegram. Message

class telegram. Message (message_id, date, chat, from_user=None, forward_from=None, forward_from_chat=None, forward_from_message_id=None, ward date=None, reply to message=None, edit date=None, text=None. entities=None, caption entities=None, augame=None, photo=None, dio=None, document=None, sticker=None, *video=None*, voice=None, video_note=None, new_chat_members=None, caption=None, contact=None, *location=None*, *left_chat_member=None*, venue=None, new_chat_title=None, new_chat_photo=None, delete_chat_photo=False, group_chat_created=False, pergroup_chat_created=False, channel_chat_created=False, *migrate_to_chat_id=None*, migrate_from_chat_id=None, pinned_message=None, invoice=None, successful_payment=None, forward_signature=None, *author_signature=None*, dia_group_id=None, connected_website=None, animation=None, passport data=None, poll=None, forward_sender_name=None, reply_markup=None, bot=None, dice=None, *via_bot=None*, proximity_alert_triggered=None, *sender_chat=None*, *voice_chat_started=None*, voice_chat_ended=None, voice_chat_participants_invited=None, message_auto_delete_timer_changed=None, voice_chat_scheduled=None, is automatic forward=None, has protected content=None, video chat scheduled=None, video chat started=None, video chat ended=None, video_chat_participants_invited=None, web_app_data=None, **_kwargs)

Bases: telegram.base.TelegramObject

This object represents a message.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their message_id and chat are equal.

Note: In Python from is a reserved word, use from_user instead.

Changed in version 13.12: Since Bot API 6.0, voice chat was renamed to video chat.

Parameters

- message_id (int) Unique message identifier inside this chat.
- **from_user** (*telegram.User*, optional) Sender of the message; empty for messages sent to channels. For backward compatibility, this will contain a fake sender user in non-channel chats, if the message was sent on behalf of a chat.
- **sender_chat** (*telegram.Chat*, optional) Sender of the message, sent on behalf of a chat. For example, the channel itself for channel posts, the supergroup itself for messages from anonymous group administrators, the linked channel for messages automatically forwarded to the discussion group. For backward compatibility, *from_user* contains a fake sender user in non-channel chats, if the message was sent on behalf of a chat.
- date (datetime.datetime) Date the message was sent in Unix time. Converted to datetime.datetime.
- **chat** (telegram.Chat) Conversation the message belongs to.

- **forward_from** (*telegram.User*, optional) For forwarded messages, sender of the original message.
- forward_from_chat (telegram.Chat, optional) For messages forwarded from channels or from anonymous administrators, information about the original sender chat.
- **forward_from_message_id**(int, optional) For forwarded channel posts, identifier of the original message in the channel.
- **forward_sender_name** (str, optional) Sender's name for messages forwarded from users who disallow adding a link to their account in forwarded messages.
- **forward_date** (datetime.datetime, optional) For forwarded messages, date the original message was sent in Unix time. Converted to datetime.datetime.
- **is_automatic_forward** (bool, optional) True, if the message is a channel post that was automatically forwarded to the connected discussion group.

New in version 13.9.

- reply_to_message (telegram.Message, optional) For replies, the original message.
- edit_date (datetime.datetime, optional) Date the message was last edited in Unix time. Converted to datetime.datetime.
- has_protected_content (bool, optional) True, if the message can't be forwarded.

New in version 13.9.

- media_group_id (str, optional) The unique identifier of a media message group this message belongs to.
- text (str, optional) For text messages, the actual UTF-8 text of the message, 0-4096 characters. Also found as telegram.constants.

 MAX_MESSAGE_LENGTH.
- **entities** (List[telegram.MessageEntity], optional) For text messages, special entities like usernames, URLs, bot commands, etc. that appear in the text. See parse_entity and parse_entities methods for how to use properly.
- caption_entities (List[telegram.MessageEntity]) Optional. For Messages with a Caption. Special entities like usernames, URLs, bot commands, etc. that appear in the caption. See Message.parse_caption_entity and parse_caption_entities methods for how to use properly.
- audio (telegram. Audio, optional) Message is an audio file, information about the file.
- **document** (telegram.Document, optional) Message is a general file, information about the file.
- animation (telegram. Animation, optional) Message is an animation, information about the animation. For backward compatibility, when this field is set, the document field will also be set.
- game (telegram. Game, optional) Message is a game, information about the game.
- **photo** (List[telegram.PhotoSize], optional) Message is a photo, available sizes of the photo.
- **sticker** (telegram. Sticker, optional) Message is a sticker, information about the sticker.
- video (telegram. Video, optional) Message is a video, information about the video.

- **voice** (*telegram.Voice*, optional) Message is a voice message, information about the file.
- **video_note** (*telegram.VideoNote*, optional) Message is a video note, information about the video message.
- new_chat_members (List[telegram.User], optional) New members that were added to the group or supergroup and information about them (the bot itself may be one of these members).
- **caption** (str, optional) Caption for the animation, audio, document, photo, video or voice, 0-1024 characters.
- contact (telegram.Contact, optional) Message is a shared contact, information about the contact.
- **location** (telegram. Location, optional) Message is a shared location, information about the location.
- venue (telegram. Venue, optional) Message is a venue, information about the venue. For backward compatibility, when this field is set, the location field will also be set.
- **left_chat_member** (*telegram.User*, optional) A member was removed from the group, information about them (this member may be the bot itself).
- **new_chat_title** (str, optional) A chat title was changed to this value.
- new_chat_photo (List[telegram.PhotoSize], optional) A chat photo was changed to this value.
- delete_chat_photo (bool, optional) Service message: The chat photo was
 deleted.
- group_chat_created (bool, optional) Service message: The group has been created.
- **supergroup_chat_created** (bool, optional) Service message: The supergroup has been created. This field can't be received in a message coming through updates, because bot can't be a member of a supergroup when it is created. It can only be found in reply_to_message if someone replies to a very first message in a directly created supergroup.
- **channel_chat_created** (bool, optional) Service message: The channel has been created. This field can't be received in a message coming through updates, because bot can't be a member of a channel when it is created. It can only be found in reply_to_message if someone replies to a very first message in a channel.
- message_auto_delete_timer_changed (telegram. MessageAutoDeleteTimerChanged, optional) - Service message: auto-delete timer settings changed in the chat.

New in version 13.4.

- migrate_to_chat_id (int, optional) The group has been migrated to a super-group with the specified identifier. This number may be greater than 32 bits and some programming languages may have difficulty/silent defects in interpreting it. But it is smaller than 52 bits, so a signed 64 bit integer or double-precision float type are safe for storing this identifier.
- migrate_from_chat_id (int, optional) The supergroup has been migrated from a group with the specified identifier. This number may be greater than 32 bits and some programming languages may have difficulty/silent defects in interpreting it. But it is smaller than 52 bits, so a signed 64 bit integer or double-precision float type are safe for storing this identifier.

- pinned_message (telegram.Message, optional) Specified message was pinned. Note that the Message object in this field will not contain further reply_to_message fields even if it is itself a reply.
- invoice (telegram. Invoice, optional) Message is an invoice for a payment, information about the invoice.
- **successful_payment** (*telegram.SuccessfulPayment*, optional) Message is a service message about a successful payment, information about the payment.
- **connected_website** (str, optional) The domain name of the website on which the user has logged in.
- **forward_signature** (str, optional) For messages forwarded from channels, signature of the post author if present.
- **author_signature** (str, optional) Signature of the post author for messages in channels, or the custom title of an anonymous group administrator.
- passport_data (telegram.PassportData, optional) Telegram Passport data
- **poll** (*telegram.Poll*, optional) Message is a native poll, information about the poll.
- dice (telegram.Dice, optional) Message is a dice with random value from 1 to 6.
- via_bot (telegram. User, optional) Message was sent through an inline bot.
- proximity_alert_triggered(telegram.ProximityAlertTriggered, optional) Service message. A user in the chat triggered another user's proximity alert while sharing Live Location.
- **voice_chat_scheduled** (*telegram.VoiceChatScheduled*, **optional**) Service message: voice chat scheduled.

New in version 13.5.

Deprecated since version 13.12.

• **voice_chat_started** (*telegram.VoiceChatStarted*, **optional**) – Service message: voice chat started.

New in version 13.4.

Deprecated since version 13.12.

• **voice_chat_ended** (*telegram.VoiceChatEnded*, optional) – Service message: voice chat ended.

New in version 13.4.

Deprecated since version 13.12.

• voice_chat_participants_invited (telegram. VoiceChatParticipantsInvited optional) - Service message: new participants invited to a voice chat.

New in version 13.4.

Deprecated since version 13.12.

• video_chat_scheduled (telegram.VideoChatScheduled, optional) — Service message: video chat scheduled.

New in version 13.12.

• video_chat_started (telegram.VideaChatStarted, optional) - Service
message: video chat started.

New in version 13.12.

• video_chat_ended (telegram.VideaChatEnded, optional) - Service message: video chat ended.

New in version 13.12.

• video_chat_participants_invited

(telegram.

VideoChatParticipantsInvited optional) — Service message: new participants invited to a video chat.

New in version 13.12.

- web_app_data (telegram. WebAppData, optional) Service message: data sent by a Web App. .. versionadded:: 13.12
- reply_markup (telegram.InlineKeyboardMarkup, optional) Inline keyboard attached to the message. login_url buttons are represented as ordinary url buttons.
- **bot** (*telegram.Bot*, optional) The Bot to use for instance methods.

message_id

Unique message identifier inside this chat.

Type int

from_user

Optional. Sender of the message; empty for messages sent to channels. For backward compatibility, this will contain a fake sender user in non-channel chats, if the message was sent on behalf of a chat.

Type telegram. User

sender chat

Optional. Sender of the message, sent on behalf of a chat. For backward compatibility, from_user contains a fake sender user in non-channel chats, if the message was sent on behalf of a chat.

Type telegram. Chat

date

Date the message was sent.

Type datetime.datetime

chat

Conversation the message belongs to.

Type telegram.Chat

forward from

Optional. Sender of the original message.

Type telegram.User

forward_from_chat

Optional. For messages forwarded from channels or from anonymous administrators, information about the original sender chat.

Type telegram.Chat

forward_from_message_id

Optional. Identifier of the original message in the channel.

Type int

forward_date

Optional. Date the original message was sent.

Type datetime.datetime

is_automatic_forward

Optional. True, if the message is a channel post that was automatically forwarded to the connected discussion group.

New in version 13.9.

Type bool

reply_to_message

Optional. For replies, the original message. Note that the Message object in this field will not contain further reply_to_message fields even if it itself is a reply.

Type telegram. Message

edit date

Optional. Date the message was last edited.

Type datetime.datetime

has_protected_content

Optional. True, if the message can't be forwarded.

New in version 13.9.

Type bool

media_group_id

Optional. The unique identifier of a media message group this message belongs to.

Type str

text

Optional. The actual UTF-8 text of the message.

Type str

entities

Optional. Special entities like usernames, URLs, bot commands, etc. that appear in the text. See <code>Message.parse_entity</code> and <code>parse_entities</code> methods for how to use properly.

Type List[telegram.MessageEntity]

caption_entities

Optional. Special entities like usernames, URLs, bot commands, etc. that appear in the caption. See <code>Message.parse_caption_entity</code> and <code>parse_caption_entities</code> methods for how to use properly.

Type List[telegram.MessageEntity]

audio

Optional. Information about the file.

Type telegram.Audio

document

Optional. Information about the file.

Type telegram. Document

animation

For backward compatibility, when this field is set, the document field will also be set.

 $\textbf{Type} \ \textit{telegram.} \textit{Animation}$

game

Optional. Information about the game.

Type telegram. Game

photo

Optional. Available sizes of the photo.

```
Type List[telegram.PhotoSize]
sticker
    Optional. Information about the sticker.
        Type telegram. Sticker
video
    Optional. Information about the video.
        Type telegram. Video
voice
    Optional. Information about the file.
        Type telegram. Voice
video_note
    Optional. Information about the video message.
        Type telegram.VideoNote
new_chat_members
    Optional. Information about new members to the chat. (the bot itself may be one of these members).
        Type List[telegram.User]
caption
    Optional. Caption for the document, photo or video, 0-1024 characters.
        Type str
contact
    Optional. Information about the contact.
        Type telegram.Contact
location
    Optional. Information about the location.
        Type telegram.Location
venue
    Optional. Information about the venue.
        Type telegram. Venue
left_chat_member
    Optional. Information about the user that left the group. (this member may be the bot itself).
        Type telegram. User
new chat title
    Optional. A chat title was changed to this value.
        Type str
new chat photo
    Optional. A chat photo was changed to this value.
        Type List[telegram.PhotoSize]
delete_chat_photo
    Optional. The chat photo was deleted.
        Type bool
group_chat_created
```

Optional. The group has been created.

Type bool

supergroup_chat_created

Optional. The supergroup has been created.

Type bool

channel_chat_created

Optional. The channel has been created.

Type bool

message_auto_delete_timer_changed

Optional. Service message: auto-delete timer settings changed in the chat.

New in version 13.4.

Type telegram. Message Auto Delete Timer Changed

migrate_to_chat_id

Optional. The group has been migrated to a supergroup with the specified identifier.

Type int

migrate_from_chat_id

Optional. The supergroup has been migrated from a group with the specified identifier.

Type int

pinned message

Optional. Specified message was pinned.

Type telegram.message

invoice

Optional. Information about the invoice.

Type telegram. Invoice

successful_payment

Optional. Information about the payment.

Type telegram. Successful Payment

connected_website

Optional. The domain name of the website on which the user has logged in.

Type str

forward_signature

Optional. Signature of the post author for messages forwarded from channels.

Type str

forward_sender_name

Optional. Sender's name for messages forwarded from users who disallow adding a link to their account in forwarded messages.

Type str

author_signature

Optional. Signature of the post author for messages in channels, or the custom title of an anonymous group administrator.

Type str

passport_data

Optional. Telegram Passport data.

Type telegram.PassportData

poll

Optional. Message is a native poll, information about the poll.

Type telegram. Poll

dice

Optional. Message is a dice.

Type telegram.Dice

via_bot

Optional. Bot through which the message was sent.

Type telegram. User

proximity_alert_triggered

Optional. Service message. A user in the chat triggered another user's proximity alert while sharing Live Location.

Type telegram.ProximityAlertTriggered

voice_chat_scheduled

Optional. Service message: voice chat scheduled.

New in version 13.5.

Deprecated since version 13.12: contains the same value as *VideoChatScheduled* for backwards compatibility.

Type telegram. VoiceChatScheduled

voice chat started

Optional. Service message: voice chat started.

New in version 13.4.

Deprecated since version 13.12: contains the same value as *VideoChatStarted* for backwards compatibility.

Type telegram. VoiceChatStarted

voice_chat_ended

Optional. Service message: voice chat ended.

New in version 13.4.

Deprecated since version 13.12: contains the same value as *VideoChatEnded* for backwards compatibility.

Type telegram. VoiceChatEnded

voice_chat_participants_invited

Optional. Service message: new participants invited to a voice chat.

New in version 13.4.

Deprecated since version 13.12: contains the same value as *VideoChatParticipantsInvited* for backwards compatibility.

 $\textbf{Type} \ \textit{telegram.VoiceChatParticipantsInvited}$

video_chat_scheduled

Optional. Service message: video chat scheduled.

New in version 13.12.

Type telegram. VideoChatScheduled

video_chat_started

Optional. Service message: video chat started.

New in version 13.12.

Type telegram. VideoChatStarted

video_chat_ended

Optional. Service message: video chat ended.

New in version 13.12.

Type telegram. VideoChatEnded

video_chat_participants_invited

Optional. Service message: new participants invited to a video chat.

New in version 13.12.

Type telegram. VideoChatParticipantsInvited

web_app_data

Optional. Service message: data sent by a Web App.

New in version 13.12.

Type telegram. WebAppData

reply_markup

Optional. Inline keyboard attached to the message.

Type telegram. Inline Keyboard Markup

bot

Optional. The Bot to use for instance methods.

Type telegram.Bot

property caption_html

Creates an HTML-formatted string from the markup entities found in the message's caption.

Use this if you want to retrieve the message caption with the caption entities formatted as HTML in the same way the original message was formatted.

Changed in version 13.10: Spoiler entities are now formatted as HTML.

Returns Message caption with caption entities formatted as HTML.

Return type str

property caption_html_urled

Creates an HTML-formatted string from the markup entities found in the message's caption.

Use this if you want to retrieve the message caption with the caption entities formatted as HTML. This also formats telegram. MessageEntity. URL as a hyperlink.

Changed in version 13.10: Spoiler entities are now formatted as HTML.

Returns Message caption with caption entities formatted as HTML.

Return type str

property caption_markdown

Creates an Markdown-formatted string from the markup entities found in the message's caption using telegram.ParseMode.MARKDOWN.

Use this if you want to retrieve the message caption with the caption entities formatted as Markdown in the same way the original message was formatted.

Note: telegram.ParseMode.MARKDOWN is is a legacy mode, retained by Telegram for backward compatibility. You should use caption_markdown_v2() instead.

Returns Message caption with caption entities formatted as Markdown.

Return type str

Raises ValueError – If the message contains underline, strikethrough, spoiler or nested entities.

property caption_markdown_urled

Creates an Markdown-formatted string from the markup entities found in the message's caption using telegram. ParseMode. MARKDOWN.

Use this if you want to retrieve the message caption with the caption entities formatted as Markdown. This also formats telegram. MessageEntity. URL as a hyperlink.

Note: telegram.ParseMode.MARKDOWN is is a legacy mode, retained by Telegram for backward compatibility. You should use caption_markdown_v2_urled() instead.

Returns Message caption with caption entities formatted as Markdown.

Return type str

Raises ValueError – If the message contains underline, strikethrough, spoiler or nested entities.

property caption_markdown_v2

Creates an Markdown-formatted string from the markup entities found in the message's caption using telegram. ParseMode. MARKDOWN_V2.

Use this if you want to retrieve the message caption with the caption entities formatted as Markdown in the same way the original message was formatted.

Changed in version 13.10: Spoiler entities are now formatted as Markdown V2.

Returns Message caption with caption entities formatted as Markdown.

Return type str

property caption_markdown_v2_urled

Creates an Markdown-formatted string from the markup entities found in the message's caption using telegram. ParseMode. MARKDOWN_V2.

Use this if you want to retrieve the message caption with the caption entities formatted as Markdown. This also formats telegram.MessageEntity.URL as a hyperlink.

Changed in version 13.10: Spoiler entities are now formatted as Markdown V2.

Returns Message caption with caption entities formatted as Markdown.

Return type str

property chat_id

Shortcut for telegram. Chat.id for chat.

Type int

copy (chat_id, caption=None, parse_mode=None, caption_entities=None, dis able_notification=None, reply_to_message_id=None, allow_sending_without_reply=None,
 reply_markup=None, timeout=None, api_kwargs=None, protect_content=None)
 Shortcut for:

For the documentation of the arguments, please see telegram.Bot.copy_message().

Returns On success, returns the MessageId of the sent message.

Return type telegram. MessageId

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

delete (timeout=None, api_kwargs=None)

Shortcut for:

For the documentation of the arguments, please see telegram.Bot.delete_message().

Returns On success, True is returned.

Return type bool

Shortcut for:

For the documentation of the arguments, please see $telegram.Bot.edit_message_caption()$.

Note: You can only edit messages that the bot sent itself (i.e. of the bot.send_* family of methods) or channel posts, if the bot is an admin in that channel. However, this behaviour is undocumented and might be changed by Telegram.

Returns On success, if edited message is sent by the bot, the edited Message is returned, otherwise True is returned.

Return type telegram. Message

Shortcut for:

For the documentation of the arguments, please see $telegram.Bot.edit_message_live_location()$.

Note: You can only edit messages that the bot sent itself (i.e. of the bot . send_* family of methods) or channel posts, if the bot is an admin in that channel. However, this behaviour is undocumented and might be changed by Telegram.

Returns On success, if edited message is sent by the bot, the edited Message is returned, otherwise True is returned.

Return type telegram. Message

edit_media=None, reply_markup=None, timeout=None, api_kwargs=None)
Shortcut for:

For the documentation of the arguments, please see telegram.Bot.edit_message_media().

Note: You can only edit messages that the bot sent itself(i.e. of the bot.send_* family of methods) or channel posts, if the bot is an admin in that channel. However, this behaviour is undocumented and might be changed by Telegram.

Returns On success, if edited message is sent by the bot, the edited Message is returned, otherwise True is returned.

Return type telegram. Message

For the documentation of the arguments, please see $telegram.Bot.edit_message_reply_markup().$

Note: You can only edit messages that the bot sent itself (i.e. of the bot . send_* family of methods) or channel posts, if the bot is an admin in that channel. However, this behaviour is undocumented and might be changed by Telegram.

Returns On success, if edited message is sent by the bot, the edited Message is returned, otherwise True is returned.

Return type telegram. Message

For the documentation of the arguments, please see $telegram.Bot.edit_message_text()$.

Note: You can only edit messages that the bot sent itself (i.e. of the bot.send_* family of methods) or channel posts, if the bot is an admin in that channel. However, this behaviour is undocumented and might be changed by Telegram.

Returns On success, if edited message is sent by the bot, the edited Message is returned, otherwise True is returned.

Return type telegram. Message

property effective_attachment

telegram. Audio or telegram. Contact or telegram. Document or telegram. Animation or telegram. Game or telegram. Invoice or telegram. Location or List[telegram. PhotoSize] or telegram. Sticker or telegram. Successful Payment or telegram. Venue or telegram. Video or telegram. Video Note or telegram. Voice: The attachment that this message was sent with. May be None if no attachment was sent.

forward (chat_id, disable_notification=None, timeout=None, api_kwargs=None, protect_content=None)
Shortcut for:

For the documentation of the arguments, please see telegram.Bot.forward_message().

Note: Since the release of Bot API 5.5 it can be impossible to forward messages from some chats. Use the attributes telegram. Message. has_protected_content and telegram. Chat. has_protected_content to check this.

As a workaround, it is still possible to use copy(). However, this behaviour is undocumented and might be changed by Telegram.

Returns On success, instance representing the message forwarded.

Return type telegram. Message

For the documentation of the arguments, please see telegram.Bot. get_game_high_scores().

Note: You can only edit messages that the bot sent itself (i.e. of the bot.send_* family of methods) or channel posts, if the bot is an admin in that channel. However, this behaviour is undocumented and might be changed by Telegram.

Returns List[telegram.GameHighScore]

property link

Convenience property. If the chat of the message is not a private chat or normal group, returns a t.me link of the message.

Type str

```
{\tt parse\_caption\_entities}~(\textit{types=None})
```

Returns a dict that maps telegram. MessageEntity to str. It contains entities from this

message's caption filtered by their telegram. MessageEntity.type attribute as the key, and the text that each entity belongs to as the value of the dict.

Note: This method should always be used instead of the *caption_entities* attribute, since it calculates the correct substring from the message text based on UTF-16 codepoints. See *parse_entity* for more info.

Parameters types (List[str], optional) — List of telegram. MessageEntity types as strings. If the type attribute of an entity is contained in this list, it will be returned. Defaults to a list of all types. All types can be found as constants in telegram. MessageEntity.

Returns A dictionary of entities mapped to the text that belongs to them, calculated based on UTF-16 codepoints.

Return type Dict[telegram.MessageEntity, str]

parse_caption_entity(entity)

Returns the text from a given telegram.MessageEntity.

Note: This method is present because Telegram calculates the offset and length in UTF-16 codepoint pairs, which some versions of Python don't handle automatically. (That is, you can't just slice Message.caption with the offset and length.)

Parameters entity (telegram.MessageEntity) – The entity to extract the text from. It must be an entity that belongs to this message.

Returns The text of the given entity.

Return type str

Raises RuntimeError – If the message has no caption.

parse_entities (types=None)

Returns a dict that maps telegram. MessageEntity to str. It contains entities from this message filtered by their telegram. MessageEntity.type attribute as the key, and the text that each entity belongs to as the value of the dict.

Note: This method should always be used instead of the <code>entities</code> attribute, since it calculates the correct substring from the message text based on UTF-16 codepoints. See <code>parse_entity</code> for more info.

Parameters types (List[str], optional) — List of telegram. MessageEntity types as strings. If the type attribute of an entity is contained in this list, it will be returned. Defaults to a list of all types. All types can be found as constants in telegram. MessageEntity.

Returns A dictionary of entities mapped to the text that belongs to them, calculated based on UTF-16 codepoints.

Return type Dict[telegram.MessageEntity, str]

parse_entity(entity)

Returns the text from a given telegram.MessageEntity.

Note: This method is present because Telegram calculates the offset and length in UTF-16 codepoint pairs, which some versions of Python don't handle automatically. (That is, you can't just slice Message.text with the offset and length.)

Parameters entity (telegram.MessageEntity) – The entity to extract the text from. It must be an entity that belongs to this message.

Returns The text of the given entity.

Return type str

Raises RuntimeError – If the message has no text.

For the documentation of the arguments, please see telegram.Bot.pin_chat_message().

Returns On success, True is returned.

Return type bool

reply_animation (animation, duration=None, width=None, height=None, thumb=None, caption=None, parse_mode=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=20, api_kwargs=None, allow_sending_without_reply=None, caption_entities=None, filename=None, quote=None, protect_content=None)

Shortcut for:

```
bot.send_animation(update.effective_message.chat_id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_animation().

Parameters quote (bool, optional) – If set to True, the animation is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

Returns On success, instance representing the message posted.

Return type telegram. Message

reply_audio (audio, duration=None, performer=None, title=None, caption=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=20, parse_mode=None, thumb=None, api_kwargs=None, allow_sending_without_reply=None, caption_entities=None, filename=None, quote=None, protect_content=None)

Shortcut for:

```
bot.send_audio(update.effective_message.chat_id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_audio().

Parameters quote (bool, optional) – If set to True, the audio is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

Returns On success, instance representing the message posted.

Return type telegram. Message

reply_chat_action (action, timeout=None, api_kwargs=None)

Shortcut for:

```
bot.send_chat_action(update.effective_message.chat_id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_chat_action().

New in version 13.2.

Returns On success, True is returned.

Return type bool

reply_contact (phone_number=None, first_name=None, last_name=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=None, contact=None, vcard=None, api_kwargs=None, allow_sending_without_reply=None, quote=None, protect_content=None)

Shortcut for:

```
bot.send_contact(update.effective_message.chat_id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_contact().

Parameters quote (bool, optional) – If set to True, the contact is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

Returns On success, instance representing the message posted.

Return type telegram. Message

reply_copy (from_chat_id, message_id, caption=None, parse_mode=None, caption_entities=None, disable_notification=None, reply_to_message_id=None, allow_sending_without_reply=None, reply_markup=None, timeout=None, api_kwargs=None, quote=None, protect_content=None)

Shortcut for:

For the documentation of the arguments, please see telegram.Bot.copy_message().

Parameters quote (bool, optional) – If set to True, the copy is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

New in version 13.1.

Returns On success, returns the MessageId of the sent message.

Return type telegram. Message Id

reply_dice (disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=None, emoji=None, api_kwargs=None, allow_sending_without_reply=None, quote=None, protect_content=None)

Shortcut for:

```
bot.send_dice(update.effective_message.chat_id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_dice().

Parameters quote (bool, optional) – If set to True, the dice is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

Returns On success, instance representing the message posted.

```
Return type telegram. Message
```

reply_document (document, filename=None, caption=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=20, parse_mode=None, thumb=None, api_kwargs=None, disable_content_type_detection=None, allow_sending_without_reply=None, caption_entities=None, quote=None, protect_content=None)

Shortcut for:

```
bot.send_document(update.effective_message.chat_id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_document().

Parameters quote (bool, optional) – If set to True, the document is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

Returns On success, instance representing the message posted.

```
Return type telegram. Message
```

```
bot.send_game(update.effective_message.chat_id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_game().

Parameters quote (bool, optional) – If set to True, the game is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

New in version 13.2.

Returns On success, instance representing the message posted.

```
Return type telegram. Message
```

reply_html (text, disable_web_page_preview=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=None, api_kwargs=None, allow_sending_without_reply=None, entities=None, quote=None, protect_content=None)

Shortcut for:

```
bot.send_message(
    update.effective_message.chat_id,
    parse_mode=ParseMode.HTML,
    *args,
    **kwargs,
)
```

Sends a message with HTML formatting.

For the documentation of the arguments, please see telegram.Bot.send_message().

Parameters quote (bool, optional) – If set to True, the message is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

Returns On success, instance representing the message posted.

```
Return type telegram. Message
```

```
payload,
reply_invoice (title,
                             description,
                                                              provider_token,
                                                                                   cur-
                              prices,
                                            start_parameter=None,
                                                                        photo_url=None,
                  rency,
                 photo_size=None,
                                          photo_width=None,
                                                                     photo_height=None,
                  need_name=None,
                                       need_phone_number=None,
                                                                    need_email=None,
                  need_shipping_address=None, is_flexible=None, disable_notification=None,
                  reply_to_message_id=None,
                                              reply_markup=None,
                                                                    provider_data=None,
                                                           send\_email\_to\_provider=None,
                  send_phone_number_to_provider=None,
                  timeout=None,
                                  api kwargs=None,
                                                       allow sending without reply=None,
                  quote=None, max_tip_amount=None, suggested_tip_amounts=None, pro-
                  tect_content=None)
```

```
Shortcut for:
```

```
bot.send_invoice(update.effective_message.chat_id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_invoice().

Warning: As of API 5.2 start_parameter is an optional argument and therefore the order of the arguments had to be changed. Use keyword arguments to make sure that the arguments are passed correctly.

New in version 13.2.

Changed in version 13.5: As of Bot API 5.2, the parameter start_parameter is optional.

Parameters quote (bool, optional) – If set to True, the invoice is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

Returns On success, instance representing the message posted.

```
Return type telegram. Message
```

```
reply_location (latitude=None, longitude=None, disable_notification=None, re-
ply_to_message_id=None, reply_markup=None, timeout=None,
location=None, live_period=None, api_kwargs=None, horizon-
tal_accuracy=None, heading=None, proximity_alert_radius=None, al-
low_sending_without_reply=None, quote=None, protect_content=None)
```

Shortcut for:

```
bot.send_location(update.effective_message.chat_id, *args, **kwargs)
```

For the documentation of the arguments, please see $telegram.Bot.send_location()$.

Parameters quote (bool, optional) – If set to True, the location is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

Returns On success, instance representing the message posted.

Return type telegram. Message

```
reply_markdown (text, disable_web_page_preview=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=None, api_kwargs=None, allow_sending_without_reply=None, entities=None, quote=None, protect_content=None)
```

Shortcut for:

```
bot.send_message(
    update.effective_message.chat_id,
    parse_mode=ParseMode.MARKDOWN,
    *args,
    **kwargs,
)
```

Sends a message with Markdown version 1 formatting.

For the documentation of the arguments, please see telegram. Bot.send_message().

Note: telegram.ParseMode.MARKDOWN is a legacy mode, retained by Telegram for backward compatibility. You should use reply_markdown_v2() instead.

Parameters quote (bool, optional) – If set to True, the message is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

Returns On success, instance representing the message posted.

Return type telegram. Message

reply_markdown_v2(text, disable_web_page_preview=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=None, api_kwargs=None, allow_sending_without_reply=None, entities=None, *quote=None*, *protect_content=None*)

Shortcut for:

```
bot.send_message(
   update.effective_message.chat_id,
   parse_mode=ParseMode.MARKDOWN_V2,
    *args,
    **kwarqs,
```

Sends a message with markdown version 2 formatting.

For the documentation of the arguments, please see telegram.Bot.send_message().

Parameters quote (bool, optional) – If set to True, the message is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

Returns On success, instance representing the message posted.

Return type telegram. Message

reply_media_group(media, disable_notification=None, reply_to_message_id=None, timeout=20, api_kwargs=None, allow_sending_without_reply=None, quote=None, protect_content=None)

Shortcut for:

```
bot.send_media_group(update.effective_message.chat_id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_media_group().

Parameters quote (bool, optional) - If set to True, the media group is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

Returns An array of the sent Messages.

```
Return type List[telegram.Message]
```

```
Raises telegram.error.TelegramError-
```

reply_photo(photo, caption=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=20, parse_mode=None, api_kwargs=None, allow_sending_without_reply=None, *caption_entities=None*, *filename=None*, quote=None, protect_content=None)

Shortcut for:

```
bot.send_photo(update.effective_message.chat_id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_photo().

Parameters quote (bool, optional) – If set to True, the photo is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

Returns On success, instance representing the message posted.

Return type telegram.Message

reply_poll (question, options, is_anonymous=True, type='regular', allows_multiple_answers=False, correct_option_id=None, is_closed=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=None, explanation=None, explanation_parse_mode=None, open_period=None, close_date=None, api_kwargs=None, allow_sending_without_reply=None, explanation_entities=None, quote=None, protect_content=None)

Shortcut for:

```
bot.send_poll(update.effective_message.chat_id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_poll().

Parameters quote (bool, optional) – If set to True, the poll is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

Returns On success, instance representing the message posted.

Return type telegram. Message

Shortcut for:

```
bot.send_sticker(update.effective_message.chat_id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_sticker().

Parameters quote (bool, optional) – If set to True, the sticker is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

Returns On success, instance representing the message posted.

Return type telegram. Message

reply_text (text, parse_mode=None, disable_web_page_preview=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, time-out=None, api_kwargs=None, allow_sending_without_reply=None, entities=None, quote=None, protect_content=None)

Shortcut for:

```
bot.send_message(update.effective_message.chat_id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_message().

Parameters quote (bool, optional) – If set to True, the message is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

Returns On success, instance representing the message posted.

Return type telegram. Message

reply_venue (latitude=None, longitude=None, title=None, address=None, foursquare_id=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=None, venue=None, foursquare_type=None, api_kwargs=None, google_place_id=None, google_place_type=None, allow_sending_without_reply=None, quote=None, protect_content=None)

```
bot.send_venue(update.effective_message.chat_id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_venue().

Parameters quote (bool, optional) – If set to True, the venue is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

Returns On success, instance representing the message posted.

Return type telegram. Message

reply_video (video, duration=None, caption=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=20, width=None,
height=None, parse_mode=None, supports_streaming=None, thumb=None,
api_kwargs=None, allow_sending_without_reply=None, caption_entities=None,
filename=None, quote=None, protect_content=None)

Shortcut for:

Shortcut for:

```
bot.send_video(update.effective_message.chat_id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_video().

Parameters quote (bool, optional) — If set to True, the video is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

Returns On success, instance representing the message posted.

Return type telegram. Message

reply_video_note (video_note, duration=None, length=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=20, thumb=None, api_kwargs=None, allow_sending_without_reply=None, filename=None, quote=None, protect_content=None)

Shortcut for:

```
bot.send_video_note(update.effective_message.chat_id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_video_note().

Parameters quote (bool, optional) – If set to True, the video note is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

Returns On success, instance representing the message posted.

Return type telegram. Message

Shortcut for:

```
bot.send_voice(update.effective_message.chat_id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_voice().

Parameters quote (bool, optional) – If set to True, the voice note is sent as an actual reply to this message. If reply_to_message_id is passed in kwargs, this parameter will be ignored. Default: True in group chats and False in private chats.

Returns On success, instance representing the message posted.

Return type telegram. Message

Shortcut for:

For the documentation of the arguments, please see telegram.Bot.set_game_score().

Note: You can only edit messages that the bot sent itself (i.e. of the bot .send_* family of methods) or channel posts, if the bot is an admin in that channel. However, this behaviour is undocumented and might be changed by Telegram.

Returns On success, if edited message is sent by the bot, the edited Message is returned, otherwise True is returned.

Return type telegram. Message

stop_live_location (reply_markup=None, timeout=None, api_kwargs=None)
Shortcut for:

For the documentation of the arguments, please see $telegram.Bot.stop_message_live_location()$.

Note: You can only edit messages that the bot sent itself (i.e. of the bot .send_* family of methods) or channel posts, if the bot is an admin in that channel. However, this behaviour is undocumented and might be changed by Telegram.

Returns On success, if edited message is sent by the bot, the edited Message is returned, otherwise True is returned.

Return type telegram.Message

stop_poll (reply_markup=None, timeout=None, api_kwargs=None)
Shortcut for:

For the documentation of the arguments, please see telegram. Bot.stop_poll().

Returns On success, the stopped Poll with the final results is returned.

Return type telegram.Poll

property text_html

Creates an HTML-formatted string from the markup entities found in the message.

Use this if you want to retrieve the message text with the entities formatted as HTML in the same way the original message was formatted.

Changed in version 13.10: Spoiler entities are now formatted as HTML.

Returns Message text with entities formatted as HTML.

Return type str

property text_html_urled

Creates an HTML-formatted string from the markup entities found in the message.

Use this if you want to retrieve the message text with the entities formatted as HTML. This also formats telegram. MessageEntity. URL as a hyperlink.

Changed in version 13.10: Spoiler entities are now formatted as HTML.

Returns Message text with entities formatted as HTML.

Return type str

property text_markdown

Creates an Markdown-formatted string from the markup entities found in the message using telegram.ParseMode.MARKDOWN.

Use this if you want to retrieve the message text with the entities formatted as Markdown in the same way the original message was formatted.

Note: telegram.ParseMode.MARKDOWN is is a legacy mode, retained by Telegram for backward compatibility. You should use text_markdown_v2() instead.

Returns Message text with entities formatted as Markdown.

Return type str

Raises ValueError – If the message contains underline, strikethrough, spoiler or nested entities.

property text_markdown_urled

Creates an Markdown-formatted string from the markup entities found in the message using telegram.ParseMode.MARKDOWN.

Use this if you want to retrieve the message text with the entities formatted as Markdown. This also formats telegram. MessageEntity. URL as a hyperlink.

Note: telegram.ParseMode.MARKDOWN is is a legacy mode, retained by Telegram for backward compatibility. You should use text_markdown_v2_urled() instead.

Returns Message text with entities formatted as Markdown.

Return type str

Raises ValueError – If the message contains underline, strikethrough, spoiler or nested entities.

property text_markdown_v2

Creates an Markdown-formatted string from the markup entities found in the message using telegram.ParseMode.MARKDOWN_V2.

Use this if you want to retrieve the message text with the entities formatted as Markdown in the same way the original message was formatted.

Changed in version 13.10: Spoiler entities are now formatted as Markdown V2.

Returns Message text with entities formatted as Markdown.

Return type str

property text_markdown_v2_urled

Creates an Markdown-formatted string from the markup entities found in the message using telegram.ParseMode.MARKDOWN_V2.

Use this if you want to retrieve the message text with the entities formatted as Markdown. This also formats telegram. MessageEntity. URL as a hyperlink.

Changed in version 13.10: Spoiler entities are now formatted as Markdown V2.

Returns Message text with entities formatted as Markdown.

Return type str

```
to_dict()
```

See telegram. TelegramObject.to_dict().

unpin (timeout=None, api_kwargs=None)

Shortcut for:

For the documentation of the arguments, please see telegram.Bot.unpin_chat_message().

Returns On success, True is returned.

Return type bool

3.2.55 telegram.MessageAutoDeleteTimerChanged

Bases: telegram.base.TelegramObject

This object represents a service message about a change in auto-delete timer settings.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their message_auto_delete_time is equal.

New in version 13.4.

Parameters

- message_auto_delete_time (int) New auto-delete time for messages in the chat.
- **kwargs (dict) Arbitrary keyword arguments.

message_auto_delete_time

New auto-delete time for messages in the chat.

Type int

3.2.56 telegram. Messageld

```
class telegram.MessageId(message_id, **_kwargs)
Bases: telegram.base.TelegramObject
```

This object represents a unique message identifier.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their message_id is equal.

message_id

Unique message identifier

Type int

3.2.57 telegram.MessageEntity

Bases: telegram.base.TelegramObject

This object represents one special entity in a text message. For example, hashtags, usernames, URLs, etc.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their type, offset and length are equal.

Parameters

- type (str) Type of the entity. Currently, can be mention (@username), hashtag, bot_command, url, email, phone_number, bold (bold text), italic (italic text), strikethrough, spoiler (spoiler message), code (monowidth string), pre (monowidth block), text_link (for clickable text URLs), text_mention (for users without usernames).
- **offset** (int) Offset in UTF-16 code units to the start of the entity.
- length (int) Length of the entity in UTF-16 code units.
- url (str, optional) For TEXT_LINK only, url that will be opened after user taps on the text.
- user (telegram. User, optional) For TEXT_MENTION only, the mentioned user.
- language (str, optional) For PRE only, the programming language of the entity text.

type

Type of the entity.

Type str

offset

Offset in UTF-16 code units to the start of the entity.

Type int

length

Length of the entity in UTF-16 code units.

Type int

url

Optional. Url that will be opened after user taps on the text.

Type str

user

Optional. The mentioned user.

Type telegram. User

```
language
    Optional. Programming language of the entity text.
ALL_TYPES: ClassVar[List[str]] = ['mention', 'hashtag', 'cashtag', 'phone_number',
    telegram.constants.MESSAGEENTITY_ALL_TYPES
   List of all the types
BOLD: ClassVar[str] = 'bold'
    telegram.constants.MESSAGEENTITY_BOLD
BOT COMMAND: ClassVar[str] = 'bot command'
    telegram.constants.MESSAGEENTITY BOT COMMAND
CASHTAG: ClassVar[str] = 'cashtag'
    telegram.constants.MESSAGEENTITY_CASHTAG
CODE: ClassVar[str] = 'code'
    telegram.constants.MESSAGEENTITY_CODE
EMAIL: ClassVar[str] = 'email'
    telegram.constants.MESSAGEENTITY_EMAIL
HASHTAG: ClassVar[str] = 'hashtag'
    telegram.constants.MESSAGEENTITY_HASHTAG
ITALIC: ClassVar[str] = 'italic'
    telegram.constants.MESSAGEENTITY_ITALIC
MENTION: ClassVar[str] = 'mention'
    telegram.constants.MESSAGEENTITY MENTION
PHONE_NUMBER: ClassVar[str] = 'phone_number'
    telegram.constants.MESSAGEENTITY_PHONE_NUMBER
PRE: ClassVar[str] = 'pre'
    telegram.constants.MESSAGEENTITY_PRE
SPOILER: ClassVar[str] = 'spoiler'
    telegram.constants.MESSAGEENTITY_SPOILER
   New in version 13.10.
STRIKETHROUGH: ClassVar[str] = 'strikethrough'
    telegram.constants.MESSAGEENTITY_STRIKETHROUGH
TEXT_LINK: ClassVar[str] = 'text_link'
    telegram.constants.MESSAGEENTITY_TEXT_LINK
TEXT_MENTION: ClassVar[str] = 'text_mention'
    telegram.constants.MESSAGEENTITY_TEXT_MENTION
UNDERLINE: ClassVar[str] = 'underline'
    telegram.constants.MESSAGEENTITY UNDERLINE
URL: ClassVar[str] = 'url'
    telegram.constants.MESSAGEENTITY_URL
classmethod de_json(data, bot)
    See telegram. TelegramObject.de_json().
```

3.2.58 telegram.ParseMode

class telegram.ParseMode

Bases: object

This object represents a Telegram Message Parse Modes.

HTML: ClassVar[str] = 'HTML'

telegram.constants.PARSEMODE_HTML

MARKDOWN: ClassVar[str] = 'Markdown'

telegram.constants.PARSEMODE_MARKDOWN

Note: MARKDOWN is a legacy mode, retained by Telegram for backward compatibility. You should use MARKDOWN_V2 instead.

MARKDOWN_V2: ClassVar[str] = 'MarkdownV2'

telegram.constants.PARSEMODE_MARKDOWN_V2

3.2.59 telegram.PhotoSize

Bases: telegram.base.TelegramObject

This object represents one size of a photo or a file/sticker thumbnail.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their file_unique_id is equal.

Parameters

- **file_id** (str) Identifier for this file, which can be used to download or reuse the file.
- **file_unique_id** (str) Unique identifier for this file, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.
- width (int) Photo width.
- height (int) Photo height.
- **file_size** (int, optional) File size.
- **bot** (*telegram.Bot*, optional) The Bot to use for instance methods.
- **kwargs (dict) Arbitrary keyword arguments.

file id

Identifier for this file.

 $Type \ \mathop{\hbox{\rm str}}$

file_unique_id

Unique identifier for this file, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.

Type str

width

Photo width.

Type int

height

Photo height.

```
Type int
     file_size
          Optional. File size.
              Type int
     bot
          Optional. The Bot to use for instance methods.
              Type telegram.Bot
     get_file (timeout=None, api_kwargs=None)
          Convenience wrapper over telegram. Bot.get file
          For the documentation of the arguments, please see telegram.Bot.get_file().
              Returns telegram. File
              Raises telegram.error.TelegramError-
3.2.60 telegram.Poll
class telegram. Poll (id, question, options, total_voter_count, is_closed, is_anonymous, type, al-
                          lows multiple answers, correct option id=None, explanation=None, expla-
                          nation_entities=None, open_period=None, close_date=None, **_kwargs)
     Bases: telegram.base.TelegramObject
     This object contains information about a poll.
     Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if
     their id is equal.
     id
          Unique poll identifier.
              Type str
     question
          Poll question, 1-300 characters.
              Type str
     options
          List of poll options.
              Type List[PollOption]
     total_voter_count
          Total number of users that voted in the poll.
              Type int
     is_closed
          True, if the poll is closed.
              Type bool
     is_anonymous
          True, if the poll is anonymous.
              Type bool
     type
          Poll type, currently can be REGULAR or QUIZ.
              Type str
     allows_multiple_answers
          True, if the poll allows multiple answers.
```

Type bool

correct_option_id

Optional. Identifier of the correct answer option.

Type int

explanation

Optional. Text that is shown when a user chooses an incorrect answer or taps on the lamp icon in a quiz-style poll.

Type str

explanation_entities

Optional. Special entities like usernames, URLs, bot commands, etc. that appear in the explanation.

Type List[telegram.MessageEntity]

open_period

Optional. Amount of time in seconds the poll will be active after creation.

Type int

close_date

Optional. Point in time when the poll will be automatically closed.

Type datetime.datetime

Parameters

- id (str) Unique poll identifier.
- question (str) Poll question, 1-300 characters.
- options (List[PollOption]) List of poll options.
- is_closed (bool) True, if the poll is closed.
- is_anonymous (bool) True, if the poll is anonymous.
- **type** (str) Poll type, currently can be REGULAR or QUIZ.
- $\bullet \ \ \textbf{allows_multiple_answers} \ \, (\texttt{bool}) \texttt{True}, if the poll allows multiple answers}.$
- **correct_option_id** (int, optional) 0-based identifier of the correct answer option. Available only for polls in the quiz mode, which are closed, or was sent (not forwarded) by the bot or to the private chat with the bot.
- **explanation** (str, optional) Text that is shown when a user chooses an incorrect answer or taps on the lamp icon in a quiz-style poll, 0-200 characters.
- **explanation_entities** (List[telegram.MessageEntity], optional) Special entities like usernames, URLs, bot commands, etc. that appear in the explanation.
- open_period (int, optional) Amount of time in seconds the poll will be active
 after creation.
- **close_date** (datetime.datetime, optional) Point in time (Unix timestamp) when the poll will be automatically closed. Converted to datetime.datetime.

```
MAX_OPTION_LENGTH: ClassVar[int] = 100
```

telegram.constants.MAX_POLL_OPTION_LENGTH

MAX_QUESTION_LENGTH: ClassVar[int] = 300

telegram.constants.MAX_POLL_QUESTION_LENGTH

QUIZ: ClassVar[str] = 'quiz'

telegram.constants.POLL_QUIZ

```
REGULAR: ClassVar[str] = 'regular'
```

telegram.constants.POLL_REGULAR

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

parse_explanation_entities (types=None)

Returns a dict that maps telegram. MessageEntity to str. It contains entities from this polls explanation filtered by their type attribute as the key, and the text that each entity belongs to as the value of the dict.

Note: This method should always be used instead of the <code>explanation_entities</code> attribute, since it calculates the correct substring from the message text based on UTF-16 codepoints. See <code>parse_explanation_entity</code> for more info.

Parameters types (List[str], optional) — List of MessageEntity types as strings. If the type attribute of an entity is contained in this list, it will be returned. Defaults to telegram.MessageEntity.ALL_TYPES.

Returns A dictionary of entities mapped to the text that belongs to them, calculated based on UTF-16 codepoints.

Return type Dict[telegram.MessageEntity, str]

parse_explanation_entity(entity)

Returns the text from a given telegram.MessageEntity.

Note: This method is present because Telegram calculates the offset and length in UTF-16 codepoint pairs, which some versions of Python don't handle automatically. (That is, you can't just slice Message.text with the offset and length.)

Parameters entity (telegram.MessageEntity) – The entity to extract the text from. It must be an entity that belongs to this message.

Returns The text of the given entity.

Return type str

Raises RuntimeError – If the poll has no explanation.

```
to_dict()
```

See telegram. TelegramObject.to_dict().

3.2.61 telegram.PollAnswer

```
class telegram.PollAnswer(poll_id, user, option_ids, **_kwargs)
```

Bases: telegram.base.TelegramObject

This object represents an answer of a user in a non-anonymous poll.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their poll_id, user and options_ids are equal.

poll_id

Unique poll identifier.

Type str

user

The user, who changed the answer to the poll.

```
Type telegram. User
```

option_ids

Identifiers of answer options, chosen by the user.

```
Type List[int]
```

Parameters

- poll_id (str) Unique poll identifier.
- user (telegram. User) The user, who changed the answer to the poll.
- **option_ids** (List[int]) 0-based identifiers of answer options, chosen by the user. May be empty if the user retracted their vote.

```
classmethod de_json(data, bot)
```

See telegram. TelegramObject.de_json().

3.2.62 telegram.PollOption

```
class telegram.PollOption(text, voter_count, **_kwargs)
```

Bases: telegram.base.TelegramObject

This object contains information about one answer option in a poll.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their text and voter count are equal.

Parameters

- **text** (str) Option text, 1-100 characters.
- voter_count (int) Number of users that voted for this option.

text

Option text, 1-100 characters.

```
Type str
```

voter_count

Number of users that voted for this option.

```
Type int
```

```
MAX_LENGTH: ClassVar[int] = 100
```

telegram.constants.MAX_POLL_OPTION_LENGTH

3.2.63 telegram.ProximityAlertTriggered

```
class telegram.ProximityAlertTriggered (traveler, watcher, distance, **_kwargs)
```

```
Bases: \verb"telegram.base.TelegramObject"
```

This object represents the content of a service message, sent whenever a user in the chat triggers a proximity alert set by another user.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their traveler, watcher and distance are equal.

Parameters

- traveler (telegram. User) User that triggered the alert
- watcher (telegram. User) User that set the alert
- distance (int) The distance between the users

traveler

User that triggered the alert

Type telegram. User

watcher

User that set the alert

Type telegram. User

distance

The distance between the users

Type int

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

3.2.64 telegram.ReplyKeyboardRemove

```
class telegram.ReplyKeyboardRemove(selective=False, **_kwargs)
```

 $Bases: \verb"telegram.replymarkup.ReplyMarkup"$

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 telegram.ReplyKeyboardMarkup).

Example

A user votes in a poll, bot returns confirmation message in reply to the vote and removes the keyboard for that user, while still showing the keyboard with poll options to users who haven't voted yet.

Note: User will not be able to summon this keyboard; if you want to hide the keyboard from sight but keep it accessible, use telegram. ReplyKeyboardMarkup.one_time_keyboard.

Parameters

- **selective** (bool, optional) Use this parameter if you want to remove the keyboard for specific users only. Targets:
 - 1) Users that are @mentioned in the text of the telegram. Message object.
- 2) If the bot's message is a reply (has *reply_to_message_id*), sender of the original message.
- **kwargs (dict) Arbitrary keyword arguments.

remove_keyboard

Requests clients to remove the custom keyboard.

Type True

selective

Optional. Use this parameter if you want to remove the keyboard for specific users only.

Type bool

3.2.65 telegram.ReplyKeyboardMarkup

This object represents a custom keyboard with reply options.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their the size of *keyboard* and all the buttons are equal.

Example

A user requests to change the bot's language, bot replies to the request with a keyboard to select the new language. Other users in the group don't see the keyboard.

Parameters

- **keyboard** (List[List[str | telegram.KeyboardButton]]) Array of button rows, each represented by an Array of telegram.KeyboardButton objects.
- resize_keyboard (bool, optional) Requests clients to resize the keyboard vertically for optimal fit (e.g., make the keyboard smaller if there are just two rows of buttons). Defaults to False, in which case the custom keyboard is always of the same height as the app's standard keyboard.
- one_time_keyboard (bool, 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** (bool, optional) Use this parameter if you want to show the keyboard to specific users only. Targets:
 - 1) Users that are @mentioned in the text of the telegram. Message object.
- 2) If the bot's message is a reply (has reply_to_message_id), sender of the original message.

Defaults to False.

• input_field_placeholder (str, optional) – The placeholder to be shown in the input field when the keyboard is active; 1-64 characters.

New in version 13.7.

• **kwargs (dict) - Arbitrary keyword arguments.

keyboard

Array of button rows.

```
Type List[List[telegram.KeyboardButton|str]]
```

resize_keyboard

Optional. Requests clients to resize the keyboard.

Type bool

one time keyboard

Optional. Requests clients to hide the keyboard as soon as it's been used.

Type bool

selective

Optional. Show the keyboard to specific users only.

Type bool

input_field_placeholder

Optional. The placeholder shown in the input field when the reply is active.

New in version 13.7.

Type str

classmethod from button (button, resize keyboard=False, one time keyboard=False, selective=False, input_field_placeholder=None, **kwargs)

Shortcut for:

```
ReplyKeyboardMarkup([[button]], **kwargs)
```

Return a ReplyKeyboardMarkup from a single KeyboardButton.

Parameters

- button (telegram. KeyboardButton | str) The button to use in the markup.
- resize keyboard (bool, optional) Requests clients to resize the keyboard vertically for optimal fit (e.g., make the keyboard smaller if there are just two rows of buttons). Defaults to False, in which case the custom keyboard is always of the same height as the app's standard keyboard.
- one_time_keyboard (bool, 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 (bool, optional) Use this parameter if you want to show the keyboard to specific users only. Targets:
 - 1) Users that are @mentioned in the text of the Message object.
- 2) If the bot's message is a reply (has reply_to_message_id), sender of the original message.

Defaults to False.

• input_field_placeholder (str) - Optional. The placeholder shown in the input field when the reply is active.

New in version 13.7.

• **kwargs (dict) - Arbitrary keyword arguments.

```
classmethod from_column (button_column,
                                                                    resize_keyboard=False,
                               one time keyboard=False.
                                                               selective=False.
                               put_field_placeholder=None, **kwargs)
```

Shortcut for:

```
ReplyKeyboardMarkup([[button] for button in button_column], **kwargs)
```

Return a ReplyKeyboardMarkup from a single column of KeyboardButtons.

Parameters

- button_column (List[telegram.KeyboardButton | str]) The button to use in the markup.
- resize_keyboard (bool, optional) Requests clients to resize the keyboard vertically for optimal fit (e.g., make the keyboard smaller if there are just two rows of buttons). Defaults to False, in which case the custom keyboard is always of the same height as the app's standard keyboard.

- one_time_keyboard (bool, 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** (bool, optional) Use this parameter if you want to show the keyboard to specific users only. Targets:
 - 1) Users that are @mentioned in the text of the Message object.
- 2) If the bot's message is a reply (has reply_to_message_id), sender of the original message.

Defaults to False.

• input_field_placeholder (str) - Optional. The placeholder shown in the input field when the reply is active.

New in version 13.7.

• **kwargs (dict) - Arbitrary keyword arguments.

classmethod from_row (button_row, resize_keyboard=False, one_time_keyboard=False, selective=False, input_field_placeholder=None, **kwargs)

Shortcut for:

```
ReplyKeyboardMarkup([button_row], **kwargs)
```

Return a ReplyKeyboardMarkup from a single row of KeyboardButtons.

Parameters

- button_row (List[telegram.KeyboardButton|str]) The button to use in the markup.
- resize_keyboard (bool, optional) Requests clients to resize the keyboard vertically for optimal fit (e.g., make the keyboard smaller if there are just two rows of buttons). Defaults to False, in which case the custom keyboard is always of the same height as the app's standard keyboard.
- one_time_keyboard (bool, 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** (bool, optional) Use this parameter if you want to show the keyboard to specific users only. Targets:
 - 1) Users that are @mentioned in the text of the Message object.
- 2) If the bot's message is a reply (has reply_to_message_id), sender of the original message.

Defaults to False.

• input_field_placeholder (str) - Optional. The placeholder shown in the input field when the reply is active.

New in version 13.7.

• **kwargs (dict) - Arbitrary keyword arguments.

to_dict()

See telegram. TelegramObject.to_dict().

3.2.66 telegram.ReplyMarkup

class telegram.ReplyMarkup

Bases: telegram.base.TelegramObject

Base class for Telegram ReplyMarkup Objects.

See telegram. Inline Keyboard Markup, telegram. Reply Keyboard Markup, telegram. Reply Keyboard Remove and telegram. Force Reply for detailed use.

3.2.67 telegram.SentWebAppMessage

```
class telegram.SentWebAppMessage(inline_message_id=None, **_kwargs)
```

Bases: telegram.base.TelegramObject

Contains information about an inline message sent by a Web App on behalf of a user.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their <code>inline_message_id</code> are equal.

New in version 13.12.

Parameters inline_message_id (str, optional) - Identifier of the sent inline message.

Available only if there is an *inline* keyboard attached to the message.

inline_message_id

Optional. Identifier of the sent inline message. Available only if there is an *inline keyboard* attached to the message.

Type str

3.2.68 telegram.TelegramObject

class telegram.TelegramObject

Bases: object

Base class for most Telegram objects.

$classmethod de_json(data, bot)$

Converts JSON data to a Telegram object.

Parameters

- data (Dict[str,...]) The JSON data.
- bot (telegram.Bot) The bot associated with this object.

Returns The Telegram object.

${\tt classmethod\ de_list}\,(\textit{data}, \textit{bot})$

Converts JSON data to a list of Telegram objects.

Parameters

- data (Dict[str,...]) The JSON data.
- **bot** (telegram.Bot) The bot associated with these objects.

Returns A list of Telegram objects.

to dict()

Gives representation of object as dict.

Returns dict

to_json()

Gives a JSON representation of object.

Returns str

3.2.69 telegram. Update

Bases: telegram.base.TelegramObject

This object represents an incoming update.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their update_id is equal.

Note: At most one of the optional parameters can be present in any given update.

Parameters

- update_id (int) The update's unique identifier. Update identifiers start from a certain positive number and increase sequentially. This ID becomes especially handy if you're using Webhooks, since it allows you to ignore repeated updates or to restore the correct update sequence, should they get out of order. If there are no new updates for at least a week, then identifier of the next update will be chosen randomly instead of sequentially.
- message (telegram. Message, optional) New incoming message of any kind text, photo, sticker, etc.
- edited_message (telegram.Message, optional) New version of a message that is known to the bot and was edited.
- **channel_post** (*telegram.Message*, optional) New incoming channel post of any kind text, photo, sticker, etc.
- edited_channel_post (telegram.Message, optional) New version of a channel post that is known to the bot and was edited.
- inline_query (telegram.InlineQuery, optional) New incoming inline query.
- **chosen_inline_result** (telegram.ChosenInlineResult, optional) The result of an inline query that was chosen by a user and sent to their chat partner.
- callback_query (telegram.CallbackQuery, optional) New incoming callback query.
- **shipping_query** (*telegram.ShippingQuery*, optional) New incoming shipping query. Only for invoices with flexible price.
- pre_checkout_query (telegram.PreCheckoutQuery, optional) New incoming pre-checkout query. Contains full information about checkout.
- **poll** (*telegram.Poll*, optional) New poll state. Bots receive only updates about stopped polls and polls, which are sent by the bot.
- **poll_answer** (*telegram.PollAnswer*, optional) A user changed their answer in a non-anonymous poll. Bots receive new votes only in polls that were sent by the bot itself.

• my_chat_member (telegram.ChatMemberUpdated, optional) - The bot's chat member status was updated in a chat. For private chats, this update is received only when the bot is blocked or unblocked by the user.

New in version 13.4.

• chat_member (telegram.ChatMemberUpdated, optional) — A chat member's status was updated in a chat. The bot must be an administrator in the chat and must explicitly specify 'chat_member' in the list of 'allowed_updates' to receive these updates (see telegram.Bot.get_updates(), telegram.Bot.set_webhook(), telegram.ext.Updater.start_polling() and telegram.ext.Updater.start_webhook()).

New in version 13.4.

• chat_join_request (telegram.ChatJoinRequest, optional) — A request to join the chat has been sent. The bot must have the telegram. ChatPermissions.can_invite_users administrator right in the chat to receive these updates.

New in version 13.8.

• **kwargs (dict) - Arbitrary keyword arguments.

update_id

The update's unique identifier.

Type int

message

Optional. New incoming message.

Type telegram. Message

edited message

Optional. New version of a message.

Type telegram. Message

channel_post

Optional. New incoming channel post.

Type telegram. Message

edited_channel_post

Optional. New version of a channel post.

Type telegram.Message

inline_query

Optional. New incoming inline query.

Type telegram. InlineQuery

chosen_inline_result

Optional. The result of an inline query that was chosen by a user.

Type telegram.ChosenInlineResult

callback_query

Optional. New incoming callback query.

Type telegram.CallbackQuery

shipping_query

Optional. New incoming shipping query.

Type telegram. Shipping Query

pre_checkout_query

Optional. New incoming pre-checkout query.

Type telegram.PreCheckoutQuery

poll

Optional. New poll state. Bots receive only updates about stopped polls and polls, which are sent by the bot.

Type telegram.Poll

poll_answer

Optional. A user changed their answer in a non-anonymous poll. Bots receive new votes only in polls that were sent by the bot itself.

Type telegram.PollAnswer

my_chat_member

Optional. The bot's chat member status was updated in a chat. For private chats, this update is received only when the bot is blocked or unblocked by the user.

New in version 13.4.

Type telegram.ChatMemberUpdated

chat member

Optional. A chat member's status was updated in a chat. The bot must be an administrator in the chat and must explicitly specify 'chat_member' in the list of 'allowed_updates' to receive these updates (see telegram.Bot.get_updates(), telegram.Bot.set_webhook(), telegram.ext.Updater.start_polling() and telegram.ext.Updater.start_webhook()).

New in version 13.4.

Type telegram.ChatMemberUpdated

chat_join_request

Optional. A request to join the chat has been sent. The bot must have the 'can_invite_users' administrator right in the chat to receive these updates.

New in version 13.8.

Type telegram.ChatJoinRequest

New in version 13.5.

CALLBACK_QUERY = 'callback_query'

telegram.constants.UPDATE_CALLBACK_QUERY

New in version 13.5.

CHANNEL_POST = 'channel_post'

telegram.constants.UPDATE_CHANNEL_POST

New in version 13.5.

CHAT_JOIN_REQUEST = 'chat_join_request'

telegram.constants.UPDATE_CHAT_JOIN_REQUEST

New in version 13.8.

CHAT_MEMBER = 'chat_member'

telegram.constants.UPDATE_CHAT_MEMBER

New in version 13.5.

CHOSEN_INLINE_RESULT = 'chosen_inline_result'

telegram.constants.UPDATE_CHOSEN_INLINE_RESULT

New in version 13.5.

EDITED_CHANNEL_POST = 'edited_channel_post'

telegram.constants.UPDATE_EDITED_CHANNEL_POST

New in version 13.5.

EDITED_MESSAGE = 'edited_message'

telegram.constants.UPDATE_EDITED_MESSAGE

New in version 13.5.

INLINE_QUERY = 'inline_query'

telegram.constants.UPDATE_INLINE_QUERY

New in version 13.5.

MESSAGE = 'message'

telegram.constants.UPDATE_MESSAGE

New in version 13.5.

MY_CHAT_MEMBER = 'my_chat_member'

telegram.constants.UPDATE_MY_CHAT_MEMBER

New in version 13.5.

POLL = 'poll'

telegram.constants.UPDATE_POLL

New in version 13.5.

POLL_ANSWER = 'poll_answer'

telegram.constants.UPDATE_POLL_ANSWER

New in version 13.5.

PRE_CHECKOUT_QUERY = 'pre_checkout_query'

telegram.constants.UPDATE_PRE_CHECKOUT_QUERY

New in version 13.5.

SHIPPING_QUERY = 'shipping_query'

telegram.constants.UPDATE_SHIPPING_QUERY

New in version 13.5.

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

property effective_chat

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, pre_checkout_query, poll and poll_answer.

Type telegram. Chat

property effective_message

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, pre_checkout_query, poll, poll_answer, my_chat_member, chat_member as well as chat_join_request in case the bot is missing the telegram. ChatPermissions.can_invite_users administrator right in the chat.

Type telegram. Message

property effective_user

The user that sent this update, no matter what kind of update this is. Will be None for channel_post and poll.

Type telegram. User

3.2.70 telegram.User

Bases: telegram.base.TelegramObject

This object represents a Telegram user or bot.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their i d is equal.

Parameters

- id (int) Unique identifier for this user or bot.
- is bot (bool) True, if this user is a bot.
- first_name (str) User's or bots first name.
- last_name (str, optional) User's or bots last name.
- username (str, optional) User's or bots username.
- language_code (str, optional) IETF language tag of the user's language.
- can_join_groups (str, optional) True, if the bot can be invited to groups. Returned only in telegram.Bot.get_me requests.
- can_read_all_group_messages (str, optional) True, if privacy mode is disabled for the bot. Returned only in telegram.Bot.get_me requests.
- **supports_inline_queries** (str, optional) True, if the bot supports inline queries. Returned only in telegram.Bot.get_me requests.
- **bot** (*telegram.Bot*, optional) The Bot to use for instance methods.

id

Unique identifier for this user or bot.

Type int

is_bot

True, if this user is a bot.

Type bool

first_name

User's or bot's first name.

Type str

last_name

Optional. User's or bot's last name.

Type str

username

Optional. User's or bot's username.

Type str

language_code

Optional. IETF language tag of the user's language.

Type str

can_join_groups

Optional. True, if the bot can be invited to groups. Returned only in telegram.Bot.get_me requests.

Type str

can_read_all_group_messages

Optional. True, if privacy mode is disabled for the bot. Returned only in telegram.Bot.get_me requests.

Type str

supports_inline_queries

Optional. True, if the bot supports inline queries. Returned only in telegram.Bot.get_me requests.

Type str

bot

Optional. The Bot to use for instance methods.

Type telegram.Bot

approve_join_request (chat_id, timeout=None, api_kwargs=None)

Shortcut for:

```
bot.approve_chat_join_request(user_id=update.effective_user.id, *args, _ →**kwargs)
```

For the documentation of the arguments, please see telegram.Bot. approve_chat_join_request().

New in version 13.8.

Returns On success, True is returned.

Return type bool

copy_message (chat_id, message_id, caption=None, parse_mode=None, caption_entities=None, disable_notification=None, reply_to_message_id=None, allow_sending_without_reply=None, reply_markup=None, timeout=None, api_kwargs=None, protect_content=None)

Shortcut for:

```
bot.copy_message(from_chat_id=update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.copy_message().

Returns On success, instance representing the message posted.

Return type telegram. Message

decline_join_request (chat_id, timeout=None, api_kwargs=None)

Shortcut for:

```
bot.decline_chat_join_request(user_id=update.effective_user.id, *args,__

***kwargs)
```

For the documentation of the arguments, please see $telegram.Bot.decline_chat_join_request()$.

New in version 13.8.

Returns On success, True is returned.

```
Return type bool
```

property full_name

Convenience property. The user's first_name, followed by (if available) last_name.

Type str

get_menu_button (timeout=None, api_kwargs=None)

Shortcut for:

```
bot.get_chat_menu_button(chat_id=update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot. get_chat_menu_button().

..seealso:: set_menu_button()

New in version 13.12.

Returns On success, the current menu button is returned.

Return type telegram. MenuButton

get_profile_photos (offset=None, limit=100, timeout=None, api_kwargs=None)

Shortcut for:

```
bot.get_user_profile_photos(update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see $telegram.Bot.get_user_profile_photos()$.

property link

Convenience property. If username is available, returns a t.me link of the user.

Type str

mention_button (name=None)

Shortcut for:

```
InlineKeyboardButton(text=name, url=f"tg://user?id={update.effective_user. \rightarrowid}")
```

New in version 13.9.

Parameters name (str) – The name used as a link for the user. Defaults to full_name.

Returns InlineButton with url set to the user mention

Return type telegram. InlineKeyboardButton

mention html(name=None)

Parameters name (str) – The name used as a link for the user. Defaults to full_name.

Returns The inline mention for the user as HTML.

Return type str

mention_markdown (name=None)

Note: telegram.ParseMode.MARKDOWN is a legacy mode, retained by Telegram for backward compatibility. You should use mention_markdown_v2() instead.

Parameters name (str) – The name used as a link for the user. Defaults to full_name.

Returns The inline mention for the user as markdown (version 1).

```
Return type str
```

```
mention_markdown_v2 (name=None)
```

Parameters name (str) – The name used as a link for the user. Defaults to full_name.

Returns The inline mention for the user as markdown (version 2).

Return type str

property name

Convenience property. If available, returns the user's username prefixed with "@". If username is not available, returns full_name.

Type str

pin_message (message_id, disable_notification=None, timeout=None, api_kwargs=None)

Shortcut for:

For the documentation of the arguments, please see telegram. Bot.pin_chat_message().

Returns On success, True is returned.

Return type bool

```
\verb§send_action§ (action, timeout=None, api\_kwargs=None) \\
```

Alias for send chat action

Shortcut for:

```
bot.send_animation(update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_animation().

Returns On success, instance representing the message posted.

Return type telegram. Message

send_audio (audio, duration=None, performer=None, title=None, caption=None, disable_notification=None, reply_to_message_id=None, reply_markup=None,
timeout=20, parse_mode=None, thumb=None, api_kwargs=None, allow_sending_without_reply=None, caption_entities=None, filename=None,
protect_content=None)

Shortcut for:

```
bot.send_audio(update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram. Bot.send_audio().

Returns On success, instance representing the message posted.

Return type telegram. Message

send_chat_action (action, timeout=None, api_kwargs=None)

Shortcut for:

```
bot.send_chat_action(update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_chat_action().

```
Returns On success.
```

Return type True

send_contact (phone_number=None, first_name=None, last_name=None, disable_notification=None, reply_to_message_id=None, reply_markup=None,
timeout=None, contact=None, vcard=None, api_kwargs=None, allow_sending_without_reply=None, protect_content=None)

Shortcut for:

```
bot.send_contact(update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_contact().

Returns On success, instance representing the message posted.

Return type telegram. Message

Shortcut for:

```
bot.copy_message(chat_id=update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.copy_message().

Returns On success, instance representing the message posted.

Return type telegram. Message

send_dice (disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=None, emoji=None, api_kwargs=None, allow_sending_without_reply=None, protect_content=None)

Shortcut for:

```
bot.send_dice(update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_dice().

Returns On success, instance representing the message posted.

Return type telegram. Message

send_document (document, filename=None, caption=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=20, parse_mode=None, thumb=None, api_kwargs=None, disable_content_type_detection=None, allow_sending_without_reply=None, caption_entities=None, protect_content=None)

Shortcut for:

```
bot.send_document(update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_document().

Returns On success, instance representing the message posted.

Return type telegram. Message

```
bot.send_game(update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_game().

Returns On success, instance representing the message posted.

Return type telegram. Message

provider_token, send invoice (title, description, payload, currency. start_parameter=None, photo_url=None, photo_size=None, photo_width=None, photo_height=None, need_name=None, need_phone_number=None, need_email=None, need_shipping_address=None, is_flexible=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, provider data=None, send phone number to provider=None, send email to provider=None, timeout=None, api kwargs=None, allow_sending_without_reply=None, max_tip_amount=None, suggested_tip_amounts=None, protect_content=None)

Shortcut for:

```
bot.send_invoice(update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_invoice().

Warning: As of API 5.2 start_parameter is an optional argument and therefore the order of the arguments had to be changed. Use keyword arguments to make sure that the arguments are passed correctly.

Changed in version 13.5: As of Bot API 5.2, the parameter start_parameter is optional.

Returns On success, instance representing the message posted.

Return type telegram. Message

send_location (latitude=None, longitude=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=None,
location=None, live_period=None, api_kwargs=None, horizontal_accuracy=None, heading=None, proximity_alert_radius=None, allow_sending_without_reply=None, protect_content=None)

Shortcut for:

```
bot.send_location(update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_location().

Returns On success, instance representing the message posted.

Return type telegram. Message

 $\begin{tabular}{ll} {\bf send_media_group} (media, & disable_notification=None, & reply_to_message_id=None, & time-out=20, & api_kwargs=None, & allow_sending_without_reply=None, & protect_content=None) \\ \end{tabular}$

Shortcut for:

```
bot.send_media_group(update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_media_group().

Returns] On success, instance representing the message posted.

Return type List[telegram.Message

send_message (text, parse_mode=None, disable_web_page_preview=None, disable_notification=None, reply_to_message_id=None, reply_markup=None,
timeout=None, api_kwargs=None, allow_sending_without_reply=None, entities=None, protect_content=None)

Shortcut for:

```
bot.send_message(update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_message().

Returns On success, instance representing the message posted.

```
Return type telegram. Message
```

Shortcut for:

```
bot.send_photo(update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_photo().

Returns On success, instance representing the message posted.

```
Return type telegram. Message
```

send_pol1 (question, options, is_anonymous=True, type='regular', allows_multiple_answers=False, correct_option_id=None, is_closed=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=None, explanation=None, explanation_parse_mode=None, open_period=None,
close_date=None, api_kwargs=None, allow_sending_without_reply=None, explanation_entities=None, protect_content=None)

Shortcut for:

```
bot.send_poll(update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_poll().

Returns On success, instance representing the message posted.

```
Return type telegram. Message
```

Shortcut for:

```
bot.send_sticker(update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_sticker().

Returns On success, instance representing the message posted.

```
Return type telegram. Message
```

```
send_venue (latitude=None, longitude=None, title=None, address=None, foursquare_id=None, disable_notification=None, reply_to_message_id=None, reply_markup=None, timeout=None, venue=None, foursquare_type=None, api_kwargs=None, google_place_id=None, google_place_type=None, allow_sending_without_reply=None, protect_content=None)
```

Shortcut for:

```
bot.send_venue(update.effective_user.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram.Bot.send_venue().

Returns On success, instance representing the message posted.

```
Return type telegram. Message
```

```
duration=None,
send_video(video,
                                        caption=None,
                                                         disable_notification=None,
              ply_to_message_id=None,
                                        reply_markup=None,
                                                             timeout=20,
                                                                           width=None,
              height=None, parse_mode=None, supports_streaming=None,
                                                                          thumb=None,
              api_kwargs=None, allow_sending_without_reply=None, caption_entities=None,
             filename=None, protect_content=None)
    Shortcut for:
    bot.send_video(update.effective_user.id, *args,
    For the documentation of the arguments, please see telegram.Bot.send_video().
        Returns On success, instance representing the message posted.
        Return type telegram. Message
send_video_note (video_note, duration=None, length=None, disable_notification=None, re-
                    ply_to_message_id=None, reply_markup=None, timeout=20, thumb=None,
                    api_kwargs=None, allow_sending_without_reply=None, filename=None,
                    protect_content=None)
    Shortcut for:
    bot.send_video_note(update.effective_user.id, *args, **kwargs)
    For the documentation of the arguments, please see telegram. Bot. send video note().
        Returns On success, instance representing the message posted.
        Return type telegram. Message
                                                        disable notification=None,
send voice (voice,
                      duration=None,
                                        caption=None,
             ply_to_message_id=None, reply_markup=None, timeout=20, parse_mode=None,
             api\_kwargs=None, \quad allow\_sending\_without\_reply=None, \quad caption\_entities=None,
             filename=None, protect_content=None)
    Shortcut for:
    bot.send_voice(update.effective_user.id, *args, **kwargs)
    For the documentation of the arguments, please see telegram.Bot.send_voice().
        Returns On success, instance representing the message posted.
        Return type telegram. Message
set_menu_button (menu_button=None, timeout=None, api_kwargs=None)
    Shortcut for:
    bot.set_chat_menu_button(chat_id=update.effective_user.id, *args, **kwargs)
    For
           the
                 documentation
                                 of
                                       the
                                             arguments,
                                                           please
                                                                    see
                                                                          telegram.Bot.
    set_chat_menu_button().
    ..seealso:: get_menu_button()
    New in version 13.12.
        Returns On success, True is returned.
        Return type bool
unpin_all_messages (timeout=None, api_kwargs=None)
    Shortcut for:
    bot.unpin_all_chat_messages(chat_id=update.effective_user.id,
                                     *args,
```

**kwarqs)

```
For the documentation of the arguments, please see telegram.Bot.unpin\_all\_chat\_messages().
```

Returns On success, True is returned.

Return type bool

unpin_message (timeout=None, api_kwargs=None, message_id=None)

Shortcut for:

For the documentation of the arguments, please see telegram.Bot.unpin_chat_message().

Returns On success, True is returned.

Return type bool

3.2.71 telegram. User Profile Photos

```
\verb|class| telegram. UserProfilePhotos| (total\_count, photos, **\_kwargs)|
```

Bases: telegram.base.TelegramObject

This object represent a user's profile pictures.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their total_count and photos are equal.

Parameters

- total_count (int) Total number of profile pictures the target user has.
- **photos** (List[List[telegram.PhotoSize]]) Requested profile pictures (in up to 4 sizes each).

total_count

Total number of profile pictures.

```
Type int
```

photos

Requested profile pictures.

```
Type List[List[telegram.PhotoSize]]
```

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

to_dict()

See telegram. TelegramObject.to_dict().

3.2.72 telegram. Venue

Bases: telegram.base.TelegramObject

This object represents a venue.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their location and title are equal.

Note: Foursquare details and Google Pace details are mutually exclusive. However, this behaviour is undocumented and might be changed by Telegram.

Parameters

- location (telegram.Location) Venue location.
- title (str) Name of the venue.
- address (str) Address of the venue.
- **foursquare_id** (str, optional) Foursquare identifier of the venue.
- **foursquare_type** (str, optional) Foursquare type of the venue. (For example, "arts_entertainment/default", "arts_entertainment/aquarium" or "food/icecream".)
- google_place_id (str, optional) Google Places identifier of the venue.
- **google_place_type** (str, optional) Google Places type of the venue. (See supported types.)
- **kwargs (dict) Arbitrary keyword arguments.

location

Venue location.

Type telegram.Location

title

Name of the venue.

Type str

address

Address of the venue.

Type str

foursquare_id

Optional. Foursquare identifier of the venue.

Type str

foursquare_type

Optional. Foursquare type of the venue.

Type str

google_place_id

Optional. Google Places identifier of the venue.

Type str

google_place_type

Optional. Google Places type of the venue.

Type str

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

3.2.73 telegram. Video

Bases: telegram.base.TelegramObject

This object represents a video file.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their file_unique_id is equal.

Parameters

- **file_id** (str) Identifier for this file, which can be used to download or reuse the file.
- **file_unique_id** (str) Unique identifier for this file, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.
- width (int) Video width as defined by sender.
- height (int) Video height as defined by sender.
- duration (int) Duration of the video in seconds as defined by sender.
- thumb (telegram.PhotoSize, optional) Video thumbnail.
- **file_name** (str, optional) Original filename as defined by sender.
- mime_type (str, optional) Mime type of a file as defined by sender.
- file_size (int, optional) File size.
- **bot** (*telegram.Bot*, optional) The Bot to use for instance methods.
- **kwargs (dict) Arbitrary keyword arguments.

file id

Identifier for this file.

Type str

file_unique_id

Unique identifier for this file, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.

Type str

width

Video width as defined by sender.

Type int

height

Video height as defined by sender.

Type int

duration

Duration of the video in seconds as defined by sender.

Type int

thumb

Optional. Video thumbnail.

Type telegram.PhotoSize

file_name

Optional. Original filename as defined by sender.

```
Type str
mime_type
    Optional. Mime type of a file as defined by sender.
        Type str
file_size
    Optional. File size.
        Type int
bot
    Optional. The Bot to use for instance methods.
        Type telegram.Bot
classmethod de_json(data, bot)
    See telegram. TelegramObject.de_json().
get_file (timeout=None, api_kwargs=None)
    Convenience wrapper over telegram.Bot.get_file
    For the documentation of the arguments, please see telegram.Bot.get_file().
        Returns telegram. File
        Raises telegram.error.TelegramError-
```

3.2.74 telegram.VideoChatEnded

```
class telegram.VideoChatEnded(duration, **_kwargs)
    Bases: telegram.base.TelegramObject
```

This object represents a service message about a video chat ended in the chat.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their duration are equal.

New in version 13.12.

Parameters

- duration (int) Voice chat duration in seconds.
- **kwargs (dict) Arbitrary keyword arguments.

duration

Voice chat duration in seconds.

Type int

3.2.75 telegram. Video Chat Participants Invited

```
class telegram.VideoChatParticipantsInvited(users, **_kwargs)
    Bases: telegram.base.TelegramObject
```

This object represents a service message about new members invited to a video chat.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their users are equal.

New in version 13.12.

Parameters

- users (List[telegram.User]) New members that were invited to the video chat.
- **kwargs (dict) Arbitrary keyword arguments.

users

New members that were invited to the video chat.

```
Type List[telegram.User]
classmethod de_json(data, bot)
    See telegram.TelegramObject.de_json().
to_dict()
    See telegram.TelegramObject.to_dict().
```

3.2.76 telegram.VideoChatScheduled

```
class telegram.VideoChatScheduled(start_date, **_kwargs)
    Bases: telegram.base.TelegramObject
```

This object represents a service message about a video chat scheduled in the chat.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their start_date are equal.

New in version 13.12.

Parameters

- **start_date** (datetime.datetime) Point in time (Unix timestamp) when the video chat is supposed to be started by a chat administrator
- **kwargs (dict) Arbitrary keyword arguments.

start_date

Point in time (Unix timestamp) when the video chat is supposed to be started by a chat administrator

```
Type datetime.datetime
```

```
classmethod de_json(data, bot)
    See telegram.TelegramObject.de_json().
to_dict()
    See telegram.TelegramObject.to_dict().
```

3.2.77 telegram.VideoChatStarted

```
class telegram.VideoChatStarted(**_kwargs)
Bases: telegram.base.TelegramObject
```

This object represents a service message about a video chat started in the chat. Currently holds no information

New in version 13.12.

3.2.78 telegram. Video Note

This object represents a video message (available in Telegram apps as of v.4.0).

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their file_unique_id is equal.

Parameters

- **file_id** (str) Identifier for this file, which can be used to download or reuse the file.
- **file_unique_id** (str) Unique identifier for this file, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.
- **length** (int) Video width and height (diameter of the video message) as defined by sender.
- duration (int) Duration of the video in seconds as defined by sender.
- thumb (telegram.PhotoSize, optional) Video thumbnail.
- file size (int, optional) File size.
- **bot** (*telegram.Bot*, optional) The Bot to use for instance methods.
- **kwargs (dict) Arbitrary keyword arguments.

file_id

Identifier for this file.

Type str

file_unique_id

Unique identifier for this file, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.

Type str

length

Video width and height as defined by sender.

Type int

duration

Duration of the video in seconds as defined by sender.

Type int

thumb

Optional. Video thumbnail.

Type telegram. PhotoSize

file_size

Optional. File size.

Type int

bot

Optional. The Bot to use for instance methods.

Type telegram.Bot

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

get_file (timeout=None, api_kwargs=None)

Convenience wrapper over telegram.Bot.get_file

For the documentation of the arguments, please see telegram.Bot.get_file().

Returns telegram.File

Raises telegram.error.TelegramError -

3.2.79 telegram. Voice

3

This object represents a voice note.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their file_unique_id is equal.

Parameters

- **file_id** (str) Identifier for this file, which can be used to download or reuse the file
- **file_unique_id**(str) Unique identifier for this file, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.
- duration (int, optional) Duration of the audio in seconds as defined by sender.
- mime_type (str, optional) MIME type of the file as defined by sender.
- file_size (int, optional) File size.
- **bot** (*telegram.Bot*, optional) The Bot to use for instance methods.
- **kwargs (dict) Arbitrary keyword arguments.

file id

Identifier for this file.

Type str

file_unique_id

Unique identifier for this file, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.

Type str

duration

Duration of the audio in seconds as defined by sender.

Type int

mime_type

Optional. MIME type of the file as defined by sender.

Type str

file_size

Optional. File size.

Type int

bot

Optional. The Bot to use for instance methods.

Type telegram.Bot

get_file (timeout=None, api_kwargs=None)

 $Convenience\ wrapper\ over\ \textit{telegram.Bot.get_file}$

For the documentation of the arguments, please see telegram.Bot.get_file().

Returns telegram. File

Raises telegram.error.TelegramError -

3.2.80 telegram.VoiceChatStarted

telegram. VoiceChatStarted

alias of telegram.videochat.VideoChatStarted

Changed in version v13.12: Since Bot API 6.0, voice chat was renamed to video chat.

3.2.81 telegram.VoiceChatEnded

telegram. VoiceChatEnded

alias of telegram.videochat.VideoChatEnded

Changed in version v13.12: Since Bot API 6.0, voice chat was renamed to video chat.

3.2.82 telegram.VoiceChatScheduled

telegram. VoiceChatScheduled

alias of telegram. videochat. VideoChatScheduled

Changed in version v13.12: Since Bot API 6.0, voice chat was renamed to video chat.

3.2.83 telegram. Voice Chat Participants Invited

telegram. VoiceChatParticipantsInvited

alias of telegram.videochat.VideoChatParticipantsInvited

Changed in version v13.12: Since Bot API 6.0, voice chat was renamed to video chat.

3.2.84 telegram.WebAppData

class telegram.WebAppData(data, button_text, **_kwargs)

Bases: telegram.base.TelegramObject

Contains data sent from a Web App to the bot.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their data and button_text are equal.

New in version 13.12.

Parameters

- data (str) The data. Be aware that a bad client can send arbitrary data in this field.
- button_text (str) Text of the web_app keyboard button, from which the Web App was opened.

data

The data. Be aware that a bad client can send arbitrary data in this field.

Type str

button text

Text of the web_app keyboard button, from which the Web App was opened.

Warning: Be aware that a bad client can send arbitrary data in this field.

Type str

3.2.85 telegram.WebAppInfo

```
class telegram.WebAppInfo(url, **_kwargs)
    Bases: telegram.base.TelegramObject
```

This object contains information about a Web App.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their url are equal.

New in version 13.12.

Parameters url (str) – An HTTPS URL of a Web App to be opened with additional data as specified in Initializing Web Apps.

url

An HTTPS URL of a Web App to be opened with additional data as specified in Initializing Web Apps.

Type str

3.2.86 telegram. WebhookInfo

Bases: telegram.base.TelegramObject

This object represents a Telegram WebhookInfo.

Contains information about the current status of a webhook.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their url, has_custom_certificate, pending_update_count, ip_address, last_error_date, last_error_message, max_connections and allowed_updates are equal.

Parameters

- url (str) Webhook URL, may be empty if webhook is not set up.
- has_custom_certificate (bool) True, if a custom certificate was provided for webbook certificate checks.
- pending_update_count (int) Number of updates awaiting delivery.
- ip_address (str, optional) Currently used webhook IP address.
- last_error_date (int, optional) Unix time for the most recent error that happened when trying to deliver an update via webhook.
- last_error_message (str, optional) Error message in human-readable format for the most recent error that happened when trying to deliver an update via webhook.
- max_connections (int, optional) Maximum allowed number of simultaneous HTTPS connections to the webhook for update delivery.
- allowed_updates (List[str], optional) A list of update types the bot is subscribed to. Defaults to all update types, except telegram. Update.chat_member.
- last_synchronization_error_date (int, optional) Unix time of the most recent error that happened when trying to synchronize available updates with Telegram datacenters.

New in version 13.12.

url

Webhook URL.

Type str

has_custom_certificate

If a custom certificate was provided for webhook.

Type bool

pending_update_count

Number of updates awaiting delivery.

Type int

ip_address

Optional. Currently used webhook IP address.

Type str

last_error_date

Optional. Unix time for the most recent error that happened.

Type int

last_error_message

Optional. Error message in human-readable format.

Type str

max_connections

Optional. Maximum allowed number of simultaneous HTTPS connections.

Type int

allowed_updates

Optional. A list of update types the bot is subscribed to. Defaults to all update types, except telegram. Update.chat_member.

Type List[str]

last_synchronization_error_date

Optional. Unix time of the most recent error that happened when trying to synchronize available updates with Telegram datacenters.

New in version 13.12.

Type int

${\tt classmethod\ de_json}\,(\textit{data}, \textit{bot})$

See telegram. TelegramObject.de_json().

3.2.87 Stickers

telegram.Sticker

Bases: telegram.base.TelegramObject

This object represents a sticker.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their file_unique_id is equal.

Note: As of v13.11 is_video is a required argument and therefore the order of the arguments had to be changed. Use keyword arguments to make sure that the arguments are passed correctly.

Parameters

- file_id (str) Identifier for this file, which can be used to download or reuse the
 file.
- **file_unique_id**(str) Unique identifier for this file, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.
- width (int) Sticker width.
- height (int) Sticker height.
- is_animated (bool) True, if the sticker is animated.
- is_video (bool) True, if the sticker is a video sticker.

New in version 13.11.

- thumb (telegram.PhotoSize, optional) Sticker thumbnail in the .WEBP or .JPG format.
- emoji (str, optional) Emoji associated with the sticker
- **set_name** (str, optional) Name of the sticker set to which the sticker belongs.
- mask_position (telegram.MaskPosition, optional) For mask stickers, the position where the mask should be placed.
- file size (int, optional) File size.
- **bot** (*telegram.Bot*, optional) The Bot to use for instance methods.
- **(obj** (**kwarqs) dict): Arbitrary keyword arguments.

file id

Identifier for this file.

Type str

file_unique_id

Unique identifier for this file, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.

Type str

width

Sticker width.

Type int

height

Sticker height.

Type int

is_animated

True, if the sticker is animated.

Type bool

is_video

True, if the sticker is a video sticker.

New in version 13.11.

Type bool

thumb

Optional. Sticker thumbnail in the .webp or .jpg format.

```
Type telegram. PhotoSize
```

emoji

Optional. Emoji associated with the sticker.

```
Type str
```

set name

Optional. Name of the sticker set to which the sticker belongs.

```
Type str
```

mask_position

Optional. For mask stickers, the position where the mask should be placed.

```
Type telegram. MaskPosition
```

file_size

Optional. File size.

```
Type int
```

bot

Optional. The Bot to use for instance methods.

```
Type telegram. Bot
```

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

get_file (timeout=None, api_kwargs=None)

Convenience wrapper over telegram.Bot.get_file

For the documentation of the arguments, please see telegram.Bot.get_file().

```
Returns telegram. File
```

Raises telegram.error.TelegramError-

telegram.StickerSet

Bases: telegram.base.TelegramObject

This object represents a sticker set.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their name is equal.

Note: As of v13.11 is_video is a required argument and therefore the order of the arguments had to be changed. Use keyword arguments to make sure that the arguments are passed correctly.

Parameters

- name (str) Sticker set name.
- title (str) Sticker set title.
- is_animated (bool) True, if the sticker set contains animated stickers.
- is_video (bool) True, if the sticker set contains video stickers.

New in version 13.11.

```
• contains_masks (bool) - True, if the sticker set contains masks.
```

- **stickers** (List[telegram.Sticker]) List of all set stickers.
- thumb (telegram.PhotoSize, optional) Sticker set thumbnail in the .WEBP, .TGS, or .WEBM format.

name

Sticker set name.

Type str

title

Sticker set title.

Type str

is_animated

True, if the sticker set contains animated stickers.

Type bool

is_video

True, if the sticker set contains video stickers.

New in version 13.11.

Type bool

contains_masks

True, if the sticker set contains masks.

Type bool

stickers

List of all set stickers.

Type List[telegram.Sticker]

thumb

Optional. Sticker set thumbnail in the .WEBP, .TGS or .WEBM format.

Type telegram.PhotoSize

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

to dict()

See telegram. TelegramObject.to_dict().

telegram.MaskPosition

```
class telegram.MaskPosition(point, x_shift, y_shift, scale, **_kwargs)
    Bases: telegram.base.TelegramObject
```

This object describes the position on faces where a mask should be placed by default.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their point, x_shift, y_shift and, scale are equal.

point

The part of the face relative to which the mask should be placed. One of 'forehead', 'eyes', 'mouth', or 'chin'.

Type str

x_shift

Shift by X-axis measured in widths of the mask scaled to the face size, from left to right.

```
Type float
```

y_shift

Shift by Y-axis measured in heights of the mask scaled to the face size, from top to bottom.

```
Type float
```

scale

Mask scaling coefficient. For example, 2.0 means double size.

```
Type float
```

Note: type should be one of the following: *forehead*, *eyes*, *mouth* or *chin*. You can use the class constants for those.

Parameters

- point (str) The part of the face relative to which the mask should be placed. One of 'forehead', 'eyes', 'mouth', or 'chin'.
- **x_shift** (float) Shift by X-axis measured in widths of the mask scaled to the face size, from left to right. For example, choosing -1.0 will place mask just to the left of the default mask position.
- **y_shift** (float) Shift by Y-axis measured in heights of the mask scaled to the face size, from top to bottom. For example, 1.0 will place the mask just below the default mask position.
- scale (float) Mask scaling coefficient. For example, 2.0 means double size.

```
CHIN: ClassVar[str] = 'chin'
    telegram.constants.STICKER_CHIN

EYES: ClassVar[str] = 'eyes'
    telegram.constants.STICKER_EYES

FOREHEAD: ClassVar[str] = 'forehead'
    telegram.constants.STICKER_FOREHEAD

MOUTH: ClassVar[str] = 'mouth'
    telegram.constants.STICKER_MOUTH

classmethod de_json(data, bot)
    See telegram.TelegramObject.de_json().
```

3.2.88 Inline Mode

telegram.InlineQuery

This object represents an incoming inline query. When the user sends an empty query, your bot could return some default or trending results.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their i d is equal.

Note: In Python from is a reserved word, use from_user instead.

Parameters

- id (str) Unique identifier for this query.
- from_user(telegram.User) Sender.
- **query** (str) Text of the query (up to 256 characters).
- offset (str) Offset of the results to be returned, can be controlled by the bot.
- chat_type (str, optional) Type of the chat, from which the inline query was sent. Can be either telegram.Chat.SENDER for a private chat with the inline query sender, telegram.Chat.PRIVATE, telegram.Chat.GROUP, telegram.Chat.SUPERGROUP or telegram.Chat.CHANNEL. The chat type should be always known for requests sent from official clients and most third-party clients, unless the request was sent from a secret chat.

New in version 13.5.

- **location** (*telegram.Location*, optional) Sender location, only for bots that request user location.
- **bot** (*telegram.Bot*, optional) The Bot to use for instance methods.
- **kwargs (dict) Arbitrary keyword arguments.

id

Unique identifier for this query.

```
Type str
```

from_user

Sender.

```
Type telegram. User
```

query

Text of the query (up to 256 characters).

```
Type str
```

offset

Offset of the results to be returned, can be controlled by the bot.

```
Type \ \mathop{\hbox{\rm str}}
```

location

Optional. Sender location, only for bots that request user location.

```
Type telegram.Location
```

chat_type

Type of the chat, from which the inline query was sent.

New in version 13.5.

```
Type str, optional
```

MAX_RESULTS: ClassVar[int] = 50

```
telegram.constants.MAX_INLINE_QUERY_RESULTS
```

New in version 13.2.

Shortcut for:

For the documentation of the arguments, please see telegram.Bot. $answer_inline_query().$

Parameters auto_pagination (bool, optional) - If set to True, offset will be passed as current_offset to telegram.Bot.answer_inline_query(). Defaults to False.

Raises TypeError-If both current_offset and auto_pagination are supplied.

```
{\tt classmethod\ de\_json}\,(\textit{data}, \textit{bot})
```

See telegram. TelegramObject.de_json().

telegram.InlineQueryResult

```
{\tt class \ telegram.InlineQueryResult} \ ({\it type, id, **\_kwargs})
```

Bases: telegram.base.TelegramObject

Baseclass for the InlineQueryResult* classes.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their i d is equal.

Note: All URLs passed in inline query results will be available to end users and therefore must be assumed to be *public*.

Parameters

- **type** (str) Type of the result.
- id (str) Unique identifier for this result, 1-64 Bytes.
- **kwargs (dict) Arbitrary keyword arguments.

type

Type of the result.

Type str

id

Unique identifier for this result, 1-64 Bytes.

```
Type str
```

to_dict()

See telegram. TelegramObject.to_dict().

telegram.InlineQueryResultArticle

```
class telegram.InlineQueryResultArticle(id,
                                                              title,
                                                                         input_message_content,
                                                     reply_markup=None,
                                                                                     url=None,
                                                    hide_url=None,
                                                                             description=None,
                                                    thumb\_url = None,
                                                                            thumb_width=None,
                                                    thumb_height=None, **_kwargs)
     Bases: telegram.inline.inlinequeryresult.InlineQueryResult
     This object represents a Telegram InlineQueryResultArticle.
          Parameters
                • id (str) – Unique identifier for this result, 1-64 Bytes.
                • title (str) – Title of the result.
                • input_message_content (telegram.InputMessageContent) - Content
                  of the message to be sent.
                • reply markup (telegram. ReplyMarkup, optional) - Inline keyboard attached
                  to the message
                • url (str, optional) – URL of the result.
                • hide_url (bool, optional) - Pass True, if you don't want the URL to be shown in
                  the message.
                • description (str, optional) – Short description of the result.
                • thumb_url (str, optional) - Url of the thumbnail for the result.
                • thumb_width (int, optional) - Thumbnail width.
                • thumb_height (int, optional) - Thumbnail height.
                • **kwargs (dict) - Arbitrary keyword arguments.
     type
          'article'.
              Type str
     id
          Unique identifier for this result, 1-64 Bytes.
              Type str
     title
          Title of the result.
              Type str
     input_message_content
          Content of the message to be sent.
              Type telegram.InputMessageContent
     reply_markup
          Optional. Inline keyboard attached to the message.
              Type telegram.ReplyMarkup
     url
          Optional. URL of the result.
              Type str
          Optional. Pass True, if you don't want the URL to be shown in the message.
```

294

Type bool

description

Optional. Short description of the result.

Type str

thumb url

Optional. Url of the thumbnail for the result.

Type str

thumb width

Optional. Thumbnail width.

Type int

thumb_height

Optional. Thumbnail height.

Type int

telegram.InlineQueryResultAudio

Represents a link to an mp3 audio file. By default, this audio file will be sent by the user. Alternatively, you can use <code>input_message_content</code> to send a message with the specified content instead of the audio.

Parameters

- id (str) Unique identifier for this result, 1-64 bytes.
- audio_url (str) A valid URL for the audio file.
- title (str) Title.
- performer (str, optional) Performer.
- audio_duration (str, optional) Audio duration in seconds.
- caption (str, optional) Caption, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in the caption, which can be specified instead of parse_mode.
- reply_markup (telegram.InlineKeyboardMarkup, optional) Inline keyboard attached to the message.
- input_message_content (telegram.InputMessageContent, optional) Content of the message to be sent instead of the audio.
- **kwargs (dict) Arbitrary keyword arguments.

type

'audio'.

Type str

id

Unique identifier for this result, 1-64 bytes.

```
Type str
```

audio_url

A valid URL for the audio file.

Type str

title

Title.

Type str

performer

Optional. Performer.

Type str

audio_duration

Optional. Audio duration in seconds.

Type str

caption

Optional. Caption, 0-1024 characters after entities parsing.

Type str

parse mode

Optional. Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.

Type str

caption_entities

Optional. List of special entities that appear in the caption, which can be specified instead of parse_mode.

Type List[telegram.MessageEntity]

reply_markup

Optional. Inline keyboard attached to the message.

Type telegram. InlineKeyboardMarkup

input_message_content

Optional. Content of the message to be sent instead of the audio.

Type telegram.InputMessageContent

telegram.InlineQueryResultCachedAudio

 $Bases: \verb|telegram.inline.inline| query result.Inline Query Result|$

Represents a link to an mp3 audio file stored on the Telegram servers. By default, this audio file will be sent by the user. Alternatively, you can use <code>input_message_content</code> to send a message with the specified content instead of the audio.

Parameters

- id (str) Unique identifier for this result, 1-64 bytes.
- audio_file_id (str) A valid file identifier for the audio file.

- caption (str, optional) Caption, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in the caption, which can be specified instead of parse_mode.
- reply_markup (telegram.InlineKeyboardMarkup, optional) Inline keyboard attached to the message.
- input_message_content (telegram.InputMessageContent, optional) Content of the message to be sent instead of the audio.
- **kwargs (dict) Arbitrary keyword arguments.

type

'audio'.

Type str

id

Unique identifier for this result, 1-64 bytes.

Type str

audio file id

A valid file identifier for the audio file.

Type str

caption

Optional. Caption, 0-1024 characters after entities parsing.

Type str

parse_mode

Optional. Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in <code>telegram.ParseMode</code> for the available modes.

Type str

caption_entities

Optional. List of special entities that appear in the caption, which can be specified instead of parse_mode.

Type List[telegram.MessageEntity]

reply_markup

Optional. Inline keyboard attached to the message.

Type telegram. InlineKeyboardMarkup

input_message_content

Optional. Content of the message to be sent instead of the audio.

Type telegram.InputMessageContent

telegram.InlineQueryResultCachedDocument

Represents a link to a file stored on the Telegram servers. By default, this file will be sent by the user with an optional caption. Alternatively, you can use <code>input_message_content</code> to send a message with the specified content instead of the file.

Parameters

- id (str) Unique identifier for this result, 1-64 bytes.
- title (str) Title for the result.
- document_file_id (str) A valid file identifier for the file.
- **description** (str, optional) Short description of the result.
- **caption** (str, optional) Caption of the document to be sent, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption.. See the constants in telegram. ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in the caption, which can be specified instead of parse_mode.
- reply_markup (telegram.InlineKeyboardMarkup, optional) Inline keyboard attached to the message.
- input_message_content (telegram.InputMessageContent, optional) Content of the message to be sent instead of the file.
- **kwargs (dict) Arbitrary keyword arguments.

type

'document'.

Type str

id

Unique identifier for this result, 1-64 bytes.

Type str

title

Title for the result.

Type str

document_file_id

A valid file identifier for the file.

Type str

description

Optional. Short description of the result.

Type str

caption

Optional. Caption of the document to be sent, 0-1024 characters after entities parsing.

Type str

parse_mode

Optional. Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption.. See the constants in telegram. ParseMode for the available modes.

Type str

caption_entities

Optional. List of special entities that appear in the caption, which can be specified instead of parse mode.

Type List[telegram.MessageEntity]

reply_markup

Optional. Inline keyboard attached to the message.

Type telegram. Inline Keyboard Markup

input_message_content

Optional. Content of the message to be sent instead of the file.

Type telegram. InputMessageContent

telegram.InlineQueryResultCachedGif

```
class telegram.InlineQueryResultCachedGif(id, gif_file_id, title=None, cap-
tion=None, reply_markup=None,
input_message_content=None,
parse_mode=None, caption_entities=None,
** kwargs)
```

Bases: telegram.inline.inlinequeryresult.InlineQueryResult

Represents a link to an animated GIF file stored on the Telegram servers. By default, this animated GIF file will be sent by the user with an optional caption. Alternatively, you can use <code>input_message_content</code> to send a message with specified content instead of the animation.

Parameters

- id (str) Unique identifier for this result, 1-64 bytes.
- **gif_file_id** (str) A valid file identifier for the GIF file.
- title (str, optional) Title for the result.caption (str, optional):
- **caption** (str, optional) Caption of the GIF file to be sent, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in the caption, which can be specified instead of parse_mode.
- reply_markup (telegram.InlineKeyboardMarkup, optional) Inline keyboard attached to the message.
- input_message_content (telegram.InputMessageContent, optional) Content of the message to be sent instead of the gif.
- **kwargs (dict) Arbitrary keyword arguments.

type 'gif'.

3.2. telegram package

```
Type str
```

id

Unique identifier for this result, 1-64 bytes.

```
Type str
```

gif_file_id

A valid file identifier for the GIF file.

```
Type str
```

title

Optional. Title for the result.

```
Type str
```

caption

Optional. Caption of the GIF file to be sent, 0-1024 characters after entities parsing.

```
Type str
```

parse_mode

Optional. Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram.ParseMode for the available modes.

```
Type str
```

caption_entities

Optional. List of special entities that appear in the caption, which can be specified instead of parse_mode.

```
Type List[telegram.MessageEntity]
```

reply_markup

Optional. Inline keyboard attached to the message.

```
Type telegram. InlineKeyboardMarkup
```

input_message_content

Optional. Content of the message to be sent instead of the gif.

```
Type telegram. InputMessageContent
```

telegram.InlineQueryResultCachedMpeg4Gif

Bases: telegram.inline.inlinequeryresult.InlineQueryResult

Represents a link to a video animation (H.264/MPEG-4 AVC video without sound) stored on the Telegram servers. By default, this animated MPEG-4 file will be sent by the user with an optional caption. Alternatively, you can use <code>input_message_content</code> to send a message with the specified content instead of the animation.

Parameters

- id (str) Unique identifier for this result, 1-64 bytes.
- mpeg4_file_id (str) A valid file identifier for the MP4 file.
- title (str, optional) Title for the result.
- **caption** (str, optional) Caption of the MPEG-4 file to be sent, 0-1024 characters after entities parsing.

- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in the caption, which can be specified instead of parse_mode.
- reply_markup (telegram.InlineKeyboardMarkup, optional) Inline keyboard attached to the message.
- input_message_content (telegram.InputMessageContent, optional) Content of the message to be sent instead of the MPEG-4 file.
- **kwargs (dict) Arbitrary keyword arguments.

type

'mpeg4_gif'.

Type str

id

Unique identifier for this result, 1-64 bytes.

Type str

mpeq4 file id

A valid file identifier for the MP4 file.

Type str

title

Optional. Title for the result.

Type str

caption

Optional. Caption of the MPEG-4 file to be sent, 0-1024 characters after entities parsing.

 $Type \ \mathop{\hbox{\rm str}}$

parse_mode

Optional. Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram.ParseMode for the available modes.

Type str

caption_entities

Optional. List of special entities that appear in the caption, which can be specified instead of parse_mode.

Type List[telegram.MessageEntity]

reply_markup

Optional. Inline keyboard attached to the message.

Type telegram. Inline Keyboard Markup

input_message_content

Optional. Content of the message to be sent instead of the MPEG-4 file.

 $\textbf{Type} \ \textit{telegram.} Input \textit{MessageContent}$

telegram.InlineQueryResultCachedPhoto

the specified content instead of the photo.

Represents a link to a photo stored on the Telegram servers. By default, this photo will be sent by the user with an optional caption. Alternatively, you can use <code>input_message_content</code> to send a message with

Parameters

- id (str) Unique identifier for this result, 1-64 bytes.
- photo_file_id (str) A valid file identifier of the photo.
- title (str, optional) Title for the result.
- **description** (str, optional) Short description of the result.
- **caption** (str, optional) Caption of the photo to be sent, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in the caption, which can be specified instead of parse_mode.
- reply_markup (telegram.InlineKeyboardMarkup, optional) Inline keyboard attached to the message.
- input_message_content (telegram.InputMessageContent, optional) Content of the message to be sent instead of the photo.
- **kwargs (dict) Arbitrary keyword arguments.

```
type
```

'photo'.

Type str

id

Unique identifier for this result, 1-64 bytes.

Type str

photo file id

A valid file identifier of the photo.

Type str

title

Optional. Title for the result.

Type str

description

Optional. Short description of the result.

Type str

caption

Optional. Caption of the photo to be sent, 0-1024 characters after entities parsing.

```
Type str
```

parse_mode

Optional. Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.

Type str

caption_entities

Optional. List of special entities that appear in the caption, which can be specified instead of parse_mode.

Type List[telegram.MessageEntity]

reply_markup

Optional. Inline keyboard attached to the message.

Type telegram. Inline Keyboard Markup

input_message_content

Optional. Content of the message to be sent instead of the photo.

Type telegram. InputMessageContent

telegram.InlineQueryResultCachedSticker

Bases: telegram.inline.inlinequeryresult.InlineQueryResult

Represents a link to a sticker stored on the Telegram servers. By default, this sticker will be sent by the user. Alternatively, you can use <code>input_message_content</code> to send a message with the specified content instead of the sticker.

Parameters

- id (str) Unique identifier for this result, 1-64 bytes.
- **sticker_file_id** (str) A valid file identifier of the sticker.
- reply_markup (telegram.InlineKeyboardMarkup, optional) Inline keyboard attached to the message.
- input_message_content (telegram.InputMessageContent, optional) Content of the message to be sent instead of the sticker.
- **kwargs (dict) Arbitrary keyword arguments.

type

'sticker'.

Type str

id

Unique identifier for this result, 1-64 bytes.

Type str

sticker_file_id

A valid file identifier of the sticker.

Type str

reply_markup

Optional. Inline keyboard attached to the message.

```
Type telegram. Inline Keyboard Markup
```

input_message_content

Optional. Content of the message to be sent instead of the sticker.

Type telegram.InputMessageContent

telegram.InlineQueryResultCachedVideo

Represents a link to a video file stored on the Telegram servers. By default, this video file will be sent by the user with an optional caption. Alternatively, you can use <code>input_message_content</code> to send a message with the specified content instead of the video.

Parameters

- id (str) Unique identifier for this result, 1-64 bytes.
- video file id (str) A valid file identifier for the video file.
- title (str) Title for the result.
- **description** (str, optional) Short description of the result.
- **caption** (str, optional) Caption of the video to be sent, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in the caption, which can be specified instead of parse_mode.
- reply_markup (telegram.InlineKeyboardMarkup, optional) Inline keyboard attached to the message.
- input_message_content (telegram.InputMessageContent, optional) Content of the message to be sent instead of the video.
- **kwargs (dict) Arbitrary keyword arguments.

```
type
```

'video'.

Type str

id

Unique identifier for this result, 1-64 bytes.

Type str

video_file_id

A valid file identifier for the video file.

Type str

title

Title for the result.

Type str

description

Optional. Short description of the result.

```
Type str
```

caption

Optional. Caption of the video to be sent, 0-1024 characters after entities parsing.

```
Type str
```

parse mode

Optional. Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.

Type str

caption_entities

Optional. List of special entities that appear in the caption, which can be specified instead of parse_mode.

```
Type List[telegram.MessageEntity]
```

reply_markup

Optional. Inline keyboard attached to the message.

Type telegram. Inline Keyboard Markup

input_message_content

Optional. Content of the message to be sent instead of the video.

Type telegram. InputMessageContent

telegram.InlineQueryResultCachedVoice

Represents a link to a voice message stored on the Telegram servers. By default, this voice message will be sent by the user. Alternatively, you can use <code>input_message_content</code> to send a message with the specified content instead of the voice message.

Parameters

- id (str) Unique identifier for this result, 1-64 bytes.
- **voice_file_id** (str) A valid file identifier for the voice message.
- title (str) Voice message title.
- caption (str, optional) Caption, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram.ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in the caption, which can be specified instead of parse_mode.
- reply_markup (telegram.InlineKeyboardMarkup, optional) Inline keyboard attached to the message.

- input_message_content (telegram.InputMessageContent, optional) Content of the message to be sent instead of the voice message.
- **kwargs (dict) Arbitrary keyword arguments.

type

'voice'.

Type str

id

Unique identifier for this result, 1-64 bytes.

Type str

voice_file_id

A valid file identifier for the voice message.

Type str

title

Voice message title.

Type str

caption

Optional. Caption, 0-1024 characters after entities parsing.

Type str

parse_mode

Optional. Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram.ParseMode for the available modes.

Type str

caption_entities

Optional. List of special entities that appear in the caption, which can be specified instead of parse_mode.

Type List[telegram.MessageEntity]

reply_markup

Optional. Inline keyboard attached to the message.

Type telegram. InlineKeyboardMarkup

input_message_content

Optional. Content of the message to be sent instead of the voice message.

Type telegram. InputMessageContent

telegram.InlineQueryResultContact

Bases: telegram.inline.inlinequeryresult.InlineQueryResult

Represents a contact with a phone number. By default, this contact will be sent by the user. Alternatively, you can use <code>input_message_content</code> to send a message with the specified content instead of the contact.

Parameters

- id (str) Unique identifier for this result, 1-64 bytes.
- phone_number (str) Contact's phone number.
- first_name (str) Contact's first name.
- last_name (str, optional) Contact's last name.
- vcard (str, optional) Additional data about the contact in the form of a vCard, 0-2048 bytes.
- reply_markup (telegram.InlineKeyboardMarkup, optional) Inline keyboard attached to the message.
- input_message_content (telegram.InputMessageContent, optional) Content of the message to be sent instead of the contact.
- **thumb_url** (str, optional) Url of the thumbnail for the result.
- thumb_width (int, optional) Thumbnail width.
- thumb_height (int, optional) Thumbnail height.
- **kwargs (dict) Arbitrary keyword arguments.

type

'contact'.

Type str

id

Unique identifier for this result, 1-64 bytes.

Type str

phone_number

Contact's phone number.

Type str

first name

Contact's first name.

Type str

last_name

Optional. Contact's last name.

Type str

vcard

Optional. Additional data about the contact in the form of a vCard, 0-2048 bytes.

Type str

reply_markup

Optional. Inline keyboard attached to the message.

 $\textbf{Type} \ \textit{telegram.} \textit{InlineKeyboardMarkup}$

input_message_content

Optional. Content of the message to be sent instead of the contact.

Type telegram.InputMessageContent

thumb_url

Optional. Url of the thumbnail for the result.

Type str

thumb_width

Optional. Thumbnail width.

```
Type int
```

thumb_height

Optional. Thumbnail height.

Type int

telegram.InlineQueryResultDocument

Represents a link to a file. By default, this file will be sent by the user with an optional caption. Alternatively, you can use <code>input_message_content</code> to send a message with the specified content instead of the file. Currently, only .PDF and .ZIP files can be sent using this method.

Parameters

- id (str) Unique identifier for this result, 1-64 bytes.
- title (str) Title for the result.
- **caption** (str, optional) Caption of the document to be sent, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in the caption, which can be specified instead of parse_mode.
- document_url (str) A valid URL for the file.
- mime_type (str) Mime type of the content of the file, either "application/pdf" or "application/zip".
- **description** (str, optional) Short description of the result.
- reply_markup (telegram.InlineKeyboardMarkup, optional) Inline keyboard attached to the message.
- input_message_content (telegram.InputMessageContent, optional) Content of the message to be sent instead of the file.
- thumb_url (str, optional) URL of the thumbnail (jpeg only) for the file.
- thumb_width (int, optional) Thumbnail width.
- thumb_height (int, optional) Thumbnail height.
- **kwargs (dict) Arbitrary keyword arguments.

type

'document'.

Type str

id

Unique identifier for this result, 1-64 bytes.

Type str

title

Title for the result.

Type str

caption

Optional. Caption of the document to be sent, 0-1024 characters after entities parsing.

Type str

parse_mode

Optional. Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in <code>telegram.ParseMode</code> for the available modes.

Type str

caption_entities

Optional. List of special entities that appear in the caption, which can be specified instead of parse_mode.

Type List[telegram.MessageEntity]

document url

A valid URL for the file.

Type str

mime_type

Mime type of the content of the file, either "application/pdf" or "application/zip".

Type str

description

Optional. Short description of the result.

Type str

reply_markup

Optional. Inline keyboard attached to the message.

Type telegram. Inline Keyboard Markup

input_message_content

Optional. Content of the message to be sent instead of the file.

Type telegram.InputMessageContent

thumb_url

Optional. URL of the thumbnail (jpeg only) for the file.

Type str

thumb width

Optional. Thumbnail width.

Type int

thumb_height

Optional. Thumbnail height.

Type int

telegram.InlineQueryResultGame

```
class telegram.InlineQueryResultGame(id,
                                                    game_short_name,
                                                                        reply_markup=None,
                                               ** kwargs)
     Bases: telegram.inline.inlinequeryresult.InlineQueryResult
     Represents a telegram. Game.
         Parameters
               • id (str) – Unique identifier for this result, 1-64 bytes.
               • game_short_name (str) - Short name of the game.
               • reply_markup (telegram.InlineKeyboardMarkup, optional) - Inline key-
                 board attached to the message.
               • **kwargs (dict) - Arbitrary keyword arguments.
     type
          'game'.
             Type str
     id
          Unique identifier for this result, 1-64 bytes.
             Type str
     game_short_name
          Short name of the game.
             Type str
     reply_markup
          Optional. Inline keyboard attached to the message.
```

telegram.InlineQueryResultGif

```
 \textbf{class telegram.InlineQueryResultGif} (id, gif\_url, thumb\_url, gif\_width=None, gif\_height=None, title=None, caption=None, reply\_markup=None, input\_message\_content=None, gif\_duration=None, parse\_mode=None, thumb\_mime\_type=None, caption\_entities=None, **\_kwargs)
```

Bases: telegram.inline.inlinequeryresult.InlineQueryResult

Type telegram. Inline Keyboard Markup

Represents a link to an animated GIF file. By default, this animated GIF file will be sent by the user with optional caption. Alternatively, you can use <code>input_message_content</code> to send a message with the specified content instead of the animation.

Parameters

- id (str) Unique identifier for this result, 1-64 bytes.
- gif_url (str) A valid URL for the GIF file. File size must not exceed 1MB.
- gif_width (int, optional) Width of the GIF.
- gif_height (int, optional) Height of the GIF.
- gif_duration (int, optional) Duration of the GIF
- thumb_url (str) URL of the static (JPEG or GIF) or animated (MPEG4) thumbnail for the result.

- thumb_mime_type (str, optional) MIME type of the thumbnail, must be one of 'image/jpeg', 'image/gif', or 'video/mp4'. Defaults to 'image/jpeg'.
- title (str, optional) Title for the result.
- **caption** (str, optional) Caption of the GIF file to be sent, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in the caption, which can be specified instead of parse_mode.
- reply_markup (telegram.InlineKeyboardMarkup, optional) Inline keyboard attached to the message.
- input_message_content (telegram.InputMessageContent, optional) Content of the message to be sent instead of the GIF animation.
- **kwargs (dict) Arbitrary keyword arguments.

```
type 'gif'.
```

Type str

id

Unique identifier for this result, 1-64 bytes.

Type str

gif url

A valid URL for the GIF file. File size must not exceed 1MB.

Type str

gif_width

Optional. Width of the GIF.

Type int

gif_height

Optional. Height of the GIF.

Type int

gif_duration

Optional. Duration of the GIF.

Type int

thumb_url

URL of the static (JPEG or GIF) or animated (MPEG4) thumbnail for the result.

Type str

thumb_mime_type

Optional. MIME type of the thumbnail.

Type str

title

Optional. Title for the result.

Type str

caption

Optional. Caption of the GIF file to be sent, 0-1024 characters after entities parsing.

```
Type str
```

parse_mode

Optional. Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.

```
Type str
```

caption_entities

Optional. List of special entities that appear in the caption, which can be specified instead of parse_mode.

```
Type List[telegram.MessageEntity]
```

reply_markup

Optional. Inline keyboard attached to the message.

```
Type telegram. Inline Keyboard Markup
```

input_message_content

Optional. Content of the message to be sent instead of the GIF animation.

```
Type telegram.InputMessageContent
```

telegram.InlineQueryResultLocation

Represents a location on a map. By default, the location will be sent by the user. Alternatively, you can use input_message_content to send a message with the specified content instead of the location.

Parameters

- id (str) Unique identifier for this result, 1-64 bytes.
- latitude (float) Location latitude in degrees.
- longitude (float) Location longitude in degrees.
- title (str) Location title.
- horizontal_accuracy (float, optional) The radius of uncertainty for the location, measured in meters; 0-1500.
- live_period (int, optional) Period in seconds for which the location can be updated, should be between 60 and 86400.
- heading (int, optional) For live locations, a direction in which the user is moving, in degrees. Must be between 1 and 360 if specified.
- **proximity_alert_radius** (int, optional) For live locations, a maximum distance for proximity alerts about approaching another chat member, in meters. Must be between 1 and 100000 if specified.
- reply_markup (telegram.InlineKeyboardMarkup, optional) Inline keyboard attached to the message.

- input_message_content (telegram.InputMessageContent, optional) Content of the message to be sent instead of the location.
- thumb_url (str, optional) Url of the thumbnail for the result.
- thumb_width (int, optional) Thumbnail width.
- thumb_height (int, optional) Thumbnail height.
- **kwargs (dict) Arbitrary keyword arguments.

type

'location'.

Type str

id

Unique identifier for this result, 1-64 bytes.

Type str

latitude

Location latitude in degrees.

Type float

longitude

Location longitude in degrees.

Type float

title

Location title.

Type str

horizontal_accuracy

Optional. The radius of uncertainty for the location, measured in meters.

Type float

live_period

Optional. Period in seconds for which the location can be updated, should be between 60 and 86400.

Type int

heading

Optional. For live locations, a direction in which the user is moving, in degrees.

Type int

proximity_alert_radius

Optional. For live locations, a maximum distance for proximity alerts about approaching another chat member, in meters.

Type int

reply_markup

Optional. Inline keyboard attached to the message.

 $\textbf{Type} \ \textit{telegram.} \textit{InlineKeyboardMarkup}$

input_message_content

Optional. Content of the message to be sent instead of the location.

Type telegram.InputMessageContent

thumb url

Optional. Url of the thumbnail for the result.

Type str

```
thumb width
```

Optional. Thumbnail width.

Type int

thumb_height

Optional. Thumbnail height.

Type int

telegram.InlineQueryResultMpeg4Gif

 $\pmb{Bases:} \ \texttt{telegram.inline.inline} \\ \textit{queryresult.Inline} \\ \textit{QueryResult}$

Represents a link to a video animation (H.264/MPEG-4 AVC video without sound). By default, this animated MPEG-4 file will be sent by the user with optional caption. Alternatively, you can use <code>input_message_content</code> to send a message with the specified content instead of the animation.

Parameters

- id (str) Unique identifier for this result, 1-64 bytes.
- mpeq4 url (str) A valid URL for the MP4 file. File size must not exceed 1MB.
- mpeg4_width (int, optional) Video width.
- mpeq4_height (int, optional) Video height.
- mpeg4_duration (int, optional) Video duration.
- thumb_url (str) URL of the static thumbnail (jpeg or gif) for the result.
- thumb_mime_type (str) Optional. MIME type of the thumbnail, must be one of 'image/jpeg', 'image/gif', or 'video/mp4'. Defaults to 'image/jpeg'.
- title (str, optional) Title for the result.
- **caption** (str, optional) Caption of the MPEG-4 file to be sent, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in the caption, which can be specified instead of parse_mode.
- reply_markup (telegram.InlineKeyboardMarkup, optional) Inline keyboard attached to the message.
- input_message_content (telegram.InputMessageContent, optional) Content of the message to be sent instead of the video animation.
- **kwargs (dict) Arbitrary keyword arguments.

type

'mpeg4_gif'.

Type str

id

Unique identifier for this result, 1-64 bytes.

Type str

mpeg4_url

A valid URL for the MP4 file. File size must not exceed 1MB.

Type str

mpeg4_width

Optional. Video width.

Type int

mpeg4_height

Optional. Video height.

Type int

mpeg4_duration

Optional. Video duration.

Type int

thumb url

URL of the static (JPEG or GIF) or animated (MPEG4) thumbnail for the result.

Type str

thumb_mime_type

Optional. MIME type of the thumbnail.

Type str

title

Optional. Title for the result.

Type str

caption

Optional. Caption of the MPEG-4 file to be sent, 0-1024 characters after entities parsing.

Type str

parse_mode

Optional. Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in <code>telegram.ParseMode</code> for the available modes.

Type str

caption_entities

Optional. List of special entities that appear in the caption, which can be specified instead of parse_mode.

Type List[telegram.MessageEntity]

reply_markup

Optional. Inline keyboard attached to the message.

Type telegram. InlineKeyboardMarkup

input_message_content

Optional. Content of the message to be sent instead of the video animation.

Type telegram.InputMessageContent

telegram.InlineQueryResultPhoto

Bases: telegram.inline.inlinequeryresult.InlineQueryResult

Represents a link to a photo. By default, this photo will be sent by the user with optional caption. Alternatively, you can use <code>input_message_content</code> to send a message with the specified content instead of the photo.

Parameters

- id (str) Unique identifier for this result, 1-64 bytes.
- **photo_url** (str) A valid URL of the photo. Photo must be in jpeg format. Photo size must not exceed 5MB.
- thumb_url (str) URL of the thumbnail for the photo.
- photo_width (int, optional) Width of the photo.
- photo_height (int, optional) Height of the photo.
- title (str, optional) Title for the result.
- **description** (str, optional) Short description of the result.
- **caption** (str, optional) Caption of the photo to be sent, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in the caption, which can be specified instead of parse mode.
- reply_markup (telegram.InlineKeyboardMarkup, optional) Inline keyboard attached to the message.
- input_message_content (telegram.InputMessageContent, optional) Content of the message to be sent instead of the photo.
- **kwargs (dict) Arbitrary keyword arguments.

```
type
```

'photo'.

Type str

id

Unique identifier for this result, 1-64 bytes.

Type str

photo url

A valid URL of the photo. Photo must be in jpeg format. Photo size must not exceed 5MB.

Type str

thumb_url

URL of the thumbnail for the photo.

Type str

photo_width

Optional. Width of the photo.

Type int

photo_height

Optional. Height of the photo.

Type int

title

Optional. Title for the result.

Type str

description

Optional. Short description of the result.

Type str

caption

Optional. Caption of the photo to be sent, 0-1024 characters after entities parsing.

Type str

parse_mode

Optional. Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.

Type str

caption_entities

Optional. List of special entities that appear in the caption, which can be specified instead of parse_mode.

Type List[telegram.MessageEntity]

reply_markup

Optional. Inline keyboard attached to the message.

Type telegram. Inline Keyboard Markup

input_message_content

Optional. Content of the message to be sent instead of the photo.

Type telegram. InputMessageContent

telegram.InlineQueryResultVenue

Bases: telegram.inline.inlinequeryresult.InlineQueryResult

Represents a venue. By default, the venue will be sent by the user. Alternatively, you can use <code>input_message_content</code> to send a message with the specified content instead of the venue.

Note: Foursquare details and Google Pace details are mutually exclusive. However, this behaviour is undocumented and might be changed by Telegram.

Parameters

- id (str) Unique identifier for this result, 1-64 Bytes.
- latitude (float) Latitude of the venue location in degrees.
- longitude (float) Longitude of the venue location in degrees.
- title (str) Title of the venue.
- address (str) Address of the venue.
- **foursquare_id** (str, optional) Foursquare identifier of the venue if known.
- **foursquare_type** (str, optional) Foursquare type of the venue, if known. (For example, "arts_entertainment/default", "arts_entertainment/aquarium" or "food/icecream".)
- google_place_id (str, optional) Google Places identifier of the venue.
- **google_place_type** (str, optional) Google Places type of the venue. (See supported types.)
- reply_markup (telegram.InlineKeyboardMarkup, optional) Inline keyboard attached to the message.
- input_message_content (telegram.InputMessageContent, optional) Content of the message to be sent instead of the location.
- thumb_url (str, optional) Url of the thumbnail for the result.
- thumb_width (int, optional) Thumbnail width.
- thumb_height (int, optional) Thumbnail height.
- **kwargs (dict) Arbitrary keyword arguments.

type

'venue'.

Type str

id

Unique identifier for this result, 1-64 Bytes.

Type str

latitude

Latitude of the venue location in degrees.

Type float

longitude

Longitude of the venue location in degrees.

Type float

title

Title of the venue.

Type str

address

Address of the venue.

Type str

foursquare_id

Optional. Foursquare identifier of the venue if known.

Type str

foursquare_type

Optional. Foursquare type of the venue, if known.

Type str

google_place_id

Optional. Google Places identifier of the venue.

Type str

google_place_type

Optional. Google Places type of the venue.

Type str

reply_markup

Optional. Inline keyboard attached to the message.

Type telegram. Inline Keyboard Markup

input_message_content

Optional. Content of the message to be sent instead of the venue.

Type telegram.InputMessageContent

thumb_url

Optional. Url of the thumbnail for the result.

Type str

thumb width

Optional. Thumbnail width.

Type int

thumb_height

Optional. Thumbnail height.

Type int

telegram.InlineQueryResultVideo

Bases: telegram.inline.inlinequeryresult.InlineQueryResult

Represents a link to a page containing an embedded video player or a video file. By default, this video file will be sent by the user with an optional caption. Alternatively, you can use <code>input_message_content</code> to send a message with the specified content instead of the video.

Note: If an InlineQueryResultVideo message contains an embedded video (e.g., YouTube), you must replace its content using <code>input_message_content</code>.

- id (str) Unique identifier for this result, 1-64 bytes.
- video_url (str) A valid URL for the embedded video player or video file.
- mime_type (str) Mime type of the content of video url, "text/html" or "video/mp4".

- thumb_url (str) URL of the thumbnail (jpeg only) for the video.
- title (str) Title for the result.
- caption (str, optional) Caption, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram.ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in the caption, which can be specified instead of parse_mode.
- video_width (int, optional) Video width.
- video_height (int, optional) Video height.
- video_duration (int, optional) Video duration in seconds.
- **description** (str, optional) Short description of the result.
- reply_markup (telegram.InlineKeyboardMarkup, optional) Inline keyboard attached to the message.
- input_message_content (telegram.InputMessageContent, optional) Content of the message to be sent instead of the video. This field is required if Inline-QueryResultVideo is used to send an HTML-page as a result (e.g., a YouTube video).
- **kwargs (dict) Arbitrary keyword arguments.

type

'video'.

Type str

id

Unique identifier for this result, 1-64 bytes.

Type str

video_url

A valid URL for the embedded video player or video file.

Type str

mime_type

Mime type of the content of video url, "text/html" or "video/mp4".

Type str

thumb_url

URL of the thumbnail (jpeg only) for the video.

Type str

title

Title for the result.

Type str

caption

Optional. Caption of the video to be sent, 0-1024 characters after entities parsing.

Type str

parse_mode

Optional. Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in <code>telegram.ParseMode</code> for the available modes.

```
Type str
```

caption_entities

Optional. List of special entities that appear in the caption, which can be specified instead of parse mode.

Type List[telegram.MessageEntity]

video width

Optional. Video width.

Type int

video height

Optional. Video height.

Type int

video_duration

Optional. Video duration in seconds.

Type int

description

Optional. Short description of the result.

Type str

reply_markup

Optional. Inline keyboard attached to the message.

Type telegram. Inline Keyboard Markup

input_message_content

Optional. Content of the message to be sent instead of the video. This field is required if Inline-QueryResultVideo is used to send an HTML-page as a result (e.g., a YouTube video).

Type telegram. InputMessageContent

telegram.InlineQueryResultVoice

Represents a link to a voice recording in an .ogg container encoded with OPUS. By default, this voice recording will be sent by the user. Alternatively, you can use <code>input_message_content</code> to send a message with the specified content instead of the the voice message.

- id (str) Unique identifier for this result, 1-64 bytes.
- **voice_url** (str) A valid URL for the voice recording.
- **title** (str) Recording title.
- caption (str, optional) Caption, 0-1024 characters after entities parsing.
- parse_mode (str, optional) Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.
- caption_entities (List[telegram.MessageEntity], optional) List of special entities that appear in the caption, which can be specified instead of parse_mode.

- voice_duration (int, optional) Recording duration in seconds.
- reply_markup (telegram.InlineKeyboardMarkup, optional) Inline keyboard attached to the message.
- input_message_content (telegram.InputMessageContent, optional) Content of the message to be sent instead of the voice recording.
- **kwargs (dict) Arbitrary keyword arguments.

type

'voice'.

Type str

id

Unique identifier for this result, 1-64 bytes.

Type str

voice_url

A valid URL for the voice recording.

Type str

title

Recording title.

Type str

caption

Optional. Caption, 0-1024 characters after entities parsing.

Type str

parse_mode

Optional. Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in telegram. ParseMode for the available modes.

Type str

caption_entities

Optional. List of special entities that appear in the caption, which can be specified instead of parse_mode.

Type List[telegram.MessageEntity]

voice_duration

Optional. Recording duration in seconds.

Type int

reply_markup

Optional. Inline keyboard attached to the message.

Type telegram. InlineKeyboardMarkup

input_message_content

Optional. Content of the message to be sent instead of the voice recording.

Type telegram.InputMessageContent

telegram.InputMessageContent

class telegram.InputMessageContent

Bases: telegram.base.TelegramObject

Base class for Telegram InputMessageContent Objects.

 $\begin{tabular}{ll} See: & telegram. Input Contact Message Content, & telegram. \\ Input Invoice Message Content, & telegram. Input Location Message Content, \\ telegram. Input Text Message Content & and & telegram. Input Venue Message Content \\ for more details. \end{tabular}$

telegram.InputTextMessageContent

Bases: telegram.inline.inputmessagecontent.InputMessageContent

Represents the content of a text message to be sent as the result of an inline query.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their message_text is equal.

Parameters

- message_text (str) Text of the message to be sent, 1-4096 characters after entities parsing. Also found as telegram.constants.MAX_MESSAGE_LENGTH.
- parse_mode (str, 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. See the constants in telegram.ParseMode for the available modes.
- **entities** (List[telegram.MessageEntity], optional) List of special entities that appear in the caption, which can be specified instead of parse_mode.
- **disable_web_page_preview** (bool, optional) Disables link previews for links in the sent message.
- **kwargs (dict) Arbitrary keyword arguments.

message_text

Text of the message to be sent, 1-4096 characters after entities parsing.

```
Type str
```

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. See the constants in telegram.ParseMode for the available modes.

```
Type str
```

entities

Optional. List of special entities that appear in the caption, which can be specified instead of parse_mode.

```
Type List[telegram.MessageEntity]
```

disable_web_page_preview

Optional. Disables link previews for links in the sent message.

```
Type bool
```

to_dict()

See telegram. TelegramObject.to_dict().

telegram.InputLocationMessageContent

Bases: telegram.inline.inputmessagecontent.InputMessageContent

Represents the content of a location message to be sent as the result of an inline query.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their latitude and longitude are equal.

Parameters

- latitude (float) Latitude of the location in degrees.
- longitude (float) Longitude of the location in degrees.
- horizontal_accuracy (float, optional) The radius of uncertainty for the location, measured in meters; 0-1500.
- live_period (int, optional) Period in seconds for which the location can be updated, should be between 60 and 86400.
- heading (int, optional) For live locations, a direction in which the user is moving, in degrees. Must be between 1 and 360 if specified.
- **proximity_alert_radius** (int, optional) For live locations, a maximum distance for proximity alerts about approaching another chat member, in meters. Must be between 1 and 100000 if specified.
- **kwargs (dict) Arbitrary keyword arguments.

latitude

Latitude of the location in degrees.

Type float

longitude

Longitude of the location in degrees.

Type float

horizontal accuracy

Optional. The radius of uncertainty for the location, measured in meters.

Type float

live_period

Optional. Period in seconds for which the location can be updated.

Type int

heading

Optional. For live locations, a direction in which the user is moving, in degrees.

Type int

proximity_alert_radius

Optional. For live locations, a maximum distance for proximity alerts about approaching another chat member, in meters.

Type int

telegram.InputVenueMessageContent

Represents the content of a venue message to be sent as the result of an inline query.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their latitude, longitude and title are equal.

Note: Foursquare details and Google Pace details are mutually exclusive. However, this behaviour is undocumented and might be changed by Telegram.

Parameters

- latitude (float) Latitude of the location in degrees.
- longitude (float) Longitude of the location in degrees.
- title (str) Name of the venue.
- address (str) Address of the venue.
- **foursquare_id** (str, optional) Foursquare identifier of the venue, if known.
- **foursquare_type** (str, optional) Foursquare type of the venue, if known. (For example, "arts_entertainment/default", "arts_entertainment/aquarium" or "food/icecream".)
- google_place_id (str, optional) Google Places identifier of the venue.
- **google_place_type** (str, optional) Google Places type of the venue. (See supported types.)
- **kwargs (dict) Arbitrary keyword arguments.

latitude

Latitude of the location in degrees.

Type float

longitude

Longitude of the location in degrees.

Type float

title

Name of the venue.

Type str

address

Address of the venue.

Type str

foursquare_id

Optional. Foursquare identifier of the venue, if known.

Type str

foursquare_type

Optional. Foursquare type of the venue, if known.

Type str

google_place_id

Optional. Google Places identifier of the venue.

Type str

google_place_type

Optional. Google Places type of the venue.

Type str

telegram.InputContactMessageContent

vcard=None,

first_name,

** kwargs)

Bases: telegram.inline.inputmessagecontent.InputMessageContent

Represents the content of a contact message to be sent as the result of an inline query.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their phone_number is equal.

Parameters

- **phone_number** (str) Contact's phone number.
- first name (str) Contact's first name.
- last_name (str, optional) Contact's last name.
- **vcard** (str, optional) Additional data about the contact in the form of a vCard, 0-2048 bytes.
- **kwargs (dict) Arbitrary keyword arguments.

phone_number

Contact's phone number.

Type str

first_name

Contact's first name.

Type str

last_name

Optional. Contact's last name.

Type str

vcard

Optional. Additional data about the contact in the form of a vCard, 0-2048 bytes.

Type str

telegram.InputInvoiceMessageContent

Bases: telegram.inline.inputmessagecontent.InputMessageContent

Represents the content of a invoice message to be sent as the result of an inline query.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their title, description, payload, provider_token, currency and prices are equal.

New in version 13.5.

- title (str) Product name, 1-32 characters
- **description** (str) Product description, 1-255 characters
- payload (str) Bot-defined invoice payload, 1-128 bytes. This will not be displayed to the user, use for your internal processes.
- provider token (str) Payment provider token, obtained via @Botfather.
- currency (str) Three-letter ISO 4217 currency code, see more on currencies
- **prices** (List[telegram.LabeledPrice]) Price breakdown, a JSON-serialized list of components (e.g. product price, tax, discount, delivery cost, delivery tax, bonus, etc.)
- max_tip_amount (int, optional) The maximum accepted amount for tips in the smallest units of the currency (integer, not float/double). For example, for a maximum tip of US\$ 1.45 pass max_tip_amount = 145. See the exp parameter in currencies.json, it shows the number of digits past the decimal point for each currency (2 for the majority of currencies). Defaults to 0.
- **suggested_tip_amounts** (List[int], optional) A JSON-serialized array of suggested amounts of tip in the smallest units of the currency (integer, not float/double). At most 4 suggested tip amounts can be specified. The suggested tip amounts must be positive, passed in a strictly increased order and must not exceed <code>max_tip_amount</code>.
- **provider_data** (str, optional) A JSON-serialized object for data about the invoice, which will be shared with the payment provider. A detailed description of the required fields should be provided by the payment provider.
- **photo_url** (str, optional) URL of the product photo for the invoice. Can be a photo of the goods or a marketing image for a service. People like it better when they see what they are paying for.
- photo_size (int, optional) Photo size.
- photo_width (int, optional) Photo width.
- photo height (int, optional) Photo height.
- need_name (bool, optional) Pass True, if you require the user's full name to complete the order.

- need_phone_number (bool, optional) Pass True, if you require the user's phone number to complete the order
- need_email (bool, optional) Pass True, if you require the user's email address to complete the order.
- need_shipping_address (bool, optional) Pass True, if you require the user's shipping address to complete the order
- **send_phone_number_to_provider** (bool, optional) Pass True, if user's phone number should be sent to provider.
- **send_email_to_provider** (bool, optional) Pass True, if user's email address should be sent to provider.
- **is_flexible** (bool, optional) Pass True, if the final price depends on the shipping method.
- **kwargs (dict) Arbitrary keyword arguments.

title

Product name, 1-32 characters

Type str

description

Product description, 1-255 characters

Type str

payload

Bot-defined invoice payload, 1-128 bytes. This will not be displayed to the user, use for your internal processes.

Type str

provider_token

Payment provider token, obtained via @Botfather.

Type str

currency

Three-letter ISO 4217 currency code, see more on currencies

Type str

prices

Price breakdown, a JSON-serialized list of components.

Type List[telegram.LabeledPrice]

max_tip_amount

Optional. The maximum accepted amount for tips in the smallest units of the currency (integer, not float/double).

Type int

suggested_tip_amounts

Optional. A JSON-serialized array of suggested amounts of tip in the smallest units of the currency (integer, not float/double).

Type List[int]

provider_data

Optional. A JSON-serialized object for data about the invoice, which will be shared with the payment provider.

Type str

photo url

Optional. URL of the product photo for the invoice.

```
Type str
```

photo_size

Optional. Photo size.

Type int

photo_width

Optional. Photo width.

Type int

photo_height

Optional. Photo height.

Type int

need_name

Optional. Pass True, if you require the user's full name to complete the order.

Type bool

need_phone_number

Optional. Pass True, if you require the user's phone number to complete the order

Type bool

need email

Optional. Pass True, if you require the user's email address to complete the order.

Type bool

need_shipping_address

Optional. Pass True, if you require the user's shipping address to complete the order

Type bool

send_phone_number_to_provider

Optional. Pass True, if user's phone number should be sent to provider.

Type bool

send_email_to_provider

Optional. Pass True, if user's email address should be sent to provider.

Type bool

is_flexible

Optional. Pass True, if the final price depends on the shipping method.

Type bool

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

to_dict()

See telegram. TelegramObject.to_dict().

telegram.ChosenInlineResult

Represents a result of an inline query that was chosen by the user and sent to their chat partner.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their $result_id$ is equal.

Note:

- In Python from is a reserved word, use from_user instead.
- It is necessary to enable inline feedback via @Botfather in order to receive these objects in updates.

Parameters

- result_id (str) The unique identifier for the result that was chosen.
- **from_user** (telegram. User) The user that chose the result.
- **location** (*telegram.Location*, optional) Sender location, only for bots that require user location.
- inline_message_id (str, optional) Identifier of the sent inline message. Available only if there is an inline keyboard attached to the message. Will be also received in callback queries and can be used to edit the message.
- query (str) The query that was used to obtain the result.
- **kwargs (dict) Arbitrary keyword arguments.

result id

The unique identifier for the result that was chosen.

```
Type str
```

from_user

The user that chose the result.

```
Type telegram. User
```

location

Optional. Sender location.

```
Type telegram.Location
```

inline_message_id

Optional. Identifier of the sent inline message.

```
Type str
```

query

The query that was used to obtain the result.

```
Type str
```

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

3.2.89 Payments

telegram.LabeledPrice

```
class telegram.LabeledPrice(label, amount, **_kwargs)
    Bases: telegram.base.TelegramObject
```

This object represents a portion of the price for goods or services.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their label and amount are equal.

Parameters

- label (str) Portion label.
- amount (int) Price of the product in the smallest units of the currency (integer, not float/double). For example, for a price of US\$ 1.45 pass amount = 145. See the exp parameter in currencies.json, it shows the number of digits past the decimal point for each currency (2 for the majority of currencies).
- **kwargs (dict) Arbitrary keyword arguments.

label

Portion label.

```
Type str
```

amount

Price of the product in the smallest units of the currency.

```
Type int
```

telegram.Invoice

```
class telegram.Invoice(title, description, start_parameter, currency, total_amount, **_kwargs)
    Bases: telegram.base.TelegramObject
```

This object contains basic information about an invoice.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their title, description, start_parameter, currency and total_amount are equal.

Parameters

- title (str) Product name.
- description (str) Product description.
- **start_parameter** (str) Unique bot deep-linking parameter that can be used to generate this invoice.
- **currency** (str) Three-letter ISO 4217 currency code.
- total_amount (int) Total price in the smallest units of the currency (integer, not float/double). For example, for a price of US\$ 1.45 pass amount = 145. See the exp parameter in currencies.json, it shows the number of digits past the decimal point for each currency (2 for the majority of currencies).
- **kwargs (dict) Arbitrary keyword arguments.

title

Product name.

Type str

${\tt description}$

Product description.

```
Type str
```

start_parameter

Unique bot deep-linking parameter.

Type str

currency

Three-letter ISO 4217 currency code.

Type str

total amount

Total price in the smallest units of the currency.

Type int

telegram.ShippingAddress

Bases: telegram.base.TelegramObject

This object represents a Telegram ShippingAddress.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their country_code, state, city, street_line1, street_line2 and post_cod are equal.

Parameters

- **country_code** (str) ISO 3166-1 alpha-2 country code.
- **state** (str) State, if applicable.
- city (str) City.
- **street_line1** (str) First line for the address.
- **street_line2** (str) Second line for the address.
- post_code (str) Address post code.
- **kwargs (dict) Arbitrary keyword arguments.

country_code

ISO 3166-1 alpha-2 country code.

Type str

state

State, if applicable.

Type str

city

City.

Type str

street_line1

First line for the address.

 $Type \ \mathop{\hbox{\rm str}}$

street_line2

Second line for the address.

Type str

post_code

Address post code.

Type str

telegram.OrderInfo

This object represents information about an order.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their name, phone_number, email and shipping_address are equal.

Parameters

- name (str, optional) User name.
- phone_number (str, optional) User's phone number.
- email (str, optional) User email.
- **shipping_address** (telegram.ShippingAddress, optional) User shipping address.
- **kwargs (dict) Arbitrary keyword arguments.

name

Optional. User name.

Type str

phone_number

Optional. User's phone number.

Type str

email

Optional. User email.

Type str

shipping_address

Optional. User shipping address.

Type telegram. Shipping Address

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

telegram.ShippingOption

```
class telegram.ShippingOption(id, title, prices, **_kwargs)
    Bases: telegram.base.TelegramObject
```

This object represents one shipping option.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their i d is equal.

- id (str) Shipping option identifier.
- title (str) Option title.
- prices (List[telegram.LabeledPrice]) List of price portions.
- **kwargs (dict) Arbitrary keyword arguments.

```
id
     Shipping option identifier.
     Type str

title
     Option title.
     Type str

prices
     List of price portions.
     Type List[telegram.LabeledPrice]
```

telegram.SuccessfulPayment

to dict()

Bases: telegram.base.TelegramObject

This object contains basic information about a successful payment.

See telegram. TelegramObject.to_dict().

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their telegram_payment_charge_id and provider_payment_charge_id are equal.

Parameters

- **currency** (str) Three-letter ISO 4217 currency code.
- total_amount (int) Total price in the smallest units of the currency (integer, not float/double). For example, for a price of US\$ 1.45 pass amount = 145. See the exp parameter in currencies.json, it shows the number of digits past the decimal point for each currency (2 for the majority of currencies).
- invoice_payload (str) Bot specified invoice payload.
- **shipping_option_id** (str, optional) Identifier of the shipping option chosen by the user.
- order_info (telegram.OrderInfo, optional) Order info provided by the user.
- telegram_payment_charge_id (str) Telegram payment identifier.
- provider_payment_charge_id (str) Provider payment identifier.
- **kwargs (dict) Arbitrary keyword arguments.

currency

Three-letter ISO 4217 currency code.

```
Type str
```

total amount

Total price in the smallest units of the currency.

Type int

invoice_payload

Bot specified invoice payload.

Type str

shipping_option_id

Optional. Identifier of the shipping option chosen by the user.

```
Type str
order_info
    Optional. Order info provided by the user.
        Type telegram.OrderInfo
telegram_payment_charge_id
    Telegram payment identifier.
        Type str
provider_payment_charge_id
    Provider payment identifier.
        Type str
classmethod de_json(data, bot)
    See telegram. TelegramObject.de_json().
```

telegram.ShippingQuery

```
class telegram. ShippingQuery (id, from_user, invoice_payload, shipping_address, bot=None,
                                     ** kwargs)
```

Bases: telegram.base.TelegramObject

This object contains information about an incoming shipping query.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their id is equal.

Note: In Python from is a reserved word, use from_user instead.

Parameters

- id (str) Unique query identifier.
- from_user(telegram.User) User who sent the query.
- invoice_payload (str) Bot specified invoice payload.
- shipping_address (telegram.ShippingAddress) User specified shipping address.
- **bot** (*telegram.Bot*, optional) The Bot to use for instance methods.
- **kwargs (dict) Arbitrary keyword arguments.

id

Unique query identifier.

Type str

from user

User who sent the query.

Type telegram. User

invoice_payload

Bot specified invoice payload.

Type str

shipping_address

User specified shipping address.

Type telegram. Shipping Address

bot

Optional. The Bot to use for instance methods.

```
Type telegram.Bot
```

answer (ok, shipping_options=None, error_message=None, timeout=None, api_kwargs=None)
Shortcut for:

```
bot.answer_shipping_query(update.shipping_query.id, *args, **kwargs)
```

For the documentation of the arguments, please see telegram. Bot. answer_shipping_query().

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

telegram.PreCheckoutQuery

Bases: telegram.base.TelegramObject

This object contains information about an incoming pre-checkout query.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their i d is equal.

Note: In Python from is a reserved word, use from_user instead.

Parameters

- id (str) Unique query identifier.
- from_user (telegram. User) User who sent the query.
- **currency** (str) Three-letter ISO 4217 currency code.
- total_amount (int) Total price in the smallest units of the currency (integer, not float/double). For example, for a price of US\$ 1.45 pass amount = 145. See the exp parameter in currencies.json, it shows the number of digits past the decimal point for each currency (2 for the majority of currencies).
- invoice_payload (str) Bot specified invoice payload.
- **shipping_option_id** (str, optional) Identifier of the shipping option chosen by the user.
- order_info (telegram. OrderInfo, optional) Order info provided by the user.
- **bot** (*telegram.Bot*, optional) The Bot to use for instance methods.
- **kwargs (dict) Arbitrary keyword arguments.

id

Unique query identifier.

Type str

from_user

User who sent the query.

Type telegram. User

currency

Three-letter ISO 4217 currency code.

Type str

total_amount

Total price in the smallest units of the currency.

Type int

invoice_payload

Bot specified invoice payload.

Type str

shipping_option_id

Optional. Identifier of the shipping option chosen by the user.

Type str

order_info

Optional. Order info provided by the user.

Type telegram.OrderInfo

bot

Optional. The Bot to use for instance methods.

Type telegram. Bot

answer (ok, error_message=None, timeout=None, api_kwargs=None)

Shortcut for:

For the documentation of the arguments, please see telegram.Bot. $answer_pre_checkout_query().$

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

3.2.90 Games

telegram.Game

Bases: telegram.base.TelegramObject

This object represents a game. Use BotFather to create and edit games, their short names will act as unique identifiers.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their title, description and photo are equal.

- title (str) Title of the game.
- **description** (str) Description of the game.
- **photo** (List[telegram.PhotoSize]) Photo that will be displayed in the game message in chats.

- text (str, optional) Brief description of the game or high scores included in the game message. Can be automatically edited to include current high scores for the game when the bot calls telegram.Bot.set_game_score(), or manually edited using telegram.Bot.edit_message_text(). 0-4096 characters. Also found as telegram.constants.MAX_MESSAGE_LENGTH.
- **text_entities** (List[telegram.MessageEntity], optional) Special entities that appear in text, such as usernames, URLs, bot commands, etc.
- **animation** (telegram. Animation, optional) Animation that will be displayed in the game message in chats. Upload via BotFather.

title

Title of the game.

Type str

description

Description of the game.

Type str

photo

Photo that will be displayed in the game message in chats.

Type List[telegram.PhotoSize]

text

Optional. Brief description of the game or high scores included in the game message. Can be automatically edited to include current high scores for the game when the bot calls telegram.Bot.set_game_score(), or manually edited using telegram.Bot.edit_message_text().

Type str

text_entities

Optional. Special entities that appear in text, such as usernames, URLs, bot commands, etc.

Type List[telegram.MessageEntity]

animation

Optional. Animation that will be displayed in the game message in chats. Upload via BotFather.

Type telegram. Animation

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

parse_text_entities (types=None)

Returns a dict that maps telegram. MessageEntity to str. It contains entities from this message filtered by their type attribute as the key, and the text that each entity belongs to as the value of the dict.

Note: This method should always be used instead of the <code>text_entities</code> attribute, since it calculates the correct substring from the message text based on UTF-16 codepoints. See <code>parse_text_entity</code> for more info.

Parameters types (List[str], optional) — List of MessageEntity types as strings. If the type attribute of an entity is contained in this list, it will be returned. Defaults to telegram.MessageEntity.ALL_TYPES.

Returns A dictionary of entities mapped to the text that belongs to them, calculated based on UTF-16 codepoints.

Return type Dict[telegram.MessageEntity, str]

```
parse_text_entity (entity)
```

Returns the text from a given telegram.MessageEntity.

Note: This method is present because Telegram calculates the offset and length in UTF-16 codepoint pairs, which some versions of Python don't handle automatically. (That is, you can't just slice Message.text with the offset and length.)

Parameters entity (telegram.MessageEntity) – The entity to extract the text from. It must be an entity that belongs to this message.

Returns The text of the given entity.

Return type str

Raises RuntimeError – If this game has no text.

```
to dict()
```

See telegram. TelegramObject.to_dict().

telegram.Callbackgame

```
class telegram. Callback Game
```

Bases: telegram.base.TelegramObject

A placeholder, currently holds no information. Use BotFather to set up your game.

```
classmethod de_json(data, bot)
```

See telegram. TelegramObject.de_json().

telegram.GameHighScore

```
class telegram.GameHighScore (position, user, score)
```

Bases: telegram.base.TelegramObject

This object represents one row of the high scores table for a game.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their position, user and score are equal.

Parameters

- **position** (int) Position in high score table for the game.
- user (telegram. User) User.
- score (int) Score.

position

Position in high score table for the game.

```
Type int
```

user

User.

Type telegram. User

score

Score.

Type int

${\tt classmethod\ de_json}\,({\it data}, {\it bot})$

See telegram. TelegramObject.de_json().

3.2.91 Passport

telegram.PassportElementError

```
class telegram.PassportElementError(source, type, message, **_kwargs)
Bases: telegram.base.TelegramObject
```

Baseclass for the PassportElementError* classes.

This object represents an error in the Telegram Passport element which was submitted that should be resolved by the user.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their source and type are equal.

Parameters

- **source** (str) Error source.
- type (str) The section of the user's Telegram Passport which has the error.
- **kwargs (dict) Arbitrary keyword arguments.

source

Error source.

```
Type str
```

type

The section of the user's Telegram Passport which has the error.

```
Type str
```

message

Error message.

Type str

telegram.PassportElementErrorFile

```
class telegram.PassportElementErrorFile(type, file_hash, message, **_kwargs)
Bases: telegram.passport.passportelementerrors.PassportElementError
```

Represents an issue with a document scan. The error is considered resolved when the file with the document scan changes.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their source, type, file_hash, and message are equal.

Parameters

- type (str) The section of the user's Telegram Passport which has the issue, one of "utility_bill", "bank_statement", "rental_agreement", "passport_registration", "temporary_registration".
- **file_hash** (str) Base64-encoded file hash.
- message (str) Error message.
- **kwargs (dict) Arbitrary keyword arguments.

type

```
The section of the user's Telegram Passport which has the issue, one of "utility_bill", "bank_statement", "rental_agreement", "passport_registration", "temporary_registration".
```

```
Type str
```

file_hash

Base64-encoded file hash.

Type str

message

Error message.

Type str

telegram.PassportElementErrorFiles

Represents an issue with a list of scans. The error is considered resolved when the list of files with the document scans changes.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their source, type, file_hashes, and message are equal.

Parameters

- type (str) The section of the user's Telegram Passport which has the issue, one of "utility_bill", "bank_statement", "rental_agreement", "passport_registration", "temporary_registration".
- **file_hashes** (List[str]) List of base64-encoded file hashes.
- **message** (str) Error message.
- **kwargs (dict) Arbitrary keyword arguments.

type

```
The section of the user's Telegram Passport which has the issue, one of "utility_bill", "bank_statement", "rental_agreement", "passport_registration", "temporary_registration".
```

Type str

file hashes

List of base64-encoded file hashes.

Type List[str]

message

Error message.

Type str

telegram.PassportElementErrorReverseSide

Bases: telegram.passport.passportelementerrors.PassportElementError

Represents an issue with the reverse side of a document. The error is considered resolved when the file with the reverse side of the document changes.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their source, type, file_hash, and message are equal.

Parameters

• **type** (str) - The section of the user's Telegram Passport which has the issue, one of "driver_license", "identity_card".

- **file_hash** (str) Base64-encoded hash of the file with the reverse side of the document.
- message (str) Error message.
- **kwargs (dict) Arbitrary keyword arguments.

type

The section of the user's Telegram Passport which has the issue, one of "driver_license", "identity_card".

Type str

file hash

Base64-encoded hash of the file with the reverse side of the document.

Type str

message

Error message.

Type str

telegram.PassportElementErrorFrontSide

class telegram.PassportElementErrorFrontSide (type, file_hash, message, **_kwargs)

Bases: telegram.passport.passportelementerrors.PassportElementError

Represents an issue with the front side of a document. The error is considered resolved when the file with the front side of the document changes.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their source, type, file_hash, and message are equal.

Parameters

- type (str) The section of the user's Telegram Passport which has the issue, one of "passport", "driver_license", "identity_card", "internal_passport".
- file_hash (str) Base64-encoded hash of the file with the front side of the document.
- message (str) Error message.
- **kwargs (dict) Arbitrary keyword arguments.

type

The section of the user's Telegram Passport which has the issue, one of "passport", "driver_license", "identity_card", "internal_passport".

Type str

file hash

Base64-encoded hash of the file with the front side of the document.

Type str

message

Error message.

Type str

telegram.PassportElementErrorDataField

Bases: telegram.passport.passportelementerrors.PassportElementError

Represents an issue in one of the data fields that was provided by the user. The error is considered resolved when the field's value changes.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their source, type, field_name, data_hash and message are equal.

Parameters

- type (str) The section of the user's Telegram Passport which has the error, one of "personal_details", "passport", "driver_license", "identity_card", "internal_passport", "address".
- **field_name** (str) Name of the data field which has the error.
- data hash (str) Base64-encoded data hash.
- message (str) Error message.
- **kwargs (dict) Arbitrary keyword arguments.

type

```
The section of the user's Telegram Passport which has the error, one of "personal_details", "passport", "driver_license", "identity_card", "internal_passport", "address".
```

```
Type str
```

field name

Name of the data field which has the error.

```
Type str
```

data_hash

Base64-encoded data hash.

```
Type str
```

message

Error message.

Type str

telegram.PassportElementErrorSelfie

Represents an issue with the selfie with a document. The error is considered resolved when the file with the selfie changes.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their source, type, file_hash, and message are equal.

- type (str) The section of the user's Telegram Passport which has the issue, one of "passport", "driver_license", "identity_card", "internal_passport".
- **file_hash** (str) Base64-encoded hash of the file with the selfie.
- message (str) Error message.

• **kwargs (dict) - Arbitrary keyword arguments.

type

The section of the user's Telegram Passport which has the issue, one of "passport", "driver_license", "identity_card", "internal_passport".

```
Type str
```

file hash

Base64-encoded hash of the file with the selfie.

```
Type str
```

message

Error message.

Type str

telegram.PassportElementErrorTranslationFile

Bases: telegram.passport.passportelementerrors.PassportElementError

Represents an issue with one of the files that constitute the translation of a document. The error is considered resolved when the file changes.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their source, type, file_hash, and message are equal.

Parameters

- type (str) Type of element of the user's Telegram Passport which has the issue, one of "passport", "driver_license", "identity_card", "internal_passport", "utility_bill", "bank_statement", "rental_agreement", "passport_registration", "temporary_registration".
- **file_hash** (str) Base64-encoded hash of the file.
- **message** (str) Error message.
- **kwargs (dict) Arbitrary keyword arguments.

type

```
Type of element of the user's Telegram Passport which has the issue, one of "passport", "driver_license", "identity_card", "internal_passport", "utility_bill", "bank_statement", "rental_agreement", "passport_registration", "temporary_registration".
```

Type str

file_hash

Base64-encoded hash of the file.

```
Type str
```

message

Error message.

Type str

telegram.PassportElementErrorTranslationFiles

Bases: telegram.passport.passportelementerrors.PassportElementError

Represents an issue with the translated version of a document. The error is considered resolved when a file with the document translation changes.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their source, type, file_hashes, and message are equal.

Parameters

- type (str) Type of element of the user's Telegram Passport which has the issue, one of "passport", "driver_license", "identity_card", "internal_passport", "utility_bill", "bank_statement", "rental_agreement", "passport_registration", "temporary_registration".
- **file_hashes** (List[str]) List of base64-encoded file hashes.
- message (str) Error message.
- **kwargs (dict) Arbitrary keyword arguments.

type

```
Type of element of the user's Telegram Passport which has the issue, one of "passport", "driver_license", "identity_card", "internal_passport", "utility_bill", "bank_statement", "rental_agreement", "passport_registration", "temporary_registration".
```

Type str

file_hashes

List of base64-encoded file hashes.

Type List[str]

message

Error message.

Type str

telegram.PassportElementErrorUnspecified

Bases: telegram.passport.passportelementerrors.PassportElementError

Represents an issue in an unspecified place. The error is considered resolved when new data is added.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their source, type, element_hash, and message are equal.

Parameters

- type (str) Type of element of the user's Telegram Passport which has the issue.
- **element_hash** (str) Base64-encoded element hash.
- message (str) Error message.
- **kwargs (dict) Arbitrary keyword arguments.

type

Type of element of the user's Telegram Passport which has the issue.

Type str

```
element_hash
         Base64-encoded element hash.
             Type str
    message
         Error message.
             Type str
telegram.Credentials
class telegram.Credentials(secure_data, nonce, bot=None, **_kwargs)
     Bases: telegram.base.TelegramObject
     secure_data
         Credentials for encrypted data
             Type telegram. SecureData
    nonce
         Bot-specified nonce
             Type str
     classmethod de_json(data, bot)
         See telegram. TelegramObject.de_json().
telegram.DataCredentials
class telegram.DataCredentials (data_hash, secret, **_kwargs)
     Bases: \verb|telegram.passport.credentials._CredentialsBase|
     These credentials can be used to decrypt encrypted data from the data field in EncryptedPassportData.
         Parameters
               • data_hash (str) - Checksum of encrypted data
               • secret (str) – Secret of encrypted data
    hash
         Checksum of encrypted data
             Type str
         Secret of encrypted data
             Type str
     to_dict()
         See telegram. TelegramObject.to_dict().
```

telegram.SecureData

 $Bases: \verb"telegram.base.TelegramObject"$

This object represents the credentials that were used to decrypt the encrypted data. All fields are optional and depend on fields that were requested.

personal_details

Credentials for encrypted personal details.

Type telegram. Secure Value, optional

passport

Credentials for encrypted passport.

Type telegram. Secure Value, optional

internal_passport

Credentials for encrypted internal passport.

Type telegram. Secure Value, optional

driver_license

Credentials for encrypted driver license.

Type telegram. Secure Value, optional

identity_card

Credentials for encrypted ID card

Type telegram. Secure Value, optional

address

Credentials for encrypted residential address.

Type telegram. Secure Value, optional

utility_bill

Credentials for encrypted utility bill.

Type telegram. Secure Value, optional

bank_statement

Credentials for encrypted bank statement.

Type telegram. Secure Value, optional

rental_agreement

Credentials for encrypted rental agreement.

Type telegram. Secure Value, optional

passport_registration

Credentials for encrypted registration from internal passport.

Type telegram. Secure Value, optional

temporary_registration

Credentials for encrypted temporary registration.

Type telegram. Secure Value, optional

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

telegram.SecureValue

Bases: telegram.base.TelegramObject

This object represents the credentials that were used to decrypt the encrypted value. All fields are optional and depend on the type of field.

data

Credentials for encrypted Telegram Passport data. Available for "personal_details", "passport", "driver_license", "identity_card", "identity_passport" and "address" types.

 $\textbf{Type} \ \textit{telegram.DataCredentials}, \textbf{optional}$

front side

Credentials for encrypted document's front side. Available for "passport", "driver_license", "identity_card" and "internal_passport".

Type telegram.FileCredentials, optional

reverse side

Credentials for encrypted document's reverse side. Available for "driver_license" and "identity_card".

Type telegram. FileCredentials, optional

selfie

Credentials for encrypted selfie of the user with a document. Can be available for "passport", "driver_license", "identity_card" and "internal_passport".

Type telegram. FileCredentials, optional

translation

Credentials for an encrypted translation of the document. Available for "passport", "driver_license", "identity_card", "internal_passport", "utility_bill", "bank_statement", "rental_agreement", "passport_registration" and "temporary_registration".

Type List[telegram.FileCredentials], optional

files

Credentials for encrypted files. Available for "utility_bill", "bank_statement", "rental_agreement", "passport_registration" and "temporary_registration" types.

Type List[telegram.FileCredentials], optional

${\tt classmethod\ de_json}\,(\textit{data}, \textit{bot})$

See telegram. TelegramObject.de_json().

to_dict()

See telegram. TelegramObject.to_dict().

telegram.FileCredentials

```
class telegram.FileCredentials (file_hash, secret, **_kwargs)
```

Bases: telegram.passport.credentials._CredentialsBase

These credentials can be used to decrypt encrypted files from the front_side, reverse_side, selfie and files fields in EncryptedPassportData.

Parameters

- file_hash (str) Checksum of encrypted file
- secret (str) Secret of encrypted file

hash

Checksum of encrypted file

```
Type str
     secret
         Secret of encrypted file
             Type str
     to_dict()
         See telegram. TelegramObject.to_dict().
telegram.ldDocumentData
class telegram.IdDocumentData (document_no, expiry_date, bot=None, **_kwargs)
     Bases: telegram.base.TelegramObject
     This object represents the data of an identity document.
     document no
         Document number.
             Type str
     expiry_date
         Optional. Date of expiry, in DD.MM.YYYY format.
             Type str
telegram.PersonalDetails
class telegram.PersonalDetails (first_name, last_name, birth_date, gender, country_code,
                                      residence_country_code,
                                                                   first_name_native=None,
                                      last_name_native=None,
                                                               middle_name=None,
                                      dle_name_native=None, bot=None, **_kwargs)
     Bases: telegram.base.TelegramObject
     This object represents personal details.
     first_name
         First Name.
             Type str
     middle_name
         Optional. First Name.
             Type str
     last_name
         Last Name.
             Type str
     birth date
         Date of birth in DD.MM.YYYY format.
             Type str
     gender
         Gender, male or female.
             Type str
     country_code
         Citizenship (ISO 3166-1 alpha-2 country code).
             Type str
```

residence_country_code

Country of residence (ISO 3166-1 alpha-2 country code).

Type str

first_name_native

First Name in the language of the user's country of residence.

Type str

middle_name_native

Optional. Middle Name in the language of the user's country of residence.

Type str

last_name_native

Last Name in the language of the user's country of residence.

Type str

telegram.ResidentialAddress

```
class telegram.ResidentialAddress(street_line1, street_line2, city, state, country_code,
     post_code, bot=None, **_kwargs)

Bases: telegram.base.TelegramObject
```

This object represents a residential address.

street_line1

First line for the address.

Type str

street_line2

Optional. Second line for the address.

Type str

city

City.

Type str

state

Optional. State.

Type str

country_code

ISO 3166-1 alpha-2 country code.

Type str

post_code

Address post code.

Type str

telegram.PassportData

class telegram.PassportData(data, credentials, bot=None, **_kwargs)

Bases: telegram.base.TelegramObject

Contains information about Telegram Passport data shared with the bot by the user.

Note: To be able to decrypt this object, you must pass your private_key to either telegram. Updater or telegram. Bot. Decrypted data is then found in decrypted_data and the payload can be found in decrypted_credentials's attribute telegram. Credentials.payload.

Parameters

- data (List[telegram.EncryptedPassportElement]) Array with encrypted information about documents and other Telegram Passport elements that was shared with the bot.
- **credentials** (telegram.EncryptedCredentials)) Encrypted credentials.
- **bot** (*telegram.Bot*, optional) The Bot to use for instance methods.
- **kwargs (dict) Arbitrary keyword arguments.

data

Array with encrypted information about documents and other Telegram Passport elements that was shared with the bot.

Type List[telegram.EncryptedPassportElement]

credentials

Encrypted credentials.

Type telegram. EncryptedCredentials

bot

The Bot to use for instance methods.

Type telegram.Bot, optional

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

property decrypted_credentials

Lazily decrypt and return credentials that were used to decrypt the data. This object also contains the user specified payload as *decrypted_data.payload*.

Raises telegram. TelegramDecryptionError – Decryption failed. Usually due to bad private/public key but can also suggest malformed/tampered data.

Type telegram. Credentials

property decrypted_data

Lazily decrypt and return information about documents and other Telegram Passport elements which were shared with the bot.

Raises telegram. TelegramDecryptionError – Decryption failed. Usually due to bad private/public key but can also suggest malformed/tampered data.

Type List[telegram.EncryptedPassportElement]

```
to dict()
```

See telegram. TelegramObject.to_dict().

telegram.PassportFile

Bases: telegram.base.TelegramObject

This object represents a file uploaded to Telegram Passport. Currently all Telegram Passport files are in JPEG format when decrypted and don't exceed 10MB.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their file_unique_id is equal.

Parameters

- **file_id** (str) Identifier for this file, which can be used to download or reuse the file.
- **file_unique_id** (str) Unique identifier for this file, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.
- file size (int) File size.
- file_date (int) Unix time when the file was uploaded.
- **bot** (*telegram.Bot*, optional) The Bot to use for instance methods.
- **kwargs (dict) Arbitrary keyword arguments.

file id

Identifier for this file.

Type str

file_unique_id

Unique identifier for this file, which is supposed to be the same over time and for different bots. Can't be used to download or reuse the file.

Type str

file_size

File size.

Type int

file_date

Unix time when the file was uploaded.

Type int

bot

Optional. The Bot to use for instance methods.

Type telegram.Bot

classmethod de_json_decrypted(data, bot, credentials)

Variant of telegram. TelegramObject.de_json() that also takes into account passport credentials.

Parameters

- data (Dict[str, \dots]) The JSON data.
- **bot** (*telegram.Bot*) The bot associated with this object.
- credentials (telegram.FileCredentials) The credentials

Returns

Return type telegram.PassportFile

classmethod de_list_decrypted(data, bot, credentials)

Variant of telegram. TelegramObject.de_list() that also takes into account passport credentials.

Parameters

- data (Dict[str,...]) The JSON data.
- **bot** (telegram.Bot) The bot associated with these objects.
- credentials (telegram.FileCredentials) The credentials

Returns

Return type List[telegram.PassportFile]

get_file (timeout=None, api_kwargs=None)

Wrapper over telegram.Bot.get_file. Will automatically assign the correct credentials to the returned telegram.File if originating from telegram.PassportData.decrypted_data.

For the documentation of the arguments, please see telegram.Bot.get_file().

```
Returns telegram. File
```

Raises telegram.error.TelegramError-

telegram.EncryptedPassportElement

Bases: telegram.base.TelegramObject

Contains information about documents or other Telegram Passport elements shared with the bot by the user. The data has been automatically decrypted by python-telegram-bot.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their type, data, phone_number, email, files, front_side, reverse_side and selfie are equal.

Note: This object is decrypted only when originating from telegram.PassportData. decrypted_data.

- **type** (str) Element type. One of "personal_details", "passport", "driver_license", "identity_card", "internal_passport", "address", "utility_bill", "bank_statement", "rental_agreement", "passport_registration", "temporary_registration", "phone_number", "email".
- data (telegram.PersonalDetails | telegram.IdDocument | telegram.ResidentialAddress | str, optional) Decrypted or encrypted data, available for "personal_details", "passport", "driver_license", "identity_card", "identity_passport" and "address" types.
- **phone_number** (str, optional) User's verified phone number, available only for "phone_number" type.
- email (str, optional) User's verified email address, available only for "email" type.

- **files** (List[telegram.PassportFile], optional) Array of encrypted/decrypted files with documents provided by the user, available for "utility_bill", "bank_statement", "rental_agreement", "passport_registration" and "temporary_registration" types.
- **front_side** (telegram.PassportFile, optional) Encrypted/decrypted file with the front side of the document, provided by the user. Available for "passport", "driver_license", "identity_card" and "internal_passport".
- **reverse_side** (*telegram.PassportFile*, optional) Encrypted/decrypted file with the reverse side of the document, provided by the user. Available for "driver_license" and "identity_card".
- **selfie** (*telegram.PassportFile*, optional) Encrypted/decrypted file with the selfie of the user holding a document, provided by the user; available for "passport", "driver_license", "identity_card" and "internal_passport".
- **translation** (List[telegram.PassportFile], optional) Array of encrypted/decrypted files with translated versions of documents provided by the user. Available if requested for "passport", "driver_license", "identity_card", "internal_passport", "utility_bill", "bank_statement", "rental_agreement", "passport_registration" and "temporary_registration" types.
- hash (str) Base64-encoded element hash for using in telegram.

 PassportElementErrorUnspecified.
- **bot** (*telegram.Bot*, optional) The Bot to use for instance methods.
- **kwargs (dict) Arbitrary keyword arguments.

type

Element type. One of "personal_details", "passport", "driver_license", "identity_card", "internal_passport", "address", "utility_bill", "bank_statement", "rental_agreement", "passport_registration", "temporary_registration", "phone_number", "email".

Type str

data

Optional. Decrypted or encrypted data, available for "personal_details", "passport", "driver_license", "identity_card", "identity_passport" and "address" types.

Type telegram.PersonalDetails | telegram.IdDocument | telegram.
ResidentialAddress|str

phone_number

Optional. User's verified phone number, available only for "phone_number" type.

Type str

email

Optional. User's verified email address, available only for "email" type.

Type str

files

Optional. Array of encrypted/decrypted files with documents provided by the user, available for "utility_bill", "bank_statement", "rental_agreement", "passport_registration" and "temporary_registration" types.

Type List[telegram.PassportFile]

front_side

Optional. Encrypted/decrypted file with the front side of the document, provided by the user. Available for "passport", "driver_license", "identity_card" and "internal_passport".

Type telegram.PassportFile

reverse_side

Optional. Encrypted/decrypted file with the reverse side of the document, provided by the user. Available for "driver_license" and "identity_card".

```
Type telegram.PassportFile
```

selfie

Optional. Encrypted/decrypted file with the selfie of the user holding a document, provided by the user; available for "passport", "driver_license", "identity_card" and "internal_passport".

```
Type telegram.PassportFile
```

translation

Optional. Array of encrypted/decrypted files with translated versions of documents provided by the user. Available if requested for "passport", "driver_license", "identity_card", "internal_passport", "utility_bill", "bank_statement", "rental_agreement", "passport_registration" and "temporary_registration" types.

```
Type List[telegram.PassportFile]
```

hash

Base64-encoded element hash for using in telegram. PassportElementErrorUnspecified.

```
Type str
```

bot

Optional. The Bot to use for instance methods.

```
Type telegram.Bot
```

classmethod de_json(data, bot)

See telegram. TelegramObject.de_json().

classmethod de_json_decrypted(data, bot, credentials)

Variant of telegram. TelegramObject.de_json() that also takes into account passport credentials.

Parameters

- data (Dict[str,...]) The JSON data.
- **bot** (telegram.Bot) The bot associated with this object.
- $\bullet \ \ \textbf{credentials} \ (\textit{telegram.FileCredentials}) \textbf{The credentials} \\$

Returns

Return type telegram. EncryptedPassportElement

```
to dict()
```

See telegram. TelegramObject.to_dict().

telegram.EncryptedCredentials

```
class telegram.EncryptedCredentials (data, hash, secret, bot=None, **_kwargs)
```

```
Bases: telegram.base.TelegramObject
```

Contains data required for decrypting and authenticating EncryptedPassportElement. See the Telegram Passport Documentation for a complete description of the data decryption and authentication processes.

Objects of this class are comparable in terms of equality. Two objects of this class are considered equal, if their data, hash and secret are equal.

Note: This object is decrypted only when originating from telegram.PassportData. decrypted_credentials.

Parameters

- data (telegram.Credentials or str) Decrypted data with unique user's nonce, data hashes and secrets used for EncryptedPassportElement decryption and authentication or base64 encrypted data.
- hash (str) Base64-encoded data hash for data authentication.
- **secret** (str) Decrypted or encrypted secret used for decryption.
- **kwargs (dict) Arbitrary keyword arguments.

data

Decrypted data with unique user's nonce, data hashes and secrets used for EncryptedPassportElement decryption and authentication or base64 encrypted data.

```
Type telegram. Credentials or str
```

hash

Base64-encoded data hash for data authentication.

```
Type str
```

secret

Decrypted or encrypted secret used for decryption.

```
Type str
```

property decrypted_data

Lazily decrypt and return credentials data. This object also contains the user specified nonce as *decrypted_data.nonce*.

Raises telegram. TelegramDecryptionError – Decryption failed. Usually due to bad private/public key but can also suggest malformed/tampered data.

```
Type telegram. Credentials
```

property decrypted_secret

Lazily decrypt and return secret.

Raises telegram. TelegramDecryptionError – Decryption failed. Usually due to bad private/public key but can also suggest malformed/tampered data.

```
Type str
```

3.2.92 utils

telegram.utils.helpers Module

This module contains helper functions.

```
telegram.utils.helpers.DEFAULT_20: telegram.utils.helpers.DefaultValue = 20
    Default 20
```

```
Type DefaultValue
```

telegram.utils.helpers.DEFAULT_FALSE: telegram.utils.helpers.DefaultValue = False
 Default False

```
Type DefaultValue
```

telegram.utils.helpers.DefaultValue = None
Default None

```
Type DefaultValue
```

```
class telegram.utils.helpers.DefaultValue(value=None)
```

Bases: Generic[telegram.utils.helpers.DVType]

Wrapper for immutable default arguments that allows to check, if the default value was set explicitly. Usage:

```
DefaultOne = DefaultValue(1)
def f(arg=DefaultOne):
    if arg is DefaultOne:
        print('`arg` is the default')
        arg = arg.value
    else:
        print('`arg` was set explicitly')
    print(f'`arg` = {str(arg)}')
```

This yields:

```
>>> f()
`arg` is the default
`arg` = 1
>>> f(1)
`arg` was set explicitly
`arg` = 1
>>> f(2)
`arg` was set explicitly
`arg` = 2
```

Also allows to evaluate truthiness:

```
default = DefaultValue(value)
if default:
    ...
```

is equivalent to:

```
default = DefaultValue(value)
if value:
    ...
```

 $\label{lem:condition} repr(\texttt{DefaultValue}(\texttt{value})) \ \ returns \ repr(\texttt{value}) \ \ and \ str(\texttt{DefaultValue}(\texttt{value})) \ \ returns \ f'\ \texttt{DefaultValue}(\{\texttt{value}\})'.$

Parameters value (obj) – The value of the default argument

value

The value of the default argument

```
Type obj
```

static get_value(obj)

Shortcut for:

```
return obj.value if isinstance(obj, DefaultValue) else obj
```

Parameters obj (object) - The object to process

Returns The value

Return type Same type as input, or the value of the input

```
\label{lem:create_deep_linked_url} telegram.utils.helpers.create\_deep\_linked\_url(bot\_username, \\ group=False) \\ payload=None, \\ group=False)
```

Creates a deep-linked URL for this bot_username with the specified payload. See https://core. telegram.org/bots#deep-linking to learn more.

The payload may consist of the following characters: A-Z, a-z, 0-9, _, -

Note: Works well in conjunction with CommandHandler("start", callback, filters = Filters.regex('payload'))

Examples

```
create_deep_linked_url(bot.get_me().username, "some-params")
```

Parameters

- bot_username (str) The username to link to
- payload (str, optional) Parameters to encode in the created URL
- **group** (bool, optional) If True the user is prompted to select a group to add the bot to. If False, opens a one-on-one conversation with the bot. Defaults to False.

Returns An URL to start the bot with specific parameters

Return type str

```
telegram.utils.helpers.decode_conversations_from_json(json_string)
```

Helper method to decode a conversations dict (that uses tuples as keys) from a JSON-string created with <code>encode_conversations_to_json()</code>.

Parameters json_string(str) - The conversations dict as JSON string.

Returns The conversations dict after decoding

Return type dict

telegram.utils.helpers.decode_user_chat_data_from_json(data)

Helper method to decode chat or user data (that uses ints as keys) from a JSON-string.

Parameters data (str) – The user/chat_data dict as JSON string.

Returns The user/chat_data defaultdict after decoding

Return type dict

telegram.utils.helpers.effective_message_type(entity)

Extracts the type of message as a string identifier from a telegram. Message or a telegram. Update.

Parameters entity (telegram. Update | telegram. Message) - The update or message to extract from.

Returns One of Message.MESSAGE_TYPES

Return type str

telegram.utils.helpers.encode_conversations_to_json(conversations)

Helper method to encode a conversations dict (that uses tuples as keys) to a JSON-serializable way. Use $decode_conversations_from_json()$ to decode.

Parameters conversations (dict) – The conversations dict to transform to JSON.

Returns The JSON-serialized conversations dict

Return type str

telegram.utils.helpers.escape_markdown(text, version=1, entity_type=None)

Helper function to escape telegram markup symbols.

Parameters

• text (str) - The text.

- **version** (int | str) Use to specify the version of telegrams Markdown. Either 1 or 2. Defaults to 1.
- entity_type (str, optional) For the entity types PRE, CODE and the link part of TEXT_LINKS, only certain characters need to be escaped in MarkdownV2. See the official API documentation for details. Only valid in combination with version=2, will be ignored else.

telegram.utils.helpers.from_timestamp(unixtime, tzinfo=<UTC>)

Converts an (integer) unix timestamp to a timezone aware datetime object. None s are left alone (i.e. from_timestamp(None) is None).

Parameters

- unixtime (int) Integer POSIX timestamp.
- tzinfo (datetime.tzinfo, optional) The timezone to which the timestamp is to be converted to. Defaults to UTC.

Returns Timezone aware equivalent datetime.datetime value if unixtime is not None; else None.

telegram.utils.helpers.get_signal_name (signum)

Returns the signal name of the given signal number.

telegram.utils.helpers.is_local_file(obj)

Checks if a given string is a file on local system.

Parameters obj (str) – The string to check.

telegram.utils.helpers.mention_html(user_id, name)

Parameters

- user_id (int) The user's id which you want to mention.
- name (str) The name the mention is showing.

Returns The inline mention for the user as HTML.

Return type str

telegram.utils.helpers.mention_markdown(user_id, name, version=1)

Parameters

- user_id (int) The user's id which you want to mention.
- name (str) The name the mention is showing.
- **version** (int | str) Use to specify the version of Telegram's Markdown. Either 1 or 2. Defaults to 1.

Returns The inline mention for the user as Markdown.

Return type str

telegram.utils.helpers.parse_file_input (file_input, tg_type=None, attach=None, file-name=None)

Parses input for sending files:

- For string input, if the input is an absolute path of a local file, adds the file:// prefix. If the input is a relative path of a local file, computes the absolute path and adds the file:// prefix. Returns the input unchanged, otherwise.
- pathlib.Path objects are treated the same way as strings.
- For IO and bytes input, returns an telegram. InputFile.
- If tg_type is specified and the input is of that type, returns the file_id attribute.

Parameters

- **file_input** (str|bytes|*filelike object*| Telegram media object) The input to parse.
- **tg_type** (type, optional) The Telegram media type the input can be. E.g. telegram.Animation.
- attach (bool, optional) Whether this file should be send as one file or is part of a collection of files. Only relevant in case an telegram. InputFile is returned.
- **filename** (str, optional) The filename. Only relevant in case an telegram. InputFile is returned.

Returns The parsed input or the untouched file_input, in case it's no valid file input.

Return type strltelegram. InputFile | object

Converts a given time object to a float POSIX timestamp. Used to convert different time specifications to a common format. The time object can be relative (i.e. indicate a time increment, or a time of day) or absolute. object objects from the datetime module that are timezone-naive will be assumed to be in UTC, if bot is not passed or bot.defaults is None.

Parameters

- time_object (int|float|datetime.timedelta|datetime.datetime | datetime.time) Time value to convert. The semantics of this parameter will depend on its type:
 - int or float will be interpreted as "seconds from reference_t"
 - datetime.timedelta will be interpreted as "time increment from reference_t"
 - datetime.datetime will be interpreted as an absolute date/time value
 - datetime.time will be interpreted as a specific time of day
- reference_timestamp (float, optional) POSIX timestamp that indicates the absolute time from which relative calculations are to be performed (e.g. when t is given as an int, indicating "seconds from reference_t"). Defaults to now (the time at which this function is called).

If t is given as an absolute representation of date & time (i.e. a datetime. datetime object), reference_timestamp is not relevant and so its value should be None. If this is not the case, a ValueError will be raised.

• tzinfo (pytz.BaseTzInfo, optional) – If t is a naive object from the datetime module, it will be interpreted as this timezone. Defaults to pytz.utc.

Note: Only to be used by telegram.ext.

Returns

The return value depends on the type of argument t. If t is given as a time increment (i.e. as a int, float or datetime.timedelta), then the return value will be reference_t + t

Else if it is given as an absolute date/time value (i.e. a datetime .datetime object), the equivalent value as a POSIX timestamp will be returned.

Finally, if it is a time of the day without date (i.e. a datetime.time object), the return value is the nearest future occurrence of that time of day.

Return type float | None

Raises

- **TypeError** If t's type is not one of those described above.
- ValueError If t is a datetime .datetime and reference_timestamp is not None.

telegram.utils.helpers.to_timestamp(dt_obj, reference_timestamp=None, tzinfo=None)
Wrapper over to_float_timestamp() which returns an integer (the float value truncated down to the nearest integer).

See the documentation for to_float_timestamp() for more details.

telegram.utils.promise.Promise

class telegram.utils.promise.Promise

Shortcut for telegram.ext.utils.promise.Promise.

Deprecated since version 13.2: Use telegram.ext.utils.promise.Promise instead.

telegram.utils.request.Request

Bases: object

Helper class for python-telegram-bot which provides methods to perform POST & GET towards Telegram servers.

Parameters

- con_pool_size (int) Number of connections to keep in the connection pool.
- **proxy_url** (str) The URL to the proxy server. For example: http://127.0.0.1:3128.
- urllib3_proxy_kwargs (dict) Arbitrary arguments passed as-is to urllib3.ProxyManager. This value will be ignored if proxy_url is not set.
- connect_timeout (int | float) The maximum amount of time (in seconds) to wait for a connection attempt to a server to succeed. None will set an infinite timeout for connection attempts. Defaults to 5.0.
- read_timeout (int | float) The maximum amount of time (in seconds) to wait between consecutive read operations for a response from the server. None will set an infinite timeout. This value is usually overridden by the various telegram.Bot methods. Defaults to 5.0.

property con_pool_size

The size of the connection pool used.

download(url, filename, timeout=None)

Download a file by its URL.

Parameters

- **url** (str) The web location we want to retrieve.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- **filename** (str) The filename within the path to download the file.

post (url, data, timeout=None)

Request an URL.

Parameters

- url (str) The web location we want to retrieve.
- data (Dict[str, str | int], optional) A dict of key/value pairs.
- **timeout** (int | float, optional) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).

Returns A JSON object.

retrieve (url, timeout=None)

Retrieve the contents of a file by its URL.

Parameters

- url (str) The web location we want to retrieve.
- **timeout** (int | float) If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).

stop()

Performs cleanup on shutdown.

telegram.utils.types Module

This module contains custom typing aliases.

```
telegram.utils.types.DVInput
```

Generic type for bot method parameters which can have defaults. DVInput[type] is the same as Union[DefaultValue, type].

alias of Union[DefaultValue[DVType], DVType]

```
telegram.utils.types.FileInput
```

Valid input for passing files to Telegram. Either a file id as string, a file like object, a local file path as string, pathlib.Path or the file contents as bytes.

alias of Union[str, bytes, IO, InputFile, pathlib.Path]

```
telegram.utils.types.FileLike
```

Either an open file handler or a telegram. InputFile.

alias of Union[IO, InputFile]

```
telegram.utils.types.JSONDict
```

Dictionary containing response from Telegram or data to send to the API.

alias of Dict[str, Any]

```
telegram.utils.types.ODVInput
```

Generic type for bot method parameters which can have defaults. ODVInput[type] is the same as Optional[Union[DefaultValue, type]].

alias of Optional[Union[DefaultValue[DVType], DVType]]

```
telegram.utils.types.SLT
```

Single instance or list/tuple of instances.

alias of Union[RT, List[RT], Tuple[RT, ...]]

3.3 Changelog

3.3.1 Changelog

Version 13.12

Released 2022-05-26

This is the technical changelog for version 13.12. More elaborate release notes can be found in the news channel @pythontelegrambotchannel.

Major Changes:

• Full Support for API 6.0 (#3027)

Minor Changes:

• Documentation Improvements (#3029)

Version 13.11

Released 2022-02-02

This is the technical changelog for version 13.11. More elaborate release notes can be found in the news channel @pythontelegrambotchannel.

Major Changes:

• Full Support for Bot API 5.7 (#2881)

Version 13.10

Released 2022-01-03

This is the technical changelog for version 13.10. More elaborate release notes can be found in the news channel @pythontelegrambotchannel.

Major Changes:

• Full Support for API 5.6 (#2835)

Minor Changes & Doc fixes:

- Update Copyright to 2022 (#2836)
- Update Documentation of BotCommand (#2820)

Version 13.9

Released 2021-12-11

This is the technical changelog for version 13.9. More elaborate release notes can be found in the news channel @pythontelegrambotchannel.

Major Changes:

• Full Support for Api 5.5 (#2809)

Minor Changes

• Adjust Automated Locking of Inactive Issues (#2775)

Version 13.8.1

Released 2021-11-08

This is the technical changelog for version 13.8.1. More elaborate release notes can be found in the news channel @pythontelegrambotchannel.

Doc fixes:

• Add Chat Join Request (Handler) to Docs (#2771)

Version 13.8

Released 2021-11-08

This is the technical changelog for version 13.8. More elaborate release notes can be found in the news channel @pythontelegrambotchannel.

Major Changes:

• Full support for API 5.4 (#2767)

Minor changes, CI improvements, Doc fixes and Type hinting:

- Create Issue Template Forms (#2689)
- Fix camelCase Functions in ExtBot (#2659)
- Fix Empty Captions not Being Passed by Bot.copy_message (#2651)
- Fix Setting Thumbs When Uploading A Single File (#2583)
- Fix Bug in BasePersistence.insert/replace_bot for Objects with __dict__ not in __slots__(#2603)

Version 13.7

Released 2021-07-01

This is the technical changelog for version 13.7. More elaborate release notes can be found in the news channel @pythontelegrambotchannel.

Major Changes:

• Full support for Bot API 5.3 (#2572)

Bug Fixes:

- Fix Bug in BasePersistence.insert/replace_bot for Objects with __dict__ in their slots (#2561)
- Remove Incorrect Warning About Defaults and ExtBot (#2553)

Minor changes, CI improvements, Doc fixes and Type hinting:

- Type Hinting Fixes (#2552)
- Doc Fixes (#2551)
- Improve Deprecation Warning for __slots__ (#2574)
- Stabilize CI (#2575)
- Fix Coverage Configuration (#2571)
- Better Exception-Handling for BasePersistence.replace/insert_bot (#2564)
- Remove Deprecated pass_args from Deeplinking Example (#2550)

Version 13.6

Released 2021-06-06

New Features:

- Arbitrary callback_data (#1844)
- Add ContextTypes & BasePersistence.refresh_user/chat/bot_data (#2262)
- Add Filters.attachment (#2528)
- Add pattern Argument to ChosenInlineResultHandler (#2517)

Major Changes:

• Add slots (#2345)

Minor changes, CI improvements, Doc fixes and Type hinting:

- Doc Fixes (#2495, #2510)
- Add max_connections Parameter to Updater.start_webhook (#2547)
- Fix for Promise.done_callback (#2544)
- Improve Code Quality (#2536, #2454)
- Increase Test Coverage of CallbackQueryHandler (#2520)
- Stabilize CI (#2522, #2537, #2541)
- Fix send_phone_number_to_provider argument for Bot.send_invoice (#2527)
- Handle Classes as Input for BasePersistence.replace/insert_bot (#2523)
- Bump Tornado Version and Remove Workaround from #2067 (#2494)

Version 13.5

Released 2021-04-30

Major Changes:

• Full support of Bot API 5.2 (#2489).

Note: The start_parameter argument of Bot.send_invoice and the corresponding shortcuts is now optional, so the order of parameters had to be changed. Make sure to update your method calls accordingly.

• Update ChatActions, Deprecating ChatAction.RECORD_AUDIO and ChatAction. UPLOAD_AUDIO (#2460)

New Features:

- Convenience Utilities & Example for Handling ChatMemberUpdated (#2490)
- Filters.forwarded_from(#2446)

Minor changes, CI improvements, Doc fixes and Type hinting:

- Improve Timeouts in ConversationHandler (#2417)
- Stabilize CI (#2480)
- Doc Fixes (#2437)
- Improve Type Hints of Data Filters (#2456)
- Add Two UserWarnings (#2464)

- Improve Code Quality (#2450)
- Update Fallback Test-Bots (#2451)
- Improve Examples (#2441, #2448)

Version 13.4.1

Released 2021-03-14

Hot fix release:

• Fixed a bug in setup.py (#2431)

Version 13.4

Released 2021-03-14

Major Changes:

• Full support of Bot API 5.1 (#2424)

Minor changes, CI improvements, doc fixes and type hinting:

- Improve Updater.set_webhook (#2419)
- Doc Fixes (#2404)
- Type Hinting Fixes (#2425)
- Update pre-commit Settings (#2415)
- Fix Logging for Vendored urllib3 (#2427)
- Stabilize Tests (#2409)

Version 13.3

Released 2021-02-19

Major Changes:

- Make cryptography Dependency Optional & Refactor Some Tests (#2386, #2370)
- Deprecate MessageQueue (#2393)

Bug Fixes:

- Refactor Defaults Integration (#2363)
- Add Missing telegram. SecureValue to init and Docs (#2398)

Minor changes:

• Doc Fixes (#2359)

Version 13.2

Released 2021-02-02

Major Changes:

- Introduce python-telegram-bot-raw (#2324)
- Explicit Signatures for Shortcuts (#2240)

New Features:

- Add Missing Shortcuts to Message (#2330)
- Rich Comparison for Bot (#2320)
- Add run_async Parameter to ConversationHandler (#2292)
- Add New Shortcuts to Chat (#2291)
- Add New Constant MAX_ANSWER_CALLBACK_QUERY_TEXT_LENGTH (#2282)
- Allow Passing Custom Filename For All Media (#2249)
- Handle Bytes as File Input (#2233)

Bug Fixes:

- Fix Escaping in Nested Entities in Message Properties (#2312)
- Adjust Calling of Dispatcher.update_persistence (#2285)
- Add quote kwarg to Message.reply_copy (#2232)
- ConversationHandler: Docs & edited_channel_post behavior (#2339)

Minor changes, CI improvements, doc fixes and type hinting:

- Doc Fixes (#2253, #2225)
- Reduce Usage of typing. Any (#2321)
- Extend Deeplinking Example (#2335)
- Add pyupgrade to pre-commit Hooks (#2301)
- Add PR Template (#2299)
- Drop Nightly Tests & Update Badges (#2323)
- Update Copyright (#2289, #2287)
- Change Order of Class DocStrings (#2256)
- Add macOS to Test Matrix (#2266)
- Start Using Versioning Directives in Docs (#2252)
- Improve Annotations & Docs of Handlers (#2243)

Version 13.1

Released 2020-11-29

Major Changes:

• Full support of Bot API 5.0 (#2181, #2186, #2190, #2189, #2183, #2184, #2188, #2185, #2192, #2196, #2193, #2223, #2199, #2187, #2147, #2205)

New Features:

- Add Defaults.run_async(#2210)
- Improve and Expand CallbackQuery Shortcuts (#2172)

- Add XOR Filters and make Filters.name a Property (#2179)
- Add Filters.document.file_extension(#2169)
- Add Filters.caption_regex (#2163)
- Add Filters.chat_type (#2128)
- Handle Non-Binary File Input (#2202)

Bug Fixes:

- Improve Handling of Custom Objects in BasePersistence.insert/replace_bot (#2151)
- Fix bugs in replace/insert bot (#2218)

Minor changes, CI improvements, doc fixes and type hinting:

- Improve Type hinting (#2204, #2118, #2167, #2136)
- Doc Fixes & Extensions (#2201, #2161)
- Use F-Strings Where Possible (#2222)
- Rename kwargs to _kwargs where possible (#2182)
- Comply with PEP561 (#2168)
- Improve Code Quality (#2131)
- Switch Code Formatting to Black (#2122, #2159, #2158)
- Update Wheel Settings (#2142)
- Update timerbot.py to v13.0 (#2149)
- Overhaul Constants (#2137)
- Add Python 3.9 to Test Matrix (#2132)
- Switch Codecov to GitHub Action (#2127)
- Specify Required pytz Version (#2121)

Version 13.0

Released 2020-10-07

For a detailed guide on how to migrate from v12 to v13, see this wiki page.

Major Changes:

- Deprecate old-style callbacks, i.e. set use_context=True by default (#2050)
- Refactor Handling of Message VS Update Filters (#2032)
- Deprecate Message.default_quote (#1965)
- Refactor persistence of Bot instances (#1994)
- Refactor JobQueue (#1981)
- Refactor handling of kwargs in Bot methods (#1924)
- Refactor Dispatcher.run_async, deprecating the @run_async decorator (#2051)

New Features:

- Type Hinting (#1920)
- Automatic Pagination for answer_inline_query (#2072)
- Defaults.tzinfo(#2042)
- Extend rich comparison of objects (#1724)

- Add Filters.via_bot (#2009)
- Add missing shortcuts (#2043)
- Allow DispatcherHandlerStop in ConversationHandler (#2059)
- Make Errors picklable (#2106)

Minor changes, CI improvements, doc fixes or bug fixes:

- Fix Webhook not working on Windows with Python 3.8+ (#2067)
- Fix setting thumbs with send_media_group (#2093)
- Make MessageHandler filter for Filters.update first (#2085)
- Fix PicklePersistence.flush() with only bot_data(#2017)
- Add test for clean argument of Updater.start_polling/webhook (#2002)
- Doc fixes, refinements and additions (#2005, #2008, #2089, #2094, #2090)
- CI fixes (#2018, #2061)
- Refine pollbot.py example (#2047)
- Refine Filters in examples (#2027)
- Rename echobot examples (#2025)
- Use Lock-Bot to lock old threads (#2048, #2052, #2049, #2053)

Version 12.8

Released 2020-06-22

Major Changes:

- Remove Python 2 support (#1715)
- Bot API 4.9 support (#1980)
- IDs/Usernames of Filters.user and Filters.chat can now be updated (#1757)

Minor changes, CI improvements, doc fixes or bug fixes:

- Update contribution guide and stale bot (#1937)
- Remove NullHandlers (#1913)
- Improve and expand examples (#1943, #1995, #1983, #1997)
- Doc fixes (#1940, #1962)
- Add User.send_poll() shortcut(#1968)
- Ignore private attributes en TelegramObject.to_dict() (#1989)
- Stabilize CI (#2000)

Version 12.7

Released 2020-05-02

Major Changes:

- Bot API 4.8 support. **Note:** The Dice object now has a second positional argument emoji. This is relevant, if you instantiate Dice objects manually. (#1917)
- Added tzinfo argument to helpers.from_timestamp. It now returns an timezone aware object. This is relevant for Message.{date, forward_date, edit_date}, Poll.close_date and ChatMember.until_date(#1621)

New Features:

- New method run_monthly for the JobQueue (#1705)
- Job.next_t now gives the datetime of the jobs next execution (#1685)

Minor changes, CI improvements, doc fixes or bug fixes:

- Stabalize CI (#1919, #1931)
- Use ABCs @abstractmethod instead of raising NotImplementedError for Handler, BasePersistence and BaseFilter (#1905)
- Doc fixes (#1914, #1902, #1910)

Version 12.6.1

Released 2020-04-11

Bug fixes:

• Fix serialization of reply_markup in media messages (#1889)

Version 12.6

Released 2020-04-10

Major Changes:

• Bot API 4.7 support. **Note:** In Bot.create_new_sticker_set and Bot. add_sticker_to_set, the order of the parameters had be changed, as the png_sticker parameter is now optional. (#1858)

Minor changes, CI improvements or bug fixes:

- Add tests for swtich_inline_query (_current_chat) with empty string (#1635)
- Doc fixes (#1854, #1874, #1884)
- Update issue templates (#1880)
- Favor concrete types over "Iterable" (#1882)
- Pass last valid CallbackContext to TIMEOUT handlers of ConversationHandler (#1826)
- Tweak handling of persistence and update persistence after job calls (#1827)
- Use checkout@v2 for GitHub actions (#1887)

Version 12.5.1

Released 2020-03-30

Minor changes, doc fixes or bug fixes:

- Add missing docs for PollHandler and PollAnswerHandler (#1853)
- Fix wording in *Filters* docs (#1855)
- Reorder tests to make them more stable (#1835)
- Make ConversationHandler attributes immutable (#1756)
- Make *PrefixHandler* attributes *command* and *prefix* editable (#1636)
- Fix UTC as default tzinfo for Job (#1696)

Version 12.5

Released 2020-03-29

New Features:

• Bot.link gives the t.me link of the bot (#1770)

Major Changes:

• Bot API 4.5 and 4.6 support. (#1508, #1723)

Minor changes, CI improvements or bug fixes:

- Remove legacy CI files (#1783, #1791)
- Update pre-commit config file (#1787)
- Remove builtin names (#1792)
- CI improvements (#1808, #1848)
- Support Python 3.8 (#1614, #1824)
- Use stale bot for auto closing stale issues (#1820, #1829, #1840)
- Doc fixes (#1778, #1818)
- Fix typo in edit_message_media (#1779)
- In examples, answer CallbackQueries and use *edit_message_text* shortcut (#1721)
- Revert accidental change in vendored urllib3 (#1775)

Version 12.4.2

Released 2020-02-10

Bug Fixes

- Pass correct parse_mode to InlineResults if bot.defaults is None (#1763)
- Make sure PP can read files that dont have bot_data (#1760)

Version 12.4.1

Released 2020-02-08

This is a quick release for #1744 which was accidently left out of v12.4.0 though mentioned in the release notes.

Version 12.4.0

Released 2020-02-08

New features:

- Set default values for arguments appearing repeatedly. We also have a wiki page for the new defaults. (#1490)
- Store data in CallbackContext.bot_data to access it in every callback. Also persists. (#1325)
- Filters.poll allows only messages containing a poll (#1673)

Major changes:

- Filters.text now accepts messages that start with a slash, because CommandHandler checks for MessageEntity.BOT_COMMAND since v12. This might lead to your MessageHandlers receiving more updates than before (#1680).
- Filters.command new checks for MessageEntity.BOT_COMMAND instead of just a leading slash. Also by Filters.command (False) you can now filters for messages containing a command *anywhere* in the text (#1744).

Minor changes, CI improvements or bug fixes:

- Add disptacher argument to Updater to allow passing a customized Dispatcher (#1484)
- Add missing names for Filters (#1632)
- Documentation fixes (#1624, #1647, #1669, #1703, #1718, #1734, #1740, #1642, #1739, #1746)
- CI improvements (#1716, #1731, #1738, #1748, #1749, #1750, #1752)
- Fix spelling issue for encode_conversations_to_json (#1661)
- Remove double assignement of Dispatcher.job_queue (#1698)
- Expose dispatcher as property for CallbackContext (#1684)
- Fix None check in JobQueue._put() (#1707)
- Log datetimes correctly in JobQueue (#1714)
- Fix false Message.link creation for private groups (#1741)
- Add option --with-upstream-urllib3 to setup.py to allow using non-vendored version (#1725)
- Fix persistence for nested ConversationHandlers (#1679)
- Improve handling of non-decodable server responses (#1623)
- Fix download for files without $file_path (#1591)$
- test_webhook_invalid_posts is now considered flaky and retried on failure (#1758)

Version 12.3.0

Released 2020-01-11

New features:

- Filters.caption allows only messages with caption (#1631).
- Filter for exact messages/captions with new capability of *Filters.text* and *Filters.caption*. Especially useful in combination with ReplyKeyboardMarkup. (#1631).

Major changes:

• Fix inconsistent handling of naive datetimes (#1506).

Minor changes, CI improvements or bug fixes:

- Documentation fixes (#1558, #1569, #1579, #1572, #1566, #1577, #1656).
- Add mutex protection on *ConversationHandler* (#1533).
- Add MAX_PHOTOSIZE_UPLOAD constant (#1560).
- Add args and kwargs to Message.forward() (#1574).
- Transfer to GitHub Actions CI (#1555, #1556, #1605, #1606, #1607, #1612, #1615, #1645).
- Fix deprecation warning with Py3.8 by vendored urllib3 (#1618).
- Simplify assignments for optional arguments (#1600)
- Allow private groups for Message.link (#1619).
- Fix wrong signature call for *ConversationHandler.TIMEOUT* handlers (#1653).

Version 12.2.0

Released 2019-10-14

New features:

• Nested ConversationHandlers (#1512).

Minor changes, CI improvments or bug fixes:

- Fix CI failures due to non-backward compat attrs depndency (#1540).
- travis.yaml: TEST_OFFICIAL removed from allowed_failures.
- Fix typos in examples (#1537).
- Fix Bot.to_dict to use proper first_name (#1525).
- Refactor test_commandhandler.py (#1408).
- Add Python 3.8 (RC version) to Travis testing matrix (#1543).
- test bot.py: Add to dict test (#1544).
- Flake config moved into setup.cfg (#1546).

Version 12.1.1

Released 2019-09-18

Hot fix release

Fixed regression in the vendored urllib3 (#1517).

Version 12.1.0

Released 2019-09-13

Major changes:

- Bot API 4.4 support (#1464, #1510)
- Add *get_file* method to *Animation & ChatPhoto*. Add, *get_small_file & get_big_file* methods to *ChatPhoto* (#1489)
- Tools for deep linking (#1049)

Minor changes and/or bug fixes:

- Documentation fixes (#1500, #1499)
- Improved examples (#1502)

Version 12.0.0

Released 2019-08-29

Well... This felt like decades. But here we are with a new release.

Expect minor releases soon (mainly complete Bot API 4.4 support)

Major and/or breaking changes:

- · Context based callbacks
- Persistence
- PrefixHandler added (Handler overhaul)
- Deprecation of RegexHandler and edited_messages, channel_post, etc. arguments (Filter overhaul)
- Various ConversationHandler changes and fixes
- Bot API 4.1, 4.2, 4.3 support
- Python 3.4 is no longer supported
- Error Handler now handles all types of exceptions (#1485)
- Return UTC from from_timestamp() (#1485)

See the wiki page at https://github.com/python-telegram-bot/python-telegram-bot/wiki/Transition-guide-to-Version-12.0 for a detailed guide on how to migrate from version 11 to version 12.

Context based callbacks (#1100)

- Use of pass_ in handlers is deprecated.
- Instead use use_context=True on Updater or Dispatcher and change callback from (bot, update, others...) to (update, context).
- This also applies to error handlers Dispatcher.add_error_handler and JobQueue jobs (change (bot, job) to (context) here).
- For users with custom handlers subclassing Handler, this is mostly backwards compatible, but to use the new context based callbacks you need to implement the new collect_additional_context method.
- Passing bot to JobQueue.__init__ is deprecated. Use JobQueue.set_dispatcher with a dispatcher instead.
- Dispatcher makes sure to use a single *CallbackContext* for a entire update. This means that if an update is handled by multiple handlers (by using the group argument), you can add custom arguments to the *Callback-Context* in a lower group handler and use it in higher group handler. NOTE: Never use with @run_async, see docs for more info. (#1283)
- If you have custom handlers they will need to be updated to support the changes in this release.
- Update all examples to use context based callbacks.

Persistence (#1017)

- Added PicklePersistence and DictPersistence for adding persistence to your bots.
- BasePersistence can be subclassed for all your persistence needs.
- Add a new example that shows a persistent ConversationHandler bot

Handler overhaul (#1114)

- CommandHandler now only triggers on actual commands as defined by telegram servers (everything that the clients mark as a tabable link).
- PrefixHandler can be used if you need to trigger on prefixes (like all messages starting with a "/" (old CommandHandler behaviour) or even custom prefixes like "#" or "!").

Filter overhaul (#1221)

- · RegexHandler is deprecated and should be replaced with a MessageHandler with a regex filter.
- Use update filters to filter update types instead of arguments (message_updates, channel_post_updates and edited_updates) on the handlers.
- Completely remove allow_edited argument it has been deprecated for a while.
- data_filters now exist which allows filters that return data into the callback function. This is how the regex filter is implemented.
- All this means that it no longer possible to use a list of filters in a handler. Use bitwise operators instead!

ConversationHandler

- Remove run_async_timeout and timed_out_behavior arguments (#1344)
- Replace with WAITING constant and behavior from states (#1344)
- Only emit one warning for multiple CallbackQueryHandlers in a ConversationHandler (#1319)
- Use warnings.warn for ConversationHandler warnings (#1343)
- Fix unresolvable promises (#1270)

Bug fixes & improvements

- Handlers should be faster due to deduped logic.
- Avoid compiling compiled regex in regex filter. (#1314)
- Add missing left_chat_member to Message.MESSAGE_TYPES (#1336)
- Make custom timeouts actually work properly (#1330)
- Add convenience classmethods (from_button, from_row and from_column) to InlineKeyboardMarkup
- Small typo fix in setup.py (#1306)
- Add Conflict error (HTTP error code 409) (#1154)
- Change MAX_CAPTION_LENGTH to 1024 (#1262)
- Remove some unnecessary clauses (#1247, #1239)
- Allow filenames without dots in them when sending files (#1228)
- Fix uploading files with unicode filenames (#1214)
- Replace http.server with Tornado (#1191)
- Allow SOCKSConnection to parse username and password from URL (#1211)
- Fix for arguments in passport/data.py (#1213)
- Improve message entity parsing by adding text_mention (#1206)
- Documentation fixes (#1348, #1397, #1436)
- Merged filters short-circuit (#1350)
- Fix webhook listen with tornado (#1383)
- Call task_done() on update queue after update processing finished (#1428)
- Fix send_location() latitude may be 0 (#1437)
- Make MessageEntity objects comparable (#1465)
- Add prefix to thread names (#1358)

Buf fixes since v12.0.0b1

- Fix setting bot on ShippingQuery (#1355)
- Fix _trigger_timeout() missing 1 required positional argument: 'job' (#1367)
- Add missing message.text check in PrefixHandler check_update (#1375)
- Make updates persist even on DispatcherHandlerStop (#1463)
- Dispatcher force updating persistence object's chat data attribute(#1462)

Internal improvements

- Finally fix our CI builds mostly (too many commits and PRs to list)
- Use multiple bots for CI to improve testing times significantly.
- Allow pypy to fail in CI.
- Remove the last CamelCase CheckUpdate methods from the handlers we missed earlier.
- test_official is now executed in a different job

Version 11.1.0

Released 2018-09-01

Fixes and updates for Telegram Passport: (#1198)

- Fix passport decryption failing at random times
- · Added support for middle names.
- · Added support for translations for documents
- Add errors for translations for documents
- Added support for requesting names in the language of the user's country of residence
- Replaced the payload parameter with the new parameter nonce
- Add hash to EncryptedPassportElement

Version 11.0.0

Released 2018-08-29

Fully support Bot API version 4.0! (also some bugfixes :))

Telegram Passport (#1174):

- Add full support for telegram passport.
 - New types: PassportData, PassportFile, EncryptedPassportElement, EncryptedCredentials, PassportElementError, PassportElementErrorDataField, PassportElementErrorFrontSide, PassportElementErrorReverseSide, PassportElementErrorSelfie, PassportElementErrorFile and PassportElementErrorFiles.
 - New bot method: set_passport_data_errors
 - New filter: Filters.passport_data
 - Field passport_data field on Message
 - PassportData can be easily decrypted.
 - PassportFiles are automatically decrypted if originating from decrypted PassportData.

- See new passportbot.py example for details on how to use, or go to our telegram passport wiki page for more info
- NOTE: Passport decryption requires new dependency cryptography.

Inputfile rework (#1184):

- Change how Inputfile is handled internally
- This allows support for specifying the thumbnails of photos and videos using the thumb= argument in the different send methods.
- Also allows Bot.send_media_group to actually finally send more than one media.
- · Add thumb to Audio, Video and Videonote
- Add Bot.edit_message_media together with InputMediaAnimation, InputMediaAudio, and inputMediaDocument.

Other Bot API 4.0 changes:

- Add forusquare_type to Venue, InlineQueryResultVenue, InputVenueMessageContent, and Bot.send_venue. (#1170)
- Add vCard support by adding vcard field to Contact, InlineQueryResultContact, InputContactMessageContent, and Bot.send_contact. (#1166)
- Support new message entities: CASHTAG and PHONE_NUMBER. (#1179)
 - Cashtag seems to be things like \$USD and \$GBP, but it seems telegram doesn't currently send them to bots.
 - Phone number also seems to have limited support for now
- Add Bot.send animation, add width, height, and duration to Animation, and add Filters.animation. (#1172)

Non Bot API 4.0 changes:

- Minor integer comparison fix (#1147)
- Fix Filters.regex failing on non-text message (#1158)
- Fix ProcessLookupError if process finishes before we kill it (#1126)
- Add t.me links for User, Chat and Message if available and update User.mention_* (#1092)
- Fix mention_markdown/html on py2 (#1112)

Version 10.1.0

Released 2018-05-02

Fixes changing previous behaviour:

- Add urllib3 fix for socks5h support (#1085)
- Fix send sticker() timeout=20 (#1088)

Fixes:

- Add a caption_entity filter for filtering caption entities (#1068)
- Inputfile encode filenames (#1086)
- InputFile: Fix proper naming of file when reading from subprocess.PIPE (#1079)
- Remove pytest-catchlog from requirements (#1099)
- Documentation fixes (#1061, #1078, #1081, #1096)

Version 10.0.2

Released 2018-04-17

Important fix:

• Handle utf8 decoding errors (#1076)

New features:

- Added Filter.regex (#1028)
- Filters for Category and file types (#1046)
- Added video note filter (#1067)

Fixes:

- Fix in telegram.Message (#1042)
- Make chat_id a positional argument inside shortcut methods of Chat and User classes (#1050)
- Make Bot.full_name return a unicode object. (#1063)
- CommandHandler faster check (#1074)
- Correct documentation of Dispatcher.add_handler (#1071)
- Various small fixes to documentation.

Version 10.0.1

Released 2018-03-05

Fixes:

- Fix conversationhandler timeout (PR #1032)
- Add missing docs utils (PR #912)

Version 10.0.0

Released 2018-03-02

Non backward compatabile changes and changed defaults

- JobQueue: Remove deprecated prevent_autostart & put() (PR #1012)
- Bot, Updater: Remove deprecated network_delay (PR #1012)
- Remove deprecated Message.new_chat_member (PR #1012)
- Retry bootstrap phase indefinitely (by default) on network errors (PR #1018)

New Features

- Support v3.6 API (PR #1006)
- User.full_name convinience property (PR #949)
- Add send_phone_number_to_provider and send_email_to_provider arguments to send_invoice (PR #986)
- Bot: Add shortcut methods reply_{markdown,html} (PR #827)
- Bot: Add shortcut method reply_media_group (PR #994)
- Added utils.helpers.effective_message_type (PR #826)
- Bot.get_file now allows passing a file in addition to file_id (PR #963)
- Add .get_file() to Audio, Document, PhotoSize, Sticker, Video, VideoNote and Voice (PR #963)

- Add .send_*() methods to User and Chat (PR #963)
- Get jobs by name (PR #1011)
- Add Message caption html/markdown methods (PR #1013)
- File.download_as_bytearray new method to get a d/led file as bytearray (PR #1019)
- File.download(): Now returns a meaningful return value (PR #1019)
- Added conversation timeout in ConversationHandler (PR #895)

Changes

- Store bot in PreCheckoutQuery (PR #953)
- Updater: Issue INFO log upon received signal (PR #951)
- JobQueue: Thread safety fixes (PR #977)
- WebhookHandler: Fix exception thrown during error handling (PR #985)
- Explicitly check update.effective_chat in ConversationHandler.check_update (PR #959)
- Updater: Better handling of timeouts during get_updates (PR #1007)
- Remove unnecessary to_dict() (PR #834)
- CommandHandler ignore strings in entities and "/" followed by whitespace (PR #1020)
- Documentation & style fixes (PR #942, PR #956, PR #962, PR #980, PR #983)

Version 9.0.0

Released 2017-12-08

Breaking changes (possibly)

• Drop support for python 3.3 (PR #930)

New Features

• Support Bot API 3.5 (PR #920)

Changes

- Fix race condition in dispatcher start/stop (#887)
- Log error trace if there is no error handler registered (#694)
- Update examples with consistent string formatting (#870)
- Various changes and improvements to the docs.

Version 8.1.1

Released 2017-10-15

• Fix Commandhandler crashing on single character messages (PR #873).

Version 8.1.0

Released 2017-10-14

New features - Support Bot API 3.4 (PR #865).

Changes - MessageHandler & RegexHandler now consider channel_updates. - Fix command not recognized if it is directly followed by a newline (PR #869). - Removed Bot._message_wrapper (PR #822). - Unitests are now also running on AppVeyor (Windows VM). - Various unitest improvements. - Documentation fixes.

Version 8.0.0

Released 2017-09-01

New features

- Fully support Bot Api 3.3 (PR #806).
- DispatcherHandlerStop (see docs).
- Regression fix for text_html & text_markdown (PR #777).
- Added effective_attachment to message (PR #766).

Non backward compatible changes

- Removed Botan support from the library (PR #776).
- Fully support Bot Api 3.3 (PR #806).
- Remove de_json() (PR #789).

Changes

- Sane defaults for tcp socket options on linux (PR #754).
- Add RESTRICTED as constant to ChatMember (PR #761).
- Add rich comparison to CallbackQuery (PR #764).
- Fix get_game_high_scores (PR #771).
- Warn on small con_pool_size during custom initalization of Updater (PR #793).
- Catch exceptions in error handlerfor errors that happen during polling (PR #810).
- For testing we switched to pytest (PR #788).
- Lots of small improvements to our tests and documentation.

Version 7.0.1

Released 2017-07-28

- Fix TypeError exception in RegexHandler (PR #751).
- Small documentation fix (PR #749).

Version 7.0.0

Released 2017-07-25

- Fully support Bot API 3.2.
- New filters for handling messages from specific chat/user id (PR #677).
- Add the possibility to add objects as arguments to send_* methods (PR #742).
- Fixed download of URLs with UTF-8 chars in path (PR #688).
- Fixed URL parsing for Message text properties (PR #689).
- Fixed args dispatching in MessageQueue's decorator (PR #705).
- Fixed regression preventing IPv6 only hosts from connnecting to Telegram servers (Issue #720).
- ConvesationHandler check if a user exist before using it (PR #699).
- Removed deprecated telegram. Emoji.
- Removed deprecated Botan import from utils (Botan is still available through contrib).
- Removed deprecated ReplyKeyboardHide.
- Removed deprecated edit_message argument of bot.set_game_score.
- Internal restructure of files.
- Improved documentation.
- Improved unitests.

Pre-version 7.0

2017-06-18

Released 6.1.0

- Fully support Bot API 3.0
- Add more fine-grained filters for status updates
- Bug fixes and other improvements

2017-05-29

Released 6.0.3

· Faulty PyPI release

2017-05-29

Released 6.0.2

• Avoid confusion with user's urllib3 by renaming vendored urllib3 to ptb_urllib3

2017-05-19

Released 6.0.1

- Add support for User.language_code
- $\bullet \ \ Fix \ \texttt{Message.text_html} \ \ \text{and} \ \ \texttt{Message.text_markdown} \ \ for \ \ messages \ \ with \ emoji \\$

2017-05-19

Released 6.0.0

- Add support for Bot API 2.3.1
- Add support for deleteMessage API method

- New, simpler API for JobQueue https://github.com/python-telegram-bot/python-telegram-bot/pull/484
- Download files into file-like objects https://github.com/python-telegram-bot/python-telegram-bot/pull/ 459
- Use vendor urllib3 to address issues with timeouts The default timeout for messages is now 5 seconds. For sending media, the default timeout is now 20 seconds.
- String attributes that are not set are now None by default, instead of empty strings
- Add text_markdown and text_html properties to Message https://github.com/python-telegram-bot/python-telegram-bot/pull/507
- Add support for Socks5 proxy https://github.com/python-telegram-bot/python-telegram-bot/pull/518
- Add support for filters in CommandHandler https://github.com/python-telegram-bot/python-telegram-bot/pull/536
- Add the ability to invert (not) filters https://github.com/python-telegram-bot/python-telegram-bot/pull/552
- Add Filters.group and Filters.private
- Compatibility with GAE via urllib3.contrib package https://github.com/python-telegram-bot/python-telegram-bot/pull/583
- Add equality rich comparision operators to telegram objects https://github.com/python-telegram-bot/python-telegram-bot/pull/604
- Several bugfixes and other improvements
- Remove some deprecated code

2017-04-17

Released 5.3.1

• Hotfix release due to bug introduced by urllib3 version 1.21

2016-12-11

Released 5.3

- Implement API changes of November 21st (Bot API 2.3)
- JobQueue now supports datetime.timedelta in addition to seconds
- JobQueue now supports running jobs only on certain days
- New Filters.reply filter
- $\bullet \ \ Bugfix \ for \ \texttt{Message.edit_reply_markup}\\$
- · Other bugfixes

2016-10-25

Released 5.2

- Implement API changes of October 3rd (games update)
- Add Message.edit_* methods
- Filters for the MessageHandler can now be combined using bitwise operators (& and |)
- Add a way to save user- and chat-related data temporarily
- Other bugfixes and improvements

2016-09-24

Released 5.1

- Drop Python 2.6 support
- Deprecate telegram . Emoji

- Use ujson if available
- Add instance methods to Message, Chat, User, InlineQuery and CallbackQuery
- ullet RegEx filtering for CallbackQueryHandler and InlineQueryHandler
- New MessageHandler filters: forwarded and entity
- Add Message.get_entity to correctly handle UTF-16 codepoints and MessageEntity offsets
- Fix bug in ConversationHandler when first handler ends the conversation
- Allow multiple Dispatcher instances
- Add ChatMigrated Exception
- Properly split and handle arguments in CommandHandler

2016-07-15

Released 5.0

- Rework JobQueue
- Introduce ConversationHandler
- Introduce telegram.constants https://github.com/python-telegram-bot/python-telegram-bot/pull/342

2016-07-12

Released 4.3.4

• Fix proxy support with urllib3 when proxy requires auth

2016-07-08

Released 4.3.3

• Fix proxy support with urllib3

2016-07-04

Released 4.3.2

• Fix: Use timeout parameter in all API methods

2016-06-29

Released 4.3.1

• Update wrong requirement: urllib3>=1.10

2016-06-28

Released 4.3

- Use urllib3.PoolManager for connection re-use
- Rewrite run_async decorator to re-use threads
- New requirements: urllib3 and certifi

2016-06-10

Released 4.2.1

- Fix CallbackQuery.to_dict() bug(thanks to @jlmadurga)
- Fix editMessageText exception when receiving a CallbackQuery

2016-05-28

Released 4.2

• Implement Bot API 2.1

- Move botan module to telegram.contrib
- New exception type: BadRequest

2016-05-22

Released 4.1.2

• Fix MessageEntity decoding with Bot API 2.1 changes

2016-05-16

Released 4.1.1

• Fix deprecation warning in Dispatcher

2016-05-15

Released 4.1

- Implement API changes from May 6, 2016
- Fix bug when start_polling with clean=True
- Methods now have snake_case equivalent, for example telegram.Bot.send_message is the same as telegram.Bot.sendMessage

2016-05-01

Released 4.0.3

• Add missing attribute location to InlineQuery

2016-04-29

Released 4.0.2

- Bugfixes
- KeyboardReplyMarkup now accepts str again

2016-04-27

Released 4.0.1

- Implement Bot API 2.0
- Almost complete recode of Dispatcher
- Please read the Transition Guide to 4.0
- Changes from 4.0rc1
 - The syntax of filters for MessageHandler (upper/lower cases)
 - Handler groups are now identified by int only, and ordered
- Note: v4.0 has been skipped due to a PyPI accident

2016-04-22

Released 4.0rc1

- Implement Bot API 2.0
- Almost complete recode of Dispatcher
- Please read the Transistion Guide to 4.0

2016-03-22

Released 3.4

- Move Updater, Dispatcher and JobQueue to new telegram.ext submodule (thanks to @rahiel)
- Add disable_notification parameter (thanks to @aidarbiktimirov)

- Fix bug where commands sent by Telegram Web would not be recognized (thanks to @shelomentsevd)
- Add option to skip old updates on bot startup
- Send files from BufferedReader

2016-02-28

Released 3.3

- Inline bots
- · Send any file by URL
- Specialized exceptions: Unauthorized, InvalidToken, NetworkError and TimedOut
- Integration for botan.io (thanks to @ollmer)
- HTML Parsemode (thanks to @jlmadurga)
- · Bugfixes and under-the-hood improvements

Very special thanks to Noam Meltzer (@tsnoam) for all of his work!

2016-01-09

Released 3.3b1

• Implement inline bots (beta)

2016-01-05

Released 3.2.0

- Introducing JobQueue (original author: @franciscod)
- Streamlining all exceptions to TelegramError (Special thanks to @tsnoam)
- Proper locking of Updater and Dispatcher start and stop methods
- · Small bugfixes

2015-12-29

Released 3.1.2

- Fix custom path for file downloads
- Don't stop the dispatcher thread on uncaught errors in handlers

2015-12-21

Released 3.1.1

- Fix a bug where asynchronous handlers could not have additional arguments
- Add groups and groupdict as additional arguments for regex-based handlers

2015-12-16

Released 3.1.0

- The chat-field in Message is now of type Chat. (API update Oct 8 2015)
- Message now contains the optional fields supergroup_chat_created, migrate_to_chat_id, migrate_from_chat_id and channel_chat_created. (API update Nov 2015)

2015-12-08

Released 3.0.0

• Introducing the Updater and Dispatcher classes

2015-11-11

Released 2.9.2

• Error handling on request timeouts has been improved

2015-11-10

Released 2.9.1

• Add parameter network_delay to Bot.getUpdates for slow connections

2015-11-10

Released 2.9

- Emoji class now uses bytes_to_native_str from future 3rd party lib
- Make user from optional to work with channels
- Raise exception if Telegram times out on long-polling

Special thanks to @jh0ker for all hard work

2015-10-08

Released 2.8.7

• Type as optional for GroupChat class

2015-10-08

Released 2.8.6

• Adds type to User and GroupChat classes (pre-release Telegram feature)

2015-09-24

Released 2.8.5

- Handles HTTP Bad Gateway (503) errors on request
- Fixes regression on Audio and Document for unicode fields

2015-09-20

Released 2.8.4

• getFile and File.download is now fully supported

2015-09-10

Released 2.8.3

- Moved Bot._requestURL to its own class (telegram.utils.request)
- Much better, such wow, Telegram Objects tests
- Add consistency for str properties on Telegram Objects
- Better design to test if chat_id is invalid
- Add ability to set custom filename on Bot.sendDocument(..,filename='')
- Fix Sticker as InputFile
- Send JSON requests over urlencoded post data
- Markdown support for Bot.sendMessage(..., parse_mode=ParseMode.MARKDOWN)
- Refactor of TelegramError class (no more handling IOError or URLError)

2015-09-05

Released 2.8.2

- Fix regression on Telegram ReplyMarkup
- Add certificate to is_inputfile method

2015-09-05

Released 2.8.1

• Fix regression on Telegram objects with thumb properties

2015-09-04

Released 2.8

- TelegramError when chat_id is empty for send* methods
- setWebhook now supports sending self-signed certificate
- Huge redesign of existing Telegram classes
- · Added support for PyPy
- Added docstring for existing classes

2015-08-19

Released 2.7.1

• Fixed JSON serialization for message

2015-08-17

Released 2.7

- Added support for Voice object and sendVoice method
- Due backward compatibility performer or/and title will be required for sendAudio
- Fixed JSON serialization when forwarded message

2015-08-15

Released 2.6.1

• Fixed parsing image header issue on < Python 2.7.3

2015-08-14

Released 2.6.0

- $\ensuremath{\text{Depreciation}}$ of require_authentication and clearCredentials methods
- Giving AUTHORS the proper credits for their contribution for this project
- Message.date and Message.forward_date are now datetime objects

2015-08-12

Released 2.5.3

• telegram. Bot now supports to be unpickled

2015-08-11

Released 2.5.2

- New changes from Telegram Bot API have been applied
- telegram.Bot now supports to be pickled
- Return empty str instead None when message.text is empty

2015-08-10

Released 2.5.1

· Moved from GPLv2 to LGPLv3

2015-08-09

Released 2.5

• Fixes logging calls in API

2015-08-08

Released 2.4

- Fixes Emoji class for Python 3
- PEP8 improvements

2015-08-08

Released 2.3

- Fixes ForceReply class
- Remove logging.basicConfig from library

2015-07-25

Released 2.2

• Allows debug=True when initializing telegram. Bot

2015-07-20

Released 2.1

• Fix to_dict for Document and Video

2015-07-19

Released 2.0

- Fixes bugs
- Improves __str__over to_json()
- Creates abstract class TelegramObject

2015-07-15

Released 1.9

- Python 3 officially supported
- PEP8 improvements

2015-07-12

Released 1.8

• Fixes crash when replying an unicode text message (special thanks to JRoot3D)

2015-07-11

Released 1.7

• Fixes crash when username is not defined on chat (special thanks to JRoot3D)

2015-07-10

Released 1.6

• Improvements for GAE support

2015-07-10

Released 1.5

• Fixes randomly unicode issues when using InputFile

2015-07-10

Released 1.4

• requests lib is no longer required

• Google App Engine (GAE) is supported

2015-07-10

Released 1.3

• Added support to setWebhook (special thanks to macrojames)

2015-07-09

Released 1.2

- CustomKeyboard classes now available
- Emojis available
- PEP8 improvements

2015-07-08

Released 1.1

• PyPi package now available

2015-07-08

Released 1.0

• Initial checkin of python-telegram-bot

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