line-bot-sdk-python Documentation

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RyosukeHasebe

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CHAPTER

ONE

LINEBOT PACKAGE

1.1 linebot.api module

linebot.api module.

class linebot.api.**LineBotApi**(*channel_access_token*, *endpoint='https://api.line.me'*, *data_endpoint='https://api-data.line.me'*, *timeout=5*, *http_client=<class 'linebot.http_client.RequestsHttpClient'>*)

Bases: object

LineBotApi provides interface for LINE messaging API.

DEFAULT_API_ENDPOINT = 'https://api.line.me'

DEFAULT_API_DATA_ENDPOINT = 'https://api-data.line.me'

__init__(*channel_access_token*, *endpoint='https://api.line.me'*, *data_endpoint='https://api-data.line.me'*, *timeout=5*, *http_client=<class 'linebot.http_client.RequestsHttpClient'>*)

__init__ method.

Parameters

- **channel_access_token** (*str*) – Your channel access token
- **endpoint** (*str*) – (optional) Default is https://api.line.me
- **data_endpoint** (*str*) – (optional) Default is https://api-data.line.me
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is linebot.http_client.HttpClient.DEFAULT_TIMEOUT
- **http_client** (T <= *linebot.http_client.HttpClient*) – (optional) Default is *linebot.http_client.RequestsHttpClient*

reply_message(*reply_token*, *messages*, *notification_disabled=False*, *timeout=None*)

Call reply message API.

https://developers.line.biz/en/reference/messaging-api/#send-reply-message

Respond to events from users, groups, and rooms.

Webhooks are used to notify you when an event occurs. For events that you can respond to, a replyToken is issued for replying to messages.

Because the replyToken becomes invalid after a certain period of time, responses should be sent as soon as a message is received.

Reply tokens can only be used once.

Parameters

- **reply_token** (*str*) – replyToken received via webhook
- **messages** (T <= *linebot.models.send_messages.SendMessage* | list[T <= *linebot.models.send_messages.SendMessage*]) – Messages. Max: 5
- **notification_disabled** (*bool*) – (optional) True to disable push notification when the message is sent. The default value is False.
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

push_message(*to*, *messages*, *notification_disabled=False*, *timeout=None*)

Call push message API.

https://developers.line.biz/en/reference/messaging-api/#send-push-message

Send messages to users, groups, and rooms at any time.

Parameters

- **to** (*str*) – ID of the receiver
- **messages** (T <= *linebot.models.send_messages.SendMessage* | list[T <= *linebot.models.send_messages.SendMessage*]) – Messages. Max: 5
- **notification_disabled** (*bool*) – (optional) True to disable push notification when the message is sent. The default value is False.
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

multicast(*to*, *messages*, *notification_disabled=False*, *timeout=None*)

Call multicast API.

https://developers.line.biz/en/reference/messaging-api/#send-multicast-message

Sends push messages to multiple users at any time. Messages cannot be sent to groups or rooms.

Parameters

- **to** (*list[str]*) – IDs of the receivers Max: 150 users
- **messages** (T <= *linebot.models.send_messages.SendMessage* | list[T <= *linebot.models.send_messages.SendMessage*]) – Messages. Max: 5
- **notification_disabled** (*bool*) – (optional) True to disable push notification when the message is sent. The default value is False.
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

broadcast(*messages*, *notification_disabled=False*, *timeout=None*)

Call broadcast API.

https://developers.line.biz/en/reference/messaging-api/#send-broadcast-message

Sends push messages to multiple users at any time.

Parameters

- **messages** (T <= *linebot.models.send_messages.SendMessage* | list[T <= *linebot.models.send_messages.SendMessage*]) – Messages. Max: 5
- **notification_disabled** (*bool*) – (optional) True to disable push notification when the message is sent. The default value is False.
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

get_message_delivery_broadcast(*date*, *timeout=None*)

Get number of sent broadcast messages.

https://developers.line.biz/en/reference/messaging-api/#get-number-of-broadcast-messages

Gets the number of messages sent with the /bot/message/broadcast endpoint.

Parameters

- **date** (*str*) – Date the messages were sent. The format is *yyyyMMdd* (Timezone is UTC+9).
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type *linebot.models.responses.MessageDeliveryBroadcastResponse*

get_message_delivery_reply(*date*, *timeout=None*)

Get number of sent reply messages.

https://developers.line.biz/en/reference/messaging-api/#get-number-of-reply-messages

Gets the number of messages sent with the /bot/message/reply endpoint.

Parameters

- **date** (*str*) – Date the messages were sent. The format is *yyyyMMdd* (Timezone is UTC+9).
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type *linebot.models.responses.MessageDeliveryReplyResponse*

get_message_delivery_push(*date*, *timeout=None*)

Get number of sent push messages.

https://developers.line.biz/en/reference/messaging-api/#get-number-of-push-messages

Gets the number of messages sent with the /bot/message/push endpoint.

Parameters

- **date** (*str*) – Date the messages were sent. The format is *yyyyMMdd* (Timezone is UTC+9).
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type *linebot.models.responses.MessageDeliveryPushResponse*

get_message_delivery_multicast(*date*, *timeout=None*)
Get number of sent multicast messages.

https://developers.line.biz/en/reference/messaging-api/#get-number-of-multicast-messages

Gets the number of messages sent with the /bot/message/multicast endpoint.

Parameters

- **date** (*str*) – Date the messages were sent. The format is *yyyyMMdd* (Timezone is UTC+9).
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type *linebot.models.responses.MessageDeliveryMulticastResponse*

get_profile(*user_id*, *timeout=None*)
Call get profile API.

https://developers.line.biz/en/reference/messaging-api/#get-profile

Get user profile information.

Parameters

- **user_id** (*str*) – User ID
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type *linebot.models.responses.Profile*

Returns Profile instance

get_group_member_profile(*group_id*, *user_id*, *timeout=None*)
Call get group member profile API.

https://developers.line.biz/en/reference/messaging-api/#get-group-member-profile

Gets the user profile of a member of a group that the bot is in. This can be the user ID of a user who has not added the bot as a friend or has blocked the bot.

Parameters

- **group_id** (*str*) – Group ID
- **user_id** (*str*) – User ID
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type *linebot.models.responses.Profile*

Returns Profile instance

get_room_member_profile(*room_id*, *user_id*, *timeout=None*)
Call get room member profile API.

https://developers.line.biz/en/reference/messaging-api/#get-room-member-profile

Gets the user profile of a member of a room that the bot is in. This can be the user ID of a user who has not added the bot as a friend or has blocked the bot.

Parameters

- **room_id** (*str*) – Room ID
- **user_id** (*str*) – User ID
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type *linebot.models.responses.Profile*

Returns Profile instance

get_group_member_ids(*group_id*, *start=None*, *timeout=None*)
Call get group member IDs API.

https://developers.line.biz/en/reference/messaging-api/#get-group-member-ids

Gets the user IDs of the members of a group that the bot is in. This includes the user IDs of users who have not added the bot as a friend or has blocked the bot.

Parameters

- **group_id** (*str*) – Group ID
- **start** (*str*) – continuationToken
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type *linebot.models.responses.MemberIds*

Returns MemberIds instance

get_room_member_ids(*room_id*, *start=None*, *timeout=None*)
Call get room member IDs API.

https://developers.line.biz/en/reference/messaging-api/#get-room-member-ids

Gets the user IDs of the members of a group that the bot is in. This includes the user IDs of users who have not added the bot as a friend or has blocked the bot.

Parameters

- **room_id** (*str*) – Room ID
- **start** (*str*) – continuationToken
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type *linebot.models.responses.MemberIds*

Returns MemberIds instance

get_message_content(*message_id*, *timeout=None*)
Call get content API.

https://developers.line.biz/en/reference/messaging-api/#get-content

Retrieve image, video, and audio data sent by users.

Parameters

- **message_id** (*str*) – Message ID

- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type *linebot.models.responses.Content*

Returns Content instance

leave_group(*group_id*, *timeout=None*)
Call leave group API.

https://developers.line.biz/en/reference/messaging-api/#leave-group

Leave a group.

Parameters

- **group_id** (*str*) – Group ID
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

leave_room(*room_id*, *timeout=None*)
Call leave room API.

https://developers.line.biz/en/reference/messaging-api/#leave-room

Leave a room.

Parameters

- **room_id** (*str*) – Room ID
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

get_rich_menu(*rich_menu_id*, *timeout=None*)
Call get rich menu API.

https://developers.line.me/en/docs/messaging-api/reference/#get-rich-menu

Parameters

- **rich_menu_id** (*str*) – ID of the rich menu
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type *linebot.models.responses.RichMenuResponse*

Returns RichMenuResponse instance

create_rich_menu(*rich_menu*, *timeout=None*)
Call create rich menu API.

https://developers.line.me/en/docs/messaging-api/reference/#create-rich-menu

Parameters

- **rich_menu** (T <= *linebot.models.rich_menu.RichMenu*) – Inquired to create a rich menu object.

- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type str

Returns rich menu id

delete_rich_menu(*rich_menu_id*, *timeout=None*)
Call delete rich menu API.

https://developers.line.me/en/docs/messaging-api/reference/#delete-rich-menu

Parameters

- **rich_menu_id** (*str*) – ID of an uploaded rich menu
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

get_rich_menu_id_of_user(*user_id*, *timeout=None*)
Call get rich menu ID of user API.

https://developers.line.me/en/docs/messaging-api/reference/#get-rich-menu-id-of-user

Parameters

- **user_id** (*str*) – IDs of the user
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type str

Returns rich menu id

link_rich_menu_to_user(*user_id*, *rich_menu_id*, *timeout=None*)
Call link rich menu to user API.

https://developers.line.me/en/docs/messaging-api/reference/#link-rich-menu-to-user

Parameters

- **user_id** (*str*) – ID of the user
- **rich_menu_id** (*str*) – ID of an uploaded rich menu
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

link_rich_menu_to_users(*user_ids*, *rich_menu_id*, *timeout=None*)
Links a rich menu to multiple users.

https://developers.line.biz/en/reference/messaging-api/#link-rich-menu-to-users

Parameters

- **user_ids** (*list[str]*) – user IDs Max: 150 users
- **rich_menu_id** (*str*) – ID of an uploaded rich menu
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

unlink_rich_menu_from_user(*user_id*, *timeout=None*)
Call unlink rich menu from user API.

https://developers.line.me/en/docs/messaging-api/reference/#unlink-rich-menu-from-user

Parameters

- **user_id** (*str*) – ID of the user
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

unlink_rich_menu_from_users(*user_ids*, *timeout=None*)
Unlinks rich menus from multiple users.

https://developers.line.biz/en/reference/messaging-api/#unlink-rich-menu-from-users

Parameters

- **user_ids** (*list[str]*) – user IDs Max: 150 users
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

get_rich_menu_image(*rich_menu_id*, *timeout=None*)
Call download rich menu image API.

https://developers.line.me/en/docs/messaging-api/reference/#download-rich-menu-image

Parameters

- **rich_menu_id** (*str*) – ID of the rich menu with the image to be downloaded
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type *linebot.models.responses.Content*

Returns Content instance

set_rich_menu_image(*rich_menu_id*, *content_type*, *content*, *timeout=None*)
Call upload rich menu image API.

https://developers.line.me/en/docs/messaging-api/reference/#upload-rich-menu-image

Uploads and attaches an image to a rich menu.

Parameters

- **rich_menu_id** (*str*) – IDs of the richmenu
- **content_type** (*str*) – image/jpeg or image/png
- **content** – image content as bytes, or file-like object
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

get_rich_menu_list(*timeout=None*)
Call get rich menu list API.

https://developers.line.me/en/docs/messaging-api/reference/#get-rich-menu-list

Parameters **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type list(T <= *linebot.models.responses.RichMenuResponse*)

Returns list[RichMenuResponse] instance

set_default_rich_menu(*rich_menu_id*, *timeout=None*)
Set the default rich menu.

https://developers.line.biz/en/reference/messaging-api/#set-default-rich-menu

Parameters

- **rich_menu_id** (*str*) – ID of an uploaded rich menu
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

get_default_rich_menu(*timeout=None*)
Get the ID of the default rich menu set with the Messaging API.

https://developers.line.biz/en/reference/messaging-api/#get-default-rich-menu-id

Parameters **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

cancel_default_rich_menu(*timeout=None*)
Cancel the default rich menu set with the Messaging API.

https://developers.line.biz/en/reference/messaging-api/#cancel-default-rich-menu

Parameters **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

get_message_quota(*timeout=None*)
Call Get the target limit for additional messages.

https://developers.line.biz/en/reference/messaging-api/#get-quota

Parameters **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type *linebot.models.responses.MessageQuotaResponse*

Returns MessageQuotaResponse instance

get_message_quota_consumption(*timeout=None*)
Get number of messages sent this month.

https://developers.line.biz/en/reference/messaging-api/#get-consumption

Parameters **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type *linebot.models.responses.MessageQuotaConsumptionResponse*

Returns MessageQuotaConsumptionResponse instance

issue_link_token(*user_id*, *timeout=None*)
Issues a link token used for the account link feature.

https://developers.line.biz/en/reference/messaging-api/#issue-link-token

Parameters

- **user_id** (*str*) – User ID for the LINE account to be linked
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type *linebot.models.responses.IssueLinkTokenResponse*

Returns IssueLinkTokenResponse instance

issue_channel_token(*client_id*, *client_secret*, *grant_type='client_credentials'*, *timeout=None*)
Issues a short-lived channel access token.

https://developers.line.biz/en/reference/messaging-api/#issue-channel-access-token

Parameters

- **client_id** (*str*) – Channel ID.
- **client_secret** (*str*) – Channel secret.
- **grant_type** (*str*) – *client_credentials*
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type *linebot.models.responses.IssueChannelTokenResponse*

Returns IssueChannelTokenResponse instance

revoke_channel_token(*access_token*, *timeout=None*)
Revokes a channel access token.

https://developers.line.biz/en/reference/messaging-api/#revoke-channel-access-token

Parameters

- **access_token** (*str*) – Channel access token.
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

get_insight_message_delivery(*date*, *timeout=None*)
Get the number of messages sent on a specified day.

https://developers.line.biz/en/reference/messaging-api/#get-number-of-delivery-messages

Parameters

- **date** (*str*) – Date for which to retrieve number of sent messages.
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type *linebot.models.responses.InsightMessageDeliveryResponse*

get_insight_followers(*date*, *timeout=None*)
Get the number of users who have added the bot on or before a specified date.

https://developers.line.biz/en/reference/messaging-api/#get-number-of-followers

Parameters

- **date** (*str*) – Date for which to retrieve the number of followers.
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type *linebot.models.responses.InsightFollowersResponse*

get_insight_demographic(*timeout=None*)
Retrieve the demographic attributes for a bot's friends.

https://developers.line.biz/en/reference/messaging-api/#get-demographic

Parameters **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type *linebot.models.responses.InsightDemographicResponse*

get_insight_message_event(*request_id*, *timeout=None*)
Return statistics about how users interact with broadcast messages.

https://developers.line.biz/en/reference/messaging-api/#get-message-event

Parameters

- **request_id** (*str*) – Request ID of broadcast message.
- **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is self.http_client.timeout

Return type *linebot.models.responses.InsightMessageEventResponse*

1.2 linebot.webhook module

linebot.webhook module.

class linebot.webhook.**SignatureValidator**(*channel_secret*)
Bases: object

Signature validator.

https://developers.line.biz/en/reference/messaging-api/#signature-validation

__init__(*channel_secret*)
__init__ method.

Parameters **channel_secret** (*str*) – Channel secret (as text)

validate(*body*, *signature*)
Check signature.

Parameters

- **body** (*str*) – Request body (as text)

- **signature** (*str*) – X-Line-Signature value (as text)

Return type bool

class linebot.webhook.**WebhookPayload**(*events=None*, *destination=None*)
Bases: object

Webhook Payload.

https://developers.line.biz/en/reference/messaging-api/#request-body

__init__(*events=None*, *destination=None*)
__init__ method.

Parameters

- **events** (list[T <= *linebot.models.events.Event*]) – Information about the events.
- **destination** (*str*) – User ID of a bot that should receive webhook events.

class linebot.webhook.**WebhookParser**(*channel_secret*)
Bases: object

Webhook Parser.

__init__(*channel_secret*)
__init__ method.

Parameters **channel_secret** (*str*) – Channel secret (as text)

parse(*body*, *signature*, *as_payload=False*)
Parse webhook request body as text.

Parameters

- **body** (*str*) – Webhook request body (as text)
- **signature** (*str*) – X-Line-Signature value (as text)
- **as_payload** (*bool*) – (optional) True to return WebhookPayload object.

Return type list[T <= *linebot.models.events.Event*] | *linebot.webhook.WebhookPayload*

Returns Events list, or WebhookPayload instance

class linebot.webhook.**WebhookHandler**(*channel_secret*)
Bases: object

Webhook Handler.

Please read https://github.com/line/line-bot-sdk-python#webhookhandler

__init__(*channel_secret*)
__init__ method.

Parameters **channel_secret** (*str*) – Channel secret (as text)

add(*event*, *message=None*)
[Decorator] Add handler method.

Parameters

- **event** (T <= *linebot.models.events.Event* class) – Specify a kind of Event which you want to handle

- **message** – (optional) If event is MessageEvent, specify kind of Messages which you want to handle

Type message: T <= *linebot.models.messages.Message* class

Return type func

Returns decorator

default()
[Decorator] Set default handler method.

Return type func

Returns decorator

handle(*body*, *signature*)
Handle webhook.

Parameters

- **body** (*str*) – Webhook request body (as text)
- **signature** (*str*) – X-Line-Signature value (as text)

1.3 linebot.exceptions module

linebot.exceptions module.

exception linebot.exceptions.**BaseError**(*message='-'*)
Bases: Exception

Base Exception class.

__init__(*message='-'*)
__init__ method.

Parameters **message** (*str*) – Human readable message

exception linebot.exceptions.**InvalidSignatureError**(*message='-'*)
Bases: *linebot.exceptions.BaseError*

When Webhook signature does NOT match, this error will be raised.

__init__(*message='-'*)
__init__ method.

Parameters **message** (*str*) – Human readable message

exception linebot.exceptions.**LineBotApiError**(*status_code*, *headers*, *request_id=None*, *error=None*)
Bases: *linebot.exceptions.BaseError*

When LINE Messaging API response error, this error will be raised.

__init__(*status_code*, *headers*, *request_id=None*, *error=None*)
__init__ method.

Parameters

- **status_code** (*int*) – HTTP status code
- **headers** (*dict[str, str]*) – Response headers
- **request_id** (*str*) – (optional) Request ID. A unique ID is generated for each request

- **error** (*linebot.models.error.Error*) – (optional) Error class object.

1.4 linebot.http_client module

linebot.http_client module.

class linebot.http_client.**HttpClient**(*timeout=5*)
Bases: object

Abstract Base Classes of HttpClient.

DEFAULT_TIMEOUT = 5

__init__(*timeout=5*)
__init__ method.

Parameters **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is *DEFAULT_TIMEOUT*

Return type T <= *HttpResponse*

Returns HttpResponse instance

abstract get(*url*, *headers=None*, *params=None*, *stream=False*, *timeout=None*)
GET request.

Parameters

- **url** (*str*) – Request url
- **headers** (*dict*) – (optional) Request headers
- **params** (*dict*) – (optional) Request query parameter
- **stream** (*bool*) – (optional) get content as stream
- **timeout** (*float | tuple(float, float)*) – (optional), How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is `self.timeout`

Return type T <= *HttpResponse*

Returns HttpResponse instance

abstract post(*url*, *headers=None*, *data=None*, *timeout=None*)
POST request.

Parameters

- **url** (*str*) – Request url
- **headers** (*dict*) – (optional) Request headers
- **data** – (optional) Dictionary, bytes, or file-like object to send in the body
- **timeout** (*float | tuple(float, float)*) – (optional), How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is `self.timeout`

Return type T <= *HttpResponse*

Returns HttpResponse instance

abstract delete(*url*, *headers=None*, *data=None*, *timeout=None*)
DELETE request.

Parameters

- **url** (*str*) – Request url
- **headers** (*dict*) – (optional) Request headers
- **data** – (optional) Dictionary, bytes, or file-like object to send in the body
- **timeout** (*float | tuple(float, float)*) – (optional), How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is `self.timeout`

Return type T <= *HttpResponse*

Returns HttpResponse instance

class linebot.http_client.**RequestsHttpClient**(*timeout=5*)
Bases: *linebot.http_client.HttpClient*

HttpClient implemented by requests.

__init__(*timeout=5*)
__init__ method.

Parameters **timeout** (*float | tuple(float, float)*) – (optional) How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is `DEFAULT_TIMEOUT`

get(*url*, *headers=None*, *params=None*, *stream=False*, *timeout=None*)
GET request.

Parameters

- **url** (*str*) – Request url
- **headers** (*dict*) – (optional) Request headers
- **params** (*dict*) – (optional) Request query parameter
- **stream** (*bool*) – (optional) get content as stream
- **timeout** (*float | tuple(float, float)*) – (optional), How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is `self.timeout`

Return type *RequestsHttpResponse*

Returns RequestsHttpResponse instance

post(*url*, *headers=None*, *data=None*, *timeout=None*)
POST request.

Parameters

- **url** (*str*) – Request url
- **headers** (*dict*) – (optional) Request headers
- **data** – (optional) Dictionary, bytes, or file-like object to send in the body
- **timeout** (*float | tuple(float, float)*) – (optional), How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is `self.timeout`

Return type *RequestsHttpResponse*

Returns RequestsHttpResponse instance

delete(*url*, *headers=None*, *data=None*, *timeout=None*)
DELETE request.

Parameters

- **url** (*str*) – Request url
- **headers** (*dict*) – (optional) Request headers
- **data** – (optional) Dictionary, bytes, or file-like object to send in the body
- **timeout** (*float | tuple(float, float)*) – (optional), How long to wait for the server to send data before giving up, as a float, or a (connect timeout, read timeout) float tuple. Default is `self.timeout`

Return type *RequestsHttpResponse*

Returns RequestsHttpResponse instance

class linebot.http_client.**HttpResponse**
Bases: `object`

HttpResponse.

abstract property status_code
Get status code.

abstract property headers
Get headers.

abstract property text
Get response body as text-decoded.

abstract property content
Get response body as binary.

abstract property json
Get response body as json-decoded.

abstract iter_content(*chunk_size=1024*, *decode_unicode=False*)
Get response body as iterator content (stream).

Parameters

- **chunk_size** (*int*) –
- **decode_unicode** (*bool*) –

class linebot.http_client.**RequestsHttpResponse**(*response*)
Bases: *linebot.http_client.HttpResponse*

HttpResponse implemented by requests lib's response.

__init__(*response*)
__init__ method.

Parameters **response** – requests lib's response

property status_code
Get status code.

property headers
Get headers.

:rtype requests.models.CaseInsensitiveDict

property text
Get response body as text-decoded.

property content
Get response body as binary.

property json
Get response body as json-decoded.

iter_content(*chunk_size=1024*, *decode_unicode=False*)
Get response body as iterator content (stream).

Parameters

- **chunk_size** (*int*) –
- **decode_unicode** (*bool*) –

1.5 Subpackages

1.5.1 linebot.models package

1.5.1.1 linebot.models.actions module

linebot.models.actions module.

class linebot.models.actions.**Action**(***kwargs*)
Bases: *linebot.models.base.Base*

Abstract base class of Action.

__init__(***kwargs*)
__init__ method.

Parameters **kwargs** –

class linebot.models.actions.**PostbackAction**(*label=None*, *data=None*, *display_text=None*, *text=None*, ***kwargs*)
Bases: *linebot.models.actions.Action*

PostbackAction.

https://developers.line.me/en/docs/messaging-api/reference/#postback-action

When a control associated with this action is tapped, a postback event is returned via webhook with the specified string in the data property.

__init__(*label=None*, *data=None*, *display_text=None*, *text=None*, ***kwargs*)
__init__ method.

Parameters

- **label** (*str*) – Label for the action.
- **data** (*str*) – String returned via webhook in the postback.data property of the postback event.

- **display_text** (*str*) – Text displayed in the chat as a message sent by the user when the action is performed.
- **text** (*str*) – Deprecated. Text displayed in the chat as a message sent by the user when the action is performed. Returned from the server through a webhook.
- **kwargs** –

class linebot.models.actions.**MessageAction**(*label=None*, *text=None*, ***kwargs*)

Bases: *linebot.models.actions.Action*

MessageAction.

https://developers.line.me/en/docs/messaging-api/reference/#message-action

When a control associated with this action is tapped, the string in the text property is sent as a message from the user.

__init__(*label=None*, *text=None*, ***kwargs*)

__init__ method.

Parameters

- **label** (*str*) – Label for the action.
- **text** (*str*) – Text sent when the action is performed.
- **kwargs** –

class linebot.models.actions.**URIAction**(*label=None*, *uri=None*, *alt_uri=None*, ***kwargs*)

Bases: *linebot.models.actions.Action*

URIAction.

https://developers.line.me/en/docs/messaging-api/reference/#uri-action

When a control associated with this action is tapped, the URI specified in the uri property is opened.

__init__(*label=None*, *uri=None*, *alt_uri=None*, ***kwargs*)

__init__ method.

Parameters

- **label** (*str*) – Label for the action Max: 20 characters
- **uri** (*str*) – URI opened when the action is performed.
- **alt_uri** (T <= *linebot.models.actions.AltUri*) – URI opened when the desktop app.
- **kwargs** –

class linebot.models.actions.**AltUri**(*desktop=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

AltUri.

https://github.com/line/line-bot-sdk-python/issues/155

URI opened when the desktop app.

__init__(*desktop=None*, ***kwargs*)

__init__ method.

Parameters

- **desktop** (*str*) – URI opened on LINE for macOS and Windows when the action is performed. If the altUri.desktop property is set, the uri property is ignored on LINE for macOS and Windows.
- **kwargs** –

class linebot.models.actions.**DatetimePickerAction**(*label=None*, *data=None*, *mode=None*, *initial=None*, *max=None*, *min=None*, ***kwargs*)

Bases: *linebot.models.actions.Action*

DatetimePickerAction.

https://developers.line.me/en/docs/messaging-api/reference/#datetime-picker-action

When a control associated with this action is tapped, a postback event is returned via webhook with the date and time selected by the user from the date and time selection dialog. The datetime picker action does not support time zones.

__init__(*label=None*, *data=None*, *mode=None*, *initial=None*, *max=None*, *min=None*, ***kwargs*)

__init__ method.

Parameters

- **label** (*str*) – Label for the action
- **data** (*str*) – String returned via webhook in the postback.data property of the postback event
- **mode** (*str*) – Action mode date: Pick date time: Pick time datetime: Pick date and time
- **initial** (*str*) – Initial value of date or time
- **max** (*str*) – Largest date or time value that can be selected. Must be greater than the min value.
- **min** (*str*) – Smallest date or time value that can be selected. Must be less than the max value.
- **kwargs** –

class linebot.models.actions.**CameraAction**(*label=None*, ***kwargs*)

Bases: *linebot.models.actions.Action*

CameraAction.

https://developers.line.me/en/reference/messaging-api/#camera-action

This action can be configured only with quick reply buttons. When a button associated with this action is tapped, the camera screen in the LINE app is opened.

__init__(*label=None*, ***kwargs*)

__init__ method.

Parameters

- **label** (*str*) – Label for the action
- **kwargs** –

class linebot.models.actions.**CameraRollAction**(*label=None*, ***kwargs*)

Bases: *linebot.models.actions.Action*

CameraRollAction.

https://developers.line.me/en/reference/messaging-api/#camera-roll-action

This action can be configured only with quick reply buttons. When a button associated with this action is tapped, the camera roll screen in the LINE app is opened.

__init__(*label=None*, ***kwargs*)
__init__ method.

Parameters

- **label** (*str*) – Label for the action
- **kwargs** –

class linebot.models.actions.**LocationAction**(*label=None*, ***kwargs*)
Bases: *linebot.models.actions.Action*

LocationRollAction.

https://developers.line.me/en/reference/messaging-api/#location-action

This action can be configured only with quick reply buttons. When a button associated with this action is tapped, the location screen in the LINE app is opened.

__init__(*label=None*, ***kwargs*)
__init__ method.

Parameters

- **label** (*str*) – Label for the action
- **kwargs** –

1.5.1.2 linebot.models.base module

linebot.models.base module.

class linebot.models.base.**Base**(***kwargs*)
Bases: object

Base class of model.

Suitable for JSON base data.

__init__(***kwargs*)
__init__ method.

Parameters **kwargs** –

as_json_string()
Return JSON string from this object.

Return type str

as_json_dict()
Return dictionary from this object.

Returns dict

classmethod new_from_json_dict(*data*)
Create a new instance from a dict.

Parameters **data** – JSON dict

static get_or_new_from_json_dict(*data*, *cls*)
Get *cls* object w/ deserialization from json if needed.

If data is instance of cls, return data. Else if data is instance of dict, create instance from dict. Else, return None.

Parameters

- **data** –
- **cls** –

Return type object

static get_or_new_from_json_dict_with_types(*data*, *cls_map*, *type_key='type'*)
Get *cls* object w/ deserialization from json by using type key hint if needed.

If data is instance of one of cls, return data. Else if data is instance of dict, create instance from dict. Else, return None.

Parameters

- **data** –
- **cls_map** –
- **type_key** –

Return type object

1.5.1.3 linebot.models.error module

linebot.models.error module.

class linebot.models.error.**Error**(*message=None*, *details=None*, ***kwargs*)
Bases: *linebot.models.base.Base*

Error response of LINE messaging API.

https://developers.line.biz/en/reference/messaging-api/#error-response

__init__(*message=None*, *details=None*, ***kwargs*)
__init__ method.

Parameters

- **message** (*str*) – Summary of the error
- **details** (list[T <= *linebot.models.error.ErrorDetail*]) – ErrorDetail instance list
- **kwargs** –

class linebot.models.error.**ErrorDetail**(*message=None*, *property=None*, ***kwargs*)
Bases: *linebot.models.base.Base*

ErrorDetail response of LINE messaging API.

__init__(*message=None*, *property=None*, ***kwargs*)
__init__ method.

Parameters

- **message** (*str*) – Details of the error message
- **property** (*str*) – Related property
- **kwargs** –

1.5.1.4 linebot.models.events module

linebot.models.events module.

class linebot.models.events.**Event**(*timestamp=None*, *source=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

Abstract Base Class of Webhook Event.

https://developers.line.biz/en/reference/messaging-api/#webhook-event-objects

__init__(*timestamp=None*, *source=None*, ***kwargs*)

__init__ method.

Parameters

- **timestamp** (*long*) – Time of the event in milliseconds
- **source** (T <= *linebot.models.sources.Source*) – Source object
- **kwargs** –

class linebot.models.events.**MessageEvent**(*timestamp=None*, *source=None*, *reply_token=None*, *message=None*, ***kwargs*)

Bases: *linebot.models.events.Event*

Webhook MessageEvent.

https://developers.line.biz/en/reference/messaging-api/#message-event

Event object which contains the sent message. The message field contains a message object which corresponds with the message type. You can reply to message events.

__init__(*timestamp=None*, *source=None*, *reply_token=None*, *message=None*, ***kwargs*)

__init__ method.

Parameters

- **timestamp** (*long*) – Time of the event in milliseconds
- **source** (T <= *linebot.models.sources.Source*) – Source object
- **reply_token** (*str*) – Reply token
- **message** (T <= *linebot.models.messages.Message*) – Message object
- **kwargs** –

class linebot.models.events.**FollowEvent**(*timestamp=None*, *source=None*, *reply_token=None*, ***kwargs*)

Bases: *linebot.models.events.Event*

Webhook FollowEvent.

https://developers.line.biz/en/reference/messaging-api/#follow-event

Event object for when your account is added as a friend (or unblocked). You can reply to follow events.

__init__(*timestamp=None*, *source=None*, *reply_token=None*, ***kwargs*)

__init__ method.

Parameters

- **timestamp** (*long*) – Time of the event in milliseconds
- **source** (T <= *linebot.models.sources.Source*) – Source object
- **reply_token** (*str*) – Reply token

- **kwargs** –

class linebot.models.events.**UnfollowEvent**(*timestamp=None*, *source=None*, ***kwargs*)
Bases: *linebot.models.events.Event*

Webhook UnfollowEvent.

https://developers.line.biz/en/reference/messaging-api/#unfollow-event

Event object for when your account is blocked.

__init__(*timestamp=None*, *source=None*, ***kwargs*)
__init__ method.

Parameters

- **timestamp** (*long*) – Time of the event in milliseconds
- **source** (T <= *linebot.models.sources.Source*) – Source object
- **kwargs** –

class linebot.models.events.**JoinEvent**(*timestamp=None*, *source=None*, *reply_token=None*, ***kwargs*)
Bases: *linebot.models.events.Event*

Webhook JoinEvent.

https://developers.line.biz/en/reference/messaging-api/#join-event

Event object for when your account joins a group or talk room. You can reply to join events.

__init__(*timestamp=None*, *source=None*, *reply_token=None*, ***kwargs*)
__init__ method.

Parameters

- **timestamp** (*long*) – Time of the event in milliseconds
- **source** (T <= *linebot.models.sources.Source*) – Source object
- **reply_token** (*str*) – Reply token
- **kwargs** –

class linebot.models.events.**LeaveEvent**(*timestamp=None*, *source=None*, ***kwargs*)
Bases: *linebot.models.events.Event*

Webhook LeaveEvent.

https://developers.line.biz/en/reference/messaging-api/#leave-event

Event object for when your account leaves a group.

__init__(*timestamp=None*, *source=None*, ***kwargs*)
__init__ method.

Parameters

- **timestamp** (*long*) – Time of the event in milliseconds
- **source** (T <= *linebot.models.sources.Source*) – Source object
- **kwargs** –

class linebot.models.events.**PostbackEvent**(*timestamp=None*, *source=None*, *reply_token=None*, *postback=None*, ***kwargs*)
Bases: *linebot.models.events.Event*

Webhook PostbackEvent.

https://developers.line.biz/en/reference/messaging-api/#postback-event

Event object for when a user performs an action on a template message which initiates a postback. You can reply to postback events.

__init__(*timestamp=None*, *source=None*, *reply_token=None*, *postback=None*, ***kwargs*)
__init__ method.

Parameters

- **timestamp** (*long*) – Time of the event in milliseconds
- **source** (T <= *linebot.models.sources.Source*) – Source object
- **reply_token** (*str*) – Reply token
- **postback** (*linebot.models.events.Postback*) – Postback object
- **kwargs** –

class linebot.models.events.**BeaconEvent**(*timestamp=None*, *source=None*, *reply_token=None*, *beacon=None*, ***kwargs*)

Bases: *linebot.models.events.Event*

Webhook BeaconEvent.

https://developers.line.biz/en/reference/messaging-api/#beacon-event

Event object for when a user detects a LINE Beacon. You can reply to beacon events.

__init__(*timestamp=None*, *source=None*, *reply_token=None*, *beacon=None*, ***kwargs*)
__init__ method.

Parameters

- **timestamp** (*long*) – Time of the event in milliseconds
- **source** (T <= *linebot.models.sources.Source*) – Source object
- **reply_token** (*str*) – Reply token
- **beacon** (*linebot.models.events.Beacon*) – Beacon object
- **kwargs** –

class linebot.models.events.**MemberJoinedEvent**(*timestamp=None*, *source=None*, *reply_token=None*, *joined=None*, ***kwargs*)

Bases: *linebot.models.events.Event*

Webhook MemberJoinedEvent.

https://developers.line.biz/en/reference/messaging-api/#member-joined-event

Event object for when a user joins a group or room that the bot is in.

__init__(*timestamp=None*, *source=None*, *reply_token=None*, *joined=None*, ***kwargs*)
__init__ method.

Parameters

- **timestamp** (*long*) – Time of the event in milliseconds
- **source** (T <= *linebot.models.sources.Source*) – Source object
- **reply_token** (*str*) – Reply token

- **joined** (*linebot.models.events.Joined*) – Joined object
- **kwargs** –

class linebot.models.events.**MemberLeftEvent**(*timestamp=None*, *source=None*, *left=None*, ***kwargs*)

Bases: *linebot.models.events.Event*

Webhook MemberLeftEvent.

https://developers.line.biz/en/reference/messaging-api/#member-left-event

Event object for when a user leaves a group or room that the bot is in.

__init__(*timestamp=None*, *source=None*, *left=None*, ***kwargs*)

__init__ method.

Parameters

- **timestamp** (*long*) – Time of the event in milliseconds
- **source** (T <= *linebot.models.sources.Source*) – Source object
- **left** (*linebot.models.events.Left*) – Left object
- **kwargs** –

class linebot.models.events.**AccountLinkEvent**(*timestamp=None*, *source=None*, *reply_token=None*, *link=None*, ***kwargs*)

Bases: *linebot.models.events.Event*

Webhook AccountLinkEvent.

https://developers.line.me/en/docs/messaging-api/reference/#account-link-event

Event object for when a user has linked his/her LINE account with a provider's service account. You can reply to account link events. If the link token has expired or has already been used, no webhook event will be sent and the user will be shown an error.

__init__(*timestamp=None*, *source=None*, *reply_token=None*, *link=None*, ***kwargs*)

__init__ method.

Parameters

- **timestamp** (*long*) – Time of the event in milliseconds
- **source** (T <= *linebot.models.sources.Source*) – Source object
- **reply_token** (*str*) – Reply token
- **link** (*linebot.models.events.Link*) – Link object
- **kwargs** –

class linebot.models.events.**ThingsEvent**(*timestamp=None*, *source=None*, *reply_token=None*, *things=None*, ***kwargs*)

Bases: *linebot.models.events.Event*

Webhook ThingsEvent.

https://developers.line.biz/en/reference/messaging-api/#device-link-event https://developers.line.biz/en/reference/messaging-api/#device-unlink-event https://developers.line.biz/en/reference/messaging-api/#scenario-result-event

Event sent from LINE Things Webhook service.

__init__(*timestamp=None*, *source=None*, *reply_token=None*, *things=None*, ***kwargs*)

__init__ method.

Parameters

- **source** (T <= *linebot.models.sources.Source*) – Source object
- **reply_token** (*str*) – Reply token
- **things** (T <= *linebot.models.things.Things*) – Things object
- **kwargs** –

class linebot.models.events.**Postback**(*data=None*, *params=None*, ***kwargs*)
Bases: *linebot.models.base.Base*

Postback.

https://developers.line.biz/en/reference/messaging-api/#postback-event

__init__(*data=None*, *params=None*, ***kwargs*)
__init__ method.

Parameters

- **data** (*str*) – Postback data
- **params** (*dict*) – JSON object with the date and time selected by a user through a date-time picker action. Only returned for postback actions via the datetime picker.
- **kwargs** –

class linebot.models.events.**Beacon**(*type=None*, *hwid=None*, *dm=None*, ***kwargs*)
Bases: *linebot.models.base.Base*

Beacon.

https://developers.line.biz/en/reference/messaging-api/#beacon-event

__init__(*type=None*, *hwid=None*, *dm=None*, ***kwargs*)
__init__ method.

Parameters

- **type** (*str*) – Type of beacon event
- **hwid** (*str*) – Hardware ID of the beacon that was detected
- **dm** (*str*) – Optional. Device message of beacon which is hex string
- **kwargs** –

property device_message
Get dm(device_message) as bytearray.

Return type bytearray

class linebot.models.events.**Joined**(*members=None*, ***kwargs*)
Bases: *linebot.models.base.Base*

Joined.

https://developers.line.biz/en/reference/messaging-api/#member-joined-event

__init__(*members=None*, ***kwargs*)
__init__ method.

Parameters

- **members** (*dict*) – Member of users who joined
- **kwargs** –

property members
Get members as list of SourceUser.

class linebot.models.events.**Left**(*members=None*, ***kwargs*)
Bases: *linebot.models.base.Base*

Left.

https://developers.line.biz/en/reference/messaging-api/#member-left-event

__init__(*members=None*, ***kwargs*)
__init__ method.

Parameters

- **members** (*dict*) – Member of users who joined
- **kwargs** –

property members
Get members as list of SourceUser.

class linebot.models.events.**Link**(*result=None*, *nonce=None*, ***kwargs*)
Bases: *linebot.models.base.Base*

Link.

https://developers.line.me/en/docs/messaging-api/reference/#link-object

__init__(*result=None*, *nonce=None*, ***kwargs*)
__init__ method.

Parameters

- **result** (*str*) – Indicate whether the link was successful or not.
- **nonce** (*str*) – Specified nonce when verifying the user ID.

1.5.1.5 linebot.models.flex_message module

linebot.models.flex_message module.

class linebot.models.flex_message.**FlexSendMessage**(*alt_text=None*, *contents=None*, ***kwargs*)
Bases: *linebot.models.send_messages.SendMessage*

FlexSendMessage.

https://developers.line.biz/en/reference/messaging-api/#flex-message

Flex Messages are messages with a customizable layout. You can customize the layout freely by combining multiple elements.

__init__(*alt_text=None*, *contents=None*, ***kwargs*)
__init__ method.

Parameters

- **alt_text** (*str*) – Alternative text
- **contents** (*linebot.models.flex_message.FlexContainer*) – Flex Message container object
- **kwargs** –

class linebot.models.flex_message.**FlexContainer**(***kwargs*)

Bases: *linebot.models.base.Base*

FlexContainer.

https://developers.line.biz/en/reference/messaging-api/#container

A container is the top-level structure of a Flex Message.

__init__(***kwargs*)

__init__ method.

Parameters **kwargs** –

class linebot.models.flex_message.**BubbleContainer**(*size=None*, *direction=None*, *header=None*, *hero=None*, *body=None*, *footer=None*, *styles=None*, *action=None*, ***kwargs*)

Bases: *linebot.models.flex_message.FlexContainer*

BubbleContainer.

https://developers.line.biz/en/reference/messaging-api/#bubble

This is a container that contains one message bubble. It can contain four blocks: header, hero, body, and footer.

__init__(*size=None*, *direction=None*, *header=None*, *hero=None*, *body=None*, *footer=None*, *styles=None*, *action=None*, ***kwargs*)

__init__ method.

Parameters

- **size** (*str*) – The size of the bubble. *nano*, *micro*, *kilo*, *mega*, or *giga*.
- **direction** (*str*) – Text directionality and the order of components in horizontal boxes in the container
- **header** (*linebot.models.flex_message.BoxComponent*) – Header block
- **hero** (*linebot.models.flex_message.ImageComponent* | *linebot.models.flex_message.BoxComponent*) – Hero block
- **body** (*linebot.models.flex_message.BoxComponent*) – Body block
- **footer** (*linebot.models.flex_message.BoxComponent*) – Footer block
- **styles** (*linebot.models.flex_message.BubbleStyle*) – Style of each block
- **action** (list[T <= *linebot.models.actions.Action*]) – Action performed when this button is tapped
- **kwargs** –

class linebot.models.flex_message.**BubbleStyle**(*header=None*, *hero=None*, *body=None*, *footer=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

BubbleStyle.

https://developers.line.biz/en/reference/messaging-api/#bubble-style

__init__(*header=None*, *hero=None*, *body=None*, *footer=None*, ***kwargs*)

__init__ method.

Parameters

- **header** (*linebot.models.flex_message.BlockStyle*) – Style of the header block
- **hero** (*linebot.models.flex_message.BlockStyle*) – Style of the hero block
- **body** (*linebot.models.flex_message.BlockStyle*) – Style of the body block
- **footer** (*linebot.models.flex_message.BlockStyle*) – Style of the footer block
- **kwargs** –

class linebot.models.flex_message.**BlockStyle**(*background_color=None*, *separator=None*, *separator_color=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

BlockStyle.

https://developers.line.biz/en/reference/messaging-api/#block-style

__init__(*background_color=None*, *separator=None*, *separator_color=None*, ***kwargs*)

__init__ method.

Parameters

- **background_color** (*str*) – Background color of the block. Use a hexadecimal color code
- **separator** (*bool*) – True to place a separator above the block True will be ignored for the first block in a container because you cannot place a separator above the first block. The default value is False
- **separator_color** (*str*) – Color of the separator. Use a hexadecimal color code
- **kwargs** –

class linebot.models.flex_message.**CarouselContainer**(*contents=None*, ***kwargs*)

Bases: *linebot.models.flex_message.FlexContainer*

CarouselContainer.

https://developers.line.biz/en/reference/messaging-api/#f-carousel

This is a container that contains multiple bubble containers, or message bubbles. The bubbles will be shown in order by scrolling horizontally.

__init__(*contents=None*, ***kwargs*)

__init__ method.

Parameters

- **contents** (list[T <= *linebot.models.flex_message.BubbleContainer*]) – Array of bubble containers
- **kwargs** –

class linebot.models.flex_message.**FlexComponent**(***kwargs*)

Bases: *linebot.models.base.Base*

FlexComponent.

https://developers.line.biz/en/reference/messaging-api/#component

Components are objects that compose a Flex Message container.

__init__(***kwargs*)
__init__ method.

Parameters **kwargs** –

class linebot.models.flex_message.**BoxComponent**(*layout=None*, *contents=None*, *background_color=None*, *border_color=None*, *border_width=None*, *corner_radius=None*, *width=None*, *height=None*, *flex=None*, *spacing=None*, *margin=None*, *padding_all=None*, *padding_top=None*, *padding_bottom=None*, *padding_start=None*, *padding_end=None*, *position=None*, *offset_top=None*, *offset_bottom=None*, *offset_start=None*, *offset_end=None*, *action=None*, ***kwargs*)

Bases: *linebot.models.flex_message.FlexComponent*

BoxComponent.

https://developers.line.biz/en/reference/messaging-api/#box

This is a component that defines the layout of child components. You can also include a box in a box.

__init__(*layout=None*, *contents=None*, *background_color=None*, *border_color=None*, *border_width=None*, *corner_radius=None*, *width=None*, *height=None*, *flex=None*, *spacing=None*, *margin=None*, *padding_all=None*, *padding_top=None*, *padding_bottom=None*, *padding_start=None*, *padding_end=None*, *position=None*, *offset_top=None*, *offset_bottom=None*, *offset_start=None*, *offset_end=None*, *action=None*, ***kwargs*)
__init__ method.

Parameters

- **layout** (*str*) – The placement style of components in this box
- **contents** (list[T <= *linebot.models.flex_message.FlexComponent*]) – Components in this box
- **background_color** (*str*) – Background color of the block
- **border_color** (*str*) – Color of box border
- **border_width** (*str*) – Width of box border
- **corner_radius** (*str*) – Radius at the time of rounding the corners of the border
- **width** (*str*) – Width of the box
- **height** (*str*) – Height of the box
- **flex** (*float*) – The ratio of the width or height of this box within the parent box and the previous component in the parent box
- **spacing** (*str*) – Minimum space between components in this box
- **margin** (*str*) – Minimum space between this box
- **padding_all** (*str*) – Free space between the borders of this box and the child element
- **padding_top** (*str*) – Free space between the border at the upper end of this box and the upper end of the child element

- **padding_bottom** (*str*) – Free space between the border at the lower end of this box and the lower end of the child element
- **padding_start** (*str*) – Free space between the border at the left end of this box and the left end of the child element
- **padding_end** (*str*) – Free space between the border at the right end of this box and the right end of the child element
- **position** (*str*) – Reference position for placing this box
- **offset_top** (*str*) – The top offset
- **offset_bottom** (*str*) – The bottom offset
- **offset_start** (*str*) – The left offset
- **offset_end** (*str*) – The right offset
- **action** (list[T <= *linebot.models.actions.Action*]) – Action performed when this button is tapped
- **kwargs** –

class linebot.models.flex_message.**ButtonComponent**(*action=None*, *flex=None*, *margin=None*, *position=None*, *offset_top=None*, *offset_bottom=None*, *offset_start=None*, *offset_end=None*, *height=None*, *style=None*, *color=None*, *gravity=None*, ***kwargs*)

Bases: *linebot.models.flex_message.FlexComponent*

ButtonComponent.

https://developers.line.biz/en/reference/messaging-api/#button

This component draws a button. When the user taps a button, a specified action is performed.

__init__(*action=None*, *flex=None*, *margin=None*, *position=None*, *offset_top=None*, *offset_bottom=None*, *offset_start=None*, *offset_end=None*, *height=None*, *style=None*, *color=None*, *gravity=None*, ***kwargs*)

__init__ method.

Parameters

- **action** (list[T <= *linebot.models.actions.Action*]) – Action performed when this button is tapped
- **flex** (*float*) – The ratio of the width or height of this component within the parent box
- **margin** (*str*) – Minimum space between this component and the previous component in the parent box
- **position** (*str*) – Reference position for placing this box
- **offset_top** (*str*) – The top offset
- **offset_bottom** (*str*) – The bottom offset
- **offset_start** (*str*) – The left offset
- **offset_end** (*str*) – The right offset
- **height** (*str*) – Height of the button

- **style** (*str*) – Style of the button
- **color** (*str*) – Character color when the style property is link. Background color when the style property is primary or secondary. Use a hexadecimal color code
- **gravity** (*str*) – Vertical alignment style
- **kwargs** –

class linebot.models.flex_message.**FillerComponent**(*flex=None*, ***kwargs*)

Bases: *linebot.models.flex_message.FlexComponent*

FillerComponent.

https://developers.line.biz/en/reference/messaging-api/#filler

This is an invisible component to fill extra space between components.

__init__(*flex=None*, ***kwargs*)

__init__ method.

Parameters **kwargs** –

class linebot.models.flex_message.**IconComponent**(*url=None*, *margin=None*, *position=None*, *offset_top=None*, *offset_bottom=None*, *offset_start=None*, *offset_end=None*, *size=None*, *aspect_ratio=None*, ***kwargs*)

Bases: *linebot.models.flex_message.FlexComponent*

IconComponent.

https://developers.line.biz/en/reference/messaging-api/#icon

This component draws an icon.

__init__(*url=None*, *margin=None*, *position=None*, *offset_top=None*, *offset_bottom=None*, *offset_start=None*, *offset_end=None*, *size=None*, *aspect_ratio=None*, ***kwargs*)

__init__ method.

Parameters

- **url** (*str*) – Image URL Protocol: HTTPS Image format: JPEG or PNG
- **margin** (*str*) – Minimum space between this component and the previous component in the parent box
- **position** (*str*) – Reference position for placing this box
- **offset_top** (*str*) – The top offset
- **offset_bottom** (*str*) – The bottom offset
- **offset_start** (*str*) – The left offset
- **offset_end** (*str*) – The right offset
- **size** (*str*) – Maximum size of the icon width
- **aspect_ratio** (*str*) – Aspect ratio of the icon
- **kwargs** –

class linebot.models.flex_message.**ImageComponent**(*url=None*, *flex=None*, *margin=None*, *position=None*, *offset_top=None*, *offset_bottom=None*, *offset_start=None*, *offset_end=None*, *align=None*, *gravity=None*, *size=None*, *aspect_ratio=None*, *aspect_mode=None*, *background_color=None*, *action=None*, ***kwargs*)

Bases: *linebot.models.flex_message.FlexComponent*

ImageComponent.

https://developers.line.biz/en/reference/messaging-api/#f-image

This component draws an image.

__init__(*url=None*, *flex=None*, *margin=None*, *position=None*, *offset_top=None*, *offset_bottom=None*, *offset_start=None*, *offset_end=None*, *align=None*, *gravity=None*, *size=None*, *aspect_ratio=None*, *aspect_mode=None*, *background_color=None*, *action=None*, ***kwargs*)

__init__ method.

Parameters

- **url** (*str*) – Image URL Protocol: HTTPS Image format: JPEG or PNG
- **flex** (*float*) – The ratio of the width or height of this component within the parent box
- **margin** (*str*) – Minimum space between this component and the previous component in the parent box
- **position** (*str*) – Reference position for placing this box
- **offset_top** (*str*) – The top offset
- **offset_bottom** (*str*) – The bottom offset
- **offset_start** (*str*) – The left offset
- **offset_end** (*str*) – The right offset
- **align** (*str*) – Horizontal alignment style
- **gravity** (*str*) – Vertical alignment style
- **size** (*str*) – Maximum size of the image width
- **aspect_ratio** (*str*) – Aspect ratio of the image
- **aspect_mode** (*str*) – Style of the image
- **background_color** (*str*) – Background color of the image. Use a hexadecimal color code.
- **action** (list[T <= *linebot.models.actions.Action*]) – Action performed when this image is tapped
- **kwargs** –

class linebot.models.flex_message.**SeparatorComponent**(*margin=None*, *color=None*, ***kwargs*)

Bases: *linebot.models.flex_message.FlexComponent*

SeparatorComponent.

https://developers.line.biz/en/reference/messaging-api/#separator

This component draws a separator between components in the parent box.

__init__(*margin=None*, *color=None*, ***kwargs*)
__init__ method.

Parameters

- **margin** (*str*) – Minimum space between this component and the previous component in the parent box
- **color** (*str*) – Color of the separator. Use a hexadecimal color code
- **kwargs** –

class linebot.models.flex_message.**SpacerComponent**(*size=None*, ***kwargs*)
Bases: *linebot.models.flex_message.FlexComponent*

SpacerComponent.

https://developers.line.biz/en/reference/messaging-api/#spacer

This is an invisible component that places a fixed-size space at the beginning or end of the box

__init__(*size=None*, ***kwargs*)
__init__ method.

Parameters

- **size** (*str*) – Size of the space
- **kwargs** –

class linebot.models.flex_message.**SpanComponent**(*text=None*, *color=None*, *size=None*, *weight=None*, *style=None*, *decoration=None*, ***kwargs*)
Bases: *linebot.models.flex_message.FlexComponent*

SpanComponent.

https://developers.line.biz/en/reference/messaging-api/#span

This component renders multiple text strings with different designs in one row.

__init__(*text=None*, *color=None*, *size=None*, *weight=None*, *style=None*, *decoration=None*, ***kwargs*)
__init__ method.

Parameters

- **text** (*str*) – Text
- **color** (*str*) – Font color
- **size** (*str*) – Font size
- **weight** (*str*) – Font weight
- **style** (*str*) – Style of the text
- **decoration** (*str*) – Decoration of the text
- **kwargs** –

class linebot.models.flex_message.**TextComponent**(*text=None*, *contents=None*, *flex=None*, *margin=None*, *position=None*, *offset_top=None*, *offset_bottom=None*, *offset_start=None*, *offset_end=None*, *size=None*, *align=None*, *gravity=None*, *wrap=None*, *max_lines=None*, *weight=None*, *color=None*, *action=None*, *style=None*, *decoration=None*, ***kwargs*)

Bases: *linebot.models.flex_message.FlexComponent*

TextComponent.

https://developers.line.biz/en/reference/messaging-api/#f-text

This component draws text. You can format the text.

__init__(*text=None*, *contents=None*, *flex=None*, *margin=None*, *position=None*, *offset_top=None*, *offset_bottom=None*, *offset_start=None*, *offset_end=None*, *size=None*, *align=None*, *gravity=None*, *wrap=None*, *max_lines=None*, *weight=None*, *color=None*, *action=None*, *style=None*, *decoration=None*, ***kwargs*)

__init__ method.

Parameters

- **text** (*str*) – Text
- **contents** (list[T <= *linebot.models.flex_message.SpanComponent*]) – Array of spans
- **flex** (*float*) – The ratio of the width or height of this component within the parent box
- **margin** (*str*) – Minimum space between this component and the previous component in the parent box
- **position** (*str*) – Reference position for placing this box
- **offset_top** (*str*) – The top offset
- **offset_bottom** (*str*) – The bottom offset
- **offset_start** (*str*) – The left offset
- **offset_end** (*str*) – The right offset
- **size** (*str*) – Font size
- **align** (*str*) – Horizontal alignment style
- **gravity** (*str*) – Vertical alignment style
- **wrap** (*bool*) – rue to wrap text. The default value is False. If set to True, you can use a new line character (n) to begin on a new line.
- **max_lines** (*int*) – Max number of lines
- **weight** (*str*) – Font weight
- **color** (*str*) – Font color
- **action** (list[T <= *linebot.models.actions.Action*]) – Action performed when this image is tapped
- **style** (*str*) – Style of the text

- **decoration** (*str*) – Decoration of the text
- **kwargs** –

1.5.1.6 linebot.models.imagemap module

linebot.models.imagemap module.

class linebot.models.imagemap.**ImagemapSendMessage**(*base_url=None*, *alt_text=None*, *base_size=None*, *video=None*, *actions=None*, ***kwargs*)

Bases: *linebot.models.send_messages.SendMessage*

ImagemapSendMessage.

https://developers.line.biz/en/reference/messaging-api/#imagemap-message

Imagemaps are images with one or more links. You can assign one link for the entire image or multiple links which correspond to different regions of the image.

__init__(*base_url=None*, *alt_text=None*, *base_size=None*, *video=None*, *actions=None*, ***kwargs*)

__init__ method.

Parameters

- **base_url** (*str*) – Base URL of image. HTTPS
- **alt_text** (*str*) – Alternative text
- **base_size** (*linebot.models.imagemap.BaseSize*) – Width and height of base image
- **video** (*linebot.models.imagemap.Video*) – Video in imagemap message
- **actions** (list[T <= *linebot.models.imagemap.ImagemapAction*]) – Action when tapped
- **kwargs** –

class linebot.models.imagemap.**BaseSize**(*width=None*, *height=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

BaseSize.

https://developers.line.biz/en/reference/messaging-api/#imagemap-message

__init__(*width=None*, *height=None*, ***kwargs*)

__init__ method.

Parameters

- **width** (*int*) – Width of base image (set to 1040px
- **height** (*int*) – Height of base imageset to the height that corresponds to a width of 1040px
- **kwargs** –

class linebot.models.imagemap.**ImagemapAction**(***kwargs*)

Bases: *linebot.models.base.Base*

ImagemapAction.

https://developers.line.biz/en/reference/messaging-api/#imagemap-message

__init__(***kwargs*)
__init__ method.

Parameters **kwargs** –

class linebot.models.imagemap.**URIImagemapAction**(*link_uri=None*, *area=None*, ***kwargs*)

Bases: *linebot.models.imagemap.ImagemapAction*

URIImagemapAction.

https://developers.line.biz/en/reference/messaging-api/#imagemap-message

__init__(*link_uri=None*, *area=None*, ***kwargs*)
__init__ method.

Parameters

- **link_uri** (*str*) – Webpage URL
- **area** (*linebot.models.imagemap.ImagemapArea*) – Defined tappable area
- **kwargs** –

class linebot.models.imagemap.**MessageImagemapAction**(*text=None*, *area=None*, ***kwargs*)

Bases: *linebot.models.imagemap.ImagemapAction*

MessageImagemapAction.

https://developers.line.biz/en/reference/messaging-api/#imagemap-message

__init__(*text=None*, *area=None*, ***kwargs*)
__init__ method.

Parameters

- **text** (*str*) – Message to send
- **area** (*linebot.models.imagemap.ImagemapArea*) – Defined tappable area
- **kwargs** –

class linebot.models.imagemap.**ImagemapArea**(*x=None*, *y=None*, *width=None*, *height=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

ImagemapArea.

https://developers.line.biz/en/reference/messaging-api/#imagemap-area-object

Defines the size of the full imagemap with the width as 1040px. The top left is used as the origin of the area.

__init__(*x=None*, *y=None*, *width=None*, *height=None*, ***kwargs*)
__init__ method.

Parameters

- **x** (*int*) – Horizontal position of the tappable area
- **y** (*int*) – Vertical position of the tappable area
- **width** (*int*) – Width of the tappable area
- **height** (*int*) – Height of the tappable area
- **kwargs** –

class linebot.models.imagemap.**Video**(*original_content_url=None*, *preview_image_url=None*, *area=None*, *external_link=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

Video.

https://developers.line.biz/en/reference/messaging-api/#imagemap-message

Defines the properties of the video object in imagemap.

__init__(*original_content_url=None*, *preview_image_url=None*, *area=None*, *external_link=None*, ***kwargs*)

__init__ method.

Parameters

- **original_content_url** (*str*) – URL of the video file
- **preview_image_url** (*str*) – URL of the preview image
- **area** (*linebot.models.imagemap.ImagemapArea*) – Defined video area
- **external_link** (*linebot.models.imagemap.ExternalLink*) – Defined video external link
- **kwargs** –

class linebot.models.imagemap.**ExternalLink**(*link_uri=None*, *label=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

ExternalLink.

https://developers.line.biz/en/reference/messaging-api/#imagemap-message

Defines URL and label of external link in video.

__init__(*link_uri=None*, *label=None*, ***kwargs*)

__init__ method.

Parameters

- **link_uri** (*str*) – Webpage URL
- **label** (*str*) – Label
- **kwargs** –

1.5.1.7 linebot.models.insight module

linebot.models.insight module.

class linebot.models.insight.**DemographicInsight**(*percentage=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

Abstract Base Class of DemographicInsight.

__init__(*percentage=None*, ***kwargs*)

__init__ method.

Parameters

- **percentage** (*float*) – Percentage.
- **kwargs** –

class linebot.models.insight.**GenderInsight**(*percentage=None*, *gender=None*, ***kwargs*)
Bases: *linebot.models.insight.DemographicInsight*

GenderInsight.

__init__(*percentage=None*, *gender=None*, ***kwargs*)
__init__ method.

Parameters

- **percentage** (*float*) – Percentage.
- **gender** (*str*) – Gender
- **kwargs** –

class linebot.models.insight.**AgeInsight**(*percentage=None*, *age=None*, ***kwargs*)
Bases: *linebot.models.insight.DemographicInsight*

AgeInsight.

__init__(*percentage=None*, *age=None*, ***kwargs*)
__init__ method.

Parameters

- **percentage** (*float*) – Percentage.
- **age** (*str*) – Age
- **kwargs** –

class linebot.models.insight.**AreaInsight**(*percentage=None*, *area=None*, ***kwargs*)
Bases: *linebot.models.insight.DemographicInsight*

AreaInsight.

__init__(*percentage=None*, *area=None*, ***kwargs*)
__init__ method.

Parameters

- **percentage** (*float*) – Percentage.
- **area** (*str*) – Area
- **kwargs** –

class linebot.models.insight.**AppTypeInsight**(*percentage=None*, *app_type=None*, ***kwargs*)
Bases: *linebot.models.insight.DemographicInsight*

AppTypeInsight.

__init__(*percentage=None*, *app_type=None*, ***kwargs*)
__init__ method.

Parameters

- **percentage** (*float*) – Percentage.
- **app_type** (*str*) – OS
- **kwargs** –

class linebot.models.insight.**SubscriptionPeriodInsight**(*percentage=None*, *subscription_period=None*, ***kwargs*)

Bases: *linebot.models.insight.DemographicInsight*

SubscriptionPeriodInsight.

__init__(*percentage=None*, *subscription_period=None*, ***kwargs*)
__init__ method.

Parameters

- **percentage** (*float*) – Percentage.
- **subscription_period** (*str*) – Friendship duration
- **kwargs** –

class linebot.models.insight.**MessageStatistics**(*request_id=None*, *timestamp=None*, *delivered=None*, *unique_impression=None*, *unique_click=None*, *unique_media_played=None*, *unique_media_played_100_percent=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

MessageStatistics.

__init__(*request_id=None*, *timestamp=None*, *delivered=None*, *unique_impression=None*, *unique_click=None*, *unique_media_played=None*, *unique_media_played_100_percent=None*, ***kwargs*)
__init__ method.

Parameters

- **request_id** (*str*) – Request ID.
- **timestamp** (*int*) – UNIX timestamp for message delivery time.
- **delivered** (*int*) – Number of messages delivered. This property shows values

of less than 20. :param int unique_impression: Number of people who opened the message, meaning they displayed at least 1 bubble. :param int unique_click: Number of people who opened any URL in the message. :param int unique_media_played: Number of people who started playing any video or audio in the message. :param int unique_media_played_100_percent: Number of people who played the entirety of any video or audio in the message.

class linebot.models.insight.**MessageInsight**(*seq=None*, *impression=None*, *media_played=None*, *media_played_25_percent=None*, *media_played_50_percent=None*, *media_played_75_percent=None*, *media_played_100_percent=None*, *unique_media_played=None*, *unique_media_played_25_percent=None*, *unique_media_played_50_percent=None*, *unique_media_played_75_percent=None*, *unique_media_played_100_percent=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

MessageInsight.

__init__(*seq=None*, *impression=None*, *media_played=None*, *media_played_25_percent=None*, *media_played_50_percent=None*, *media_played_75_percent=None*, *media_played_100_percent=None*, *unique_media_played=None*, *unique_media_played_25_percent=None*, *unique_media_played_50_percent=None*, *unique_media_played_75_percent=None*, *unique_media_played_100_percent=None*, ***kwargs*)

__init__ method.

Parameters

- **seq** (*int*) – Bubble's serial number.
- **impression** (*int*) – Number of times the bubble was displayed.
- **media_played** (*int*) – Number of times audio or video in the bubble started playing.
- **media_played_25_percent** (*int*) – Number of times audio or video

in the bubble was played from start to 25%. :param int media_played_50_percent: Number of times audio or video in the bubble was played from start to 50%. :param int media_played_75_percent: Number of times audio or video in the bubble was played from start to 75%. :param int media_played_100_percent: Number of times audio or video in the bubble was played in its entirety. :param int unique_media_played: Number of people that started playing audio or video in the bubble. :param int unique_media_played_25_percent: Number of people that played audio or video in the bubble from start to 25%. :param int unique_media_played_50_percent: Number of people that played audio or video in the bubble from start to 50%. :param int unique_media_played_75_percent: Number of people that played audio or video in the bubble from start to 75%. :param int unique_media_played_100_percent: Number of people that played audio or video in the bubble in its entirety.

class linebot.models.insight.**ClickInsight**(*seq=None*, *url=None*, *click=None*, *unique_click=None*, *unique_click_of_request=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

ClickInsight.

__init__(*seq=None*, *url=None*, *click=None*, *unique_click=None*, *unique_click_of_request=None*, ***kwargs*)

__init__ method.

Parameters

- **seq** (*int*) – The URL's serial number.
- **url** (*str*) – URL.
- **click** (*int*) – Number of times the URL was opened.
- **unique_click** (*int*) – Number of people that opened the URL.
- **unique_click_of_request** (*int*) – Number of people who opened this url

through any link in the message.

1.5.1.8 linebot.models.messages module

linebot.models.messages module.

class linebot.models.messages.**Message**(*id=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

Abstract Base Class of Message.

__init__(*id=None*, ***kwargs*)
__init__ method.

Parameters

- **id** (*str*) – Message ID
- **kwargs** –

class linebot.models.messages.**TextMessage**(*id=None*, *text=None*, ***kwargs*)
Bases: *linebot.models.messages.Message*

TextMessage.

https://developers.line.biz/en/reference/messaging-api/#wh-text

Message object which contains the text sent from the source.

__init__(*id=None*, *text=None*, ***kwargs*)
__init__ method.

Parameters

- **id** (*str*) – Message ID
- **text** (*str*) – Message text
- **kwargs** –

class linebot.models.messages.**ImageMessage**(*id=None*, *content_provider=None*, ***kwargs*)
Bases: *linebot.models.messages.Message*

ImageMessage.

https://developers.line.biz/en/reference/messaging-api/#wh-image

Message object which contains the image content sent from the source. The binary image data can be retrieved with the Content API.

__init__(*id=None*, *content_provider=None*, ***kwargs*)
__init__ method.

Parameters

- **id** (*str*) – Message ID
- **content_provider** (*linebot.models.messages.ContentProvider*) – ContentProvider object
- **kwargs** –

class linebot.models.messages.**VideoMessage**(*id=None*, *duration=None*, *content_provider=None*, ***kwargs*)
Bases: *linebot.models.messages.Message*

VideoMessage.

https://developers.line.biz/en/reference/messaging-api/#wh-video

Message object which contains the video content sent from the source. The binary video data can be retrieved with the Content API.

__init__(*id=None*, *duration=None*, *content_provider=None*, ***kwargs*)
__init__ method.

Parameters

- **id** (*str*) – Message ID

- **duration** (*long*) – Length of video file (milliseconds)
- **content_provider** (*linebot.models.messages.ContentProvider*) – ContentProvider object
- **kwargs** –

class linebot.models.messages.**AudioMessage**(*id=None*, *duration=None*, *content_provider=None*, ***kwargs*)

Bases: *linebot.models.messages.Message*

AudioMessage.

https://developers.line.biz/en/reference/messaging-api/#wh-audio

Message object which contains the audio content sent from the source. The binary audio data can be retrieved with the Content API.

__init__(*id=None*, *duration=None*, *content_provider=None*, ***kwargs*)

__init__ method.

Parameters

- **id** (*str*) – Message ID
- **duration** (*long*) – Length of audio file (milliseconds)
- **content_provider** (*linebot.models.messages.ContentProvider*) – ContentProvider object
- **kwargs** –

class linebot.models.messages.**LocationMessage**(*id=None*, *title=None*, *address=None*, *latitude=None*, *longitude=None*, ***kwargs*)

Bases: *linebot.models.messages.Message*

LocationMessage.

https://developers.line.biz/en/reference/messaging-api/#wh-location

__init__(*id=None*, *title=None*, *address=None*, *latitude=None*, *longitude=None*, ***kwargs*)

__init__ method.

Parameters

- **id** (*str*) – Message ID
- **title** (*str*) – Title
- **address** (*str*) – Address
- **latitude** (*float*) – Latitude
- **longitude** (*float*) – Longitude
- **kwargs** –

class linebot.models.messages.**StickerMessage**(*id=None*, *package_id=None*, *sticker_id=None*, ***kwargs*)

Bases: *linebot.models.messages.Message*

StickerMessage.

https://developers.line.biz/en/reference/messaging-api/#wh-sticker

Message object which contains the sticker data sent from the source. For a list of basic LINE stickers and sticker IDs, see sticker list.

__init__(*id=None*, *package_id=None*, *sticker_id=None*, ***kwargs*)
__init__ method.

Parameters

- **id** (*str*) – Message ID
- **package_id** (*str*) – Package ID
- **sticker_id** (*str*) – Sticker ID
- **kwargs** –

class linebot.models.messages.**FileMessage**(*id=None*, *file_name=None*, *file_size=None*, ***kwargs*)
Bases: *linebot.models.messages.Message*

FileMessage.

https://developers.line.biz/en/reference/messaging-api/#wh-file

Message object which contains the file content sent from the source. The binary file data can be retrieved with the Content API.

__init__(*id=None*, *file_name=None*, *file_size=None*, ***kwargs*)
__init__ method.

Parameters

- **id** (*str*) – Message ID
- **file_name** (*str*) – File Name
- **file_size** (*int*) – File Size
- **kwargs** –

class linebot.models.messages.**ContentProvider**(*type=None*, *original_content_url=None*, *preview_image_url=None*, ***kwargs*)
Bases: *linebot.models.base.Base*

Content provider.

__init__(*type=None*, *original_content_url=None*, *preview_image_url=None*, ***kwargs*)
__init__ method.

Parameters

- **type** (*str*) – Provider of the content. *line* or *external*.
- **original_content_url** (*str*) – URL of the content.
- **preview_image_url** (*str*) – URL of the preview image.
- **kwargs** –

1.5.1.9 linebot.models.responses module

linebot.models.responses module.

class linebot.models.responses.**BroadcastResponse**(*request_id=None*)
Bases: object

BroadcastResponse.

https://developers.line.biz/en/reference/messaging-api/#send-broadcast-message

__init__(*request_id=None*)
__init__ method.

Parameters **request_id** (*str*) – Request ID. A unique ID is generated for each request

class linebot.models.responses.**Profile**(*display_name=None*, *user_id=None*, *picture_url=None*, *status_message=None*, ***kwargs*)
Bases: *linebot.models.base.Base*

Profile.

https://developers.line.biz/en/reference/messaging-api/#get-profile

__init__(*display_name=None*, *user_id=None*, *picture_url=None*, *status_message=None*, ***kwargs*)
__init__ method.

Parameters

- **display_name** (*str*) – Display name
- **user_id** (*str*) – User ID
- **picture_url** (*str*) – Image URL
- **status_message** (*str*) – Status message
- **kwargs** –

class linebot.models.responses.**MemberIds**(*member_ids=None*, *next=None*, ***kwargs*)
Bases: *linebot.models.base.Base*

MemberIds.

https://developers.line.biz/en/reference/messaging-api/#get-group-member-user-ids https://developers.line.biz/en/reference/messaging-api/#get-room-member-user-ids

__init__(*member_ids=None*, *next=None*, ***kwargs*)
__init__ method.

Parameters

- **member_ids** (*list[str]*) – List of user IDs of the members in the group or room. Max: 100 user IDs
- **next** (*str*) – continuationToken. Only returned when there are more user IDs remaining in memberIds.
- **kwargs** –

class linebot.models.responses.**Content**(*response*)
Bases: object

MessageContent.

https://developers.line.biz/en/reference/messaging-api/#get-content

__init__(*response*)
__init__ method.

Parameters **response** (T <= *linebot.http_client.HttpResponse*) – HttpResponse object

property content_type
Get Content-type header value.

Return type str

Returns content-type header value

property content
Get content.

If content size is large, should use iter_content.

Return type binary

iter_content(*chunk_size=1024*)
Get content as iterator (stream).

If content size is large, should use this.

Parameters **chunk_size** – Chunk size

Return type iterator

class linebot.models.responses.**RichMenuResponse**(*rich_menu_id=None*, *size=None*, *selected=None*, *name=None*, *chat_bar_text=None*, *areas=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

RichMenuResponse.

https://developers.line.me/en/docs/messaging-api/reference/#rich-menu-response-object

__init__(*rich_menu_id=None*, *size=None*, *selected=None*, *name=None*, *chat_bar_text=None*, *areas=None*, ***kwargs*)
__init__ method.

Parameters

- **id** (*str*) – Rich Menu ID
- **size** (*linebot.models.rich_menu.RichMenuSize*) – size object which describe the rich menu displayed in the chat. Rich menu images must be one of the following sizes: 2500x1686, 2500x843.
- **selected** (*bool*) – true to display the rich menu by default. Otherwise, false.
- **name** (*str*) – Name of the rich menu. Maximum of 300 characters.
- **chat_bar_text** (*str*) – Text displayed in the chat bar. Maximum of 14 characters.
- **areas** (list[T <= *linebot.models.rich_menu.RichMenuArea*]) – Array of area objects which define coordinates and size of tappable areas. Maximum of 20 area objects.
- **kwargs** –

class linebot.models.responses.**MessageQuotaResponse**(*type=None*, *value=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

MessageQuotaResponse.

https://developers.line.biz/en/reference/messaging-api/#get-quota

__init__(*type=None*, *value=None*, ***kwargs*)
__init__ method.

Parameters

- **type** (*str*) – Quota limitation type
- **value** (*int*) – The target limit for additional messages in the current month. This property is returned when the type property has a value of limited.

- **kwargs** –

class linebot.models.responses.**MessageQuotaConsumptionResponse**(*total_usage=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

MessageQuotaConsumptionResponse.

https://developers.line.biz/en/reference/messaging-api/#get-consumption

__init__(*total_usage=None*, ***kwargs*)
__init__ method.

Parameters

- **total_usage** (*str*) – The number of sent messages in the current month
- **kwargs** –

class linebot.models.responses.**MessageDeliveryBroadcastResponse**(*status=None*, *success=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

MessageDeliveryBroadcastResponse.

__init__(*status=None*, *success=None*, ***kwargs*)
__init__ method.

Parameters

- **status** (*str*) – Status of the counting process.
- **success** (*int*) – The number of messages sent with the Messaging API on the date specified in date.
- **kwargs** –

class linebot.models.responses.**MessageDeliveryReplyResponse**(*status=None*, *success=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

MessageDeliveryReplyResponse.

__init__(*status=None*, *success=None*, ***kwargs*)
__init__ method.

Parameters

- **status** (*str*) – Status of the counting process.
- **success** (*int*) – The number of messages sent with the Messaging API on the date specified in date.
- **kwargs** –

class linebot.models.responses.**MessageDeliveryPushResponse**(*status=None*, *success=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

MessageDeliveryPushResponse.

__init__(*status=None*, *success=None*, ***kwargs*)
__init__ method.

Parameters

- **status** (*str*) – Status of the counting process.
- **success** (*int*) – The number of messages sent with the Messaging API on the date specified in date.
- **kwargs** –

class linebot.models.responses.**MessageDeliveryMulticastResponse**(*status=None*, *success=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

MessageDeliveryMulticastResponse.

__init__(*status=None*, *success=None*, ***kwargs*)

__init__ method.

Parameters

- **status** (*str*) – Status of the counting process.
- **success** (*int*) – The number of messages sent with the Messaging API on the date specified in date.
- **kwargs** –

class linebot.models.responses.**IssueLinkTokenResponse**(*link_token=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

IssueLinkTokenResponse.

https://developers.line.biz/en/reference/messaging-api/#issue-link-token

__init__(*link_token=None*, ***kwargs*)

__init__ method.

Parameters

- **link_token** (*str*) – Link token.
- **kwargs** –

class linebot.models.responses.**IssueChannelTokenResponse**(*access_token=None*, *expires_in=None*, *token_type=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

IssueAccessTokenResponse.

https://developers.line.biz/en/reference/messaging-api/#issue-channel-access-token

__init__(*access_token=None*, *expires_in=None*, *token_type=None*, ***kwargs*)

__init__ method.

Parameters

- **access_token** (*str*) – Short-lived channel access token.
- **expires_in** (*int*) – Time until channel access token expires in seconds from time the token is issued.
- **token_type** (*str*) – Bearer.
- **kwargs** –

class linebot.models.responses.**InsightMessageDeliveryResponse**(*status=None*, *broadcast=None*, *targeting=None*, *auto_response=None*, *welcome_response=None*, *chat=None*, *api_broadcast=None*, *api_push=None*, *api_multicast=None*, *api_reply=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

InsightMessageDeliveryResponse.

__init__(*status=None*, *broadcast=None*, *targeting=None*, *auto_response=None*, *welcome_response=None*, *chat=None*, *api_broadcast=None*, *api_push=None*, *api_multicast=None*, *api_reply=None*, ***kwargs*)

__init__ method.

Parameters

- **status** (*str*) – Calculation status. One of *ready*, *unready*, or *out_of_service*.
- **broadcast** (*int*) – Number of broadcast messages sent.
- **targeting** (*int*) – Number of targeted/segmented messages sent.
- **auto_response** (*int*) – Number of auto-response messages sent.
- **welcome_response** (*int*) – Number of greeting messages sent.
- **chat** (*int*) – Number of messages sent from LINE Official Account Manager Chat screen.
- **api_broadcast** (*int*) – Number of broadcast messages sent with the Send broadcast message Messaging API operation.
- **api_push** (*int*) – Number of push messages sent with the Send push message Messaging API operation.
- **api_multicast** (*int*) – Number of multicast messages sent with the Send multicast message Messaging API operation.
- **api_reply** (*int*) – Number of replies sent with the Send reply message Messaging API operation.
- **success** (*int*) – The number of messages sent with the Messaging API on the date specified in date.
- **kwargs** –

class linebot.models.responses.**InsightFollowersResponse**(*status=None*, *followers=None*, *targeted_reaches=None*, *blocks=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

InsightFollowersResponse.

__init__(*status=None*, *followers=None*, *targeted_reaches=None*, *blocks=None*, ***kwargs*)

__init__ method.

Parameters

- **status** (*str*) – Calculation status. One of *ready*, *unready*, or *out_of_service*.
- **followers** (*int*) – The number of times, as of the specified date, that a user added this LINE official account as a friend for the first time.
- **targeted_reaches** (*int*) – The number of users, as of the specified date, that the official account can reach through targeted messages based on gender, age, and/or region.
- **blocks** (*int*) – The number of users blocking the account as of the specified date.
- **kwargs** –

class linebot.models.responses.**InsightDemographicResponse**(*available=None*, *genders=None*, *ages=None*, *areas=None*, *app_types=None*, *subscription_periods=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

InsightDemographicResponse.

__init__(*available=None*, *genders=None*, *ages=None*, *areas=None*, *app_types=None*, *subscription_periods=None*, ***kwargs*)

__init__ method.

Parameters

- **available** (*bool*) – *true* if friend demographic information is available.
- **genders** (list[T <= linebot.models.GenderInsight]) – Percentage per gender.
- **ages** (list[T <= linebot.models.AgeInsight]) – Percentage per age group.
- **areas** (list[T <= linebot.models.AreaInsight]) – Percentage per area.
- **app_types** (list[T <= linebot.models.AppTypeInsight]) – Percentage by OS.
- **subscription_periods** (list[T <= linebot.models.SubscriptionPeriodInsight]) – Percentage per friendship duration.
- **kwargs** –

class linebot.models.responses.**InsightMessageEventResponse**(*overview=None*, *messages=None*, *clicks=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

InsightMessageEventResponse.

__init__(*overview=None*, *messages=None*, *clicks=None*, ***kwargs*)

__init__ method.

Parameters

- **overview** (T <= linebot.models.MessageStatistics) – Summary of message statistics.

- **messages** (list[T <= linebot.models.MessageInsight]) – Array of information about individual message bubbles.
- **clicks** (list[T <= linebot.models.ClickInsight]) – Array of information about URLs in the message.
- **kwargs** –

1.5.1.10 linebot.models.rich_menu module

linebot.models.rich_menu module.

class linebot.models.rich_menu.**RichMenu**(*size=None*, *selected=None*, *name=None*, *chat_bar_text=None*, *areas=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

RichMenu.

https://developers.line.me/en/docs/messaging-api/reference/#rich-menu-object

__init__(*size=None*, *selected=None*, *name=None*, *chat_bar_text=None*, *areas=None*, ***kwargs*)

__init__ method.

Parameters

- **size** (*linebot.models.rich_menu.RichMenuSize*) – size object which describe the rich menu displayed in the chat. Rich menu images must be one of the following sizes: 2500x1686, 2500x843.
- **selected** (*bool*) – true to display the rich menu by default. Otherwise, false.
- **name** (*str*) – Name of the rich menu. Maximum of 300 characters.
- **chatBarText** (*str*) – Text displayed in the chat bar. Maximum of 14 characters.
- **areas** (list[T <= *linebot.models.rich_menu.RichMenuArea*]) – Array of area objects which define coordinates and size of tappable areas. Maximum of 20 area objects.
- **kwargs** –

class linebot.models.rich_menu.**RichMenuSize**(*width=None*, *height=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

RichMenuSize.

https://developers.line.me/en/docs/messaging-api/reference/#size-object

__init__(*width=None*, *height=None*, ***kwargs*)

__init__ method.

Parameters

- **width** (*int*) – Width of the rich menu. Must be 2500.
- **height** (*int*) – Height of the rich menu. Possible values: 1686, 843.
- **kwargs** –

class linebot.models.rich_menu.**RichMenuArea**(*bounds=None*, *action=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

RichMenuArea.

https://developers.line.me/en/docs/messaging-api/reference/#area-object

__init__(*bounds=None*, *action=None*, ***kwargs*)
__init__ method.

Parameters

- **bounds** (linebot.models.rich_menu.RichMenuBound) – Object describing the boundaries of the area in pixels. See bounds object.
- **action** (T <= *linebot.models.actions.Action*) – Action performed when the area is tapped. See action objects.
- **kwargs** –

class linebot.models.rich_menu.**RichMenuBounds**(*x=None*, *y=None*, *width=None*, *height=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

RichMenuBounds.

https://developers.line.me/en/docs/messaging-api/reference/#bounds-object

__init__(*x=None*, *y=None*, *width=None*, *height=None*, ***kwargs*)
__init__ method.

Parameters

- **x** (*int*) – Horizontal position relative to the top-left corner of the area.
- **y** (*int*) – Vertical position relative to the top-left corner of the area.
- **width** (*int*) – Width of the area.
- **height** (*int*) – Height of the area.
- **kwargs** –

1.5.1.11 linebot.models.send_messages module

linebot.models.send_messages module.

class linebot.models.send_messages.**SendMessage**(*quick_reply=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

Abstract Base Class of SendMessage.

__init__(*quick_reply=None*, ***kwargs*)
__init__ method.

Parameters

- **quick_reply** (T <= *linebot.models.send_messages.QuickReply*) – QuickReply object
- **kwargs** –

class linebot.models.send_messages.**TextSendMessage**(*text=None*, *quick_reply=None*, ***kwargs*)

Bases: *linebot.models.send_messages.SendMessage*

TextSendMessage.

https://developers.line.biz/en/reference/messaging-api/#text-message

__init__(*text=None*, *quick_reply=None*, ***kwargs*)
__init__ method.

Parameters

- **text** (*str*) – Message text
- **quick_reply** (T <= *linebot.models.send_messages.QuickReply*) – QuickReply object
- **kwargs** –

class linebot.models.send_messages.**ImageSendMessage**(*original_content_url=None*, *preview_image_url=None*, *quick_reply=None*, ***kwargs*)

Bases: *linebot.models.send_messages.SendMessage*

ImageSendMessage.

https://developers.line.biz/en/reference/messaging-api/#image-message

__init__(*original_content_url=None*, *preview_image_url=None*, *quick_reply=None*, ***kwargs*)

__init__ method.

Parameters

- **original_content_url** (*str*) – Image URL. HTTPS JPEG Max: 1024 x 1024 Max: 1 MB
- **preview_image_url** (*str*) – Preview image URL HTTPS JPEG Max: 240 x 240 Max: 1 MB
- **quick_reply** (T <= *linebot.models.send_messages.QuickReply*) – QuickReply object
- **kwargs** –

class linebot.models.send_messages.**VideoSendMessage**(*original_content_url=None*, *preview_image_url=None*, *quick_reply=None*, ***kwargs*)

Bases: *linebot.models.send_messages.SendMessage*

VideoSendMessage.

https://developers.line.biz/en/reference/messaging-api/#video-message

__init__(*original_content_url=None*, *preview_image_url=None*, *quick_reply=None*, ***kwargs*)

__init__ method.

Parameters

- **original_content_url** (*str*) – URL of video file. HTTPS. mp4. Less than 1 minute. Max: 10 MB.
- **preview_image_url** (*str*) – URL of preview image. HTTPS. JPEG. Max: 240 x 240. Max: 1 MB.
- **quick_reply** (T <= *linebot.models.send_messages.QuickReply*) – QuickReply object
- **kwargs** –

class linebot.models.send_messages.**AudioSendMessage**(*original_content_url=None*, *duration=None*, *quick_reply=None*, ***kwargs*)

Bases: *linebot.models.send_messages.SendMessage*

AudioSendMessage.

https://developers.line.biz/en/reference/messaging-api/#audio-message

__init__(*original_content_url=None*, *duration=None*, *quick_reply=None*, ***kwargs*)
__init__ method.

Parameters

- **original_content_url** (*str*) – URL of audio file. HTTPS. m4a. Less than 1 minute. Max 10 MB.
- **duration** (*long*) – Length of audio file (milliseconds).
- **quick_reply** (T <= *linebot.models.send_messages.QuickReply*) – QuickReply object
- **kwargs** –

class linebot.models.send_messages.**LocationSendMessage**(*title=None*, *address=None*, *latitude=None*, *longitude=None*, *quick_reply=None*, ***kwargs*)

Bases: *linebot.models.send_messages.SendMessage*

LocationSendMessage.

https://developers.line.biz/en/reference/messaging-api/#location-message

__init__(*title=None*, *address=None*, *latitude=None*, *longitude=None*, *quick_reply=None*, ***kwargs*)
__init__ method.

Parameters

- **title** (*str*) – Title
- **address** (*str*) – Address
- **latitude** (*float*) – Latitude
- **longitude** (*float*) – Longitude
- **quick_reply** (T <= *linebot.models.send_messages.QuickReply*) – QuickReply object
- **kwargs** –

class linebot.models.send_messages.**StickerSendMessage**(*package_id=None*, *sticker_id=None*, *quick_reply=None*, ***kwargs*)

Bases: *linebot.models.send_messages.SendMessage*

StickerSendMessage.

https://developers.line.biz/en/reference/messaging-api/#sticker-message

__init__(*package_id=None*, *sticker_id=None*, *quick_reply=None*, ***kwargs*)
__init__ method.

Parameters

- **package_id** (*str*) – Package ID
- **sticker_id** (*str*) – Sticker ID
- **quick_reply** (T <= *linebot.models.send_messages.QuickReply*) – QuickReply object

- **kwargs** –

class linebot.models.send_messages.**QuickReply**(*items=None*, ***kwargs*)
Bases: *linebot.models.base.Base*

QuickReply.

https://developers.line.me/en/docs/messaging-api/#quick-reply

__init__(*items=None*, ***kwargs*)
__init__ method.

Parameters

- **items** (list[T <= *linebot.models.send_messages.QuickReplyButton*]) – Quick reply button objects
- **kwargs** –

class linebot.models.send_messages.**QuickReplyButton**(*image_url=None*, *action=None*, ***kwargs*)
Bases: *linebot.models.base.Base*

QuickReplyButton.

https://developers.line.me/en/reference/messaging-api/#quick-reply-button-object

__init__(*image_url=None*, *action=None*, ***kwargs*)
__init__ method.

Parameters

- **image_url** (*str*) – URL of the icon that is displayed at the beginning of the button
- **action** (T <= *linebot.models.actions.Action*) – Action performed when this button is tapped
- **kwargs** –

1.5.1.12 linebot.models.sources module

linebot.models.sources module.

class linebot.models.sources.**Source**(***kwargs*)
Bases: *linebot.models.base.Base*

Abstract Base Class of Source.

__init__(***kwargs*)
__init__ method.

Parameters **kwargs** –

abstract property sender_id
Abstract property of id to send a message.

If SourceUser, return user_id. If SourceGroup, return group_id. If SourceRoom, return room_id.

'sender_id' is deprecated.

Return type str

class linebot.models.sources.**SourceUser**(*user_id=None*, ***kwargs*)
Bases: *linebot.models.sources.Source*

SourceUser.

https://developers.line.biz/en/reference/messaging-api/#source-user

JSON object which contains the source user of the event.

__init__(*user_id=None*, ***kwargs*)
__init__ method.

Parameters

- **user_id** (*str*) – ID of the source user
- **kwargs** –

property sender_id
Alias of user_id.

'sender_id' is deprecated. Use 'user_id' instead.

Return type str

class linebot.models.sources.**SourceGroup**(*group_id=None*, *user_id=None*, ***kwargs*)
Bases: *linebot.models.sources.Source*

SourceGroup.

https://developers.line.biz/en/reference/messaging-api/#source-group

JSON object which contains the source group of the event.

__init__(*group_id=None*, *user_id=None*, ***kwargs*)
__init__ method.

Parameters

- **group_id** (*str*) – ID of the source group
- **user_id** (*str*) – ID of the source user
- **kwargs** –

property sender_id
Alias of group_id.

'sender_id' is deprecated. Use 'group_id' instead.

Return type str

class linebot.models.sources.**SourceRoom**(*room_id=None*, *user_id=None*, ***kwargs*)
Bases: *linebot.models.sources.Source*

SourceRoom.

https://developers.line.biz/en/reference/messaging-api/#source-room

JSON object which contains the source room of the event.

__init__(*room_id=None*, *user_id=None*, ***kwargs*)
__init__ method.

Parameters

- **room_id** (*str*) – ID of the source room
- **user_id** (*str*) – ID of the source user
- **kwargs** –

property sender_id
Alias of room_id.

'sender_id' is deprecated. Use 'room_id' instead.

Return type str

1.5.1.13 linebot.models.template module

linebot.models.template module.

class linebot.models.template.**TemplateSendMessage**(*alt_text=None*, *template=None*, ***kwargs*)
Bases: *linebot.models.send_messages.SendMessage*

TemplateSendMessage.

https://developers.line.biz/en/reference/messaging-api/#template-messages

Template messages are messages with predefined layouts which you can customize. There are three types of templates available that can be used to interact with users through your bot.

__init__(*alt_text=None*, *template=None*, ***kwargs*)
__init__ method.

Parameters

- **alt_text** (*str*) – Alternative text for unsupported devices.
- **template** (T <= *linebot.models.template.Template*) – Object with the contents of the template.
- **kwargs** –

class linebot.models.template.**Template**(***kwargs*)
Bases: *linebot.models.base.Base*

Abstract Base Class of Template.

__init__(***kwargs*)
__init__ method.

Parameters **kwargs** –

class linebot.models.template.**ButtonsTemplate**(*text=None*, *title=None*, *thumbnail_image_url=None*, *image_aspect_ratio=None*, *image_size=None*, *image_background_color=None*, *actions=None*, *default_action=None*, ***kwargs*)
Bases: *linebot.models.template.Template*

ButtonsTemplate.

https://developers.line.biz/en/reference/messaging-api/#buttons

Template message with an image, title, text, and multiple action buttons.

__init__(*text=None*, *title=None*, *thumbnail_image_url=None*, *image_aspect_ratio=None*, *image_size=None*, *image_background_color=None*, *actions=None*, *default_action=None*, ***kwargs*)
__init__ method.

Parameters

- **text** (*str*) – Message text. Max: 160 characters (no image or title). Max: 60 characters (message with an image or title)
- **title** (*str*) – Title. Max: 40 characters
- **thumbnail_image_url** (*str*) – Image URL. HTTPS JPEG or PNG Aspect ratio: 1:1.51 Max width: 1024px Max: 1 MB
- **image_aspect_ratio** (*str*) – Aspect ratio of the image. Specify one of the following values: rectangle: 1.51:1 square: 1:1
- **image_size** (*str*) – Size of the image. Specify `cover` or `contain`.
- **image_background_color** (*str*) – Background color of image. Specify a RGB color value.
- **actions** (list[T <= *linebot.models.actions.Action*]) – Action when tapped. Max: 4
- **default_action** (T <= *linebot.models.actions.Action*) – Action when image is tapped; set for the entire image, title, and text area
- **kwargs** –

class linebot.models.template.**ConfirmTemplate**(*text=None*, *actions=None*, ***kwargs*)

Bases: *linebot.models.template.Template*

ConfirmTemplate.

https://developers.line.biz/en/reference/messaging-api/#confirm

Template message with two action buttons.

__init__(*text=None*, *actions=None*, ***kwargs*)

__init__ method.

Parameters

- **text** (*str*) – Message text. Max: 240 characters
- **actions** (list[T <= *linebot.models.actions.Action*]) – Action when tapped. Max: 2
- **kwargs** –

class linebot.models.template.**CarouselTemplate**(*columns=None*, *image_aspect_ratio=None*, *image_size=None*, ***kwargs*)

Bases: *linebot.models.template.Template*

CarouselTemplate.

https://developers.line.biz/en/reference/messaging-api/#carousel

Template message with multiple columns which can be cycled like a carousel.

__init__(*columns=None*, *image_aspect_ratio=None*, *image_size=None*, ***kwargs*)

__init__ method.

Parameters

- **columns** (list[T <= *linebot.models.template.CarouselColumn*]) – Array of columns. Max: 10

- **image_aspect_ratio** (*str*) – Aspect ratio of the image. Specify `rectangle` or `square`.
- **image_size** (*str*) – Size of the image. Specify `cover` or `contain`.
- **kwargs** –

class linebot.models.template.**ImageCarouselTemplate**(*columns=None*, ***kwargs*)

Bases: *linebot.models.template.Template*

ImageCarouselTemplate.

https://developers.line.biz/en/reference/messaging-api/#image-carousel

Template message with multiple images columns which can be cycled like as carousel.

__init__(*columns=None*, ***kwargs*)

__init__ method.

Parameters

- **columns** (list[T <= *linebot.models.template.ImageCarouselColumn*]) – Array of columns. Max: 10
- **kwargs** –

class linebot.models.template.**CarouselColumn**(*text=None*, *title=None*, *thumbnail_image_url=None*, *image_background_color=None*, *actions=None*, *default_action=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

CarouselColumn.

https://developers.line.biz/en/reference/messaging-api/#column-object

__init__(*text=None*, *title=None*, *thumbnail_image_url=None*, *image_background_color=None*, *actions=None*, *default_action=None*, ***kwargs*)

__init__ method.

Parameters

- **text** (*str*) – Message text. Max: 120 characters (no image or title) Max: 60 characters (message with an image or title)
- **title** (*str*) – Title. Max: 40 characters
- **thumbnail_image_url** (*str*) – Image URL (HTTPS). JPEG or PNG. Aspect ration is 1:1.51. Max width: 1024px, Max: 1 MB.
- **image_background_color** (*str*) – Background color of image. Specify a RGB color value.
- **actions** (list[T <= *linebot.models.actions.Action*]) – Action when tapped. Max: 3
- **default_action** (T <= *linebot.models.actions.Action*) – Action when image is tapped; set for the entire image, title, and text area
- **kwargs** –

class linebot.models.template.**ImageCarouselColumn**(*image_url=None*, *action=None*, ***kwargs*)

Bases: *linebot.models.base.Base*

ImageCarouselColumn.

https://developers.line.biz/en/reference/messaging-api/#column-object-for-image-carousel

__init__(*image_url=None*, *action=None*, ***kwargs*)
__init__ method.

Parameters

- **image_url** (*str*) – Image URL (HTTPS). JPEG or PNG. Aspect ration is 1:1. Max width: 1024px, Max: 1 MB.
- **action** (T <= *linebot.models.actions.Action*) – Action when image is tapped. Max: 5.
- **kwargs** –

1.5.1.14 linebot.models.things module

linebot.models.things module.

class linebot.models.things.**Things**(*device_id=None*, ***kwargs*)
Bases: *linebot.models.base.Base*

Abstract Base Class of Things.

__init__(*device_id=None*, ***kwargs*)
__init__ method.

Parameters

- **device_id** (*str*) – Device ID.
- **kwargs** –

class linebot.models.things.**DeviceLink**(*device_id=None*, ***kwargs*)
Bases: *linebot.models.things.Things*

DeviceLink.

https://developers.line.biz/en/reference/messaging-api/#device-link-event

Indicates that a user linked a device with LINE.

__init__(*device_id=None*, ***kwargs*)
__init__ method.

Parameters

- **device_id** (*str*) – Device ID of the device that has been linked with LINE.
- **kwargs** –

class linebot.models.things.**DeviceUnlink**(*device_id=None*, ***kwargs*)
Bases: *linebot.models.things.Things*

DeviceUnlink.

https://developers.line.biz/en/reference/messaging-api/#device-unlink-event

Indicates that the user unlinked a device from LINE.

__init__(*device_id=None*, ***kwargs*)
__init__ method.

Parameters

- **device_id** (*str*) – Device ID of the device that was unlinked from LINE.
- **kwargs** –

class linebot.models.things.**ScenarioResult**(*device_id=None*, *result=None*, ***kwargs*)
Bases: *linebot.models.things.Things*

ScenarioResult.

https://developers.line.biz/en/reference/messaging-api/#scenario-result-event

Indicates that an automatic communication scenario has been executed.

__init__(*device_id=None*, *result=None*, ***kwargs*)
__init__ method.

Parameters

- **device_id** (*str*) – Device ID of the device that executed the scenario.
- **result** (*str*) – ScenarioResultPayload object.
- **kwargs** –

class linebot.models.things.**ScenarioResultPayload**(*scenario_id=None*, *revision=None*, *start_time=None*, *result_code=None*, *end_time=None*, *action_results=None*, *ble_notification_payload=None*, *error_reason=None*, ***kwargs*)
Bases: *linebot.models.base.Base*

ScenarioResultPayload.

__init__(*scenario_id=None*, *revision=None*, *start_time=None*, *result_code=None*, *end_time=None*, *action_results=None*, *ble_notification_payload=None*, *error_reason=None*, ***kwargs*)
__init__ method.

Parameters

- **scenario_id** (*str*) – Scenario ID executed.
- **revision** (*long*) – Revision number.
- **start_time** (*long*) – Timestamp for when execution of scenario action started (milliseconds).
- **end_time** (*long*) – Timestamp for when execution of scenario was completed (milliseconds).
- **result_code** (*str*) – Scenario execution completion status.
- **action_results** (list[T <= *linebot.models.things.ActionResult*]) – Array of actions specified in a scenario.
- **ble_notification_payload** (*str*) – Data contained in notification.
- **error_reason** (*str*) – Error response.
- **kwargs** –

class linebot.models.things.**ActionResult**(*type=None*, *data=None*, ***kwargs*)
Bases: *linebot.models.base.Base*

ActionResult.

Execution result of individual operations specified in action

__init__(*type=None*, *data=None*, ***kwargs*)
__init__ method.

Parameters

- **type** (*str*) – Type of the executed action.
- **data** (*str*) – Base64-encoded binary data.
- **kwargs** –

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