



# Python Telegram Bot Documentation

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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.



## **EXAMPLES**

A great way to learn is by looking at examples. Ours can be found at our [github in the examples folder](#).





## 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.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, per-
                             sistence=None, defaults=None, use_context=True, dis-
                             patcher=None, base_file_url=None)
```

Bases: object

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 *defaults* to *both* the bot and the *telegram.ext.Updater*.
- 

#### 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.

**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=False, drop\_pending\_updates=None, ip\_address=None*)

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:** Due to an incompatibility of the Tornado library PTB uses for the webhook with Python 3.8+ on Windows machines, PTB will attempt to set the event loop to `asyncio.SelectorEventLoop` and raise an exception, if an incompatible event loop has already been specified. See this [thread](#) for more details. To suppress the exception, set `force_event_loop` to `True`.

---

#### 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) – Force using the current event loop. See above note for details. Defaults to `False`

**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.

### 3.1.2 telegram.ext.Dispatcher

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

Bases: `object`

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`.

**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`

**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://git.io/fxJuV> 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**: Dict[Callable, Union[bool, `telegram.utils.helpers.DefaultValue`]]

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**: List[int]

A list with all groups.

**Type** List[int]

**handlers**: Dict[int, List[`telegram.ext.handler.Handler`]]

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/kwags) 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
- **user\_data** and **chat\_data** will be updated. (*corresponding*) –

### 3.1.3 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.

### 3.1.4 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.Dispatcher.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.

**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

**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

**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

**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 dispatcher**

The dispatcher associated with this context.

**Type** `telegram.ext.Dispatcher`

**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*

**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`

### 3.1.5 telegram.ext.Defaults

```
class telegram.ext.Defaults (parse_mode=None,      disable_notification=None,      dis-
                             able_web_page_preview=None,      timeout=None,
                             quote=None,      tzinfo=<UTC>,      run_async=False,      al-
                             low_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).
- **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`.

---

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

---

- **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`.

**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`

**explanation\_parse\_mode**

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

**Type** `str`

**disable\_notification**

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

**Type** `bool`

**disable\_web\_page\_preview**

Optional. Disables link previews for links in this message.

Type `bool`

**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`

**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`

**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`

**tzinfo**

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

Type `tzinfo`

**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`

### 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.

---

**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 *pending/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.

#### 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`

---

**Note:** For a note about DST, please see the documentation of [APScheduler](#).

---

**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.

#### 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`

---

**Note:** *interval* is always respected “as-is”. That means that if DST changes during that interval, the job might not run at the time one would expect. It is always recommended to pin servers to UTC time, then time related behaviour can always be expected.

---

**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 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]`, `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://git.io/fxJuV> 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://git.io/fxJuV> 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]`

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://git.io/fxJuV> 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.
- **pattern** (str | *Pattern*, optional) – Regex pattern. If not None, `re.match` is used on `telegram.CallbackQuery.data` to determine if an update should be handled by this handler.
- **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.CallbackQuery.data` against.

Type str | *Pattern*

**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*)

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://git.io/fxJuV> 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*

**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)
```

Bases: `telegram.ext.handler.Handler[telegram.update.Update]`

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://git.io/fxJuV> 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.ChatMemberHandler

```
class telegram.ext.ChatMemberHandler(callback,  
                                     1,  
                                     chat_member_types=-  
                                     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]

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://git.io/fxJuV> 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.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]

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:** `telegram.ext.CommandHandler` does *not* handle (edited) channel posts.

---



---

**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://git.io/fxJuV> 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*)

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://git.io/fxJuV> 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*

## 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]`

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`.

- **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`** –

#### **entry\_points**

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

**Type** `List[telegram.ext.Handler]`

#### **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]]`

#### **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]`

#### **allow\_reentry**

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

**Type** `bool`

#### **per\_chat**

If the conversationkey should contain the Chat's ID.

**Type** `bool`

#### **per\_user**

If the conversationkey should contain the User's ID.

**Type** `bool`

#### **per\_message**

If the conversationkey should contain the Message's ID.

**Type** `bool`

#### **conversation\_timeout**

Optional. When this handler is inactive more than this timeout (in seconds), it will be automatically ended. If this value is 0 (default), there will be no timeout. When it's triggered, 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`.

**Type** float | datetime.timedelta

**name**

Optional. The name for this conversationhandler. Required for persistence

**Type** str

**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

**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]

**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

**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

**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.



## 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)
```

Bases: telegram.ext.handler.Handler[telegram.update.Update]

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://git.io/fxJuV> 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.
- **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.
- **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*

**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*)

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://git.io/fxJuV> 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`

### 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]`

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://git.io/fxJuV> 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*)

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*.

**telegram.ext.filters Module**

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

**class** telegram.ext.filters.**BaseFilter**

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`.

**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** (`entity_type`)

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(pattern)`

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(chat_id=None, username=None, allow_empty=False)`

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 with value 6, use `MessageHandler(Filters.dice(6), callback_method)`. To allow only dice with value 5 or 6, use `MessageHandler(Filters.dice([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** (*entity\_type*)

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.

**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.

---

**invoice = Filters.invoice**

Messages that contain *telegram.Invoice*.

**class language** (*lang*)

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*.

**private = Filters.private**

Messages sent in a private chat.

---

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

---

**class regex** (*pattern*)

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` (`chat_id=None`, `username=None`, `allow_empty=False`)

Bases: `telegram.ext.filters.Filters._ChatUserBaseFilter`

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

### Examples

- To filter for messages forwarded to a discussion group from 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 forwarded to a discussion group from *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).

**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 completely 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\_started**

Messages that contain `telegram.Message.voice_chat_started`.

New in version 13.4.

### **voice\_chat\_ended**

Messages that contain `telegram.Message.voice_chat_ended`.

New in version 13.4.

### **voice\_chat\_participants\_invited**

Messages that contain `telegram.Message.voice_chat_participants_invited`.

New in version 13.4.

### **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** (*user\_id=None, username=None, allow\_empty=False*)

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 completely replace the current set of allowed users.

### Parameters

- **user\_id** (`telegram.utils.types.SLT[int]`, optional) – Which user ID(s) to allow through.
- **username** (`telegram.utils.types.SLT[str]`, optional) – Which username(s) to allow through. Leading '@' s in usernames will be discarded.
- **allow\_empty** (`bool`, optional) – Whether updates should be processed, if no user is specified in `user_ids` and `usernames`. Defaults to `False`

**Raises** `RuntimeError` – If `user_id` and `username` are both present.

### `user_ids`

Which user ID(s) to allow through.

**Type** `set(int)`, optional

### `usernames`

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

**Type** `set(str)`, optional

### `allow_empty`

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

**Type** `bool`, optional

### `add_user_ids (user_id)`

Add one or more users to the allowed user ids.

**Parameters** **user\_id** (`telegram.utils.types.SLT[int]`, optional) – Which user ID(s) to allow through.

### `add_usernames (username)`

Add one or more users to the allowed usernames.

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

### `get_chat_or_user (message)`

### `remove_user_ids (user_id)`

Remove one or more users from allowed user ids.

**Parameters** **user\_id** (`telegram.utils.types.SLT[int]`, optional) – Which user ID(s) to disallow through.

### `remove_usernames (username)`

Remove one or more users from allowed usernames.

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

### `property user_ids`

**venue = Filters.venue**

Messages that contain `telegram.Venue`.

**class via\_bot (bot\_id=None, username=None, allow\_empty=False)**

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 completely 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** (*f*)  
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** (*base\_filter*, *and\_filter=None*, *or\_filter=None*)  
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**  
Bases: *telegram.ext.filters.BaseFilter*, *abc.ABC*  
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

Bases: *telegram.ext.filters.BaseFilter*, abc.ABC

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(*base\_filter*, *xor\_filter*)

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*]

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://git.io/fxJuV> 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]

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://git.io/fxJuV> 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]`

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://git.io/fxJuV> 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]

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``.

**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`

---

**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://git.io/fxJuV> 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`.

**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*)

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*.

**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]

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*)

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://git.io/fxJuV> 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`

## 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]`

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://git.io/fxJuV> 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]

Handler class to handle string commands. Commands are string updates that start with /.

---

**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*)

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://git.io/fxJuV> 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*

## 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]

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*)

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://git.io/fxJuV> 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*

**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]`

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`

### 3.1.11 Persistence

#### telegram.ext.BasePersistence

**class** telegram.ext.**BasePersistence** (\*args, \*\*kwargs)

Bases: 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()`
- `get_chat_data()`
- `update_chat_data()`
- `get_user_data()`
- `update_user_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()` and `update_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\_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

**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 dict.

**Returns** The restored bot data.

**Return type** dict

**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 (dict).

**Returns** The restored chat data.

**Return type** defaultdict

**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 (dict).

**Returns** The restored user data.

**Return type** defaultdict

**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 `__slot__` attribute, excluding objects that can't be copied with *copy.copy*.

**Parameters** *obj* (object) – The object

**Returns** Copy of the object with Bot instances inserted.

**Return type** obj

**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 `__slot__` attribute, excluding objects that can't be copied with *copy.copy*.

**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** (*dict*) – The *telegram.ext.dispatcher.bot\_data*.

**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** (*dict*) – The *telegram.ext.dispatcher.chat\_data* [*chat\_id*].

**abstract update\_conversation** (*name, key, new\_state*)

Will be called when a *telegram.ext.ConversationHandler.update\_state* is called. 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** (*dict*) – The *telegram.ext.dispatcher.user\_data* [*user\_id*].

## telegram.ext.PicklePersistence

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

Bases: *telegram.ext.basepersistence.BasePersistence*

Using python's builtin pickle for making you 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 *user\_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 .
- **single\_file** (bool, optional) – When False will store 3 separate files of *filename\_user\_data*, *filename\_chat\_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.

**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 user\_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

**single\_file**

Optional. When False will store 3 separate files of *filename\_user\_data*, *filename\_chat\_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

**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 dict.

**Returns** The restored bot data.

**Return type** dict

**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

**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

**update\_bot\_data** (*data*)

Will update the bot\_data and depending on *on\_flush* save the pickle file.

**Parameters** **data** (dict) – The telegram.ext.dispatcher.bot\_data.

**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** (dict) – 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** (dict) – The telegram.ext.dispatcher.user\_data [user\_id].

## telegram.ext.DictPersistence

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

Bases: telegram.ext.basepersistence.BasePersistence

Using python's dicts 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 user\_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`.
- **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 `""`.
- **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`

**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 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\_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

**update\_bot\_data** (*data*)

Will update the bot\_data (if changed).

**Parameters** *data* (dict) – The `telegram.ext.dispatcher.bot_data`.

**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

### 3.1.12 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

##### 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.

## 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`

**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`

**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.

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

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` or `tgs_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/animated\\_stickers#technical-requirements](https://core.telegram.org/animated_stickers#technical-requirements) for technical requirements.

Changed in version 13.2: Accept bytes as input.

- **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()*

**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 Update with the field `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 Update with a `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` –

**property bot**

User instance for the bot as returned by `get_me()`.

**Type** `telegram.User`

**property can\_join\_groups**

Bot’s `can_join_groups` attribute.

**Type** `bool`

**property can\_read\_all\_group\_messages**

Bot’s `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`.

**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`)

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*)

Use this method to copy messages of any kind. The method is analogous to the method `forwardMessages`, but the copied message doesn't have a link to the original message. Returns the `MessageId` of the sent message on success.

#### 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.
- **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*)

Alias for `create_chat_invite_link`

**createNewStickerSet** (*user\_id, name, title, emojis, png\_sticker=None, contains\_masks=None, mask\_position=None, timeout=20, tgs\_sticker=None, api\_kwargs=None*)

Alias for `create_new_sticker_set()`

**create\_chat\_invite\_link** (*chat\_id, expire\_date=None, member\_limit=None, timeout=None, api\_kwargs=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. 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.

Returns `telegram.ChatInviteLink`

Raises `telegram.error.TelegramError` –

```
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)
```

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` or `tgs_sticker`.

**Warning:** As of API 4.7 `png_sticker` is an optional argument and therefore the order of the arguments had to be changed. Use keyword arguments to make sure that the arguments are passed correctly.

---

**Note:** The `png_sticker` and `tgs_sticker` argument can be either a `file_id`, an URL or a file from disk `open(filename, 'rb')`

---

#### Parameters

- **user\_id** (`int`) – User identifier of created sticker set owner.
- **name** (`str`) – Short name of sticker set, to be used in `t.me/addstickers/` URLs (e.g., `animals`). Can contain only english letters, digits and underscores. Must begin with a letter, can't contain consecutive underscores and must end in `"_by_<bot username>"`. `<bot username>` is case insensitive. 1-64 characters.
- **title** (`str`) – Sticker set title, 1-64 characters.
- **png\_sticker** (`str` | *filelike object* | `bytes` | `pathlib.Path`, optional) – Png image with the sticker, must be up to 512 kilobytes in size, dimensions must not exceed 512px, and either width or height must be exactly 512px. Pass a `file_id` as a String to send a file that already exists on the Telegram servers, pass an HTTP URL as a String for Telegram to get a file from the Internet, or upload a new one using multipart/form-data.  
  
Changed in version 13.2: Accept `bytes` as input.
- **tgs\_sticker** (`str` | *filelike object* | `bytes` | `pathlib.Path`, optional) – TGS animation with the sticker, uploaded using multipart/form-data. See [https://core.telegram.org/animated\\_stickers#technical-requirements](https://core.telegram.org/animated_stickers#technical-requirements) for technical requirements.  
  
Changed in version 13.2: Accept `bytes` as input.

- **emojis** (*str*) – One or more emoji corresponding to the sticker.
- **contains\_masks** (*bool*, optional) – Pass *True*, if a set of mask stickers should be created.
- **mask\_position** (*telegram.MaskPosition*, optional) – Position where the mask should be placed on faces.
- **timeout** (*int* | *float*, optional) – If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- **api\_kwargs** (*dict*, optional) – Arbitrary keyword arguments to be passed to the Telegram API.

**Returns** On success, *True* is returned.

**Return type** *bool*

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

**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()*

**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 `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 `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\_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 getUpdates. Requires no parameters.

#### 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** bool On success, True is returned.

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

**editChatInviteLink** (*chat\_id, invite\_link, expire\_date=None, member\_limit=None, timeout=None, api\_kwargs=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*)

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.

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.

**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 `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*)

Alias for *forward\_message()*

**forward\_message** (*chat\_id, from\_chat\_id, message\_id, disable\_notification=None, timeout=None, api\_kwargs=None*)

Use this method to forward messages of any kind.

#### 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).
- **disable\_notification** (*bool, optional*) – Sends the message silently. Users will receive a notification with no sound.
- **message\_id** (*int*) – Message identifier in the chat specified in *from\_chat\_id*.
- **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()*

**getChatMembersCount** (*chat\_id, timeout=None, api\_kwargs=None*)

Alias for *get\_chat\_members\_count()*

**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*)

Alias for *get\_my\_commands()*

**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 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 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 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\_members\_count** (*chat\_id, timeout=None, api\_kwargs=None*)

Use this method to get the number of members in a chat.

#### 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** Number of members in the chat.

**Return type** `int`

**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 his neighbors in a game.

#### 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*)

Use this method to get the current list of the bot's commands.

**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** On success, the commands set for the bot

**Return type** List[*telegram.BotCommand*]

**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 `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`|` :obj:`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 getUpdates, will return an object with the 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*)

Use this method to kick 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.

**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** *bool* On success, *True* is returned.

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

**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 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** *bool* On success, `True` is returned.

**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 `can_pin_messages` admin right in a supergroup or `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)
```

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)
```

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, supergroups only.

New in version 13.4.

- **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*)

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*)

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*)

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*)

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*)

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*)

Alias for [`send\_game\(\)`](#)

**sendInvoice** (*chat\_id*, *title*, *description*, *payload*, *provider\_token*, *start\_parameter*, *currency*,  
*prices*, *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*)

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*)

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*)

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*)

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*)

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*)

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*)

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*)

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*)

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)
```

Alias for `send_video_note()`

```
sendVoice (chat_id, voice, duration=None, caption=None, disable_notification=None, re-
            ply_to_message_id=None, reply_markup=None, timeout=20, parse_mode=None,
            api_kwargs=None, allow_sending_without_reply=None, caption_entities=None, file-
            name=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, cap-
                 tion_entities=None, filename=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.
- **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*)

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 `sendVoice` 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.
- **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*)

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.
- **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*)

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.
- **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`)

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.
- **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*)

Use this method to send a game.

#### Parameters

- **chat\_id** (*int | str*) – Unique identifier for the target chat or username of the target channel (in the format `@channelusername`).
- **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.
- **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`, `start_parameter`, `currency`, `prices`, `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`)

Use this method to send invoices.

#### Parameters

- **chat\_id** (`int` | `str`) – Unique identifier for the target private chat.
- **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](#).
- **start\_parameter** (`str`) – Unique deep-linking parameter that can be used to generate this invoice when used as a start parameter.
- **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.).
- **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.
- **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*)

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.
- **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*)

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.
- **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*)

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.
- **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)
```

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.
- **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*)

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, 1-255 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.
- **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)
```

Use this method to send static .WEBP or animated .TGS 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.
- **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*)

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 Place 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.
- **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*)

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.
- **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)
```

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.
- **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`)

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.
- **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()`



**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*)

Alias for `set_my_commands()`

**setPassportDataErrors** (*user\_id*, *errors*, *timeout=None*, *api\_kwargs=None*)

Alias for `set_passport_data_errors()`

**setStickerPositionInSet** (*sticker*, *position*, *timeout=None*, *api\_kwargs=None*)

Alias for `set_sticker_position_in_set()`

**setStickerSetThumb** (*name*, *user\_id*, *thumb=None*, *timeout=None*, *api\_kwargs=None*)

Alias for `set_sticker_set_thumb()`

**setWebhook** (*url=None*, *certificate=None*, *timeout=None*, *max\_connections=40*,  
*allowed\_updates=None*, *api\_kwargs=None*, *ip\_address=None*,  
*drop\_pending\_updates=None*)

Alias for `set_webhook()`

**set\_chat\_administrator\_custom\_title** (*chat\_id*, *user\_id*, *custom\_title*, *timeout=None*,  
*api\_kwargs=None*)

Use this method to set a custom title for administrators promoted by the bot in a supergroup. The bot 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*) – 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\_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 `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*)

Use this method to change the list of the bot's 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.

**Returns** On success

**Return type** `True`

**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.

---

**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/animated\\_stickers#technical-requirements](https://core.telegram.org/animated_stickers#technical-requirements) for animated 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 thumbnail 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`)

Use this method to specify a url and receive incoming updates via an outgoing webhook. Whenever there is an update for the bot, Telegram will send an HTTPS POST request to the specified url, containing a JSON-serialized Update. In case of an unsuccessful request, Telegram will give up after a reasonable amount of attempts.

If you'd like to make sure that the Webhook request comes from Telegram, Telegram recommends using a secret path in the URL, e.g. <https://www.example.com/<token>>. Since nobody else knows your bot's token, you can be pretty sure it's us.

---

**Note:** The certificate argument should be a file from disk `open(filename, 'rb')`.

---

### Parameters

- **url** (`str`) – HTTPS url to send updates to. Use an empty string to remove webhook integration.
- **certificate** (`filelike`) – Upload your public key certificate so that the root certificate in use can be checked. See our self-signed guide for details. (<https://goo.gl/rw7w6Y>)
- **ip\_address** (`str`, optional) – The fixed IP address which will be used to send webhook requests instead of the IP address resolved through DNS.
- **max\_connections** (`int`, optional) – Maximum allowed number of simultaneous HTTPS connections to the webhook for update delivery, 1-100. Defaults to 40. Use lower values to limit the load on your bot's server, and higher values to increase your bot's throughput.
- **allowed\_updates** (`List[str]`, optional) – A JSON-serialized list the types of updates you want your bot to receive. For example, specify `["message", "edited_channel_post", "callback_query"]` to only receive updates of these types. See [telegram.Update](#) for a complete list of available update types. Specify an empty list to receive all updates except [telegram.Update.chat\\_member](#) (default). If not specified, the previous setting will be used. Please note that this parameter doesn't affect updates created before the call to the `set_webhook`, so unwanted updates may be received for a short period of time.
- **drop\_pending\_updates** (`bool`, optional) – Pass `True` to drop all pending updates.
- **timeout** (`int | float`, optional) – If this value is specified, use it as the read timeout from the server (instead of the one specified during creation of the connection pool).
- **api\_kwargs** (`dict`, optional) – Arbitrary keyword arguments to be passed to the Telegram API.

---

### Note:

1. You will not be able to receive updates using `get_updates` for as 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 `supports_inline_queries` attribute.

**Type** `bool`

**unbanChatMember** (*chat\_id, user\_id, timeout=None, api\_kwargs=None, only\_if\_banned=None*)

Alias for `unban_chat_member()`

**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 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** `bool` On success, `True` is returned.

**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 `can_pin_messages` admin right in a supergroup or `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 `can_pin_messages` admin right in a supergroup or `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, 3-256 characters.

**command**

Text of the command.

**Type** `str`

**description**

Description of the command.

**Type** `str`

### 3.2.5 telegram.CallbackQuery

```
class telegram.CallbackQuery(id, from_user, chat_instance, message=None, data=None, in-  
                             line_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).
- 

#### 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`

**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`)

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.Bot.copy_message()`.

**Returns** On success, returns the MessageId of the sent message.

**Return type** `telegram.MessageId`

**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.Bot.delete_message()`.

**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()`.

**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()`.

**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()`.

**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()`.

**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, re-  
ply\_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()`.

**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()`.

**Returns** List[`telegram.GameHighScore`]

**pin\_message** (*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

**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()`.

**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()`.

**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:

```
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

### 3.2.6 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,
                    **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()`.
- **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.

- **bot** (`telegram.Bot`, optional) – The Bot to use for instance methods.
- **sticker\_set\_name** (str, optional) – For supergroups, name of group sticker set. Returned only in `telegram.Bot.get_chat()`.
- **can\_set\_sticker\_set** (bool, optional) – True, if the bot can change group the sticker set. Returned only in `telegram.Bot.get_chat()`.
- **linked\_chat\_id** (int, optional) – Unique identifier for the linked chat, i.e. the discussion group identifier for a channel and vice versa; for supergroups and channel chats. Returned only in `telegram.Bot.get_chat()`.
- **location** (`telegram.ChatLocation`, optional) – For supergroups, the location to which the supergroup is connected. Returned only in `telegram.Bot.get_chat()`.
- **\*\*kwargs** (dict) – Arbitrary keyword arguments.

**id**

Unique identifier for this chat.

**Type** int

**type**

Type of chat.

**Type** str

**title**

Optional. Title, for supergroups, channels and group chats.

**Type** str

**username**

Optional. Username.

**Type** str

**first\_name**

Optional. First name of the other party in a private chat.

**Type** str

**last\_name**

Optional. Last name of the other party in a private chat.

**Type** str

**photo**

Optional. Chat photo.

**Type** `telegram.ChatPhoto`

**bio**

Optional. Bio of the other party in a private chat. Returned only in `telegram.Bot.get_chat()`.

**Type** str

**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`

**sticker\_set\_name**

Optional. For supergroups, name of Group sticker set.

Type `str`

**can\_set\_sticker\_set**

Optional. True, if the bot can change group the sticker set.

Type `bool`

**linked\_chat\_id**

Optional. Unique identifier for the linked chat, i.e. the discussion group identifier for a channel and vice versa; for supergroups and channel chats. Returned only in `telegram.Bot.get_chat()`.

Type `int`

**location**

Optional. For supergroups, the location to which the supergroup is connected. Returned only in `telegram.Bot.get_chat()`.

Type `telegram.ChatLocation`

**CHANNEL:** `ClassVar[str] = 'channel'`  
`telegram.constants.CHAT_CHANNEL`

**GROUP:** `ClassVar[str] = 'group'`  
`telegram.constants.CHAT_GROUP`

**PRIVATE:** `ClassVar[str] = 'private'`  
`telegram.constants.CHAT_PRIVATE`

**SUPERGROUP:** `ClassVar[str] = 'supergroup'`  
`telegram.constants.CHAT_SUPERGROUP`

**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*)

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*)

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.

**Returns** `telegram.ChatInviteLink`

**edit\_invite\_link** (*invite\_link*, *expire\_date=None*, *member\_limit=None*, *timeout=None*, *api\_kwargs=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.

**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\_members\_count** (*timeout=None, api\_kwargs=None*)

Shortcut for:

```
bot.get_chat_members_count(update.effective_chat.id, *args, **kwargs)
```

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

**Returns** int

**kick\_member** (*user\_id, timeout=None, until\_date=None, api\_kwargs=None, revoke\_messages=None*)

Shortcut for:

```
bot.kick_chat_member(update.effective_chat.id, *args, **kwargs)
```

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

**Returns** If the action was sent successfully.

**Return type** bool

---

**Note:** This method will only work if the *All Members Are Admins* setting is off in the target group. Otherwise members may only be removed by the group's creator or by the member that added them.

---

**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** bool If the action was sent successfully.

**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)
```

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.

**Returns** If the action was sent successfully.

**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** If the action was sent successfully.

**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, cap-
                 tion_entities=None, filename=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*)

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*)

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*)

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*)

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*, *dis-*  
*able\_content\_type\_detection=None*, *allow\_sending\_without\_reply=None*,  
*caption\_entities=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*, *al-*  
*low\_sending\_without\_reply=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*, *start\_parameter*, *currency*, *prices*,  
*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*, *time-*  
*out=None*, *api\_kwargs=None*, *allow\_sending\_without\_reply=None*)

Shortcut for:

```
bot.send_invoice(update.effective_chat.id, *args, **kwargs)
```

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

**Returns** On success, instance representing the message posted.

**Return type** `telegram.Message`

**send\_location** (*latitude=None*, *longitude=None*, *disable\_notification=None*, *re-*  
*ply\_to\_message\_id=None*, *reply\_markup=None*, *timeout=None*,  
*location=None*, *live\_period=None*, *api\_kwargs=None*, *horizon-*  
*tal\_accuracy=None*, *heading=None*, *proximity\_alert\_radius=None*, *al-*  
*low\_sending\_without\_reply=None*)

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*)

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*)

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*)

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*)

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*)

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*)

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*)

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*)

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*)

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: `bool`: If the action was sent successfully.

**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** If the action was sent successfully.

**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** If the action was sent successfully.

**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`

### 3.2.7 telegram.ChatAction

**class** `telegram.ChatAction`

Bases: `object`

Helper class to provide constants for different chat actions.

**FIND\_LOCATION**: `ClassVar[str] = 'find_location'`  
`telegram.constants.CHATACTION_FIND_LOCATION`

**RECORD\_AUDIO**: `ClassVar[str] = 'record_audio'`  
`telegram.constants.CHATACTION_RECORD_AUDIO`

**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

TYPING: ClassVar[str] = 'typing'
    telegram.constants.CHATACTION_TYPING

UPLOAD_AUDIO: ClassVar[str] = 'upload_audio'
    telegram.constants.CHATACTION_UPLOAD_AUDIO

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
```

### 3.2.8 telegram.ChatInviteLink

```
class telegram.ChatInviteLink(invite_link, creator, is_primary, is_revoked, ex-
    pire_date=None, member_limit=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.

#### **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`

### 3.2.9 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`

### 3.2.10 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, \*\*kwargs*)

Bases: `telegram.base.TelegramObject`

This object contains information about one member of a chat.

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.

**Parameters**

- **user** (*telegram.User*) – Information about the user.

- **status** (`str`) – The member’s status in the chat. Can be ‘creator’, ‘administrator’, ‘member’, ‘restricted’, ‘left’ or ‘kicked’.
- **custom\_title** (`str`, optional) – Owner and administrators only. Custom title for this user.
- **is\_anonymous** (`bool`, optional) – Owner and administrators only. `True`, if the user’s presence in the chat is hidden.
- **until\_date** (`datetime.datetime`, optional) – Restricted and kicked only. Date when restrictions will be lifted for this user.
- **can\_be\_edited** (`bool`, optional) – Administrators only. `True`, if the bot is allowed to edit administrator privileges of that user.
- **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.

- **can\_manage\_voice\_chats** (`bool`, optional) – Administrators only. `True`, if the administrator can manage voice chats.

New in version 13.4.

- **can\_change\_info** (`bool`, optional) – Administrators and restricted only. `True`, if the user can change the chat title, photo and other settings.
- **can\_post\_messages** (`bool`, optional) – Administrators only. `True`, if the administrator can post in the channel, channels only.
- **can\_edit\_messages** (`bool`, optional) – Administrators only. `True`, if the administrator can edit messages of other users and can pin messages; channels only.
- **can\_delete\_messages** (`bool`, optional) – Administrators only. `True`, if the administrator can delete messages of other users.
- **can\_invite\_users** (`bool`, optional) – Administrators and restricted only. `True`, if the user can invite new users to the chat.
- **can\_restrict\_members** (`bool`, optional) – Administrators only. `True`, if the administrator can restrict, ban or unban chat members.
- **can\_pin\_messages** (`bool`, optional) – Administrators and restricted only. `True`, if the user can pin messages, groups and supergroups only.
- **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).
- **is\_member** (`bool`, optional) – Restricted only. `True`, if the user is a member of the chat at the moment of the request.
- **can\_send\_messages** (`bool`, optional) – Restricted only. `True`, if the user can send text messages, contacts, locations and venues.
- **can\_send\_media\_messages** (`bool`, optional) – Restricted only. `True`, if the user can send audios, documents, photos, videos, video notes and voice notes.
- **can\_send\_polls** (`bool`, optional) – Restricted only. `True`, if the user is allowed to send polls.
- **can\_send\_other\_messages** (`bool`, optional) – Restricted only. `True`, if the user can send animations, games, stickers and use inline bots.

- **can\_add\_web\_page\_previews** (`bool`, optional) – Restricted only. `True`, if user may add web page previews to his messages.

**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.

**Type** `str`

**is\_anonymous**

Optional. `True`, if the user's presence in the chat is hidden.

**Type** `bool`

**until\_date**

Optional. Date when restrictions will be lifted for this user.

**Type** `datetime.datetime`

**can\_be\_edited**

Optional. If the bot is allowed to edit administrator privileges of that user.

**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.

**Type** `bool`

**can\_manage\_voice\_chats**

Optional. if the administrator can manage voice chats.

New in version 13.4.

**Type** `bool`

**can\_change\_info**

Optional. If the user can change the chat title, photo and other settings.

**Type** `bool`

**can\_post\_messages**

Optional. If the administrator can post in the channel.

**Type** `bool`

**can\_edit\_messages**

Optional. If the administrator can edit messages of other users.

**Type** `bool`

**can\_delete\_messages**

Optional. If the administrator can delete messages of other users.

**Type** `bool`

**can\_invite\_users**

Optional. If the user can invite new users to the chat.

**Type** `bool`

**can\_restrict\_members**

Optional. If the administrator can restrict, ban or unban chat members.

Type `bool`

**can\_pin\_messages**

Optional. If the user can pin messages.

Type `bool`

**can\_promote\_members**

Optional. If the administrator can add new administrators.

Type `bool`

**is\_member**

Optional. Restricted only. True, if the user is a member of the chat at the moment of the request.

Type `bool`

**can\_send\_messages**

Optional. If the user can send text messages, contacts, locations and venues.

Type `bool`

**can\_send\_media\_messages**

Optional. If the user can send media messages, implies `can_send_messages`.

Type `bool`

**can\_send\_polls**

Optional. True, if the user is allowed to send polls.

Type `bool`

**can\_send\_other\_messages**

Optional. If the user can send animations, games, stickers and use inline bots, implies `can_send_media_messages`.

Type `bool`

**can\_add\_web\_page\_previews**

Optional. If user may add web page previews to his messages, implies `can_send_media_messages`

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*

### 3.2.11 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*

### 3.2.12 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_message` 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

### 3.2.13 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` –

### 3.2.14 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**

5.1. 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`

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.ChatAction:*

```
telegram.constants.CHATACTION_FIND_LOCATION  
    'find_location'
```

**Type** str

```
telegram.constants.CHATACTION_RECORD_AUDIO  
    'record_audio'
```

**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'
```

**Type** str

```
telegram.constants.CHATACTION_UPLOAD_DOCUMENT  
    'upload_document'
```

**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\_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.files.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

### 3.2.15 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`

### 3.2.16 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`

### 3.2.17 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`

**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` –

### 3.2.18 telegram.error module

This module contains an object that represents Telegram errors.

**exception** `telegram.error.BadRequest` (*message*)

Bases: `telegram.error.NetworkError`

**exception** `telegram.error.ChatMigrated` (*new\_chat\_id*)

Bases: `telegram.error.TelegramError`

**Parameters** `new_chat_id` (`int`) – The new chat id of the group.

**exception** `telegram.error.Conflict` (*message*)

Bases: `telegram.error.TelegramError`

Raised when a long poll or webhook conflicts with another one.

**Parameters** `msg` (`str`) – The message from telegrams server.

**exception** `telegram.error.InvalidToken`

Bases: `telegram.error.TelegramError`

**exception** `telegram.error.NetworkError` (*message*)

Bases: `telegram.error.TelegramError`

**exception** `telegram.error.RetryAfter` (*retry\_after*)

Bases: `telegram.error.TelegramError`

**Parameters** `retry_after` (`int`) – Time in seconds, after which the bot can retry the request.

**exception** telegram.error.TelegramError(*message*)

Bases: Exception

**exception** telegram.error.TimedOut

Bases: telegram.error.NetworkError

**exception** telegram.error.Unauthorized(*message*)

Bases: telegram.error.TelegramError

### 3.2.19 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*

### 3.2.20 telegram.ForceReply

**class** telegram.**ForceReply** (*force\_reply=True, selective=False, \*\*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 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.

**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`

### 3.2.21 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,  
                                     **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.

---

#### Parameters

- **text** (`str`) – Label text on the button.
- **url** (`str`) – HTTP or `tg://` url to be opened when button is pressed.
- **login\_url** (`telegram.LoginUrl`, optional) – An HTTP URL used to automatically authorize the user. Can be used as a replacement for the Telegram Login Widget.
- **callback\_data** (`str`, optional) – Data to be sent in a callback query to the bot when button is pressed, UTF-8 1-64 bytes.
- **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.
- **\*\*kwargs** (`dict`) – Arbitrary keyword arguments.

**text**

Label text on the button.

**Type** `str`

**url**

Optional. HTTP or tg:// url to be opened when button is pressed.

**Type** `str`

**login\_url**

Optional. An HTTP URL used to automatically authorize the user. Can be used as a replacement for the Telegram Login Widget.

**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`

**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`

### 3.2.22 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** `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.

### 3.2.23 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`

### 3.2.24 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.

### 3.2.25 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`

### 3.2.26 telegram.InputMediaAudio

```
class telegram.InputMediaAudio(media, thumb=None, caption=None, parse_mode=None,  
                               duration=None, performer=None, title=None, cap-  
                               tion_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`

### 3.2.27 telegram.InputMediaDocument

```
class telegram.InputMediaDocument (media,                thumb=None,                cap-
                                   tion=None,            parse_mode=None,            dis-
                                   able_content_type_detection=None,        cap-
                                   tion_entities=None, filename=None)
```

Bases: `telegram.files.inputmedia.InputMedia`

Represents a general file to be sent.

#### Parameters

- **media** (`str` | *filelike object* | `bytes` | `pathlib.Path` | `telegram.Document`) – File to send. Pass a `file_id` to send a file that exists on the Telegram servers (recommended), pass an HTTP URL for Telegram to get a file from the Internet. Lastly you can pass an existing `telegram.Document` object to send.

Changed in version 13.2: Accept `bytes` as input.

- **filename** (`str`, optional) – Custom file name for the document, when uploading a new file. Convenience parameter, useful e.g. when sending files generated by the `tempfile` module.

New in version 13.1.

- **caption** (`str`, optional) – Caption of the document to be sent, 0-1024 characters after entities parsing.
- **parse\_mode** (`str`, optional) – Send Markdown or HTML, if you want Telegram apps to show bold, italic, fixed-width text or inline URLs in the media caption. See the constants in `telegram.ParseMode` for the available modes.
- **caption\_entities** (`List[telegram.MessageEntity]`, optional) – List of special entities that appear in the caption, which can be specified instead of `parse_mode`.

- **thumb** (*filelike object* | `bytes` | `pathlib.Path`, optional) – Thumbnail of the file sent; can be ignored if thumbnail generation for the file is supported server-side. The thumbnail should be in JPEG format and less than 200 kB in size. A thumbnail's width and height should not exceed 320. Ignored if the file is not uploaded using multipart/form-data. Thumbnails can't be reused and can be only uploaded as a new file.

Changed in version 13.2: Accept `bytes` as input.

- **disable\_content\_type\_detection** (`bool`, optional) – Disables automatic server-side content type detection for files uploaded using multipart/form-data. Always `true`, if the document is sent as part of an album.

**type**

document.

**Type** `str`

**media**

File to send.

**Type** `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`

### 3.2.28 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]`

### 3.2.29 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`

### 3.2.30 telegram.KeyboardButton

```
class telegram.KeyboardButton(text, request_contact=None, request_location=None, request_poll=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 ignore them.
  - `request_poll` option will only work in Telegram versions released after 23 January, 2020. Older clients will receive 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.

**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`

### 3.2.31 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

### 3.2.32 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 longitude 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

### 3.2.33 telegram.LoginUrl

```
class telegram.LoginUrl(url, forward_text=None, bot_username=None, re-
                        quest_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](#)

---

#### Parameters

- **url** (str) – An HTTP URL to be opened with user authorization data added to the query string when the button is pressed. If the user refuses to provide authorization data, the original URL without information about the user will be opened. The data added is the same as described in [Receiving authorization data](#)
- **forward\_text** (str, optional) – New text of the button in forwarded messages.
- **bot\_username** (str, optional) – Username of a bot, which will be used for user authorization. See [Setting up a bot](#) for more details. If not specified, the current bot's username will be assumed. The url's domain must be the same as the domain linked with the bot. See [Linking your domain to the bot](#) for more details.
- **request\_write\_access** (bool, optional) – Pass True to request the permission for your bot to send messages to the user.

**url**

An HTTP URL to be opened with user authorization data.

Type str

**forward\_text**

Optional. New text of the button in forwarded messages.

Type `str`

**bot\_username**

Optional. Username of a bot, which will be used for user authorization.

Type `str`

**request\_write\_access**

Optional. Pass `True` to request the permission for your bot to send messages to the user.

Type `bool`

### 3.2.34 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, **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.

---

#### Parameters

- **message\_id** (`int`) – Unique message identifier inside this chat.
- **from\_user** (`telegram.User`, optional) – Sender, empty for messages sent to channels.
- **sender\_chat** (`telegram.Chat`, optional) – Sender of the message, sent on behalf of a chat. The channel itself for channel messages. The supergroup itself for messages from anonymous group administrators. The linked channel for messages automatically forwarded to the discussion group.
- **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.
- **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.
- **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\_started** (*telegram.VoiceChatStarted*, optional) – Service message: voice chat started.  
New in version 13.4.
- **voice\_chat\_ended** (*telegram.VoiceChatEnded*, optional) – Service message: voice chat ended.  
New in version 13.4.
- **voice\_chat\_participants\_invited** (*telegram.VoiceChatParticipantsInvited* optional) – Service message: new participants invited to a voice chat.  
New in version 13.4.
- **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.

Type *telegram.User*

**sender\_chat**

Optional. Sender of the message, sent on behalf of a chat. The channel itself for channel messages. The supergroup itself for messages from anonymous group administrators. The linked channel for messages automatically forwarded to the discussion group.

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`

**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`

**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\_started**

Optional. Service message: voice chat started

New in version 13.4.

Type `telegram.VoiceChatStarted`

**voice\_chat\_ended**

Optional. Service message: voice chat ended.

New in version 13.4.

Type `telegram.VoiceChatEnded`

**voice\_chat\_participants\_invited**

Optional. Service message: new participants invited to a voice chat.

New in version 13.4.

Type `telegram.VoiceChatParticipantsInvited`

**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.

**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.

**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.

---

**Returns** Message caption with caption entities formatted as Markdown.

**Return type** `str`

**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.

---

**Returns** Message caption with caption entities formatted as Markdown.

**Return type** `str`

**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.

**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.

**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*)

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`

**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*)

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()`.

**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 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 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*)

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*)

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*)

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*)

Shortcut for:

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

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`)

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`)

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`)

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, start\_parameter, currency, prices, 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*)

Shortcut for:

```
bot.send_invoice(update.effective_message.chat_id, *args, **kwargs)
```

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

**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.

New in version 13.2.

**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*)

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*)

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*)

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*)

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*)

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)

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)

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)

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)

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`)

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`)

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`)

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.

**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.

**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.

---

**Returns** Message text with entities formatted as Markdown.

**Return type** `str`

**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.

---

**Returns** Message text with entities formatted as Markdown.

**Return type** `str`

**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.

**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.

**Returns** Message text with entities formatted as Markdown.

**Return type** `str`

**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

### 3.2.35 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

### 3.2.36 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

### 3.2.37 telegram.MessageEntity

**class** telegram.**MessageEntity**(*type*, *offset*, *length*, *url=None*, *user=None*, *language=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. Can be mention (@username), hashtag, bot\_command, url, email, phone\_number, bold (bold text), italic (italic text), strikethrough, code (monowidth string), pre (monowidth block), text\_link (for clickable text URLs), text\_mention (for users without usernames).
- **offset** (*int*) – Offset in UTF-16 code units to the start of the entity.
- **length** (*int*) – Length of the entity in UTF-16 code units.
- **url** (*str*, optional) – For *TEXT\_LINK* only, url that will be opened after user taps on the text.
- **user** (*telegram.User*, optional) – For *TEXT\_MENTION* only, the mentioned user.
- **language** (*str*, optional) – For *PRE* only, the programming language of the entity text.

**type**

Type of the entity.

Type *str*

**offset**

Offset in UTF-16 code units to the start of the entity.

Type *int*

**length**

Length of the entity in UTF-16 code units.

Type *int*

**url**

Optional. Url that will be opened after user taps on the text.

Type *str*

**user**

Optional. The mentioned user.

Type *telegram.User*

**language**

Optional. Programming language of the entity text.

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
```

```
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

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
```

### 3.2.38 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
```

### 3.2.39 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](#) –

### 3.2.40 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
```

**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 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 the poll has no explanation.

### 3.2.41 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.

### 3.2.42 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`

### 3.2.43 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*

### 3.2.44 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`

### 3.2.45 telegram.ReplyKeyboardMarkup

```
class telegram.ReplyKeyboardMarkup(keyboard, resize_keyboard=False,  
                                   one_time_keyboard=False, selective=False,  
                                   **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 Message object.
  - 2) If the bot's message is a reply (has `reply_to_message_id`), sender of the original message.Defaults to `False`.
- **\*\*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`

**classmethod from\_button** (*button*, *resize\_keyboard=False*, *one\_time\_keyboard=False*, *selective=False*, *\*\*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`.

- **\*\*kwargs** (`dict`) – Arbitrary keyword arguments.

**classmethod from\_column** (*button\_column*, *resize\_keyboard=False*, *one\_time\_keyboard=False*, *selective=False*, *\*\*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`.

- **\*\*kwargs** (`dict`) – Arbitrary keyword arguments.

**classmethod** `from_row` (`button_row`, `resize_keyboard=False`, `one_time_keyboard=False`, `selective=False`, **\*\*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`.
- **\*\*kwargs** (`dict`) – Arbitrary keyword arguments.

### 3.2.46 telegram.ReplyMarkup

**class** `telegram.ReplyMarkup`

Bases: `telegram.base.TelegramObject`

Base class for Telegram ReplyMarkup Objects.

See [telegram.ReplyKeyboardMarkup](#) and [telegram.InlineKeyboardMarkup](#) for detailed use.

### 3.2.47 telegram.TelegramObject

**class** telegram.TelegramObject

Bases: object

Base class for most telegram objects.

**to\_json()**

**Returns** str

### 3.2.48 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*, *\*\*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.

- **\*\*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`

**classmethod de\_json(data, bot)****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` and `poll_answer`.

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`

### 3.2.49 telegram.User

```
class telegram.User(id, first_name, is_bot, last_name=None, user-  
                   name=None, language_code=None, can_join_groups=None,  
                   can_read_all_group_messages=None, supports_inline_queries=None,  
                   bot=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.

#### **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`

**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`)

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`

**property full\_name**

Convenience property. The user's `first_name`, followed by (if available) `last_name`.

**Type** `str`

**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\_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*)

Shortcut for:

```
bot.send_message(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*)

Shortcut for:

```
bot.send_message(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_message(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*)

Shortcut for:

```
bot.send_message(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*)

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*)

Shortcut for:

```
bot.send_message(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*)

Shortcut for:

```
bot.send_message(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*)

Shortcut for:

```
bot.send_message(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, start\_parameter, currency, prices, 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*)

Shortcut for:

```
bot.send_message(update.effective_user.id, *args, **kwargs)
```

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

**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*)

Shortcut for:

```
bot.send_message(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*)

Shortcut for:

```
bot.send_message(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*)

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*)

Shortcut for:

```
bot.send_message(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*)

Shortcut for:

```
bot.send_message(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*)

Shortcut for:

```
bot.send_message(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*)

Shortcut for:

```
bot.send_message(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*)

Shortcut for:

```
bot.send_message(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*)

Shortcut for:

```
bot.send_message(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*)

Shortcut for:

```
bot.send_message(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`

**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`

### 3.2.50 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*]]

### 3.2.51 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`

### 3.2.52 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`

**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` –

### 3.2.53 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*

**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* –

### 3.2.54 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` –

### 3.2.55 telegram.VoiceChatStarted

**class** `telegram.VoiceChatStarted` (**\*\*kwargs**)

Bases: `telegram.base.TelegramObject`

This object represents a service message about a voice chat started in the chat. Currently holds no information.

New in version 13.4.

### 3.2.56 telegram.VoiceChatEnded

```
class telegram.VoiceChatEnded(duration, **kwargs)
```

Bases: telegram.base.TelegramObject

This object represents a service message about a voice 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 13.4.

**Parameters** *duration* (int) – Voice chat duration in seconds.

**duration**

Voice chat duration in seconds.

**Type** int

### 3.2.57 telegram.VoiceChatParticipantsInvited

```
class telegram.VoiceChatParticipantsInvited(users, **kwargs)
```

Bases: telegram.base.TelegramObject

This object represents a service message about new members invited to a voice 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 13.4.

**Parameters** *users* (List[*telegram.User*]) – New members that were invited to the voice chat.

**users**

New members that were invited to the voice chat.

**Type** List[*telegram.User*]

### 3.2.58 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, **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.

**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.

**Type** `List[str]`

## 3.2.59 Stickers

### telegram.Sticker

```
class telegram.Sticker(file_id, file_unique_id, width, height, is_animated, thumb=None,
                       emoji=None, file_size=None, set_name=None, mask_position=None,
                       bot=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.

#### 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.
- **thumb** (*telegram.PhotoSize*, optional) – Sticker thumbnail in the .WEBP or .JPG format.
- **emoji** (*str*, optional) – Emoji associated with the sticker
- **set\_name** (*str*, optional) – Name of the sticker set to which the sticker belongs.
- **mask\_position** (*telegram.MaskPosition*, optional) – For mask stickers, the position where the mask should be placed.
- **file\_size** (*int*, optional) – File size.
- **bot** (*telegram.Bot*, optional) – The Bot to use for instance methods.
- **(obj (\*\*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*

**thumb**

Optional. Sticker thumbnail in the .webp or .jpg format.

**Type** *telegram.PhotoSize*

**emoji**

Optional. Emoji associated with the sticker.

**Type** *str*

**set\_name**

Optional. Name of the sticker set to which the sticker belongs.

**Type** *str*

**mask\_position**

Optional. For mask stickers, the position where the mask should be placed.

**Type** *telegram.MaskPosition*

**file\_size**

Optional. File size.

**Type** `int`

**bot**

Optional. The Bot to use for instance methods.

**Type** `telegram.Bot`

**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, thumb=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.

**name**

Sticker set name.

**Type** `str`

**title**

Sticker set title.

**Type** `str`

**is\_animated**

True, if the sticker set contains animated stickers.

**Type** `bool`

**contains\_masks**

True, if the sticker set contains masks.

**Type** `bool`

**stickers**

List of all set stickers.

**Type** `List[telegram.Sticker]`

**thumb**

Optional. Sticker set thumbnail in the .WEBP or .TGS format.

**Type** `telegram.PhotoSize`

**Parameters**

- **name** (`str`) – Sticker set name.
- **title** (`str`) – Sticker set title.
- **is\_animated** (`bool`) – True, if the sticker set contains animated stickers.
- **contains\_masks** (`bool`) – True, if the sticker set contains masks.
- **stickers** (`List[telegram.Sticker]`) – List of all set stickers.

- **thumb** (*telegram.PhotoSize*, optional) – Sticker set thumbnail in the .WEBP or .TGS format.

## 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
```

### 3.2.60 Inline Mode

#### telegram.InlineQuery

```
class telegram.InlineQuery(id, from_user, query, offset, location=None, bot=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.
- **location** (*telegram.Location*, optional) – Sender location, only for bots that request user location.
- **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.
- **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*

#### **location**

Optional. Sender location, only for bots that request user location.

**Type** *telegram.Location*

#### **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*

**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.

## 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



**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, de-
                                                scription=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, de-
                                             scription=None, caption=None,
                                             reply_markup=None, in-
                                             put_message_content=None,
                                             parse_mode=None, cap-
                                             tion_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, re-  
                                              ply_markup=None, in-  
                                              put_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 Place 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.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

## 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.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`

## 3.2.61 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,
                          ping_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`

### **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]`

## 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`

## 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()*.

## 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()`.

## 3.2.62 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()`. 1-4096 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*

**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.

### telegram.Callbackgame

**class** telegram.**CallbackGame**

Bases: telegram.base.TelegramObject

A placeholder, currently holds no information. Use BotFather to set up your game.

### 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

## 3.2.63 Passport

### telegram.PassportElementError

**class** telegram.**PassportElementError** (*source, type, message, \*\*kwargs*)

Bases: telegram.base.TelegramObject

Baseclass for the PassportElementError\* classes.

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*, *data\_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.PassportElementErrorReverseSide`

**class** `telegram.PassportElementErrorReverseSide` (*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 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*, *data\_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 "passport", "driver\_license", "identity\_card", "internal\_passport".

**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*, *data\_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.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 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\_hashes*, *data\_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\_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.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.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`

### 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`

## telegram.SecureData

```
class telegram.SecureData(personal_details=None, passport=None, internal_passport=None,  
                           driver_license=None, identity_card=None, address=None, util-  
                           ity_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



## 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

## 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*

### 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, mid-  
                               dle_name_native=None, bot=None, **kwargs)
```

Bases: telegram.base.TelegramObject

This object represents personal details.

**first\_name**

First Name.

**Type** str

**middle\_name**

Optional. First Name.

**Type** str

**last\_name**

Last Name.

**Type** str

**birth\_date**

Date of birth in DD.MM.YYYY format.

**Type** str

**gender**

Gender, male or female.

**Type** str

**country\_code**

Citizenship (ISO 3166-1 alpha-2 country code).

**Type** str

**residence\_country\_code**

Country of residence (ISO 3166-1 alpha-2 country code).

**Type** str

**first\_name\_native**

First Name in the language of the user's country of residence.

**Type** str

**middle\_name\_native**

Optional. Middle Name in the language of the user's country of residence.

**Type** str

**last\_name\_native**

Last Name in the language of the user's country of residence.

**Type** str

### telegram.ResidentialAddress

```
class telegram.ResidentialAddress(street_line1, street_line2, city, state, country_code,  
                                post_code, bot=None, **kwargs)
```

Bases: telegram.base.TelegramObject

This object represents a residential address.

**street\_line1**

First line for the address.

**Type** str

**street\_line2**

Optional. Second line for the address.

**Type** str

**city**

City.

**Type** str

**state**

Optional. State.

**Type** str

**country\_code**

ISO 3166-1 alpha-2 country code.

**Type** str

**post\_code**

Address post code.

**Type** str

### telegram.PassportData

```
class telegram.PassportData(data, credentials, bot=None, **kwargs)
```

Bases: telegram.base.TelegramObject

Contains information about Telegram Passport data shared with the bot by the user.

---

**Note:** To be able to decrypt this object, you must pass your `private_key` to either `telegram.Updater` or `telegram.Bot`. Decrypted data is then found in `decrypted_data` and the payload can be found in `decrypted_credentials`'s attribute `telegram.Credentials.payload`.

---

#### Parameters

- **data** (List[`telegram.EncryptedPassportElement`]) – Array with encrypted information about documents and other Telegram Passport elements that was shared with the bot.
- **credentials** (`telegram.EncryptedCredentials`) – Encrypted credentials.

- **bot** (*telegram.Bot*, optional) – The Bot to use for instance methods.
- **\*\*kwargs** (dict) – Arbitrary keyword arguments.

**data**

Array with encrypted information about documents and other Telegram Passport elements that was shared with the bot.

Type *List[telegram.EncryptedPassportElement]*

**credentials**

Encrypted credentials.

Type *telegram.EncryptedCredentials*

**bot**

The Bot to use for instance methods.

Type *telegram.Bot*, optional

**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]*

**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`

**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, avail-

able 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*

## 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`

## 3.3 telegram.utils package

### 3.3.1 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.

### 3.3.2 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.

### 3.3.3 telegram.utils.request.Request

**class** `telegram.utils.request.Request` (`con_pool_size=1`, `proxy_url=None`, `url-lib3_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 `url-lib3.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. (default: 5.)
- **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. (default: 5.)

**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`) – 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).

### 3.3.4 telegram.utils.types Module

This module contains custom typing aliases.

`telegram.utils.types.ConversationDict`

Dicts as maintained by the `telegram.ext.ConversationHandler`.

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

`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, ...]]`

## 3.4 Changelog

### 3.4.1 Changelog

#### 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 in `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 a 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:

- Stabilize 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 accidentally 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` now checks for `MessageEntity.BOT_COMMAND` instead of just a leading slash. Also by `Filters.command(False)` you can now filter for messages containing a command *anywhere* in the text (#1744).

#### Minor changes, CI improvements or bug fixes:

- Add `dispatcher` 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 assignment of `Dispatcher.job_queue` (#1698)

- Expose dispatcher as property for `CallbackContext` (#1684)
- Fix `None` check in `JobQueue._put()` (#1707)
- Log datetimes correctly in `JobQueue` (#1714)
- Fix false `Message.link` creation for private groups (#1741)
- Add option `--with-upstream-urllib3` to `setup.py` to allow using non-vendored version (#1725)
- Fix persistence for nested `ConversationHandlers` (#1679)
- Improve handling of non-decodable server responses (#1623)
- Fix download for files without `file_path` (#1591)
- `test_webhook_invalid_posts` is now considered flaky and retried on failure (#1758)

## Version 12.3.0

Released 2020-01-11

### New features:

- `Filters.caption` allows only messages with caption (#1631).
- Filter for exact messages/captions with new capability of `Filters.text` and `Filters.caption`. Especially useful in combination with `ReplyKeyboardMarkup`. (#1631).

### Major changes:

- Fix inconsistent handling of naive datetimes (#1506).

### Minor changes, CI improvements or bug fixes:

- Documentation fixes (#1558, #1569, #1579, #1572, #1566, #1577, #1656).
- Add mutex protection on `ConversationHandler` (#1533).
- Add `MAX_PHOTOSIZE_UPLOAD` constant (#1560).
- Add args and kwargs to `Message.forward()` (#1574).
- Transfer to GitHub Actions CI (#1555, #1556, #1605, #1606, #1607, #1612, #1615, #1645).
- Fix deprecation warning with Py3.8 by vendored `urllib3` (#1618).
- Simplify assignments for optional arguments (#1600)
- Allow private groups for `Message.link` (#1619).
- Fix wrong signature call for `ConversationHandler.TIMEOUT` handlers (#1653).

## Version 12.2.0

Released 2019-10-14

### New features:

- Nested `ConversationHandlers` (#1512).

### Minor changes, CI improvements or bug fixes:

- Fix CI failures due to non-backward compat attrs dependency (#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://git.io/fxJuV> 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 compatible 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 unittest 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 initialization of Updater (PR #793).
- Catch exceptions in error handler for 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 connecting to Telegram servers (Issue #720).
- `ConversationHandler` - 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 comparison 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 `ChatMigratedException`
- 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

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