
python-bale-bot

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REFERENCE

1	What is Bale?	3
2	What is python-bale-bot?	5
3	Installing	7
3.1	PyPi:	7
3.2	Git:	7
4	Documentation	9
5	Contact to Developers	11
5.1	bale package	11
5.2	Helpers	39
5.3	Change Log	39
5.4	Examples	42
	Index	45

An API wrapper for Bale written in Python.

WHAT IS BALE?

The “Bale” is a messenger-platform for send and receive messages. it's provides services for developers and they can send or receive messages through bots like normal users and These services are provided by [web services \(API\)](#).

WHAT IS PYTHON-BALE-BOT?

The “python-bale-bot” is a Python language package optimized for developers to use web services provided by “Bale”.

INSTALLING

You can install or update ``python-bale-bot`` via:

3.1 PyPi:

```
$ pip install python-bale-bot -U
```

3.2 Git:

```
$ git clone https://github.com/python-bale-bot/python-bale-bot
$ cd python-bale-bot
$ python setup.py install
```


DOCUMENTATION

The [package documentation](#) is the technical reference for python-bale-bot. It contains descriptions of all available classes, modules, methods and arguments as well as the changelog.

CONTACT TO DEVELOPERS

5.1 bale package

5.1.1 Classes in this package

Bot

class `bale.Bot`(*token*, ***kwargs*)

Bases: `object`

This object represents a Bale Bot.

Parameters

token (*str*) – Bot Token

Attention: When you create bot and run for first-step, use `bale.Bot.delete_webhook()` method in `on_before_ready` event.

add_event(*event_name*, *wrapper*)

Set wrapper or listener for an event.

Parameters

- **event_name** (*str*) – Name of the event
- **wrapper** (*Callable*[]) – Function to add as wrapper for event

async ban_chat_member(*chat_id*, *user_id*)

Use this method to ban a user from a group, supergroup or a channel. In the case of supergroups and channels, the user will not be able to return to the group on their own using invite links, etc., unless unbanned first.

Parameters

- **chat_id** (*str* | *int*) – Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **user_id** (*int* | *str*) – Unique identifier of the target user.

Returns

On success, `True` is returned.

Return type

`bool`

Raises

- **NotFound** – Invalid Chat or User ID.
- **Forbidden** – You do not have permission to ban Chat Member.
- **APIError** – ban chat member Failed.

async close()

Close http Events and bot

async delete_message(chat_id, message_id)

You can use this service to delete a message that you have already sent through the arm.

Warning:

In Channel or Group:

If it is a group or channel Manager, it can delete a message from (group or channel).

In private message (PV):

If the message was sent by a bot, it can be deleted with this method

Parameters

- **chat_id** (`str` | `int`) – Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **message_id** (`bale.Message`) – Unique identifier for the message to delete.

Raises

- **NotFound** – Invalid Message or Chat ID.
- **Forbidden** – You do not have permission to Delete Message.
- **APIError** – Delete Message Failed.

async delete_webhook()

This service is used to remove the webhook set for the bot.

Returns

On success, True is returned.

Return type

`bool`

Raises

- **Forbidden** – You do not have permission to delete Webhook.
- **APIError** – Delete webhook Failed.

async edit_message(chat_id, message_id, text, *, components=None)

You can use this service to edit text messages that you have already sent through the arm.

Parameters

- **chat_id** (`str` | `int`) – Unique identifier for the target chat or username of the target channel (in the format @channelusername).

- **message_id** (*str* | *int*) – Unique identifier for the message to edit.
- **text** (*str*) – New text of the message, 1- 4096 characters after entities parsing.
- **components** (Optional[*bale.Components* | *bale.RemoveComponents*]) – An object for an inline keyboard.

Raises

- **NotFound** – Invalid Message or Chat ID.
- **Forbidden** – You do not have permission to Edit Message.
- **APIError** – Edit Message Failed.

event(*coro*)

Set wrapper or listener for selected event (the name of function).

Hint: The name of the function for which you write the decorator is considered the name of the event.

async forward_message(*chat_id, from_chat_id, message_id*)

This service is used to send text messages.

Parameters

- **chat_id** (*str* | *int*) – Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **from_chat_id** (*str* | *int*) – the chat where the original message was sent (or channel username in the format @channelusername).
- **message_id** (*int* | *str*) – Message in the chat specified in *from_chat_id*.

Returns

The Message

Return type

bale.Message

Raises

- **NotFound** – Invalid Chat ID.
- **Forbidden** – You do not have permission to send Message to this chat.
- **APIError** – Forward Message Failed.

async get_bot()

Get bot information

Returns

Bot User information.

Return type

bale.User

Raises

APIError – Get bot Failed.

async get_chat(*chat_id*)

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).

Returns

The chat or None if not found.

Return type

Optional[*bale.Chat*]

Raises

- **Forbidden** – You do not have permission to get Chat.
- **APIError** – Get chat Failed.

async get_chat_administrators(*chat_id*)

Use this method to get a list of administrators in a chat.

Parameters

chat_id(*str* | *int*) – Unique identifier for the target chat or username of the target channel (in the format @channelusername).

Returns

list of chat member.

Return type

List[*bale.ChatMember*]

Raises

- **NotFound** – Invalid Chat ID.
- **Forbidden** – You do not have permission to get Administrators of the Chat.
- **APIError** – get Administrators of the Chat from chat Failed.

async get_chat_member(*chat_id*, *user_id*)

Use this method to get information about a member of a chat. The method is only guaranteed to work for other users if the bot is an administrator in the chat.

Parameters

- **chat_id**(*str* | *int*) – Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **user_id** (Optional[*int* | *str*]) – Unique identifier of the target user.

Returns

The chat member of None if not found.

Return type

Optional[*bale.ChatMember*]

Raises

- **NotFound** – Invalid Chat or User ID.
- **Forbidden** – You do not have permission to get Chat Member.
- **APIError** – Get chat member Failed.

async get_chat_members_count(*chat_id*)

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

Parameters

chat_id (*str* | *int*) – Unique identifier for the target chat or username of the target channel (in the format @channelusername).

Raises

- **NotFound** – Invalid Chat ID.
- **Forbidden** – You do not have permission to get Members count of the Chat.
- **APIError** – get Members count of the Chat Failed.

Returns

The members count of the chat

Return type

int

async get_file(*file_id*)

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 20 MB in size.

Parameters

file_id (*str*) – Either the file identifier to get file information about.

Returns

The content of the file

Return type

bytes

Raises

- **NotFound** – Invalid file ID.
- **Forbidden** – You do not have permission to download File.
- **APIError** – download File Failed.

async get_user(*user_id*)

This Method almost like *bale.Bot.get_chat* , but this a filter that only get user.

Parameters

user_id (*int*) – user id

Returns

The user or None if not found.

Return type

Optional[*bale.User*]

Raises

- **Forbidden** – You do not have permission to get User.
- **APIError** – Get user Failed.

async invite_user(*chat_id*, *user_id*)

Invite user to the chat

Parameters

- **chat_id** (*str* | *int*) – Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **user_id** (*str* | *int*) – Unique identifier for the target user.

Raises

- **NotFound** – Invalid Chat or User ID.
- **Forbidden** – You do not have permission to Add user to Chat.
- **APIError** – Invite user Failed.

`is_closed()`

`bool`: Connection Status

`async leave_chat(chat_id)`

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

Parameters

chat_id (`str` | `int`) – Unique identifier for the target chat or username of the target channel (in the format @channelusername).

Raises

- **Forbidden** – You do not have permission to Leave from chat.
- **APIError** – Leave from chat Failed.

`listen(event_name)`

Set wrapper or listener for selected event (custom function name).

Parameters

event_name (`str`) – Name of the event to set.

`async on_error(event_name, error)`

a Event for get errors when exceptions

`run()`

Starting the bot, updater and HTTPClient.

`async send_audio(chat_id, audio, *, caption=None, components=None, reply_to_message_id=None)`

This service is used to send Audio.

Parameters

- **chat_id** (`str` | `int`) – Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **audio** (`bale.InputFile`) – File to send. visit `bale.InputFile` to see more info.
- **caption** (Optional[`str`]) – Audio caption.
- **components** (Optional[`bale.Components` | `bale.RemoveComponents`]) – Message Components
- **reply_to_message_id** (Optional[`str` | `int`]) – If the message is a reply, ID of the original message.

Returns

The Message.

Return type

`bale.Message`

Raises

- **NotFound** – Invalid Chat ID.
- **Forbidden** – You do not have permission to Send Audio to chat.

- **APIError** – Send Audio Failed.

async send_contact(*chat_id, contact*)

This service is used to send contact.

Parameters

- **chat_id** (*str | int*) – Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **contact** (*bale.ContactMessage*) – The Contact.

Returns

The Message.

Return type

bale.Message

Raises

- **NotFound** – Invalid Chat ID.
- **Forbidden** – You do not have permission to send Contact Message to this chat.
- **APIError** – Send Contact Message Failed.

async send_document(*chat_id, document, *, caption=None, components=None, reply_to_message_id=None*)

This service is used to send document.

Parameters

- **chat_id** (*str | int*) – Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **document** (*bale.InputFile*) – File to send. visit *bale.InputFile* to see more info.
- **caption** (Optional[*str*]) – Document caption.
- **components** (Optional[*bale.Components | bale.RemoveComponents*]) – Message Components
- **reply_to_message_id** (Optional[*str | int*]) – If the message is a reply, ID of the original message.

Returns

The Message.

Return type

bale.Message

Raises

- **NotFound** – Invalid Chat ID.
- **Forbidden** – You do not have permission to send Document to this chat.
- **APIError** – Send Document Failed.

async send_invoice(*chat_id, title, description, provider_token, prices, *, payload=None, photo_url=None, need_name=False, need_phone_number=False, need_email=False, need_shipping_address=False, is_flexible=True*)

You can use this service to send money request messages.

Important: When paying the amount, a fee will be charged from the sender.

Parameters

- **chat_id** (*str* | *int*) – Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **title** (*str*) – Product name. 1- 32 characters.
- **description** (*str*) – Product description. 1- 255 characters.
- **provider_token** (*str*) – You can use 3 methods to receive money: 1. Card number 2. Port number and acceptor number 3. Wallet number “Bale”
- **prices** (List[*bale.Price*]) – A list of prices.
- **payload** (Optional[*str*]) – Bot-defined invoice payload. This will not be displayed to the user, use for your internal processes.
- **photo_url** (Optional[*str*]) – 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.
- **need_name** (Optional[*bool*]) – Pass True, if you require the user’s full name to complete the order.
- **need_phone_number** (Optional[*bool*]) – Pass True, if you require the user’s phone number to complete the order.
- **need_email** (Optional[*bool*]) – Pass True, if you require the user’s email to complete the order.
- **need_shipping_address** (Optional[*bool*]) – Pass True, if you require the user’s shipping address to complete the order.
- **is_flexible** (Optional[*bool*]) – Pass True, if the final price depends on the shipping method.

Return type

bale.Message

Raises

- **NotFound** – Invalid Chat ID.
- **Forbidden** – You do not have permission to send Invoice to this chat.
- **APIError** – Send Invoice Failed.

async send_location(*chat_id*, *location*)

Use this method to send point on the map.

Parameters

- **chat_id** (*str* | *int*) – Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **location** (*bale.Location*) – The Location.

Returns

The Message.

Return type*bale.Message***Raises**

- **NotFound** – Invalid Chat ID.
- **Forbidden** – You do not have permission to send Location to this chat.
- **APIError** – Send Location Failed.

async send_message(*chat_id, text, *, components=None, reply_to_message_id=None*)

This service is used to send text messages.

Parameters

- **chat_id** (*str | int*) – 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.
- **components** (Optional[*bale.Components* | *bale.RemoveComponents*]) – Message Components
- **reply_to_message_id** (Optional[*str | int*]) – If the message is a reply, ID of the original message.

Returns

The Message

Return type*bale.Message***Raises**

- **NotFound** – Invalid Chat ID.
- **Forbidden** – You do not have permission to send Message to this chat.
- **APIError** – Send Message Failed.

async send_photo(*chat_id, photo, *, caption=None, components=None, reply_to_message_id=None*)

This service is used to send photo.

Parameters

- **chat_id** (*str | int*) – Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **photo** (*bale.InputFile*) – File to send. visit *bale.InputFile* to see more info.
- **caption** (Optional[*str*]) – Photo caption.
- **components** (Optional[*bale.Components* | *bale.RemoveComponents*]) – Message Components
- **reply_to_message_id** (Optional[*str | int*]) – If the message is a reply, ID of the original message.

Returns

The Message.

Return type*bale.Message***Raises**

- **NotFound** – Invalid Chat ID.
- **Forbidden** – You do not have permission to Send Photo to chat.
- **APIError** – Send photo Failed.

async send_video(*chat_id, video, *, caption=None, components=None, reply_to_message_id=None*)

This service is used to send Video.

Parameters

- **chat_id** (*str | int*) – Unique identifier for the target chat or username of the target channel (in the format @channelusername).
- **video** (*bale.InputFile*) – File to send. visit [bale.InputFile](#) to see more info.
- **caption** (Optional[*str*]) – Video caption.
- **components** (Optional[*bale.Components | bale.RemoveComponents*]) – Message Components
- **reply_to_message_id** (Optional[*str | int*]) – If the message is a reply, ID of the original message.

Returns

The Message.

Return type

[bale.Message](#)

Raises

- **NotFound** – Invalid Chat ID.
- **Forbidden** – You do not have permission to Send Video to chat.
- **APIError** – Send Video Failed.

async set_webhook(*url*)

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

Parameters

url (*str*) – HTTPS url to send updates to. Use an empty string to remove webhook integration.

Returns

On success, True is returned.

Return type

bool

property user

Represents the connected client. None if not logged in

Type

Optional[[bale.User](#)]

wait_for(*event_name, *, check=None, timeout=None*)

Waits for an event to be dispatched.

This could be used to wait for a user to reply to a message, or send a photo, or to edit a message in a self-contained way. The timeout parameter is passed onto `asyncio.wait_for()`. By default, it does not `timeout`.

Note that this does propagate the `asyncio.TimeoutError` for you in case of timeout and is provided for ease of use. In case the event returns multiple arguments, a tuple containing those arguments is returned instead. This function returns the first event that meets the requirements.

Parameters

- **event_name** (`str`) – Name of the event
- **check** (Optional[Callable[... , bool]]) – A predicate to check what to wait for. The arguments must meet the parameters of the event being waited for.
- **timeout** (Optional[`float`]) – The number of seconds to wait before timing out and raising `asyncio.TimeoutError`.

Raises

`asyncio.TimeoutError` – If a timeout is provided, and it was reached.

Available Types

Message

```
class bale.Message(message_id, date, text=None, caption=None, forward_from=None,
                   forward_from_chat=None, forward_from_message_id=None, from_user=None,
                   document=None, contact=None, location=None, chat=None, video=None, photos=None,
                   reply_to_message=None, invoice=None, audio=None, successful_payment=None,
                   bot=None, **options)
```

Bases: `object`

This object shows a message.

message_id

Unique message identifier inside this chat.

Type

`str`

from_user

Sender of the message; empty for messages sent to channels. For backward compatibility, this will contain a fake sender user in non-channel chats, if the message was sent on behalf of a chat.

Type

Optional[`bale.User`]

chat

Conversation the message belongs to.

Type

`bale.Chat`

date

Date the message was sent in Unix time.

Type

`datetime.datetime`

text

Message Content

Type

Optional[`str`]

caption

Caption for the animation, audio, document, photo, video or voice.

Type

Optional[*str*]

forward_from

For forwarded messages, sender of the original message.

Type

Optional[*bale.User*]

forward_from_chat

For messages forwarded from channels or from anonymous administrators, information about the original sender chat.

Type

Optional[*bale.Chat*]

reply_to_message

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

Optional[*bale.Message*]

contact

Message is a shared contact, information about the contact.

Type

Optional[*bale.ContactMessage*]

location

Message is a shared location, information about the location.

Type

Optional[*bale.Location*]

document

Message is a general file, information about the file.

Type

Optional[*bale.Document*]

video

Message is a video, information about the video.

Type

Optional[*bale.Video*]

audio

Message is an audio, information about the Audio.

Type

Optional[*bale.Audio*]

new_chat_members

New members that were added to the group or supergroup and information about them (the bot itself may be one of these members). This list is empty if the message does not contain new chat members.

Type
Optional[List[*bale.User*]]

left_chat_member

A member was removed from the group, information about them (this member may be the bot itself).

Type
Optional[*bale.User*]

invoice

Message is an invoice for a payment, information about the invoice.

Type
Optional[*bale.Invoice*]

successful_payment

Message is a service message about a successful payment, information about the payment.

Type
Optional[*bale.SuccessfulPayment*]

property attachment

Represents the message attachment. None if the message don't have any attachments

Type
Optional[*bale.File*]

property author

An alias for *from_user*

property chat_id

Represents the Unique identifier of Conversation the message belongs to.

Type
`str | int`

property content

Represents the message content. None if the message don't have text or caption

Type
Optional[`str`]

async delete()

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

async edit(text, *, components=None)

For the documentation of the arguments, please see *bale.Bot.edit_message()*

async forward(chat_id)

For the documentation of the arguments, please see *bale.Bot.forward_message()*.

async reply(text, *, components=None)

For the documentation of the arguments, please see *bale.Bot.send_message()*.

async reply_audio(audio, *, caption=None, components=None)

For the documentation of the arguments, please see *bale.Bot.send_audio()*.

async reply_document(document, *, caption=None, components=None)

For the documentation of the arguments, please see *bale.Bot.send_document()*.

async reply_photo(*photo*, *, *caption=None*, *components=None*)

For the documentation of the arguments, please see `bale.Bot.send_photo()`.

property reply_to_message_id

Represents the Unique identifier of Original message, if the message has been replied. None If the message is not replied

Type

Optional[`str`]

async reply_video(*video*, *, *caption=None*, *components=None*)

For the documentation of the arguments, please see `bale.Bot.send_video()`.

Chat

class bale.Chat(*chat_id*, *type*, *title=None*, *username=None*, *first_name=None*, *last_name=None*, *pinned_message=None*, *all_members_are_administrators=None*, *invite_link=None*, *bot=None*)

Bases: `object`

This object indicates a chat.

chat_id

Unique identifier for this chat.

Type

`str`

type

Type of chat.

Type

`str`

title

Title, for channels and group chats.

Type

Optional[`str`]

username

Username, for private chats, supergroups and channels if available.

Type

Optional[`str`]

first_name

First name of the other party in a private chat.

Type

Optional[`str`]

last_name

Last name of the other party in a private chat.

Type

Optional[`str`]

pinned_message

Pinned messages in chat. Defaults to None.

Type

Optional[*bale.Message*]

invite_link

Primary invite link, for groups and channel. Returned only in *bale.Bot.get_chat()*.

Type

Optional[*str*]

all_members_are_administrators

Does everyone have admin access?. Defaults to True. (for Group)

Type

bool

async add_user(*user*)

For the documentation of the arguments, please see *bale.Bot.invite_user()*.

async ban_chat_member(*user*)

For the documentation of the arguments, please see *bale.Bot.ban_chat_member()*.

async get_chat_administrators()

For the documentation of the arguments, please see *bale.Bot.get_chat_administrators()*.

async get_chat_member(*user*)

For the documentation of the arguments, please see *bale.Bot.get_chat_member()*.

async get_chat_members_count()

For the documentation of the arguments, please see *bale.Bot.get_chat_members_count()*.

async leave()

For the documentation of the method, please see *bale.Bot.leave_chat()*.

property parsed_type

Represents the parsed type of chat.

Type

bale.ChatType

async send(*text*, *components=None*)

For the documentation of the arguments, please see *bale.Bot.send_message()*.

async send_audio(*audio*, *, *caption=None*, *components=None*)

For the documentation of the arguments, please see *bale.Bot.send_audio()*.

async send_contact(*contact*)

For the documentation of the arguments, please see *bale.Bot.send_contact()*.

async send_document(*document*, *, *caption=None*, *components=None*)

For the documentation of the arguments, please see *bale.Bot.send_document()*.

async send_invoice(*title*, *description*, *provider_token*, *prices*, *, *payload=None*, *photo_url=None*, *need_name=False*, *need_phone_number=False*, *need_email=False*, *need_shipping_address=False*, *is_flexible=True*)

For the documentation of the arguments, please see *bale.Bot.send_invoice()*

async send_location(*location*)

For the documentation of the arguments, please see `bale.Bot.send_location()`.

async send_photo(*photo*, *, *caption=None*, *components=None*)

For the documentation of the arguments, please see `bale.Bot.send_photo()`.

async send_video(*video*, *, *caption=None*, *components=None*)

For the documentation of the arguments, please see `bale.Bot.send_video()`.

User

class `bale.User`(*user_id*, *is_bot*, *first_name*, *last_name=None*, *username=None*, *bot=None*)

Bases: `object`

This object represents a Bale user or bot.

user_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

User's or bot's last name.

Type
`Optional[str]`

username

User's or bot's username.

Type
`Optional[str]`

property chat_id

Aliases for `user_id`

property mention

mention user with username.

Type
`Optional[str]`

async send(*text*, *components=None*)

For the documentation of the arguments, please see `bale.Bot.send_message()`.

async send_audio(*audio*, *, *caption=None*, *components=None*)

For the documentation of the arguments, please see `bale.Bot.send_audio()`.

async send_contact(*contact*)

For the documentation of the arguments, please see `bale.Bot.send_contact()`.

async send_document(*document*, *, *caption=None*, *components=None*)

For the documentation of the arguments, please see `bale.Bot.send_document()`.

async send_invoice(*title*, *description*, *provider_token*, *prices*, *, *payload=None*, *photo_url=None*,
need_name=False, *need_phone_number=False*, *need_email=False*,
need_shipping_address=False, *is_flexible=True*)

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

async send_location(*location*)

For the documentation of the arguments, please see `bale.Bot.send_location()`.

async send_photo(*photo*, *, *caption=None*, *components=None*)

For the documentation of the arguments, please see `bale.Bot.send_photo()`.

async send_video(*video*, *, *caption=None*, *components=None*)

For the documentation of the arguments, please see `bale.Bot.send_video()`.

Callback Query

class bale.CallbackQuery(*callback_id*, *data=None*, *message=None*, *inline_message_id=None*,
from_user=None, *bot=None*)

Bases: `object`

This object represents an incoming callback query from a callback button in an inline keyboard.

callback_id

Unique identifier for this query.

Type

`str`

from_user

Sender.

Type

`bale.User`

message

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.

Type

`bale.Message`

inline_message_id

Identifier of the message sent via the bot in inline mode, that originated the query.

Type

`str`

data

Data associated with the callback button. Be aware that the message, which originated the query, can contain no callback buttons with this data.

Type
str

property user

Aliases for *from_user*

Chat Member

class bale.ChatMember(*chat_id, status, user, permissions, bot*)

Bases: object

This object shows a member in chat

user

Information about the user.

Type
bale.User

status

The member's status in the chat.

Type
str

permissions

The member's permissions in the chat.

Type
bale.Permissions

async ban()

For the documentation of the arguments, please see *bale.Bot.ban_chat_member()*.

property parsed_status

Represents the parsed member's status.

Type
bale.ChatMemberStatus

Permissions

class bale.Permissions(*can_be_edited=False, can_change_info=False, can_post_messages=False, can_edit_messages=False, can_delete_messages=False, can_invite_users=False, can_restrict_members=False, can_pin_messages=False, can_promote_members=False, can_send_messages=False, can_send_media_messages=False*)

Bases: object

This object shows the permissions and permissions of an admin or a member in a group (or channel).

Parameters

- **can_be_edited** (*bool*) – Can you edit?. Defaults to False.
- **can_change_info** (*bool*) – Can you edit group information? Defaults to False.
- **can_post_messages** (*bool*) – Can he post a message?. Defaults to False.
- **can_edit_messages** (*bool*) – Can you edit your message? Defaults to False.
- **can_delete_messages** (*bool*) – Can it erase messages? Defaults to False.
- **can_invite_users** (*bool*) – Can it invite users to chat? Defaults to False.
- **can_restrict_members** (*bool*) – Defaults to False.
- **can_pin_messages** (*bool*) – Can you pin your message? Defaults to False.
- **can_promote_members** (*bool*) – Defaults to False.
- **can_send_messages** (*bool*) – Can he send a message?. Defaults to False.
- **can_send_media_messages** (*bool*) – Can it attach a file with the message? Defaults to False.

classmethod `from_dict(data)`

Parameters

data (*dict*) – Data

Update

class `bale.Update(update_id, type, callback_query=None, message=None, edited_message=None, bot=None)`

Bases: `object`

This object represents an incoming update.

update_id

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.

Type

`int`

callback_query

New incoming callback query.

Type

Optional[`bale.CallbackQuery`]

message

New incoming message of any kind - text, photo, sticker, etc.

Type

Optional[`bale.Message`]

edited_message

New version of a message that is known to the bot and was edited.

Type

Optional[`bale.Message`]

UI

Components

class `bale.Components`

Bases: `object`

This object shows a Component.

add_inline_keyboard(*inline_keyboard*, *row=1*)

Use this method to add InlineKeyboard component.

Parameters

- **inline_keyboard** (*bale.InlineKeyboard*) – The Component you want to add
- **row** (*int*) – The Component row number

add_menu_keyboard(*menu_keyboard*, *row=1*)

Use this method to add MenuKeyboard component.

Parameters

- **menu_keyboard** (*bale.MenuKeyboard*) – The Component you want to add
- **row** (*int*) – The Component row number

property inline_keyboards

Represents the InlineKeyboards list.

Type

List[*bale.InlineKeyboard*]

property menu_keyboards

Represents the MenuKeyboards list.

Type

List[*bale.MenuKeyboard*]

remove_inline_keyboard(*inline_keyboard*, *row=1*)

Use this method to remove InlineKeyboard component.

Parameters

- **inline_keyboard** (*bale.InlineKeyboard*) – The Component you want to remove
- **row** (*int*) – The Component row number

remove_menu_keyboard(*menu_keyboard*, *row=1*)

Use this method to remove MenuKeyboard component.

Parameters

- **menu_keyboard** (*bale.MenuKeyboard*) – The Component you want to remove
- **row** (*int*) – The Component row number

Inline Keyboard

```
class bale.InlineKeyboard(text, *, callback_data=None, url=None, switch_inline_query=None,
                           switch_inline_query_current_chat=None)
```

Bases: `object`

This object shows an inline keyboard (within the message).

text

Label text on the button.

Type

`str`

callback_data

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. Defaults to `None`.

Type

Optional[`str`]

url

HTTP url to be opened when the button is pressed. Defaults to `None`.

Type

Optional[`str`]

switch_inline_query

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. Defaults to `None`.

Type

Optional[`str`]

switch_inline_query_current_chat

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. Defaults to `None`.

Type

Optional[`str`]

Menu Keyboard

```
class bale.MenuKeyboard(text, *, request_contact=False, request_location=False)
```

Bases: `object`

This object shows a Menu keyboard

text

Keyboard Text.

Type

`str`

request_contact

If True, the user's phone number will be sent as a contact when the button is pressed.

Type

Optional[bool]

request_location

If True, the user's current location will be sent when the button is pressed. Available in private chats only.

Type

Optional[bool]

Payments

Invoice

class bale.**Invoice**(*title, description, start_parameter, currency, total_amount*)

Bases: `object`

This object shows Invoice

title

Product name.

Type

`str`

description

Product description.

Type

`str`

start_parameter

Unique bot deep-linking parameter that can be used to generate this invoice.

Type

`str`

currency

Three-letter ISO 4217 currency code.

Type

`str`

total_amount

Total price in the smallest units of the currency (integer, not float/double).

Type

`int`

Price

```
class bale.Price(label=None, amount=None)
```

Bases: `object`

This object shows a Price

label

Label Price.

Type

Optional[`str`]

amount

Amount Price.

Type

Optional[`int`]

Successful Payment

```
class bale.SuccessfulPayment(currency, total_amount, invoice_payload=None, shipping_option_id=None)
```

Bases: `object`

This object contains basic information about a successful payment.

currency

The currency in which the transaction was made.

Type

`str`

total_amount

The total sum of the transaction amount.

Type

`int`

invoice_payload

Bot specified invoice payload.

Type

Optional[`str`]

shipping_option_id

Identifier of the shipping option chosen by the user.

Type

Optional[`str`]

property payload

Aliases for `invoice_payload`

Attachments

Audio

class bale.**Audio**(*file_id, duration=None, file_size=None, bot=None, mime_type=None, title=None*)

Bases: *File*

This object shows an Audio.

file_id

Identifier for this file, which can be used to download or reuse the file.

Type

str

duration

Duration of the audio in seconds as defined by sender.

Type

int

file_size

File size in bytes.

Type

int

mime_type

MIME type of the file as defined by sender.

Type

Optional[*str*]

title

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

Type

Optional[*str*]

Contact

class bale.**ContactMessage**(*phone_number, first_name=None, last_name=None*)

Bases: *object*

This object shows a Message Contact.

phone_number

Type

int

first_name

Type

str

last_name

Type

Optional[*str*]

Document

class bale.Document(*file_id, file_name=None, mime_type=None, file_size=None, bot=None*)

Bases: *File*

This object shows a Document.

file_id

Identifier for this file, which can be used to download or reuse the file.

Type
str

file_name

Original filename as defined by sender.

Type
Optional[*str*]

mime_type

MIME type of the file as defined by sender.

Type
Optional[*str*]

file_size

File size in bytes.

Type
Optional[*int*]

File

class bale.File(*file_type, file_id, file_size, mime_type, bot, **kwargs*)

Bases: *object*

This object shows a Base File Class.

file_type

Type of the file.

Type
str

file_id

Identifier for this file, which can be used to download or reuse the file.

Type
str

file_size

File size in bytes.

Type
Optional[*int*]

mime_type

MIME type of the file as defined by sender.

Type

Optional[str]

extra

The rest of the file information.

Type

Optional[dict]

Note: You can get more information from the file with extra.

property base_file

Represents the Base File Class of this file

Type

bale.File

async get()

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

async save_to_memory(out)

Download this file into memory. out needs to be supplied with a *io.BufferedIOBase*, the file contents will be saved to that object using the *io.BufferedIOBase.write()* method.

Parameters

out (*io.BinaryIO*) – A file-like object. Must be opened for writing in binary mode.

to_input_file()

Converts the file to a standard object for sending/uploading it. This object is require in the file sending methods.

Returns

The *bale.InputFile* Object for send.

Return type

bale.InputFile

property type

a Shortcut for use *bale.File.file_type*

Type

str

Input File

class *bale.InputFile*(file, *, file_name=None)

Bases: *object*

This object shows a file ready to send/upload.

<p>Warning: Just for upload file, you can use “file_name” param.</p>

Parameters

- **file** (`io.BufferedReader` | `str` | `bytes`) – Your File. Pass a `file_id` as String to send a file that exists on the Bale servers (recommended), pass an HTTP URL as a String for Bale to get a file from the Internet, or upload a new one.
- **file_name** (Optional[`str`]) – Additional interface options. It is used only when uploading a file.

Location

class `bale.Location`(*longitude, latitude*)

Bases: `object`

This object shows an Location

longitude

Location longitude

Type

`int`

latitude

Location latitude

Type

`int`

property link

Export location link from Google map

Type

`str`

Photo

class `bale.Photo`(*file_id, width, height, file_size, bot*)

Bases: `File`

This object shows a Photo.

file_id

Identifier for this file, which can be used to download or reuse the file.

Type

`str`

width

Photo width as defined by sender.

Type

`int`

height

Photo height as defined by sender.

Type

`str`

file_size

File size in bytes.

Type
int

Video

class bale.Video(*file_id, mime_type, width, height, file_size, duration, bot*)

Bases: *File*

This object shows a Video.

file_id

Identifier for this file, which can be used to download or reuse the file.

Type
str

width

Video width as defined by sender.

Type
int

file_size

File size in bytes.

Type
int

height

Video height as defined by sender.

Type
str

duration

Duration of the video in seconds as defined by sender.

Type
int

mime_type

MIME type of file as defined by sender.

Type
str

5.2 Helpers

5.2.1 Deep Link

`helpers.create_deep_linked_url(payload)`

Creating a deep link for the bot.

Parameters

- **bot_username** (`str`) – The username of bot.
- **payload** (`str`) – The Payload of deep link

5.3 Change Log

Project changes are shown on this page.

5.3.1 v2.4.6

New Features

- Components have been moved to *ui*
- Improve the process of using Components and Files
- Add new method `bale.Bot.send_audio()`
- Support from 400 status code Errors in `bale.HTTPClient`
- Full support from “Bale” rate limits
- Add `bale.Message.attachment`, `bale.Components.menu_keyboards`, `bale.Components.inline_keyboards`
- Update License to LGP
- Improve documentation
- Update `examples` directory

Bug Fixes

- Fix bug of stopping the Bot
- Fix the problem of `bale.Bot.send_invoice()` & `bale.Bot.send_video()` checkers

5.3.2 v2.4.5

New Features

- Improve documentation
- Add new methods (`bale.Bot.forward_message()`, `bale.Bot.ban_chat_member()`, `bale.Bot.send_video()`)
- Add new event `bale.Bot.on_edited_message()`

Bug Fixes

- Fix bugs in parse Updates
- `Updater.__lock` bug
- `bale.Update.type` bugs
- Fix `bale.Chat.invite_link` bugs
- Improving the `bale.Message` class (`__eq__`, `__ne__`, `__repr__`)
- Add new type `channel` to `bale.ChatType`

5.3.3 v2.4.4

New Features

- Improve the `bale.RateLimit` object
- Add new `bale.Updater`
- Adding the method of `bale.Bot.send_location()` and `bale.Bot.send_contact()`
- Update Readme file

Bug Fixes

- Fix `http` error
- Fix `bale.EventType.BEFORE_READY` and `bale.on_before_ready()` bug
- Fix bot closing problem

5.3.4 v2.4.3

Bug Fixes

- Changes in some functions and commands
- Add `bale.Bot.download_file()` for Download files with `file_id`
- Update `LICENSE`
- Improve Code Quality

5.3.5 v2.4.2

Bug Fixes

- Changes in some functions and commands
- Improve Code Quality

5.3.6 v2.4.1

New Features

- Add updater param to *bale.Bot* for Custom-Updater
- Add *bale.Message.type* & support *bale.UpdateType* from it
- Update Readme file

Bug Fixes

- Improve Code Quality

5.3.7 v2.4.0

New Features

- New changes for better Connections
- Synchronization of Exceptions with document
- Add Support from local rate limits
- Add support from *bale.HTTPClient* errors

Advance

- Add a Response Parser for connections
- Add Type Checker to All functions
- Add new supporter class for Rate Limits
- Synchronization of methods and Improve Code in many Models (*bale.User*, *bale.Chat*, *bale.Bot*, *bale.Message*)
- Add *bale.User.chat_id*
- Add *bale.error.RateLimited* Error
- Add *sleep_after_every_get_updates* param to *bale.Bot.run()* and *bale.Bot.start()*

Bug Fixes

- Improve Code Quality

5.3.8 v2.3.2

New Features

- Add new methods `bale.Bot.get_user()` and `bale.Bot.invite_to_chat()` function
- Support `bale.Chat.invite_to_chat()` from `bale.Bot.get_user()`
- Add `bale.Chat.mention` and `bale.Chat.link` property to `bale.Chat`
- Add `bale.CallbackQuery.user` property to `bale.CallbackQuery` . `bale.CallbackQuery.user` is a aliases for `bale.CallbackQuery.from_user`.
- Add `on_member_chat_join` and `on_member_chat_leave` events
- Add `bale.MemberRole.is_admin()` and `bale.MemberRole.is_owner()` function to `bale.MemberRole`
- Add `save` and `read` function to be `bale.Document`
- Add `get_file` function to `bale.HTTPClient`

Bug Fixes

- Fixed some function in `bale.Bot`
- Fixed Bad Request error in `bale.Bot.get_chat()`
- Fixed `on_ready` event bug
- Fixed `bale.Bot.get_chat()` bugs

5.4 Examples

In this section, there are some robots that are written with python-bale-bot.

5.4.1 examples.basic

This robot will answer you with only some commands.

5.4.2 examples.inlinemarkup

This example sheds some light on inline keyboards, callback queries and message editing.

5.4.3 examples.attachment

A basic example of a bot that can send media

5.4.4 examples.invoice

A basic example of a bot that can accept payments.

5.4.5 examples.conversation

A common task for a bot is to ask information from the user.

A

add_event() (*bale.Bot* method), 11
 add_inline_keyboard() (*bale.Components* method), 30
 add_menu_keyboard() (*bale.Components* method), 30
 add_user() (*bale.Chat* method), 25
 all_members_are_administrators (*bale.Chat* attribute), 25
 amount (*bale.Price* attribute), 33
 attachment (*bale.Message* property), 23
 audio (*bale.Message* attribute), 22
 Audio (*class in bale*), 34
 author (*bale.Message* property), 23

B

ban() (*bale.ChatMember* method), 28
 ban_chat_member() (*bale.Bot* method), 11
 ban_chat_member() (*bale.Chat* method), 25
 base_file (*bale.File* property), 36
 Bot (*class in bale*), 11

C

callback_data (*bale.InlineKeyboard* attribute), 31
 callback_id (*bale.CallbackQuery* attribute), 27
 callback_query (*bale.Update* attribute), 29
 CallbackQuery (*class in bale*), 27
 caption (*bale.Message* attribute), 22
 chat (*bale.Message* attribute), 21
 Chat (*class in bale*), 24
 chat_id (*bale.Chat* attribute), 24
 chat_id (*bale.Message* property), 23
 chat_id (*bale.User* property), 26
 ChatMember (*class in bale*), 28
 close() (*bale.Bot* method), 12
 Components (*class in bale*), 30
 contact (*bale.Message* attribute), 22
 ContactMessage (*class in bale*), 34
 content (*bale.Message* property), 23
 create_deep_linked_url() (*bale.helpers* method), 39
 currency (*bale.Invoice* attribute), 32
 currency (*bale.SuccessfulPayment* attribute), 33

D

data (*bale.CallbackQuery* attribute), 27
 date (*bale.Message* attribute), 21
 delete() (*bale.Message* method), 23
 delete_message() (*bale.Bot* method), 12
 delete_webhook() (*bale.Bot* method), 12
 description (*bale.Invoice* attribute), 32
 document (*bale.Message* attribute), 22
 Document (*class in bale*), 35
 duration (*bale.Audio* attribute), 34
 duration (*bale.Video* attribute), 38

E

edit() (*bale.Message* method), 23
 edit_message() (*bale.Bot* method), 12
 edited_message (*bale.Update* attribute), 29
 event() (*bale.Bot* method), 13
 extra (*bale.File* attribute), 36

F

File (*class in bale*), 35
 file_id (*bale.Audio* attribute), 34
 file_id (*bale.Document* attribute), 35
 file_id (*bale.File* attribute), 35
 file_id (*bale.Photo* attribute), 37
 file_id (*bale.Video* attribute), 38
 file_name (*bale.Document* attribute), 35
 file_size (*bale.Audio* attribute), 34
 file_size (*bale.Document* attribute), 35
 file_size (*bale.File* attribute), 35
 file_size (*bale.Photo* attribute), 37
 file_size (*bale.Video* attribute), 38
 file_type (*bale.File* attribute), 35
 first_name (*bale.Chat* attribute), 24
 first_name (*bale.ContactMessage* attribute), 34
 first_name (*bale.User* attribute), 26
 forward() (*bale.Message* method), 23
 forward_from (*bale.Message* attribute), 22
 forward_from_chat (*bale.Message* attribute), 22
 forward_message() (*bale.Bot* method), 13
 from_dict() (*bale.Permissions* class method), 29
 from_user (*bale.CallbackQuery* attribute), 27

from_user (*bale.Message* attribute), 21

G

get() (*bale.File* method), 36
get_bot() (*bale.Bot* method), 13
get_chat() (*bale.Bot* method), 13
get_chat_administrators() (*bale.Bot* method), 14
get_chat_administrators() (*bale.Chat* method), 25
get_chat_member() (*bale.Bot* method), 14
get_chat_member() (*bale.Chat* method), 25
get_chat_members_count() (*bale.Bot* method), 14
get_chat_members_count() (*bale.Chat* method), 25
get_file() (*bale.Bot* method), 15
get_user() (*bale.Bot* method), 15

H

height (*bale.Photo* attribute), 37
height (*bale.Video* attribute), 38

I

inline_keyboards (*bale.Components* property), 30
inline_message_id (*bale.CallbackQuery* attribute), 27
InlineKeyboard (*class in bale*), 31
InputFile (*class in bale*), 36
invite_link (*bale.Chat* attribute), 25
invite_user() (*bale.Bot* method), 15
invoice (*bale.Message* attribute), 23
Invoice (*class in bale*), 32
invoice_payload (*bale.SuccessfulPayment* attribute), 33
is_bot (*bale.User* attribute), 26
is_closed() (*bale.Bot* method), 16

L

label (*bale.Price* attribute), 33
last_name (*bale.Chat* attribute), 24
last_name (*bale.ContactMessage* attribute), 34
last_name (*bale.User* attribute), 26
latitude (*bale.Location* attribute), 37
leave() (*bale.Chat* method), 25
leave_chat() (*bale.Bot* method), 16
left_chat_member (*bale.Message* attribute), 23
link (*bale.Location* property), 37
listen() (*bale.Bot* method), 16
location (*bale.Message* attribute), 22
Location (*class in bale*), 37
longitude (*bale.Location* attribute), 37

M

mention (*bale.User* property), 26
menu_keyboards (*bale.Components* property), 30
MenuKeyboard (*class in bale*), 31
message (*bale.CallbackQuery* attribute), 27

message (*bale.Update* attribute), 29
Message (*class in bale*), 21
message_id (*bale.Message* attribute), 21
mime_type (*bale.Audio* attribute), 34
mime_type (*bale.Document* attribute), 35
mime_type (*bale.File* attribute), 35
mime_type (*bale.Video* attribute), 38

N

new_chat_members (*bale.Message* attribute), 22

O

on_error() (*bale.Bot* method), 16

P

parsed_status (*bale.ChatMember* property), 28
parsed_type (*bale.Chat* property), 25
payload (*bale.SuccessfulPayment* property), 33
permissions (*bale.ChatMember* attribute), 28
Permissions (*class in bale*), 28
phone_number (*bale.ContactMessage* attribute), 34
Photo (*class in bale*), 37
pinned_message (*bale.Chat* attribute), 24
Price (*class in bale*), 33

R

remove_inline_keyboard() (*bale.Components* method), 30
remove_menu_keyboard() (*bale.Components* method), 30
reply() (*bale.Message* method), 23
reply_audio() (*bale.Message* method), 23
reply_document() (*bale.Message* method), 23
reply_photo() (*bale.Message* method), 23
reply_to_message (*bale.Message* attribute), 22
reply_to_message_id (*bale.Message* property), 24
reply_video() (*bale.Message* method), 24
request_contact (*bale.MenuKeyboard* attribute), 31
request_location (*bale.MenuKeyboard* attribute), 32
run() (*bale.Bot* method), 16

S

save_to_memory() (*bale.File* method), 36
send() (*bale.Chat* method), 25
send() (*bale.User* method), 26
send_audio() (*bale.Bot* method), 16
send_audio() (*bale.Chat* method), 25
send_audio() (*bale.User* method), 26
send_contact() (*bale.Bot* method), 17
send_contact() (*bale.Chat* method), 25
send_contact() (*bale.User* method), 27
send_document() (*bale.Bot* method), 17
send_document() (*bale.Chat* method), 25

send_document() (*bale.User method*), 27
 send_invoice() (*bale.Bot method*), 17
 send_invoice() (*bale.Chat method*), 25
 send_invoice() (*bale.User method*), 27
 send_location() (*bale.Bot method*), 18
 send_location() (*bale.Chat method*), 25
 send_location() (*bale.User method*), 27
 send_message() (*bale.Bot method*), 19
 send_photo() (*bale.Bot method*), 19
 send_photo() (*bale.Chat method*), 26
 send_photo() (*bale.User method*), 27
 send_video() (*bale.Bot method*), 20
 send_video() (*bale.Chat method*), 26
 send_video() (*bale.User method*), 27
 set_webhook() (*bale.Bot method*), 20
 shipping_option_id (*bale.SuccessfulPayment attribute*), 33
 start_parameter (*bale.Invoice attribute*), 32
 status (*bale.ChatMember attribute*), 28
 successful_payment (*bale.Message attribute*), 23
 SuccessfulPayment (*class in bale*), 33
 switch_inline_query (*bale.InlineKeyboard attribute*), 31
 switch_inline_query_current_chat (*bale.InlineKeyboard attribute*), 31

T

text (*bale.InlineKeyboard attribute*), 31
 text (*bale.MenuKeyboard attribute*), 31
 text (*bale.Message attribute*), 21
 title (*bale.Audio attribute*), 34
 title (*bale.Chat attribute*), 24
 title (*bale.Invoice attribute*), 32
 to_input_file() (*bale.File method*), 36
 total_amount (*bale.Invoice attribute*), 32
 total_amount (*bale.SuccessfulPayment attribute*), 33
 type (*bale.Chat attribute*), 24
 type (*bale.File property*), 36

U

Update (*class in bale*), 29
 update_id (*bale.Update attribute*), 29
 url (*bale.InlineKeyboard attribute*), 31
 user (*bale.Bot property*), 20
 user (*bale.CallbackQuery property*), 28
 user (*bale.ChatMember attribute*), 28
 User (*class in bale*), 26
 user_id (*bale.User attribute*), 26
 username (*bale.Chat attribute*), 24
 username (*bale.User attribute*), 26

V

video (*bale.Message attribute*), 22
 Video (*class in bale*), 38

W

wait_for() (*bale.Bot method*), 20
 width (*bale.Photo attribute*), 37
 width (*bale.Video attribute*), 38