python-telegram-bot Documentation

Release 13.14

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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

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EXAMPLES

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

CHAPTER

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

class telegram.ext.**ExtBot**(*token*, *base_url=None*, *base_file_url=None*, *request=None*, *private_key=None*, *private_key_password=None*, *defaults=None*, *arbitrary_callback_data=False*)

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** (bool | int, 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 bool | int

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!

Parameters **(** (*update*) – class`telegram.Update`): The update.

3.1.2 telegram.ext.Updater

class telegram.ext.**Updater**(*token=None*, *base_url=None*, *workers=4*, *bot=None*, *private_key=None*, *private_key_password=None*, *user_sig_handler=None*, *request_kwargs=None*, *persistence=None*, *defaults=None*, *use_context=True*, *dispatcher=None*, *base_file_url=None*, *arbitrary_callback_data=False*, *context_types=None*)

Bases: 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 *telegram.ext.Dispatcher*, provides a frontend to *telegram.Bot* 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 *telegram.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).

start_polling(*poll_interval=0.0*, *timeout=10*, *clean=None*, *bootstrap_retries=-1*, *read_latency=2.0*, *allowed_updates=None*, *drop_pending_updates=None*)
Starts polling updates from Telegram.

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

start_webhook(*listen='127.0.0.1'*, *port=80*, *url_path=''*, *cert=None*, *key=None*, *clean=None*, *bootstrap_retries=0*, *webhook_url=None*, *allowed_updates=None*, *force_event_loop=None*, *drop_pending_updates=None*, *ip_address=None*, *max_connections=40*)
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.

Note: `telegram.Bot.set_webhook.secret_token` is not checked by this webhook implementation. If you want to use this new security parameter, either build your own webhook server or update your code to version 20.0a2+.

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

class telegram.ext.**Dispatcher**(*bot*, *update_queue*, *workers=4*, *exception_event=None*, *job_queue=None*, *persistence=None*, *use_context=True*, *context_types=None*)

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 *telegram.ext.Handler*. 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 *telegram.ext.DispatcherHandlerStop* 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 *CallbackContext* 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.

classmethod from_error(*update*, *error*, *dispatcher*, *async_args=None*, *async_kwargs=None*)
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 APScheduler 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*

run_daily(*callback*, *time*, *days=(0, 1, 2, 3, 4, 5, 6)*, *context=None*, *name=None*, *job_kwargs=None*)

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*

run_monthly(*callback*, *when*, *day*, *context=None*, *name=None*, *day_is_strict=True*, *job_kwargs=None*)

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*

run_repeating(*callback*, *interval*, *first=None*, *last=None*, *context=None*, *name=None*, *job_kwargs=None*)

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 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.

  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

class telegram.ext.**MessageQueue**(*all_burst_limit=30*, *all_time_limit_ms=1000*, *group_burst_limit=20*, *group_time_limit_ms=60000*, *exc_route=None*, *autostart=True*)

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

class telegram.ext.**DelayQueue**(*queue=None*, *burst_limit=30*, *time_limit_ms=1000*, *exc_route=None*, *autostart=True*, *name=None*)
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

class telegram.ext.**ContextTypes**(*context=<class 'telegram.ext.callbackcontext.CallbackContext'>*, *bot_data=<class 'dict'>*, *chat_data=<class 'dict'>*, *user_data=<class 'dict'>*)
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

class telegram.ext.**Defaults**(*parse_mode=None*, *disable_notification=None*, *disable_web_page_preview=None*, *timeout=None*, *quote=None*, *tzinfo=<UTC>*, *run_async=False*, *allow_sending_without_reply=None*)

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 *Dispatcher.add_handler()* and *Dispatcher.add_error_handler()*. 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 *Dispatcher.add_handler()* and *Dispatcher.add_error_handler()*.

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 int | float

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

Type *tzinfo*

3.1.12 Handlers

telegram.ext.Handler

class telegram.ext.**Handler**(*callback*, *pass_update_queue=False*, *pass_job_queue=False*, *pass_user_data=False*, *pass_chat_data=False*, *run_async=False*)

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`. DEPRECATED: 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`. DEPRECATED: 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 *handle_update()* and *collect_additional_context()* 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 *check_update*.

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 *callback* along with its respectful arguments. To work with the *telegram.ext.ConversationHandler*, this method returns the value returned from *callback*. 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

class telegram.ext.**CallbackQueryHandler**(*callback*, *pass_update_queue=False*, *pass_job_queue=False*, *pattern=None*, *pass_groups=False*, *pass_groupdict=False*, *pass_user_data=False*, *pass_chat_data=False*, *run_async=False*)

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

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`. 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* | `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`. DEPRECATED: 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`. DEPRECATED: 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

class telegram.ext.**ChatJoinRequestHandler**(*callback*, *pass_update_queue=False*, *pass_job_queue=False*, *pass_user_data=False*, *pass_chat_data=False*, *run_async=False*)

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

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. 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. DEPRECATED: 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. DEPRECATED: 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

class telegram.ext.**ChatMemberHandler**(*callback*, *chat_member_types=-1*, *pass_update_queue=False*, *pass_job_queue=False*, *pass_user_data=False*, *pass_chat_data=False*, *run_async=False*)

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

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`. 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`. DEPRECATED: 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`. DEPRECATED: 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

class telegram.ext.**ChosenInlineResultHandler**(*callback*, *pass_update_queue=False*, *pass_job_queue=False*, *pass_user_data=False*, *pass_chat_data=False*, *run_async=False*, *pattern=None*)

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`. 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`. DEPRECATED: 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`. DEPRECATED: 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_chat_data=False*, *run_async=False*)
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 *CallbackContext* named *CallbackContext.args*. 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`. DEPRECATED: 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. DEPRECATED: 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 *callback*.

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_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 *entry_points*, is used to initiate the conversation, for example with a *telegram.ext.CommandHandler* or *telegram.ext.MessageHandler*.

The second collection, a `dict` named *states*, 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 *TIMEOUT* to define the behavior when *conversation_timeout* is exceeded, and a state for *WAITING* to define behavior when a new update is received while the previous `@run_async` 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 *END* or `-1`. To handle the conversation timeout, use handler *TIMEOUT* or `-2`. Finally, *telegram.ext.DispatcherHandlerStop* 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 *check_update* 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 *check_update*.

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

class telegram.ext.**InlineQueryHandler**(*callback*, *pass_update_queue=False*, *pass_job_queue=False*, *pattern=None*, *pass_groups=False*, *pass_groupdict=False*, *pass_user_data=False*, *pass_chat_data=False*, *run_async=False*, *chat_types=None*)

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

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 *telegram.InlineQuery.chat_type*.

  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`. DEPRECATED: 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`. DEPRECATED: 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 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.

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

class telegram.ext.**MessageHandler**(*filters*, *callback*, *pass_update_queue=False*, *pass_job_queue=False*, *pass_user_data=False*, *pass_chat_data=False*, *message_updates=None*, *channel_post_updates=None*, *edited_updates=None*, *run_async=False*)

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

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`. DEPRECATED: 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`. DEPRECATED: 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 *MessageFilter* or *UpdateFilter* and implement a `filter()` method that returns a boolean: `True` if the message should be handled, `False` 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

Example `MessageHandler(Filters.caption_entity("hashtag"), callback_method)`

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: *chat_ids* will give a *copy* of the saved chat ids as `frozenset`. This is to ensure thread safety. To add/remove a chat, you should use *add_usernames()*, *add_chat_ids()*, *remove_usernames()* and *remove_chat_ids()*. Only update the entire set by `filter.chat_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 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 *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 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

group

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")`.

video
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
Same as `Filters.document.mime_type("application/vnd.android.package-archive")`.

doc
Same as `Filters.document.mime_type("application/msword")`.

docx
Same as `Filters.document.mime_type("application/vnd.openxmlformats-officedocument.wordprocessingml.document")`.

exe
Same as `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")`.

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

svg
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: *chat_ids* will give a *copy* of the saved chat ids as `frozenset`. This is to ensure thread safety. To add/remove a chat, you should use *add_usernames()*, *add_chat_ids()*, *remove_usernames()* and *remove_chat_ids()*. Only update the entire set by `filter.chat_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 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 *language_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*.

premium_user = Filters.premium_user
This filter filters *any* message from a *Telegram Premium user* as *telegram.Update.effective_user*.

New in version 13.13.

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: *chat_ids* will return a *copy* of the saved chat ids as `frozenset`. This is to ensure thread safety. To add/remove a chat, you should use *add_usernames()*, *add_chat_ids()*, *remove_usernames()* and *remove_chat_ids()*. Only update the entire set by `filter.chat_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 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
Messages that contain *telegram.Message.group_chat_created*, *telegram.Message.supergroup_chat_created* or *telegram.Message.channel_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.Message.proximity_alert_triggered*.

voice_chat_scheduled
Messages that contain *telegram.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.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.SuccessfulPayment*.

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

user_attachment = Filters.user_attachment
This filter filters *any* message that have a user who added the bot to their *attachment menu* as *telegram.Update.effective_user*.

New in version 13.13.

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 *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 *UpdateFilter*, the object passed to *filter()* is update.effective_message.

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 *MessageFilter*, the object passed to *filter()* is update, which allows to create filters like Filters.update.edited_message.

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(*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

class telegram.ext.**PollAnswerHandler**(*callback*, *pass_update_queue=False*, *pass_job_queue=False*, *pass_user_data=False*, *pass_chat_data=False*, *run_async=False*)
Bases: telegram.ext.handler.Handler[telegram.update.Update, *telegram.ext.utils.types.CCT*]

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. DEPRECATED: 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. DEPRECATED: 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

class telegram.ext.**PollHandler**(*callback*, *pass_update_queue=False*, *pass_job_queue=False*, *pass_user_data=False*, *pass_chat_data=False*, *run_async=False*)

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`. 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`. DEPRECATED: 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`. DEPRECATED: 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

class telegram.ext.**PreCheckoutQueryHandler**(*callback*, *pass_update_queue=False*, *pass_job_queue=False*, *pass_user_data=False*, *pass_chat_data=False*, *run_async=False*)

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. DEPRECATED: 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. DEPRECATED: 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

class telegram.ext.**PrefixHandler**(*prefix*, *command*, *callback*, *filters=None*, *pass_args=False*, *pass_update_queue=False*, *pass_job_queue=False*, *pass_user_data=False*, *pass_chat_data=False*, *run_async=False*)

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

Handler class to handle custom prefix commands.

This is a intermediate handler between *MessageHandler* and *CommandHandler*. It supports configurable commands with the same options as CommandHandler. It will respond to every combination of *prefix* and *command*. It will add a `list` to the *CallbackContext* named *CallbackContext.args*. 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:

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

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`. 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`. DEPRECATED: 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`. DEPRECATED: 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

class telegram.ext.**RegexHandler**(*pattern*, *callback*, *pass_groups=False*, *pass_groupdict=False*, *pass_update_queue=False*, *pass_job_queue=False*, *pass_user_data=False*, *pass_chat_data=False*, *allow_edited=False*, *message_updates=True*, *channel_post_updates=False*, *edited_updates=False*, *run_async=False*)

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

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

class telegram.ext.**ShippingQueryHandler**(*callback*, *pass_update_queue=False*, *pass_job_queue=False*, *pass_user_data=False*, *pass_chat_data=False*, *run_async=False*)

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

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`. 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. DEPRECATED: 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. DEPRECATED: 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

class telegram.ext.**StringCommandHandler**(*command*, *callback*, *pass_args=False*, *pass_update_queue=False*, *pass_job_queue=False*, *run_async=False*)

Bases: telegram.ext.handler.Handler[str, *telegram.ext.utils.types.CCT*]

Handler class to handle string commands. Commands are string updates that start with /. The handler will add a list to the *CallbackContext* named *CallbackContext.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

class telegram.ext.**StringRegexHandler**(*pattern*, *callback*, *pass_groups=False*, *pass_groupdict=False*, *pass_update_queue=False*, *pass_job_queue=False*, *run_async=False*)
Bases: telegram.ext.handler.Handler[str, *telegram.ext.utils.types.CCT*]

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

class telegram.ext.**TypeHandler**(*type*, *callback*, *strict=False*, *pass_update_queue=False*, *pass_job_queue=False*, *run_async=False*)

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.

Parameters

- **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`. 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`.

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

class telegram.ext.**BasePersistence**(**args*, ***kwargs*)
Bases: Generic[*telegram.ext.utils.types.UD*, *telegram.ext.utils.types.CD*, *telegram.ext.utils.types.BD*], abc.ABC

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 *telegram.Bot* instances by *REPLACED_BOT* and insert the bot set with *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 *replace_bot()* and *insert_bot()*.

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.

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.

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.

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

- **chat_id** (int) – 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 *filename_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 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 `DictPersistence` is in-memory only and will be lost when the bot shuts down. This is, because `DictPersistence` 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

class telegram.ext.utils.promise.**Promise**(*pooled_function*, *args*, *kwargs*, *update=None*, *error_handling=True*)

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.

`telegram.ext.utils.types.`**`BD`**
Type of the bot data.

New in version 13.6.

alias of TypeVar('BD')

`telegram.ext.utils.types.`**`CCT`**
An instance of *telegram.ext.CallbackContext* or a custom subclass.

New in version 13.6.

alias of TypeVar('CCT')

`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`**
Data returned by *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

`class` `telegram.`**`Animation`**(*file_id*, *file_unique_id*, *width*, *height*, *duration*, *thumb=None*, *file_name=None*, *mime_type=None*, *file_size=None*, *bot=None*, ***_kwargs*)
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()*.

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*** –

3.2.2 telegram.Audio

class telegram.**Audio**(*file_id*, *file_unique_id*, *duration*, *performer=None*, *title=None*, *mime_type=None*, *file_size=None*, *thumb=None*, *bot=None*, *file_name=None*, ***_kwargs*)
Bases: telegram.base.TelegramObject

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

class telegram.**Bot**(*token*, *base_url=None*, *base_file_url=None*, *request=None*, *private_key=None*, *private_key_password=None*, *defaults=None*)
Bases: telegram.base.TelegramObject

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 data.
- **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.

addStickerToSet(*user_id*, *name*, *emojis*, *png_sticker=None*, *mask_position=None*, *timeout=20*, *tgs_sticker=None*, *api_kwargs=None*, *webm_sticker=None*)

Alias for *add_sticker_to_set()*

add_sticker_to_set(*user_id*, *name*, *emojis*, *png_sticker=None*, *mask_position=None*, *timeout=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*** –

answerCallbackQuery(*callback_query_id*, *text=None*, *show_alert=False*, *url=None*, *cache_time=None*, *timeout=None*, *api_kwargs=None*)
Alias for *answer_callback_query()*

answerInlineQuery(*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*)
Alias for *answer_inline_query()*

answerPreCheckoutQuery(*pre_checkout_query_id*, *ok*, *error_message=None*, *timeout=None*, *api_kwargs=None*)
Alias for *answer_pre_checkout_query()*

answerShippingQuery(*shipping_query_id*, *ok*, *shipping_options=None*, *error_message=None*, *timeout=None*, *api_kwargs=None*)
Alias for *answer_shipping_query()*

answerWebAppQuery(*web_app_query_id*, *result*, *timeout=None*, *api_kwargs=None*)
Alias for *answer_web_app_query()*

answer_callback_query(*callback_query_id*, *text=None*, *show_alert=False*, *url=None*, *cache_time=None*, *timeout=None*, *api_kwargs=None*)
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 *telegram.InlineQuery.answer()* with auto_pagination=True, which will take care of passing the correct value.

Parameters

- **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.

Parameters

- **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.

Parameters

- **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.SentWebAppMessage* is returned.

Return type *telegram.SentWebAppMessage*

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* –

banChatMember(*chat_id*, *user_id*, *timeout=None*, *until_date=None*, *api_kwargs=None*, *revoke_messages=None*)
Alias for *ban_chat_member()*

banChatSenderChat(*chat_id*, *sender_chat_id*, *timeout=None*, *api_kwargs=None*)
Alias for *ban_chat_sender_chat()*

ban_chat_member(*chat_id*, *user_id*, *timeout=None*, *until_date=None*, *api_kwargs=None*, *revoke_messages=None*)
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.

Parameters

- **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 *forward_message()*, 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.MessageId*

Raises ***telegram.error.TelegramError*** –

createChatInviteLink(*chat_id*, *expire_date=None*, *member_limit=None*, *timeout=None*, *api_kwargs=None*, *name=None*, *creates_join_request=None*)

Alias for *create_chat_invite_link()*

createInvoiceLink(*title*, *description*, *payload*, *provider_token*, *currency*, *prices*, *max_tip_amount=None*, *suggested_tip_amounts=None*, *provider_data=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*, *send_phone_number_to_provider=None*, *send_email_to_provider=None*, *is_flexible=None*, *timeout=None*, *api_kwargs=None*)

Alias for *create_invoice_link()*

createNewStickerSet(*user_id*, *name*, *title*, *emojis*, *png_sticker=None*, *contains_masks=None*, *mask_position=None*, *timeout=20*, *tgs_sticker=None*, *api_kwargs=None*, *webm_sticker=None*, *sticker_type=None*)

Alias for *create_new_sticker_set()*

create_chat_invite_link(*chat_id*, *expire_date=None*, *member_limit=None*, *timeout=None*, *api_kwargs=None*, *name=None*, *creates_join_request=None*)

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_invoice_link(*title*, *description*, *payload*, *provider_token*, *currency*, *prices*, *max_tip_amount=None*, *suggested_tip_amounts=None*, *provider_data=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*, *send_phone_number_to_provider=None*, *send_email_to_provider=None*, *is_flexible=None*, *timeout=None*, *api_kwargs=None*)

Use this method to create a link for an invoice.

New in version 13.13.

Parameters

- **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, see more on currencies.
- **prices** (List[*telegram.LabeledPrice*) – Price breakdown, a 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) – An 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`.
- **provider_data** (`str` | `object`, optional) – 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.
- **photo_size** (`int`, optional) – Photo size in bytes.
- **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.
- **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 created invoice link is returned.

Return type `str`

create_new_sticker_set(*user_id*, *name*, *title*, *emojis*, *png_sticker=None*, *contains_masks=None*, *mask_position=None*, *timeout=20*, *tgs_sticker=None*, *api_kwargs=None*, *webm_sticker=None*, *sticker_type=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')`

Changed in version 13.14: The parameter `contains_masks` has been depreciated as of Bot API 6.2. Use `sticker_type` instead.

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.
- **sticker_type** (`str`, optional) – Type of stickers in the set, pass *telegram.Sticker.REGULAR* or *telegram.Sticker.MASK*. Custom emoji sticker sets can't be created via the Bot API at the moment. By default, a regular sticker set is created.

  New in version 13.14.
- **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.

Returns On success, True is returned.

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 *get_updates()*.

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*** –

editChatInviteLink(*chat_id*, *invite_link*, *expire_date=None*, *member_limit=None*, *timeout=None*, *api_kwargs=None*, *name=None*, *creates_join_request=None*)

Alias for *edit_chat_invite_link()*

editMessageCaption(*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*)

Alias for `edit_message_caption()`

editMessageLiveLocation(*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*)

Alias for `edit_message_live_location()`

editMessageMedia(*chat_id=None*, *message_id=None*, *inline_message_id=None*, *media=None*, *reply_markup=None*, *timeout=None*, *api_kwargs=None*)

Alias for `edit_message_media()`

editMessageReplyMarkup(*chat_id=None*, *message_id=None*, *inline_message_id=None*, *reply_markup=None*, *timeout=None*, *api_kwargs=None*)

Alias for `edit_message_reply_markup()`

editMessageText(*text*, *chat_id=None*, *message_id=None*, *inline_message_id=None*, *parse_mode=None*, *disable_web_page_preview=None*, *reply_markup=None*, *timeout=None*, *api_kwargs=None*, *entities=None*)

Alias for `edit_message_text()`

edit_chat_invite_link(*chat_id*, *invite_link*, *expire_date=None*, *member_limit=None*, *timeout=None*, *api_kwargs=None*, *name=None*, *creates_join_request=None*)

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*** –

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*)

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.

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.
- **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 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*** –

edit_message_text(*text*, *chat_id=None*, *message_id=None*, *inline_message_id=None*, *parse_mode=None*, *disable_web_page_preview=None*, *reply_markup=None*, *timeout=None*, *api_kwargs=None*, *entities=None*)

Use this method to edit text and game 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.
- **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 *export_chat_invite_link()* or by calling the *get_chat()* method. If your bot needs to generate a new primary invite link replacing its previous one, use *export_chat_invite_link* 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 *copy_message()*. 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()*

getCustomEmojiStickers(*custom_emoji_ids*, *, *timeout=None*, *api_kwargs=None*)
Alias for *get_custom_emoji_stickers()*

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 pool).
- **api_kwargs** (`dict`, optional) – Arbitrary keyword arguments to be passed to the Telegram API.

Returns On success, returns a list of `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*]

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.

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.
- **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** (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 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_custom_emoji_stickers(*custom_emoji_ids*, *, *timeout=None*, *api_kwargs=None*)
Use this method to get information about emoji stickers by their identifiers.

New in version 13.14.

Parameters **custom_emoji_ids** (List[str]) – List of custom emoji identifiers. At most 200 custom emoji identifiers can be specified.

Keyword Arguments

- **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.Sticker*]

Raises ***telegram.error.TelegramError*** –

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 *telegram.File.download()*. 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 get_file 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 about.
- **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*)
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.

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*** –

get_my_default_administrator_rights(*for_channels=None*, *timeout=None*, *api_kwargs=None*)

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*** –

get_updates(*offset=None*, *limit=100*, *timeout=0*, *read_latency=2.0*, *allowed_updates=None*, *api_kwargs=None*)

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*** –

get_user_profile_photos(*user_id*, *offset=None*, *limit=100*, *timeout=None*, *api_kwargs=None*)

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 *get_updates()*, will return an object with the *telegram.WebhookInfo.url* 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.WebhookInfo*

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()*

kick_chat_member(*chat_id*, *user_id*, *timeout=None*, *until_date=None*, *api_kwargs=None*, *revoke_messages=None*)
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.

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 On success, True is returned.

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`

pinChatMessage(*chat_id*, *message_id*, *disable_notification=None*, *timeout=None*, *api_kwargs=None*)
Alias for *pin_chat_message()*

pin_chat_message(*chat_id*, *message_id*, *disable_notification=None*, *timeout=None*, *api_kwargs=None*)
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 *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`) – 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.

Returns On success, `True` is returned.

Return type `bool`

Raises *telegram.error.TelegramError* –

promoteChatMember(*chat_id*, *user_id*, *can_change_info=None*, *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*)
Alias for *promote_chat_member()*

promote_chat_member(*chat_id*, *user_id*, *can_change_info=None*, *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*)
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.

Returns On success, True is returned.

Return type bool

Raises *telegram.error.TelegramError* –

restrictChatMember(*chat_id*, *user_id*, *permissions*, *until_date=None*, *timeout=None*, *api_kwargs=None*)

Alias for *restrict_chat_member()*

restrict_chat_member(*chat_id*, *user_id*, *permissions*, *until_date=None*, *timeout=None*, *api_kwargs=None*)

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.

Parameters

- **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.

Returns On success, `True` is returned.

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.

Returns *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()*

sendAudio(*chat_id*, *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*)

Alias for *send_audio()*

sendChatAction(*chat_id*, *action*, *timeout=None*, *api_kwargs=None*)

Alias for *send_chat_action()*

sendContact(*chat_id*, *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*)

Alias for *send_contact()*

sendDice(*chat_id*, *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*)

Alias for *send_dice()*

sendDocument(*chat_id*, *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*)

Alias for *send_document()*

sendGame(*chat_id*, *game_short_name*, *disable_notification=None*, *reply_to_message_id=None*, *reply_markup=None*, *timeout=None*, *api_kwargs=None*, *allow_sending_without_reply=None*, *protect_content=None*)

Alias for *send_game()*

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*, *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*)

Alias for *send_invoice()*

sendLocation(*chat_id*, *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*)

Alias for *send_location()*

sendMediaGroup(*chat_id*, *media*, *disable_notification=None*, *reply_to_message_id=None*, *timeout=20*, *api_kwargs=None*, *allow_sending_without_reply=None*, *protect_content=None*)

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()*

sendSticker(*chat_id*, *sticker*, *disable_notification=None*, *reply_to_message_id=None*, *reply_markup=None*, *timeout=20*, *api_kwargs=None*, *allow_sending_without_reply=None*, *protect_content=None*)

Alias for *send_sticker()*

sendVenue(*chat_id*, *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*)

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()*

sendVideoNote(*chat_id*, *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*, *protect_content=None*)

Alias for *send_video_note()*

sendVoice(*chat_id*, *voice*, *duration=None*, *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_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*** –

send_audio(*chat_id*, *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*)

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')`

Parameters

- **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*** –

send_contact(*chat_id*, *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*)

Use this method to send phone contacts.

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*** –

send_dice(*chat_id*, *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*)

Use this method to send an animated emoji that will display a random value.

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*** –

send_document(*chat_id*, *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*)

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*** –

send_game(*chat_id*, *game_short_name*, *disable_notification=None*, *reply_to_message_id=None*, *reply_markup=None*, *timeout=None*, *api_kwargs=None*, *allow_sending_without_reply=None*, *protect_content=None*)

Use this method to send a game.

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*** –

send_location(*chat_id*, *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*)

Use this method to send point on the map.

Note: You can either supply a `latitude` and `longitude` or a `location`.

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 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*** –

send_media_group(*chat_id*, *media*, *disable_notification=None*, *reply_to_message_id=None*, *timeout=20*, *api_kwargs=None*, *allow_sending_without_reply=None*, *protect_content=None*)

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*** –

send_photo(*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*)

Use this method to send photos.

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_poll(*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*** –

send_sticker(*chat_id*, *sticker*, *disable_notification=None*, *reply_to_message_id=None*, *reply_markup=None*, *timeout=20*, *api_kwargs=None*, *allow_sending_without_reply=None*, *protect_content=None*)

Use this method to send static .WEBP, animated .TGS, or video .WEBM stickers.

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*** –

send_venue(*chat_id*, *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*)

Use this method to send information about a venue.

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*** –

send_video(*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*)

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*, *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*, *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*** –

send_voice(*chat_id*, *voice*, *duration=None*, *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*)

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.

Return type *telegram.Message*

Raises ***telegram.error.TelegramError*** –

setChatAdministratorCustomTitle(*chat_id*, *user_id*, *custom_title*, *timeout=None*, *api_kwargs=None*)
Alias for *set_chat_administrator_custom_title()*

setChatDescription(*chat_id*, *description*, *timeout=None*, *api_kwargs=None*)
Alias for *set_chat_description()*

setChatMenuButton(*chat_id=None*, *menu_button=None*, *timeout=None*, *api_kwargs=None*)
Alias for *set_chat_menu_button()*

setChatPermissions(*chat_id*, *permissions*, *timeout=None*, *api_kwargs=None*)
Alias for *set_chat_permissions()*

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()*

setMyCommands(*commands*, *timeout=None*, *api_kwargs=None*, *scope=None*, *language_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*, *secret_token=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 must be an administrator for this to work.

Parameters

- **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* –

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.

Parameters

- **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* –

set_chat_menu_button(*chat_id=None*, *menu_button=None*, *timeout=None*, *api_kwargs=None*)

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 *telegram.ChatMember.can_restrict_members* 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 *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).
- **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.

Parameters

- **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* –

set_game_score(*user_id*, *score*, *chat_id=None*, *message_id=None*, *inline_message_id=None*, *force=None*, *disable_edit_message=None*, *timeout=None*, *api_kwargs=None*)

Use this method to set the score of the specified user in a game.

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.

Parameters

- **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*, *timeout=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 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.

Parameters

- **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*** –

set_webhook(*url=None*, *certificate=None*, *timeout=None*, *max_connections=40*, *allowed_updates=None*, *api_kwargs=None*, *ip_address=None*, *drop_pending_updates=None*, *secret_token=None*)

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 was set by you, you can specify secret data in the parameter `secret_token`. If specified, the request will contain a header `X-Telegram-Bot-Api-Secret-Token` with the secret token as content.

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.

  secret_token (str, optional): A secret token to be sent in a header
  X-Telegram-Bot-Api-Secret-Token in every webhook request, 1-256 characters. Only characters A-Z, a-z, 0-9, _ and - are allowed. The header is useful to ensure that the request comes from a webhook set by you.

  New in version 13.13.
- **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*, *reply_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()*

stop_message_live_location(*chat_id=None*, *message_id=None*, *inline_message_id=None*, *reply_markup=None*, *timeout=None*, *api_kwargs=None*)
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()*

unban_chat_member(*chat_id*, *user_id*, *timeout=None*, *api_kwargs=None*, *only_if_banned=None*)

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()*

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 *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).
- **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 *create_new_sticker_set()* and *add_sticker_to_set()* 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.

Return type *telegram.File*

Raises *telegram.error.TelegramError* –

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 str | int

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** (str | int) – 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 str | int

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.

Parameters

- **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 str | int

user_id
Unique identifier of the target user.

Type int

3.2.13 telegram.CallbackQuery

class telegram.**CallbackQuery**(*id*, *from_user*, *chat_instance*, *message=None*, *data=None*, *inline_message_id=None*, *game_short_name=None*, *bot=None*, ***_kwargs*)

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 *message* will be present. If the button was attached to a message sent via the bot (in inline mode), the field *inline_message_id* will be present.

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.
- 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 *answer*. It is, therefore, necessary to react by calling *telegram.Bot.answer_callback_query* 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.

Parameters

- **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 str|object

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.

answer(*text=None*, *show_alert=False*, *url=None*, *cache_time=None*, *timeout=None*, *api_kwargs=None*)
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

copy_message(*chat_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:

```
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`

edit_message_caption(*caption=None*, *reply_markup=None*, *timeout=None*, *parse_mode=None*, *api_kwargs=None*, *caption_entities=None*)
Shortcut for either:

```
update.callback_query.message.edit_caption(caption, *args, **kwargs)
```

or:

```
bot.edit_message_caption(caption=caption
                         inline_message_id=update.callback_query.inline_
↪message_id,
                        *args, **kwargs)
```

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*

edit_message_live_location(*latitude=None*, *longitude=None*, *location=None*, *reply_markup=None*, *timeout=None*, *api_kwargs=None*, *horizontal_accuracy=None*, *heading=None*, *proximity_alert_radius=None*)
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*

edit_message_text(*text*, *parse_mode=None*, *disable_web_page_preview=None*, *reply_markup=None*, *timeout=None*, *api_kwargs=None*, *entities=None*)

Shortcut for either:

```
update.callback_query.message.edit_text(text, *args, **kwargs)
```

or:

```
bot.edit_message_text(text, inline_message_id=update.callback_query.inline_
↪message_id,
                      *args, **kwargs)
```

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*]

pin_message(*disable_notification=None*, *timeout=None*, *api_kwargs=None*)

Shortcut for:

```
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`

set_game_score(*user_id*, *score*, *force=None*, *disable_edit_message=None*, *timeout=None*, *api_kwargs=None*)

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

class telegram.**Chat**(*id*, *type*, *title=None*, *username=None*, *first_name=None*, *last_name=None*, *bot=None*, *photo=None*, *description=None*, *invite_link=None*, *pinned_message=None*, *permissions=None*, *sticker_set_name=None*, *can_set_sticker_set=None*, *slow_mode_delay=None*, *bio=None*, *linked_chat_id=None*, *location=None*, *message_auto_delete_time=None*, *has_private_forwards=None*, *has_protected_content=None*, *join_to_send_messages=None*, *join_by_request=None*, *has_restricted_voice_and_video_messages=None*, ***_kwargs*)

Bases: `telegram.base.TelegramObject`

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 *id* is equal.

Parameters

- **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()*.
- **join_to_send_messages** (bool, optional) – True, if users need to join the supergroup before they can send messages. Returned only in *telegram.Bot.get_chat()*.

  New in version 13.13.
- **join_by_request** (bool, optional) – True, if all users directly joining the supergroup need to be approved by supergroup administrators. Returned only in *telegram.Bot.get_chat()*.

  New in version 13.13.
- **has_restricted_voice_and_video_messages** (bool, optional) – True, if the privacy settings of the other party restrict sending voice and video note messages in the private chat. Returned only in *telegram.Bot.get_chat()*.

  New in version 13.14.
- ****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*

join_to_send_messages
Optional. `True`, if users need to join the supergroup before they can send messages. Returned only in *telegram.Bot.get_chat()*.

New in version 13.13.

Type `bool`

join_by_request
Optional. `True`, if all users directly joining the supergroup need to be approved by supergroup administrators. Returned only in *telegram.Bot.get_chat()*.

New in version 13.13.

Type `bool`

has_restricted_voice_and_video_messages
Optional. `True`, if the privacy settings of the other party restrict sending voice and video note messages in the private chat. Returned only in *telegram.Bot.get_chat()*.

New in version 13.14.

Type `bool`

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:

```
bot.approve_chat_join_request(chat_id=update.effective_chat.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`

ban_chat(*chat_id*, *timeout=None*, *api_kwargs=None*)

Shortcut for:

```
bot.ban_chat_sender_chat(sender_chat_id=update.effective_chat.id, *args,␣
↪**kwargs)
```

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`

ban_member(*user_id*, *timeout=None*, *until_date=None*, *api_kwargs=None*, *revoke_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 see *telegram.Bot.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*, *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_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 the 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,␣
↪**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`

edit_invite_link(*invite_link*, *expire_date=None*, *member_limit=None*, *timeout=None*, *api_kwargs=None*, *name=None*, *creates_join_request=None*)

Shortcut for:

```
bot.edit_chat_invite_link(chat_id=update.effective_chat.id, *args,␣
↪**kwargs)
```

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()*.

Returns *telegram.ChatInviteLink*

export_invite_link(*timeout=None*, *api_kwargs=None*)

Shortcut for:

```
bot.export_chat_invite_link(chat_id=update.effective_chat.id, *args,␣
↪**kwargs)
```

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)
```

For 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 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:: *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*, *revoke_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`

promote_member(*user_id*, *can_change_info=None*, *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)
```

For the 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)
```

For the documentation of the arguments, please see *telegram.Bot.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*

send_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*, *protect_content=None*)

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*

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_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*

send_game(*game_short_name*, *disable_notification=None*, *reply_to_message_id=None*, *reply_markup=None*, *timeout=None*, *api_kwargs=None*, *allow_sending_without_reply=None*, *protect_content=None*)

Shortcut for:

```
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*

send_invoice(*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*)

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*, *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_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*

send_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*, *protect_content=None*)

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*

send_sticker(*sticker*, *disable_notification=None*, *reply_to_message_id=None*, *reply_markup=None*, *timeout=20*, *api_kwargs=None*, *allow_sending_without_reply=None*, *protect_content=None*)

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*, *allow_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*

send_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*, *protect_content=None*)

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*

send_voice(*voice*, *duration=None*, *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*)

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)
```

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:

```
bot.unban_chat_sender_chat(chat_id=update.effective_chat.id, *args,␣
↪**kwargs)
```

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:

```
bot.unpin_all_chat_messages(chat_id=update.effective_chat.id,
                            *args,
                            **kwargs)
```

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:

```
bot.unpin_chat_message(chat_id=update.effective_chat.id,
                       *args,
                       **kwargs)
```

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

class telegram.**ChatAdministratorRights**(*is_anonymous*, *can_manage_chat*, *can_delete_messages*, *can_manage_video_chats*, *can_restrict_members*, *can_promote_members*, *can_change_info*, *can_invite_users*, *can_post_messages=None*, *can_edit_messages=None*, *can_pin_messages=None*, ***_kwargs*)
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 *is_anonymous*, *can_manage_chat*, *can_delete_messages*, *can_manage_video_chats*, *can_restrict_members*, *can_promote_members*, *can_change_info*, *can_invite_users*, *can_post_messages*, *can_edit_messages*, *can_pin_messages* 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

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 *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

class telegram.**ChatInviteLink**(*invite_link*, *creator*, *is_primary*, *is_revoked*, *expire_date=None*, *member_limit=None*, *name=None*, *creates_join_request=None*, *pending_join_request_count=None*, ***_kwargs*)

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 *invite_link*, *creator*, *is_primary* and *is_revoked* 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

class telegram.**ChatJoinRequest**(*chat*, *from_user*, *date*, *bio=None*, *invite_link=None*, *bot=None*, ***_kwargs*)
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_invite_users=None*, *can_restrict_members=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*, *custom_title=None*, *is_anonymous=None*, *can_manage_chat=None*, *can_manage_voice_chats=None*, *can_manage_video_chats=None*, ***_kwargs*)
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 *can_manage_video_chats* 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

class telegram.**ChatMemberRestricted**(*user*, *is_member=None*, *can_change_info=None*, *can_invite_users=None*, *can_pin_messages=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*, *until_date=None*, ***_kwargs*)

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

class telegram.**ChatMemberUpdated**(*chat*, *from_user*, *date*, *old_chat_member*, *new_chat_member*, *invite_link=None*, ***_kwargs*)
Bases: telegram.base.TelegramObject

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*

classmethod de_json(*data*, *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

class telegram.**ChatPermissions**(*can_send_messages=None*, *can_send_media_messages=None*, *can_send_polls=None*, *can_send_other_messages=None*, *can_add_web_page_previews=None*, *can_change_info=None*, *can_invite_users=None*, *can_pin_messages=None*, ***_kwargs*)
Bases: `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 *can_send_messages*.

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

class `telegram.`**ChatPhoto**(*small_file_id*, *small_file_unique_id*, *big_file_id*, *big_file_unique_id*, *bot=None*, ***_kwargs*)
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**
6.2. 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.**MAX_MESSAGE_LENGTH**
4096

Type int

telegram.constants.**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**
30

Type int

telegram.constants.**MAX_MESSAGES_PER_MINUTE_PER_GROUP**
20

Type int

telegram.constants.**MAX_INLINE_QUERY_RESULTS**
50

Type int

telegram.constants.**MAX_ANSWER_CALLBACK_QUERY_TEXT_LENGTH**
200

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

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**
''

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'

Type str

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_CUSTOM_EMOJI**
'custom_emoji'

New in version 13.14.

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.Sticker:

telegram.constants.**STICKER_REGULAR**
New in version 13.14.

Type str

telegram.constants.**STICKER_MASK**
New in version 13.14.

Type str

telegram.constants.**STICKER_CUSTOM_EMOJI**
New in version 13.14.

Type str

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

class telegram.**Contact**(*phone_number*, *first_name*, *last_name=None*, *user_id=None*, *vcard=None*, ***_kwargs*)

Bases: telegram.base.TelegramObject

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 basketball 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

class telegram.**Document**(*file_id*, *file_unique_id*, *thumb=None*, *file_name=None*, *mime_type=None*, *file_size=None*, *bot=None*, ***_kwargs*)
Bases: `telegram.base.TelegramObject`

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.

Type *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.

Parameters **retry_after** (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

class telegram.**File**(*file_id*, *file_unique_id*, *bot=None*, *file_size=None*, *file_path=None*, ***_kwargs*)

Bases: telegram.base.TelegramObject

This object represents a file ready to be downloaded. The file can be downloaded with *download*. 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 *telegram.Bot.get_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.

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 `str | io.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

class telegram.**ForceReply**(*force_reply=True*, *selective=False*, *input_field_placeholder=None*, ***_kwargs*)

Bases: `telegram.replymarkup.ReplyMarkup`

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

class telegram.**InlineKeyboardButton**(*text*, *url=None*, *callback_data=None*, *switch_inline_query=None*, *switch_inline_query_current_chat=None*, *callback_game=None*, *pay=None*, *login_url=None*, *web_app=None*, ***_kwargs*)

Bases: `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 *callback_game* 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 `str|object`

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 *answer_web_app_query()*. Available only in private chats between a user and the bot.

New in version 13.12.

Type *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 `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.CallbackGame*

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 *inline_keyboard* 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
- ****kwargs** (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

class telegram.**InputMediaAnimation**(*media*, *thumb=None*, *caption=None*, *parse_mode=None*, *width=None*, *height=None*, *duration=None*, *caption_entities=None*, *filename=None*)
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 `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*]

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

class telegram.**InputMediaAudio**(*media*, *thumb=None*, *caption=None*, *parse_mode=None*, *duration=None*, *performer=None*, *title=None*, *caption_entities=None*, *filename=None*)
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*, *caption=None*, *parse_mode=None*, *disable_content_type_detection=None*, *caption_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 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*]

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 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*]

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: 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 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*]

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

class telegram.**KeyboardButton**(*text*, *request_contact=None*, *request_location=None*, *request_poll=None*, *web_app=None*, ***_kwargs*)
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_poll** (*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

class telegram.**Location**(*longitude*, *latitude*, *horizontal_accuracy=None*, *live_period=None*, *heading=None*, *proximity_alert_radius=None*, ***_kwargs*)
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

class telegram.**LoginUrl**(*url*, *forward_text=None*, *bot_username=None*, *request_write_access=None*, ***_kwargs*)

Bases: telegram.base.TelegramObject

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

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Parameters

- **url** (str) – An HTTPS 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 HTTPS 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

classmethod de_json(*data*, *bot*)
Converts JSON data to the appropriate *MenuButton* 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.

3.2.51 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
telegram.constants.MENU_BUTTON_WEB_APP.

Type str

text
Text of the button.

Type 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 *answerWebAppQuery()*.

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*, *forward_date=None*, *reply_to_message=None*, *edit_date=None*, *text=None*, *entities=None*, *caption_entities=None*, *audio=None*, *document=None*, *game=None*, *photo=None*, *sticker=None*, *video=None*, *voice=None*, *video_note=None*, *new_chat_members=None*, *caption=None*, *contact=None*, *location=None*, *venue=None*, *left_chat_member=None*, *new_chat_title=None*, *new_chat_photo=None*, *delete_chat_photo=False*, *group_chat_created=False*, *supergroup_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*, *media_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 supergroup 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 *Message.parse_entity* and *parse_entities* 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 *Message.parse_caption_entity* and *parse_caption_entities* 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.

Type *telegram.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.MessageAutoDeleteTimerChanged*

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.SuccessfulPayment*

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.

Type *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.InlineKeyboardMarkup*

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.

Note: Custom emoji entities will currently be ignored by this function. Instead, the supplied replacement for the emoji will be used.

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.

Note: Custom emoji entities will currently be ignored by this function. Instead, the supplied replacement for the emoji will be used.

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 a legacy mode, retained by Telegram for** backward compatibility. You should use *caption_markdown_v2()* instead.

- Custom emoji entities will currently be ignored by this function. Instead, the supplied replacement for the emoji will be used.

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 a legacy mode, retained by Telegram for** backward compatibility. You should use *caption_markdown_v2_urled()* instead.
- Custom emoji entities will currently be ignored by this function. Instead, the supplied replacement for the emoji will be used.

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.

Note: Custom emoji entities will currently be ignored by this function. Instead, the supplied replacement for the emoji will be used.

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.

Note: Custom emoji entities will currently be ignored by this function. Instead, the supplied replacement for the emoji will be used.

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*, *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(chat_id=chat_id,
                 from_chat_id=update.effective_message.chat_id,
                 message_id=update.effective_message.message_id,
                 *args,
                 **kwargs)
```

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:

```
bot.delete_message(chat_id=message.chat_id,
                   message_id=message.message_id,
                   *args,
                   **kwargs)
```

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

Returns On success, `True` is returned.

Return type `bool`

edit_caption(*caption=None*, *reply_markup=None*, *timeout=None*, *parse_mode=None*, *api_kwargs=None*, *caption_entities=None*)
Shortcut for:

```
bot.edit_message_caption(chat_id=message.chat_id,
                         message_id=message.message_id,
                         *args,
                         **kwargs)
```

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*

edit_live_location(*latitude=None*, *longitude=None*, *location=None*, *reply_markup=None*, *timeout=None*, *api_kwargs=None*, *horizontal_accuracy=None*, *heading=None*, *proximity_alert_radius=None*)

Shortcut for:

```
bot.edit_message_live_location(chat_id=message.chat_id,
                               message_id=message.message_id,
                               *args,
                               **kwargs)
```

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(*media=None*, *reply_markup=None*, *timeout=None*, *api_kwargs=None*)

Shortcut for:

```
bot.edit_message_media(chat_id=message.chat_id,
                       message_id=message.message_id,
                       *args,
                       **kwargs)
```

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*

edit_reply_markup(*reply_markup=None*, *timeout=None*, *api_kwargs=None*)

Shortcut for:

```
bot.edit_message_reply_markup(chat_id=message.chat_id,
                              message_id=message.message_id,
                              *args,
                              **kwargs)
```

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*

edit_text(*text*, *parse_mode=None*, *disable_web_page_preview=None*, *reply_markup=None*, *timeout=None*, *api_kwargs=None*, *entities=None*)

Shortcut for:

```
bot.edit_message_text(chat_id=message.chat_id,
                      message_id=message.message_id,
                      *args,
                      **kwargs)
```

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.SuccessfulPayment* or *telegram.Venue* or *telegram.Video* or *telegram.VideoNote* 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:

```
bot.forward_message(chat_id=chat_id,
                    from_chat_id=update.effective_message.chat_id,
                    message_id=update.effective_message.message_id,
                    *args,
                    **kwargs)
```

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*

get_game_high_scores(*user_id*, *timeout=None*, *api_kwargs=None*)

Shortcut for:

```
bot.get_game_high_scores(chat_id=message.chat_id,
                         message_id=message.message_id,
                         *args,
                         **kwargs)
```

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`

parse_caption_entities(*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 *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_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.

pin(*disable_notification=None*, *timeout=None*, *api_kwargs=None*)

Shortcut for:

```
bot.pin_chat_message(chat_id=message.chat_id,
                     message_id=message.message_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`

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:

```
bot.copy_message(chat_id=message.chat.id,
                 from_chat_id=from_chat_id,
                 message_id=message_id,
```

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```
                    *args,
                    **kwargs)
```

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.MessageId*

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*

reply_game(*game_short_name*, *disable_notification=None*, *reply_to_message_id=None*, *reply_markup=None*, *timeout=None*, *api_kwargs=None*, *allow_sending_without_reply=None*, *quote=None*, *protect_content=None*)

Shortcut for:

```
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*

reply_invoice(*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*, *quote=None*, *max_tip_amount=None*, *suggested_tip_amounts=None*, *protect_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*, *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*, *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,
    **kwargs,
)
```

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*

reply_sticker(*sticker*, *disable_notification=None*, *reply_to_message_id=None*, *reply_markup=None*, *timeout=20*, *api_kwargs=None*, *allow_sending_without_reply=None*, *quote=None*, *protect_content=None*)

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*, *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, *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*)

Shortcut for:

```
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:

```
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*

reply_voice(*voice*, *duration=None*, *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_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*

set_game_score(*user_id*, *score*, *force=None*, *disable_edit_message=None*, *timeout=None*, *api_kwargs=None*)

Shortcut for:

```
bot.set_game_score(chat_id=message.chat_id,
                   message_id=message.message_id,
                   *args,
                   **kwargs)
```

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:

```
bot.stop_message_live_location(chat_id=message.chat_id,
                               message_id=message.message_id,
                               *args,
                               **kwargs)
```

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:

```
bot.stop_poll(chat_id=message.chat_id,
              message_id=message.message_id,
              *args,
              **kwargs)
```

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.

Note: Custom emoji entities will currently be ignored by this function. Instead, the supplied replacement for the emoji will be used.

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.

Note: Custom emoji entities will currently be ignored by this function. Instead, the supplied replacement for the emoji will be used.

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 a legacy mode, retained by Telegram for** backward compatibility. You should use *text_markdown_v2()* instead.
- Custom emoji entities will currently be ignored by this function. Instead, the supplied replacement for the emoji will be used.

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 a legacy mode, retained by Telegram for** backward compatibility. You should use *text_markdown_v2_urled()* instead.
- Custom emoji entities will currently be ignored by this function. Instead, the supplied replacement for the emoji will be used.

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.

Note: Custom emoji entities will currently be ignored by this function. Instead, the supplied replacement for the emoji will be used.

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.

Note: Custom emoji entities will currently be ignored by this function. Instead, the supplied replacement for the emoji will be used.

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:

```
bot.unpin_chat_message(chat_id=message.chat_id,
                       message_id=message.message_id,
                       *args,
                       **kwargs)
```

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

class telegram.**MessageAutoDeleteTimerChanged**(*message_auto_delete_time*, ***_kwargs*)

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.MessageId

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

class telegram.**MessageEntity**(*type*, *offset*, *length*, *url=None*, *user=None*, *language=None*, *custom_emoji_id=None*, ***_kwargs*)
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), custom_emoji (for inline custom emoji stickers).

  New in version 13.14: added inline custom emoji

- **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.

  custom_emoji_id (str, optional): For *CUSTOM_EMOJI* only, unique identifier of the custom emoji. Use *telegram.Bot.get_custom_emoji_stickers()* to get full information about the sticker.

  New in version 13.14.

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.

Type str

custom_emoji_id
Optional. Unique identifier of the custom emoji.

New in version 13.14.

Type str

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

CUSTOM_EMOJI: ClassVar[str] = 'custom_emoji'
telegram.constants.MESSAGEENTITY_CUSTOM_EMOJI

New in version 13.14.

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

class telegram.**PhotoSize**(*file_id*, *file_unique_id*, *width*, *height*, *file_size=None*, *bot=None*, ***_kwargs*)
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 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*, *allows_multiple_answers*, *correct_option_id=None*, *explanation=None*, *explanation_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*.
- **allows_multiple_answers** (`bool`) – `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 *explanation_entities* attribute, since it calculates the correct substring from the message text based on UTF-16 codepoints. See *parse_explanation_entity* 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: 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: 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

class telegram.**ReplyKeyboardMarkup**(*keyboard*, *resize_keyboard=False*, *one_time_keyboard=False*, *selective=False*, *input_field_placeholder=None*, ***_kwargs*)

Bases: telegram.replymarkup.ReplyMarkup

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*, *input_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.InlineKeyboardMarkup*, *telegram.ReplyKeyboardMarkup*, *telegram.ReplyKeyboardRemove* and *telegram.ForceReply* 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 *inline_message_id* 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.

classmethod **`de_list`**(*data*, *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

class telegram.**Update**(*update_id*, *message=None*, *edited_message=None*, *channel_post=None*, *edited_channel_post=None*, *inline_query=None*, *chosen_inline_result=None*, *callback_query=None*, *shipping_query=None*, *pre_checkout_query=None*, *poll=None*, *poll_answer=None*, *my_chat_member=None*, *chat_member=None*, *chat_join_request=None*, ***_kwargs*)
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.ShippingQuery*

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*

ALL_TYPES = ['message', 'edited_message', 'channel_post', 'edited_channel_post', 'in
telegram.constants.UPDATE_ALL_TYPES

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

class telegram.**User**(*id*, *first_name*, *is_bot*, *last_name=None*, *username=None*, *language_code=None*, *can_join_groups=None*, *can_read_all_group_messages=None*, *supports_inline_queries=None*, *bot=None*, *is_premium=None*, *added_to_attachment_menu=None*, ***_kwargs*)
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 *id* 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.
- **is_premium** (`bool`, optional) – `True`, if this user is a Telegram Premium user.

  New in version 13.13.
- **added_to_attachment_menu** (`bool`, optional) – `True`, if this user added the bot to the attachment menu.

  New in version 13.13.

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*

is_premium
Optional. `True`, if this user is a Telegram Premium user.

New in version 13.13.

Type `bool`

added_to_attachment_menu
Optional. `True`, if this user added the bot to the attachment menu.

New in version 13.13.

Type `bool`

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.
↪id}")
```

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:

```
bot.pin_chat_message(chat_id=update.effective_user.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

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_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*

send_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*, *protect_content=None*)

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*

send_game(*game_short_name*, *disable_notification=None*, *reply_to_message_id=None*, *reply_markup=None*, *timeout=None*, *api_kwargs=None*, *allow_sending_without_reply=None*, *protect_content=None*)

Shortcut for:

```
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*

send_invoice(*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*)

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*

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_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*

send_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*, *protect_content=None*)

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_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_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*

send_sticker(*sticker*, *disable_notification=None*, *reply_to_message_id=None*, *reply_markup=None*, *timeout=20*, *api_kwargs=None*, *allow_sending_without_reply=None*, *protect_content=None*)

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*

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_user.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*

send_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*, *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*

send_voice(*voice*, *duration=None*, *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*)

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,
                            **kwargs)
```

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:

```
bot.unpin_chat_message(chat_id=update.effective_user.id,
                       *args,
                       **kwargs)
```

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.UserProfilePhotos

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

class telegram.**Venue**(*location*, *title*, *address*, *foursquare_id=None*, *foursquare_type=None*, *google_place_id=None*, *google_place_type=None*, ***_kwargs*)
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

class telegram.**Video**(*file_id*, *file_unique_id*, *width*, *height*, *duration*, *thumb=None*, *mime_type=None*, *file_size=None*, *bot=None*, *file_name=None*, ***_kwargs*)
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.VideoChatParticipantsInvited

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.VideoNote

class telegram.**VideoNote**(*file_id*, *file_unique_id*, *length*, *duration*, *thumb=None*, *file_size=None*, *bot=None*, ***_kwargs*)
Bases: telegram.base.TelegramObject

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

class telegram.**Voice**(*file_id*, *file_unique_id*, *duration*, *mime_type=None*, *file_size=None*, *bot=None*, ***_kwargs*)
Bases: telegram.base.TelegramObject

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 *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.VoiceChatParticipantsInvited

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

class telegram.**WebhookInfo**(*url*, *has_custom_certificate*, *pending_update_count*, *last_error_date=None*, *last_error_message=None*, *max_connections=None*, *allowed_updates=None*, *ip_address=None*, *last_synchronization_error_date=None*, ***_kwargs*)

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 webhook 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

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

3.2.87 Stickers

telegram.Sticker

class telegram.**Sticker**(*file_id*, *file_unique_id*, *width*, *height*, *is_animated*, *is_video*, *type*, *thumb=None*, *emoji=None*, *file_size=None*, *set_name=None*, *mask_position=None*, *bot=None*, *premium_animation=None*, *custom_emoji_id=None*, ***_kwargs*)
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.

- **type** (str) – Type of the sticker. Currently one of *REGULAR*, *MASK*, *CUSTOM_EMOJI*. The type of the sticker is independent from its format, which is determined by the fields *is_animated* and *is_video*.

  New in version 13.14.

- **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.
- **premium_animation** (*telegram.File*, optional) – For premium regular stickers, premium animation for the sticker.

  New in version 13.13.

- **custom_emoji** (str, optional) – For custom emoji stickers, unique identifier of the custom emoji.

  New in version 13.14.

- **(obj** (***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
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

type
Type of the sticker. Currently one of *REGULAR*, *MASK*, *CUSTOM_EMOJI*. The type of the sticker is independent from its format, which is determined by the fields *is_animated* and *is_video*.

New in version 13.14.

Type str

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

premium_animation
Optional. For premium regular stickers, premium animation for the sticker.

New in version 13.13.

Type *telegram.File*

custom_emoji
Optional. For custom emoji stickers, unique identifier of the custom emoji.

New in version 13.14.

Type str

bot
Optional. The Bot to use for instance methods.

Type *telegram.Bot*

CUSTOM_EMOJI: ClassVar[str] = 'custom_emoji'
telegram.constants.STICKER_CUSTOM_EMOJI

New in version 13.14.

MASK: ClassVar[str] = 'mask'
telegram.constants.STICKER_MASK

New in version 13.14.

REGULAR: ClassVar[str] = 'regular'
telegram.constants.STICKER_REGULAR

New in version 13.14.

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

class telegram.**StickerSet**(*name*, *title*, *is_animated*, *contains_masks*, *stickers*, *is_video*, *thumb=None*, *sticker_type=None*, ***_kwargs*)

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.

Changed in version 13.14:: The parameter contains_masks has been depreciated as of Bot API 6.2. Use sticker_type instead.

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.
- **sticker_type** (str, optional) – Type of stickers in the set, currently one of *telegram.Sticker.REGULAR*, *telegram.Sticker.MASK*, *telegram.Sticker.CUSTOM_EMOJI*.

  New in version 13.14.
- **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*]

sticker_type
Optional. Type of stickers in the set.

New in version 13.14.

Type str

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

class telegram.**InlineQuery**(*id*, *from_user*, *query*, *offset*, *location=None*, *bot=None*, *chat_type=None*, ***_kwargs*)
Bases: telegram.base.TelegramObject

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 *id* 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 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.

answer(*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*, *auto_pagination=False*)
Shortcut for:

```
bot.answer_inline_query(update.inline_query.id,
                        *args,
                        current_offset=self.offset if auto_pagination else␣
↪None,
                        **kwargs)
```

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.

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

telegram.InlineQueryResult

class telegram.**InlineQueryResult**(*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 *id* 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

hide_url
Optional. Pass True, if you don't want the URL to be shown in the message.

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

class telegram.**InlineQueryResultAudio**(*id*, *audio_url*, *title*, *performer=None*, *audio_duration=None*, *caption=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 mp3 audio file. By default, this audio file will be sent by the user. Alternatively, you can use *input_message_content* 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

class telegram.**InlineQueryResultCachedAudio**(*id*, *audio_file_id*, *caption=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 mp3 audio file stored on the Telegram servers. By default, this audio file will be sent by the user. Alternatively, you can use *input_message_content* 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 *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.InlineQueryResultCachedDocument

class telegram.**InlineQueryResultCachedDocument**(*id*, *title*, *document_file_id*, *description=None*, *caption=None*, *reply_markup=None*, *input_message_content=None*, *parse_mode=None*, *caption_entities=None*, ***_kwargs*)

Bases: telegram.inline.inlinequeryresult.InlineQueryResult

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 *input_message_content* 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.InlineKeyboardMarkup*

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*, *caption=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 *input_message_content* 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'.

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

class telegram.**InlineQueryResultCachedMpeg4Gif**(*id*, *mpeg4_file_id*, *title=None*, *caption=None*, *reply_markup=None*, *input_message_content=None*, *parse_mode=None*, *caption_entities=None*, ***_kwargs*)
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 *input_message_content* 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

mpeg4_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 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 MPEG-4 file.

Type *telegram.InputMessageContent*

telegram.InlineQueryResultCachedPhoto

class telegram.**InlineQueryResultCachedPhoto**(*id*, *photo_file_id*, *title=None*, *description=None*, *caption=None*, *reply_markup=None*, *input_message_content=None*, *parse_mode=None*, *caption_entities=None*, ***_kwargs*)

Bases: telegram.inline.inlinequeryresult.InlineQueryResult

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 *input_message_content* to send a message with the specified content instead of the photo.

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.InlineKeyboardMarkup*

input_message_content
Optional. Content of the message to be sent instead of the photo.

Type *telegram.InputMessageContent*

telegram.InlineQueryResultCachedSticker

class telegram.**InlineQueryResultCachedSticker**(*id*, *sticker_file_id*, *reply_markup=None*, *input_message_content=None*, ***_kwargs*)

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 *input_message_content* 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.InlineKeyboardMarkup*

input_message_content
Optional. Content of the message to be sent instead of the sticker.

Type *telegram.InputMessageContent*

telegram.InlineQueryResultCachedVideo

class telegram.**InlineQueryResultCachedVideo**(*id*, *video_file_id*, *title*, *description=None*, *caption=None*, *reply_markup=None*, *input_message_content=None*, *parse_mode=None*, *caption_entities=None*, ***_kwargs*)

Bases: telegram.inline.inlinequeryresult.InlineQueryResult

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 *input_message_content* 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.InlineKeyboardMarkup*

input_message_content
Optional. Content of the message to be sent instead of the video.

Type *telegram.InputMessageContent*

telegram.InlineQueryResultCachedVoice

class telegram.**InlineQueryResultCachedVoice**(*id*, *voice_file_id*, *title*, *caption=None*, *reply_markup=None*, *input_message_content=None*, *parse_mode=None*, *caption_entities=None*, ***_kwargs*)

Bases: telegram.inline.inlinequeryresult.InlineQueryResult

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 *input_message_content* 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

class telegram.**InlineQueryResultContact**(*id*, *phone_number*, *first_name*, *last_name=None*, *reply_markup=None*, *input_message_content=None*, *thumb_url=None*, *thumb_width=None*, *thumb_height=None*, *vcard=None*, ***_kwargs*)

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 *input_message_content* 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.

Type *telegram.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

class telegram.**InlineQueryResultDocument**(*id*, *document_url*, *title*, *mime_type*, *caption=None*, *description=None*, *reply_markup=None*, *input_message_content=None*, *thumb_url=None*, *thumb_width=None*, *thumb_height=None*, *parse_mode=None*, *caption_entities=None*, ***_kwargs*)

Bases: telegram.inline.inlinequeryresult.InlineQueryResult

Represents a link to a file. By default, this file will be sent by the user with an optional caption. Alternatively, you can use *input_message_content* 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 *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*]

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.InlineKeyboardMarkup*

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 keyboard 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.

Type *telegram.InlineKeyboardMarkup*

telegram.InlineQueryResultGif

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

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 *input_message_content* 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.InlineKeyboardMarkup*

input_message_content
Optional. Content of the message to be sent instead of the GIF animation.

Type *telegram.InputMessageContent*

telegram.InlineQueryResultLocation

class telegram.**InlineQueryResultLocation**(*id*, *latitude*, *longitude*, *title*, *live_period=None*, *reply_markup=None*, *input_message_content=None*, *thumb_url=None*, *thumb_width=None*, *thumb_height=None*, *horizontal_accuracy=None*, *heading=None*, *proximity_alert_radius=None*, ***_kwargs*)

Bases: telegram.inline.inlinequeryresult.InlineQueryResult

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.

Type *telegram.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

class telegram.**InlineQueryResultMpeg4Gif**(*id*, *mpeg4_url*, *thumb_url*, *mpeg4_width=None*, *mpeg4_height=None*, *title=None*, *caption=None*, *reply_markup=None*, *input_message_content=None*, *mpeg4_duration=None*, *parse_mode=None*, *thumb_mime_type=None*, *caption_entities=None*, ***_kwargs*)

Bases: telegram.inline.inlinequeryresult.InlineQueryResult

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 *input_message_content* to send a message with the specified content instead of the animation.

Parameters

- **id** (str) – Unique identifier for this result, 1-64 bytes.
- **mpeg4_url** (str) – A valid URL for the MP4 file. File size must not exceed 1MB.
- **mpeg4_width** (int, optional) – Video width.
- **mpeg4_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 *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 video animation.

Type *telegram.InputMessageContent*

telegram.InlineQueryResultPhoto

class telegram.**InlineQueryResultPhoto**(*id*, *photo_url*, *thumb_url*, *photo_width=None*, *photo_height=None*, *title=None*, *description=None*, *caption=None*, *reply_markup=None*, *input_message_content=None*, *parse_mode=None*, *caption_entities=None*, ***_kwargs*)

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 *input_message_content* 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.InlineKeyboardMarkup*

input_message_content
Optional. Content of the message to be sent instead of the photo.

Type *telegram.InputMessageContent*

telegram.InlineQueryResultVenue

class telegram.**InlineQueryResultVenue**(*id*, *latitude*, *longitude*, *title*, *address*, *foursquare_id=None*, *foursquare_type=None*, *reply_markup=None*, *input_message_content=None*, *thumb_url=None*, *thumb_width=None*, *thumb_height=None*, *google_place_id=None*, *google_place_type=None*, ***_kwargs*)

Bases: `telegram.inline.inlinequeryresult.InlineQueryResult`

Represents a venue. By default, the venue will be sent by the user. Alternatively, you can use *input_message_content* 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.InlineKeyboardMarkup*

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

class telegram.**InlineQueryResultVideo**(*id*, *video_url*, *mime_type*, *thumb_url*, *title*, *caption=None*, *video_width=None*, *video_height=None*, *video_duration=None*, *description=None*, *reply_markup=None*, *input_message_content=None*, *parse_mode=None*, *caption_entities=None*, ***_kwargs*)

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 *input_message_content* 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 *input_message_content*.

Parameters

- **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 InlineQueryResultVideo 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 *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*]

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.InlineKeyboardMarkup*

input_message_content
Optional. Content of the message to be sent instead of the video. This field is required if InlineQueryResultVideo is used to send an HTML-page as a result (e.g., a YouTube video).

Type *telegram.InputMessageContent*

telegram.InlineQueryResultVoice

class telegram.**InlineQueryResultVoice**(*id*, *voice_url*, *title*, *voice_duration=None*, *caption=None*, *reply_markup=None*, *input_message_content=None*, *parse_mode=None*, *caption_entities=None*, ***_kwargs*)
Bases: telegram.inline.inlinequeryresult.InlineQueryResult

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 *input_message_content* to send a message with the specified content instead of the the voice message.

Parameters

- **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.

See: *telegram.InputContactMessageContent*, *telegram.InputInvoiceMessageContent*, *telegram.InputLocationMessageContent*, *telegram.InputTextMessageContent* and *telegram.InputVenueMessageContent* for more details.

telegram.InputTextMessageContent

class telegram.**InputTextMessageContent**(*message_text*, *parse_mode=None*, *disable_web_page_preview=None*, *entities=None*, ***_kwargs*)
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

class telegram.**InputLocationMessageContent**(*latitude*, *longitude*, *live_period=None*, *horizontal_accuracy=None*, *heading=None*, *proximity_alert_radius=None*, ***_kwargs*)
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

class telegram.**InputVenueMessageContent**(*latitude*, *longitude*, *title*, *address*, *foursquare_id=None*, *foursquare_type=None*, *google_place_id=None*, *google_place_type=None*, ***_kwargs*)

Bases: telegram.inline.inputmessagecontent.InputMessageContent

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

class telegram.**InputContactMessageContent**(*phone_number*, *first_name*, *last_name=None*, *vcard=None*, ***_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

class telegram.**InputInvoiceMessageContent**(*title*, *description*, *payload*, *provider_token*, *currency*, *prices*, *max_tip_amount=None*, *suggested_tip_amounts=None*, *provider_data=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*, *send_phone_number_to_provider=None*, *send_email_to_provider=None*, *is_flexible=None*, ***_kwargs*)

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.

Parameters

- **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 *max_tip_amount*.

- **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

class telegram.**ChosenInlineResult**(*result_id*, *from_user*, *query*, *location=None*, *inline_message_id=None*, ***_kwargs*)
Bases: telegram.base.TelegramObject

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

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

class telegram.**ShippingAddress**(*country_code*, *state*, *city*, *street_line1*, *street_line2*, *post_code*, ***_kwargs*)
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 str

street_line2
Second line for the address.

Type str

post_code
Address post code.

Type str

telegram.OrderInfo

class telegram.**OrderInfo**(*name=None*, *phone_number=None*, *email=None*, *shipping_address=None*, ***_kwargs*)

Bases: telegram.base.TelegramObject

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.ShippingAddress*

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 *id* is equal.

Parameters

- **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*]

to_dict()
See *telegram.TelegramObject.to_dict()*.

telegram.SuccessfulPayment

class telegram.**SuccessfulPayment**(*currency*, *total_amount*, *invoice_payload*, *telegram_payment_charge_id*, *provider_payment_charge_id*, *shipping_option_id=None*, *order_info=None*, ***_kwargs*)

Bases: telegram.base.TelegramObject

This object contains basic information about a successful payment.

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.ShippingAddress*

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

class telegram.**PreCheckoutQuery**(*id*, *from_user*, *currency*, *total_amount*, *invoice_payload*, *shipping_option_id=None*, *order_info=None*, *bot=None*, ***_kwargs*)
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 *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.
- **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:

```
bot.answer_pre_checkout_query(update.pre_checkout_query.id, *args,␣
↪**kwargs)
```

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

class telegram.**Game**(*title*, *description*, *photo*, *text=None*, *text_entities=None*, *animation=None*, ***_kwargs*)
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.

Parameters

- **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 *text_entities* attribute, since it calculates the correct substring from the message text based on UTF-16 codepoints. See *parse_text_entity* 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 code-point 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.**CallbackGame**
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`

classmethod de_json(*data*, *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

class telegram.**PassportElementErrorFiles**(*type*, *file_hashes*, *message*, ***_kwargs*)
Bases: telegram.passport.passportelementerrors.PassportElementError

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

class telegram.**PassportElementErrorReverseSide**(*type*, *file_hash*, *message*, ***_kwargs*)
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

class telegram.**PassportElementErrorDataField**(*type*, *field_name*, *data_hash*, *message*, ***_kwargs*)

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

class telegram.**PassportElementErrorSelfie**(*type*, *file_hash*, *message*, ***_kwargs*)

Bases: telegram.passport.passportelementerrors.PassportElementError

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.

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 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

class telegram.**PassportElementErrorTranslationFile**(*type*, *file_hash*, *message*, ***_kwargs*)
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

class telegram.**PassportElementErrorTranslationFiles**(*type*, *file_hashes*, *message*, ***_kwargs*)

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

class telegram.**PassportElementErrorUnspecified**(*type*, *element_hash*, *message*, ***_kwargs*)

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: 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
Secret of encrypted data

Type str

to_dict()
See *telegram.TelegramObject.to_dict()*.

telegram.SecureData

class telegram.**SecureData**(*personal_details=None*, *passport=None*, *internal_passport=None*, *driver_license=None*, *identity_card=None*, *address=None*, *utility_bill=None*, *bank_statement=None*, *rental_agreement=None*, *passport_registration=None*, *temporary_registration=None*, *bot=None*, ***_kwargs*)

Bases: 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.SecureValue*, optional

passport
Credentials for encrypted passport.

Type *telegram.SecureValue*, optional

internal_passport
Credentials for encrypted internal passport.

Type *telegram.SecureValue*, optional

driver_license
Credentials for encrypted driver license.

Type *telegram.SecureValue*, optional

identity_card
Credentials for encrypted ID card

Type *telegram.SecureValue*, optional

address
Credentials for encrypted residential address.

Type *telegram.SecureValue*, optional

utility_bill
Credentials for encrypted utility bill.

Type *telegram.SecureValue*, optional

bank_statement
Credentials for encrypted bank statement.

Type *telegram.SecureValue*, optional

rental_agreement
Credentials for encrypted rental agreement.

Type *telegram.SecureValue*, optional

passport_registration
Credentials for encrypted registration from internal passport.

Type *telegram.SecureValue*, optional

temporary_registration
Credentials for encrypted temporary registration.

Type *telegram.SecureValue*, optional

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

telegram.SecureValue

class telegram.**SecureValue**(*data=None*, *front_side=None*, *reverse_side=None*, *selfie=None*, *files=None*, *translation=None*, *bot=None*, ***_kwargs*)

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.

Type *telegram.DataCredentials*, 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

classmethod de_json(*data*, *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.IdDocumentData

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*, *middle_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

class telegram.**PassportFile**(*file_id*, *file_unique_id*, *file_date*, *file_size=None*, *bot=None*, *credentials=None*, ***_kwargs*)

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, ...]) – 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

class telegram.**EncryptedPassportElement**(*type*, *data=None*, *phone_number=None*, *email=None*, *files=None*, *front_side=None*, *reverse_side=None*, *selfie=None*, *translation=None*, *hash=None*, *bot=None*, *credentials=None*, ***_kwargs*)

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*.

Parameters

- **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.
- **credentials** (*telegram.FileCredentials*) – 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.**DEFAULT_NONE: *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:
    ...
```

`repr(DefaultValue(value))` returns `repr(value)` and `str(DefaultValue(value))` returns `f'DefaultValue({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

telegram.utils.helpers.**create_deep_linked_url**(*bot_username*, *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 *encode_conversations_to_json()*.

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*, *filename=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 str | *telegram.InputFile* | object

telegram.utils.helpers.**to_float_timestamp**(*time_object*, *reference_timestamp=None*, *tzinfo=None*)

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

class `telegram.utils.request.`**Request**(*con_pool_size=1*, *proxy_url=None*, *urllib3_proxy_kwargs=None*, *connect_timeout=5.0*, *read_timeout=5.0*)

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 13.14

Released 2022-09-04

This is the technical changelog for version 13.14. More elaborate release notes can be found in the news channel @pythontelegrambotchannel.

Major Changes:

- Full Support for API 6.2 (#3203)

Minor Changes:

- Documentation Improvements (#3144, #3140, #3164)
- Pin *tornado* to Version 6.1 (#3145)

Version 13.13

Released 2022-06-28

This is the technical changelog for version 13.13. More elaborate release notes can be found in the news channel @pythontelegrambotchannel.

Major Changes:

- Full Support for API 6.1 (#3117)

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.

Breaking changes:

- Drop support for python 3.6

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 `ChatJoinRequest(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 assignements 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 *CallbackContext* 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`
- Fix `Message.text_html` and `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
- Bugfix for `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`
- 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

- 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

PYTHON MODULE INDEX

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