
discord.aio Documentation

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Contents:

1 discord.aid	3
1.1 Documentation	3
1.2 Installation	3
1.3 Local development	4
1.4 Example bot	4
1.5 TODO	4
2 Indices and tables	59
Python Module Index	61
Index	63

See the *reference documentation*.

discord.aio is an asynchronous Discord API wrapper

Currently under very early development

Python 3.6+ only.

1.1 Documentation

You can find the module documentation here: [documentation](#)

1.2 Installation

1.2.1 With pip:

- `pip3 install discord.aio`

1.2.2 From source:

- `git clone https://github.com/Ryozuki/discord.aio && cd discord.aio && pip3 install .`

1.3 Local development

- `git clone https://github.com/Ryozuki/discord.aid`
- `cd discord.aid && pip3 install -e .`

1.4 Example bot

```
import asyncio
import os
import logging
from discord.aid import DiscordBot

logging.basicConfig(
    level='DEBUG', format='%(asctime)s - %(name)s - %(levelname)s: %(message)s')
logger = logging.getLogger('my_lovely_bot')

if __name__ == '__main__':
    TOKEN = os.environ['DISCORD_TOKEN']

    bot = DiscordBot(TOKEN)

    @bot.event()
    async def on_ready():
        logger.info('Connected!')
        logger.info(f'My username is {bot.user}')

    @bot.event('on_message') # You can also use a custom function name.
    async def foo_bar(message):
        logger.info(f'{message.author}: {message.content}')

    bot.run()
```

[Here](#) you can find a more extensive example.

1.5 TODO

- Add compression support
- Add bot shards support
- Handle ISO8601 timestamp
- Make the DiscordBot methods better.

1.5.1 Your first bot

TODO: Do this

1.5.2 Events

Events

Event: on_ready

Raised when:

- The client is ready and connected.

Note: Before this event is raised, `DiscordBot.user` is filled with information.

```
@bot.event()
async def on_ready():
    print('Connected!')
    print(f'My username is {bot.user}')
```

Event: on_resumed

Raised when:

- A client has sent a resume payload to the gateway (for resuming existing sessions).

Event: on_invalid_session

Raised when:

- The gateway could not initialize a session after receiving an Opcode 2 Identify
- The gateway could not resume a previous session after receiving an Opcode 6 Resume
- The gateway has invalidated an active session and is requesting client action

Event Parameters:

- `resume (bool)`: Indicates whether the client can resume.

Event: on_channel_create

Raised when:

- A new channel is created

Event Parameters:

- `channel (Channel)`: The created channel

Event: on_channel_update

Raised when:

- A channel is updated

Event Parameters:

- `channel (Channel)`: The updated channel

Event: on_channel_delete

Raised when:

- A channel is deleted

Event Parameters:

- channel (**Channel**): The deleted channel

Event: on_channel_pin

Raised when:

- A message is pinned or unpinned in a text channel.

Note: This is not raised when a pinned message is deleted.

Event Parameters:

- channel_id (**int**): The id of the channel
- last_pin_timestamp (**int**): The time at which the most recent pinned message was pinned

Event: on_guild_create

Raised when:

- After the on_ready event, to fulfill the guild information.
- When a Guild becomes available again to the client.
- When the current user joins a new Guild.

Event Parameters:

- guild (**Guild**): The guild

```
@bot.event()
async def on_guild_create(guild):
    print(f'I\'m connected to {guild.name} guild, it got {len(guild.channels)}_
↪channels.')
```

Event: on_guild_delete

Raised when:

- A guild becomes unavailable during a guild outage
- The user leaves or is removed from a guild
- When the current user joins a new Guild.

Note: If the unavailable attribute is not set, the user was removed from the guild.

Event Parameters:

- guild (**Guild**): The guild

```
@bot.event()
async def on_guild_delete(guild):
    print(f'{guild.name} went offline?')
    if not guild.unavailable:
        print(f'I got removed from {guild}!')
```

Event: on_guild_emojis_update

Raised when:

- When a guild's emojis have been updated.

Event Parameters:

- `guild_id` (**int**): The guild id
- `emojis` (**list**): A list of emojis

Event: on_guild_integrations_update

Raised when:

- When a guild integration is updated.

Event Parameters:

- `guild_id` (**int**): The guild id.

Event: on_guild_member_add

Raised when:

- When a new user joins a guild.

Event Parameters:

- `guild_id` (**int**): The guild id.
- `member` (**GuildMember**): The user that joined.

Event: on_guild_member_remove

Raised when:

- A user is removed from a guild (leave/kick/ban).

Event Parameters:

- `guild_id` (**int**): The guild id.
- `user` (**User**): The user that was removed/left.

Event: on_guild_member_update

Raised when:

- A guild member is updated

Event Parameters:

- `guild_id` (**int**): The guild id.
- `roles` (**list**): User role ids.
- `user` (**User**): The user.
- `nick` (**str**): Nickname of the user in the guild.

Event: on_guild_members_chunk

Raised when:

- In response to Guild Request Members.

Event Parameters:

- `guild_id` (**int**): The guild id.
- `members` (**list**): Set of guild members

Event: on_guild_role_create

Raised when:

- A guild role is created.

Event Parameters:

- `guild_id` (**int**): The guild id.
- `role` (**Role**): The role created

Event: on_guild_role_update

Raised when:

- A guild role is updated.

Event Parameters:

- `guild_id` (**int**): The guild id.
- `role` (**Role**): The role updated

Event: on_guild_role_delete

Raised when:

- A guild role is deleted.

Event Parameters:

- `guild_id (int)`: The guild id.
- `role_id (int)`: The id of the deleted role

Event: `on_ban`

Raised when:

- A user is banned from a guild

Event Parameters:

- `guild_id (int)`: The guild id.
- `user (User)`: The banned .

Event: `on_ban_remove`

Raised when:

- A user is unbanned from a guild

Event Parameters:

- `guild_id (int)`: The guild id.
- `user (User)`: The unbanned user.

Event: `on_message`

Raised when:

- A user send a message to a channel

Event Parameters:

- `user_id (int)`: The id of the user that started typing.
- `channel_id (int)`: The id of the channel where the action happened.
- `timestamp (int)`: The timestamp telling when it happened.

```
@bot.event()
async def on_message(message):
    print(f'{message.author}: {message.content}')
```

Event: `on_message_update`

Raised when:

- A message is updated.

Note: Unlike `creates`, message updates may contain only a subset of the full message object payload (but will always contain an `id` and `channel_id`)

Event Parameters:

- `message (ChannelMessage)`: The Channel message that has been updated

```
@bot.event()
async def on_message_create(message):
    print(f'A message with id {message.id} has been updated.')
```

Event: on_message_delete

Raised when:

- A message is deleted.

Event Parameters:

- id (**int**): The id of the message.
- channel_id (**int**): The id of the channel.

```
@bot.event()
async def on_message_delete(id, channel_id):
    print(f'A message with id {id} has been deleted.')
```

Event: on_message_delete_bulk

Raised when:

- Multiple messages are deleted at once.

Event Parameters:

- ids (**int**): The ids of the messages
- channel_id (**int**): The id of the channel

```
@bot.event()
async def on_message_delete_bulk(ids, channel_id):
    print(f'Multiple messages have been deleted')
```

Event: on_message_reaction_add

Raised when:

- A user adds a reaction to a message

Event Parameters:

- user_id (**int**): The id of the user
- channel_id (**int**): The id of the channel
- message_id (**int**): The id of the message
- emoji (**Emoji**): The emoji used to react

```
@bot.event()
async def on_message_reaction_add(user_id, channel_id, message_id, emoji):
    user = await bot.get_user(user_id)
    print(f'{user} reacted to a message with {emoji.name}')
```

Event: on_message_reaction_remove

Raised when:

- A user removes a reaction from a message

Event Parameters:

- `user_id` (**int**): The id of the user
- `channel_id` (**int**): The id of the channel
- `message_id` (**int**): The id of the message
- `emoji` (**Emoji**): The emoji used to react

```
@bot.event()
async def on_message_reaction_remove(user_id, channel_id, message_id, emoji):
    user = await bot.get_user(user_id)
    print(f'{user} removed reaction {emoji.name} from a message.')
```

Event: on_message_reaction_remove_all

Raised when:

- A user explicitly removes all reactions from a message.

Event Parameters:

- `channel_id` (**int**): The id of the channel
- `message_id` (**int**): The id of the message

Event: on_presence_update

Raised when:

- A user's presence is updated for a guild.

Note: The user object within this event can be partial, the only field which must be set is the id field

Event Parameters:

- `user` (**User**): The user presence is being updated for
- `roles` (**list**): Ids of the roles this user is in
- `game` (**?Activity**): Null, or the user's current activity
- `guild_id` (**int**): The guild id
- `status` (**str**): Either "idle", "dnd", "online", or "offline"

Event: on_typing_start

Raised when:

- A user starts typing in a channel

Event Parameters:

- `user_id` (**int**): The id of the user that started typing.
- `channel_id` (**int**): The id of the channel where the action happened.
- `timestamp` (**int**): The timestamp telling when it happened.

```
@bot.event()
async def on_typing_start(user_id, channel_id, timestamp):
    user = await bot.get_user(user_id)
    print(f'{user} started typing!')
```

Event: `on_user_update`

Raised when:

- Properties about the user change

Event Parameters:

- `user` (**User**): The user that has been updated

Event: `on_voice_state_update`

Raised when:

- Someone joins/leaves/moves voice channels.

Event Parameters:

- `voice_state` (**VoiceState**): The voice state object

Event: `on_voice_server_update`

Raised when:

- A guild's voice server is updated.
- This is sent when initially connecting to voice, and when the current voice instance fails over to a new server.

Event Parameters:

- `token` (**str**): Voice connection token-
- `guild_id` (**int**): The guild this voice server update is for
- `endpoint` (**str**): The voice server host

Event: `on_webhooks_update`

Raised when:

- A guild's voice server is updated.
- This is sent when initially connecting to voice, and when the current voice instance fails over to a new server.

Event Parameters:

- `guild_id` (**int**): Id of the guild
- `channel_id` (**int**): Id of the channel

1.5.3 discord.aid

discord.aid is an asynchronous Discord API wrapper for python 3.6+

- *Submodules*

Submodules

`discord.aid.activity`

- *Classes*

Classes

- *Activity*: Represents a discord activity
- *ActivityParty*: Activity party
- *ActivityTimestamps*: Activity timestamps
- *ActivityAssets*: Activity assets

```
class discord.aid.activity.Activity(name="", type=0, url="", timestamps=None, application_id=0, details="", state="", party=None, assets=None)
```

Represents a discord activity

New in version 0.2.0.

name

the activity's name

Type `str`

type

activity type

Type `int`

url

stream url, is validated when type is 1

Type `str`, optional

timestamps

object unix timestamps for start and/or end of the game

Type `Timestamps`

application_id

application id for the game

Type `int`, optional

details

what the player is currently doing

Type `str`, optional

state

the user's current party status

Type `str`, optional

party

object information for the current party of the player

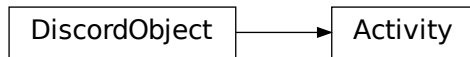
Type `Party`

assets

object images for the presence and their hover texts

Type `Assets`

Inheritance



class `discord.aidocumentation.activity.ActivityParty` (*id=""*, *size=[]*)
Activity party

New in version 0.2.0.

id

the id of the party

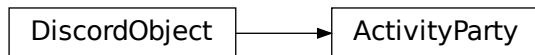
Type `str`, optional

size

array of two integers (*current_size*, *max_size*), used to show the party's current and maximum size

Type `list of int`

Inheritance



class `discord.aidocumentation.activity.ActivityTimestamps` (*start=0*, *end=0*)
Activity timestamps

New in version 0.2.0.

start

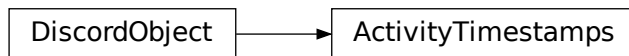
unix time (in milliseconds) of when the activity started

Type `int`, optional

end

unix time (in milliseconds) of when the activity ends

Type `int`, optional

Inheritance

```
class discord.aidocs.activity.ActivityAssets (large_image=", large_text=", small_image=",
small_text=")
```

Activity assets

New in version 0.2.0.

large_image

the id for a large asset of the activity, usually a snowflake

Type `str`, optional

large_text

text displayed when hovering over the large image of the activity

Type `str`, optional

small_image

the id for a small asset of the activity, usually a snowflake

Type `str`, optional

small_text

text displayed when hovering over the small image of the activity

Type `str`, optional

Inheritance

discord.aidocumentation.base

- *Classes*

Classes

- *DiscordObject*: Base class for discord objects.

class discord.aidocumentation.base.DiscordObject
Base class for discord objects.

Inheritance

DiscordObject

classmethod **await** **from_api_res** (*coro_or_json_or_str*, *bot*: *Optional[discord.aidocumentation.client.DiscordBot] = None*) *Optional*
Parses a discord API response

discord.aidocumentation.channel

Contains all related Channel Discord objects

- *Classes*

Classes

- *Channel*: Represents a guild or DM channel within Discord.
- *ChannelMessage*: Represents a message sent in a channel within Discord.
- *Overwrite*: Represents a Overwrite object.
- *MessageActivity*: Represents a Message Activity.
- *MessageApplication*: Represents a Message Application.
- *Reaction*: Represents a Reaction.
- *Embed*: Represents a discord Embed
- *EmbedThumbnail*: Represents a embed thumbnail object

- *EmbedVideo*: Represents a embed video
- *EmbedImage*: Represents a embed image
- *EmbedProvider*: Represents a embed provider
- *EmbedAuthor*: Represents a embed author
- *EmbedFooter*: Represents a embed footer
- *EmbedField*: Represents a embed field
- *Attachment*: Represents a attachment

```
class discordaido.channel.Channel (id: int = None, type: int = 0, guild_id: int = None, position: int = None, permission_overwrites: List[discordaido.channel.Overwrite] = [], name: str = None, topic: str = None, nsfw: bool = False, last_message_id: int = None, bitrate: int = None, user_limit: int = None, recipients: List[discordaido.user.User] = [], icon: str = None, owner_id: int = None, application_id: int = None, parent_id: int = None, last_pin_timestamp: int = None)
```

Represents a guild or DM channel within Discord.

New in version 0.2.0.

id

the id of this channel

type

the value_type of channel

guild_id

the id of the guild

position

sorting position of the channel

permission_overwrites

explicit permission overwrites for members and roles

name

the name of the channel (2-100 characters)

topic the channel topic

Type 0-1024 characters

nsfw

if the channel is nsfw

last_message_id

the id of the last message sent in this channel (may not point to an existing or valid message)

bitrate

the bitrate (in bits) of the voice channel

user_limit

the user limit of the voice channel

recipients

the recipients of the DM

icon

icon hash

owner_id

id of the DM creator

application_id application id of the group DM creator if it is bot-created

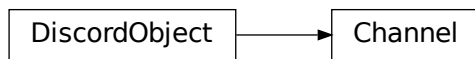
parent_id

id of the parent category for a channel

last_pin_timestamp

timestamp when the last pinned message was pinned

Inheritance



await bulk_delete_messages (*ids: List[T]*)

Delete multiple messages in a single request. This endpoint can only be used on guild channels and requires the `MANAGE_MESSAGES` permission.

This endpoint will not delete messages older than 2 weeks, and will fail if any message provided is older than that.

New in version 0.3.0.

await create_invite (*max_age: int, max_uses=0, temporary=False, unique=False*) → discord.aito.invite.Invite

Create a new invite object for the channel. Only usable for guild channels. Requires the `CREATE_INSTANT_INVITE` permission.

New in version 0.3.0.

await delete ()

Deletes the channel.

New in version 0.3.0.

await delete_permission (*overwrite_id*)

Delete a channel permission overwrite for a user or role in a channel. Only usable for guild channels. Requires the `MANAGE_ROLES` permission.

New in version 0.3.0.

await delete_pinned_message (*message_id*)

Delete a pinned message. Requires the `MANAGE_MESSAGES` permission.

New in version 0.3.0.

await get_invites () → List[discord.aito.invite.Invite]

Returns a list of invite objects (with invite metadata) for the channel. Only usable for guild channels. Requires the `MANAGE_CHANNELS` permission.

New in version 0.3.0.

await get_message (*message_id*) → discordaio.channel.ChannelMessage
Gets a specific channel message.

await get_messages (*limit: int = None, around: int = None, before: int = None, after: int = None*)
→ List[discordaio.channel.ChannelMessage]
Gets channel messages
New in version 0.3.0.

await get_pinned_messages () → List[discordaio.channel.ChannelMessage]
Returns all pinned messages in the channel as an array of message objects.
New in version 0.3.0.

mention () → str
Returns formatted channel mention.
New in version 0.3.0.

await pin_message (*message_id*)
Pin a message in a channel. Requires the MANAGE_MESSAGES permission.
New in version 0.3.0.

await refresh () → discordaio.channel.Channel
Returns a “refreshed” channel instance, may be used to make sure you have the latest state of the channel.
New in version 0.3.0.

Example

```
channel = await channel.refresh()
```

Returns The requested channel.

await send_message (*msg: str, tts=False*)
New in version 0.3.0.

Parameters

- **msg** – The message to send. If it’s over 2000 chars it will be splitted.
- **tts** – Wether to send it as a tts message.

TODO: Add embed and files.

await typing ()
Start typing.
New in version 0.3.0.

await update () → discordaio.channel.Channel
Updates the channel using the current channel instance properties.
New in version 0.3.0.

Returns The updated channel.

```
class discordaido.channel.ChannelMessage (id=None, channel_id=None, author: discordaido.user.User = None, content: str = None, timestamp: int = None, edited_timestamp: int = None, tts: bool = False, mention_everyone: bool = False, mentions: List[discordaido.user.User] = [], mention_roles: List[discordaido.role.Role] = [], attachments: List[discordaido.channel.Attachment] = [], embeds: List[discordaido.channel.Embed] = [], reactions: List[discordaido.channel.Reaction] = [], nonce: int = None, pinned=False, webhook_id=None, type=None, activity=<discordaido.channel.MessageActivity object>, application=<discordaido.channel.MessageApplication object>)
```

Represents a message sent in a channel within Discord.

New in version 0.2.0.

Note: The author object follows the structure of the *User* object, but is only a valid user in the case where the message is generated by a user or bot user. If the message is generated by a *Webhook*, the author object corresponds to the webhook's id, username, and avatar. You can tell if a message is generated by a webhook by checking for the `webhook_id` on the message object.

id

id of the message

channel_id

id of the channel the message was sent in

author

the author of this message (not guaranteed to be a valid user, see below)

content

contents of the message

timestamp

timestamp when this message was sent

edited_timestamp

timestamp when this message was edited (or null if never)

tts

whether this was a TTS message

mention_everyone

whether this message mentions everyone

mentions

objects users specifically mentioned in the message

mention_roles

object ids roles specifically mentioned in this message

attachments

objects any attached files

embeds

objects any embedded content

reactions

objects reactions to the message

nonce

used for validating a message was sent

pinned whether this message is pinned**webhook_id**

if the message is generated by a webhook, this is the webhook's id

type

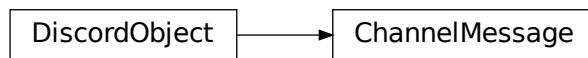
type of message

activity

activity object sent with Rich Presence-related chat embeds

application

application object sent with Rich Presence-related chat embeds

Inheritance**await delete ()**

Delete a message. If operating on a guild channel and trying to delete a message that was not sent by the current user, this endpoint requires the `MANAGE_MESSAGES` permission

await delete_all_reactions ()

Deletes all reactions on a message. This endpoint requires the 'MANAGE_MESSAGES' permission to be present on the current user.

await delete_own_reaction (emoji_id)

Delete a reaction the bot has made for the message

await delete_user_reaction (user_id, emoji_id)

Deletes another user's reaction. This endpoint requires the 'MANAGE_MESSAGES' permission to be present on the current user.

await get_reactions (emoji_id, before: int = None, after: int = None, limit: int = None) → List[discordaido.user.User]

Get a list of users that reacted with this emoji.

await update () → discordaido.channel.ChannelMessage

Updates a previously sent message with the current instance properties (content). You can only edit messages that have been sent by the current user. Returns a message object. Fires a Message Update Gateway event.

TODO: Add embed support

class discordaido.channel.Overwrite (*id=None, type=None, allow=None, deny=None*)

Represents a Overwrite object.

New in version 0.2.0.

id

role or user id

Type `int`

type

either “role” or “member”

Type `str`

allow

permission bit set

Type `int`

deny

permission bit set

Type `int`

Inheritance



class `discordaidocumentation.channel.MessageActivity` (*type: int = None, party_id: int = None*)

Represents a Message Activity.

New in version 0.2.0.

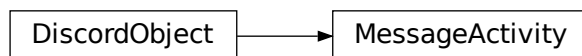
type

type of message activity

party_id

party_id from a Rich Presence event

Inheritance



class `discordaidocumentation.channel.MessageApplication` (*id=None, cover_image=None, description=None, icon=None, name=None*)

Represents a Message Application.

New in version 0.2.0.

id
id of the application
Type `int`

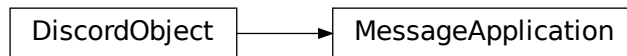
cover_image
id of the embed's image asset
Type `str`

description
application's description
Type `str`

icon
id of the application's icon
Type `str`

name
name of the application
Type `str`

Inheritance



class `discordaido.channel.Reaction` (*count: int = None, me: bool = False, emoji: discordaido.emoji.Emoji = None*)

Represents a Reaction.

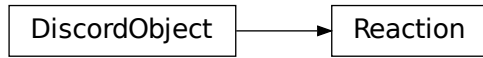
New in version 0.2.0.

count
times this emoji has been used to react

me
whether the current user reacted using this emoji

emoji emoji information

Inheritance



```
class discordaido.channel.Embed (title=None, type=None, description=None,  
url=None, timestamp=None, color=None,  
footer=<discordaido.channel.EmbedFooter object>,  
image=<discordaido.channel.EmbedImage object>,  
thumbnail=<discordaido.channel.EmbedThumbnail object>,  
video=<discordaido.channel.EmbedVideo object>,  
provider=<discordaido.channel.EmbedProvider object>,  
author=<discordaido.channel.EmbedAuthor object>, fields=[])
```

Represents a discord Embed

New in version 0.2.0.

title

title of embed

Type `str`

type

type of embed (always “rich” for webhook embeds)

Type `str`

description

description of embed

Type `str`

url

url of embed

Type `str`

timestamp

timestamp of embed content

Type `int`

color

color code of the embed

Type `int`

footer

footer information

Type `EmbedFooter`

image

image information

Type `EmbedImage`

thumbnail
 thumbnail information
 Type `EmbedThumbnail`

video
 video information
 Type `EmbedVideo`

provider
 provider information
 Type `EmbedProvider`

author
 author information
 Type `EmbedAuthor`

fields
 fields information
 Type `list of EmbedField`

Inheritance



class `discord.aidocumentation.channel.EmbedThumbnail` (`url=None`, `proxy_url=None`, `height=None`, `width=None`)

Represents an embed thumbnail object

New in version 0.2.0.

url
 source url of thumbnail (only supports http(s) and attachments)

Type `str`

proxy_url
 a proxied url of the thumbnail

Type `str`

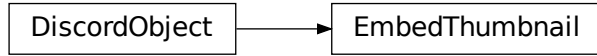
height
 height of thumbnail

Type `int`

width
 width of thumbnail

Type `int`

Inheritance



class discordaido.channel.**EmbedVideo** (*url=None, height=None, width=None*)

Represents a embed video

New in version 0.2.0.

url

source url of video

Type `str`

height

height of video

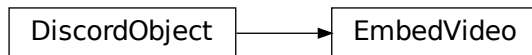
Type `int`

width

width of video

Type `int`

Inheritance



class discordaido.channel.**EmbedImage** (*url=None, proxy_url=None, height=None, width=None*)

Represents a embed image

New in version 0.2.0.

url

source url of image (only supports http(s) and attachments)

Type `str`

proxy_url

a proxied url of the image

Type `str`

height

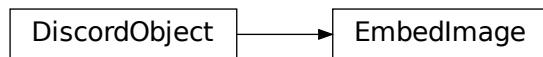
height of image

Type `int`

width
width of image

Type `int`

Inheritance



class `discordaido.channel.EmbedProvider` (*name=None, url=None*)

Represents a embed provider

New in version 0.2.0.

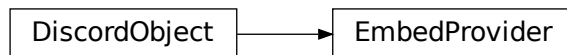
name
name of provider

Type `str`

url
url of provider

Type `str`

Inheritance



class `discordaido.channel.EmbedAuthor` (*name=None, url=None, icon_url=None, proxy_icon_url=None*)

Represents a embed author

New in version 0.2.0.

name
name of author

Type `str`

url
url of author

Type `str`

icon_url

url of author icon (only supports http(s) and attachments)

Type `str`

proxy_icon_url

a proxied url of author icon

Type `str`

Inheritance



class `discord.aidocumentation.channel.EmbedFooter` (*text=None, icon_url=None, proxy_icon_url=None*)

Represents an embed footer

New in version 0.2.0.

text

footer text

Type `str`

icon_url

url of footer icon (only supports http(s) and attachments)

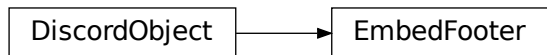
Type `str`

proxy_icon_url

a proxied url of footer icon

Type `str`

Inheritance



class `discord.aidocumentation.channel.EmbedField` (*name=None, value=None, inline=False*)

Represents an embed field

New in version 0.2.0.

name
name of the field
Type `str`

value
value of the field
Type `str`

inline
whether or not this field should display inline
Type `bool`

Inheritance



class `discord.aidocs.channel.Attachment` (*id=None, filename=None, size=None, url=None, proxy_url=None, height=None, width=None*)

Represents a attachment

New in version 0.2.0.

id
attachment id
Type `int`

filename
name of file attached
Type `str`

size
size of file in bytes
Type `int`

url
source url of file
Type `str`

proxy_url
a proxied url of file
Type `str`

height
height of file (if image)
Type `int`

width

width of file (if image)

Type `int`

Inheritance



`discordaido.client`

• *Classes*

Classes

- *DiscordBot*: This class represents a discord bot object, it has many utility methods for making a bot.

class `discordaido.client.DiscordBot` (*token: str*)

This class represents a discord bot object, it has many utility methods for making a bot.

New in version 0.2.0.

token

The discord token used for authentication

Type `str`

http

Used for making http requests and websocket creation.

Type `HTTPHandler`

guilds

The list of guilds the bot is in.

Type `list of Guild`

user

The user object of the bot.

Type `User`

ws

The websocket used for communication

Type `DiscordWebsocket`

Inheritance

DiscordBot

event (*name: str = None*)

DiscordBot event decorator, uses the function's name or the 'name' parameter to subscribe to a event

New in version 0.2.0.

await exit ()

Disconnects the bot

New in version 0.2.0.

await get_channel (*channel_id: int*) → discordaio.channel.Channel

Gets a channel from it's id

New in version 0.2.0.

Parameters **channel_id** – The channel id

await get_dms () → List[discordaio.channel.Channel]

Gets a list of dms.

New in version 0.2.0.

Returns The DMs channels

Return type *list of Channel*

await get_guild (*guild_id: int*) → discordaio.guild.Guild

Returns a Guild object from a guild id.

New in version 0.2.0.

Parameters **guild_id** (*int*) – The guild id

Returns The requested guild

Return type *Guild*

await get_guilds () → List[discordaio.guild.Guild]

Returns a list of guilds where the bot is in.

New in version 0.2.0.

await get_self_user () → discordaio.user.User

Returns the bot user object. (it's like *get_user('@me')*)

New in version 0.2.0.

await get_user (*id*) → discordaio.user.User

Gets the user object from the given user id.

New in version 0.2.0.

Parameters **id** (*int*) – The user id

Returns The requested user

Return type *User*

await move_channels (*guild_id: int, array: List[Tuple[int, int]]*)

Modify the positions of a set of channel objects for the guild.

Note: Requires 'MANAGE_CHANNELS' permission. Fires multiple Channel Update events. Only channels to be modified are required, with the minimum being a swap between at least two channels.

Parameters

- **guild_id** – The id of the guild.
- **array** – A list of tuples containing (channel_id, position)

run () → None

Starts the bot, making it connect to discord.

New in version 0.2.0.

discordaio.constants

- *Variables*

Variables

- *DISCORD_CDN*
- *DISCORD_API_URL*

`discordaio.constants.DISCORD_CDN`

`str(object='') -> str str(bytes_or_buffer[, encoding[, errors]]) -> str`

Create a new string object from the given object. If encoding or errors is specified, then the object must expose a data buffer that will be decoded using the given encoding and error handler. Otherwise, returns the result of `object.__str__()` (if defined) or `repr(object)`. encoding defaults to `sys.getdefaultencoding()`. errors defaults to 'strict'. .. code-block:: text

```
'https://cdn.discordapp.com'
```

`discordaio.constants.DISCORD_API_URL`

`str(object='') -> str str(bytes_or_buffer[, encoding[, errors]]) -> str`

Create a new string object from the given object. If encoding or errors is specified, then the object must expose a data buffer that will be decoded using the given encoding and error handler. Otherwise, returns the result of `object.__str__()` (if defined) or `repr(object)`. encoding defaults to `sys.getdefaultencoding()`. errors defaults to 'strict'. .. code-block:: text

```
'https://discordapp.com/api/v8'
```

discord.aio.emoji

- *Classes*

Classes

- *Emoji*: Represents a emoji object

class discord.aio.emoji.**Emoji** (*id=0, name="", roles=[], user=None, require_colons=False, managed=False, animated=False*)

Represents a emoji object

New in version 0.2.0.

id

emoji id

Type `int`

name

emoji name

Type `str`

roles

object ids roles this emoji is whitelisted to

Type `list of Role`

user

object user that created this emoji

Type `User`

require_colons

whether this emoji must be wrapped in colons

Type `bool`, optional

managed

whether this emoji is managed

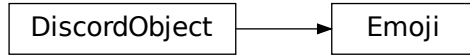
Type `bool`, optional

animated

whether this emoji is animated

Type `bool`, optional

Inheritance



discord.aidocs.enums

- *Classes*

Classes

- *MessageNotificationLevel*: An enumeration.
- *ExplicitContentFilterLevel*: An enumeration.
- *MFALevel*: An enumeration.
- *VerificationLevel*: An enumeration.
- *ChannelTypes*: An enumeration.
- *MessageActivityTypes*: An enumeration.
- *GatewayOpcodes*: An enumeration.

class discord.aidocs.enums.**MessageNotificationLevel**
An enumeration.

Inheritance



class discord.aidocs.enums.**ExplicitContentFilterLevel**
An enumeration.

Inheritance



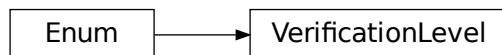
```
class discordaio.enums.MFALevel  
An enumeration.
```

Inheritance



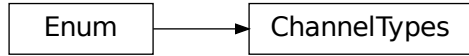
```
class discordaio.enums.VerificationLevel  
An enumeration.
```

Inheritance



```
class discordaio.enums.ChannelTypes  
An enumeration.
```

Inheritance



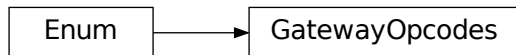
class discordaio.enums.**MessageActivityTypes**
An enumeration.

Inheritance



class discordaio.enums.**GatewayOpcodes**
An enumeration.

Inheritance



discordaio.exceptions

- *Exceptions*

Exceptions

- *WebSocketCreationError*: Common base class for all non-exit exceptions.
- *EventTypeError*: Common base class for all non-exit exceptions.

- *AuthorizationError*: Common base class for all non-exit exceptions.
- *UnhandledEndpointStatusError*: Common base class for all non-exit exceptions.

exception discord.aidocumentation.exceptions.**WebSocketCreationError**

Inheritance

WebSocketCreationError

exception discord.aidocumentation.exceptions.**EventTypeError**

Inheritance

EventTypeError

exception discord.aidocumentation.exceptions.**AuthorizationError** (*message*)

Inheritance

AuthorizationError

exception discord.aidocumentation.exceptions.**UnhandledEndpointStatusError**

Inheritance

UnhandledEndpointStatusError

discord.aido.guild

- *Classes*

Classes

- *Guild*: Represents a guild
- *GuildMember*: Represents a guild member
- *GuildEmbed*: Represents a guild embed
- *IntegrationAccount*: Represents a integration account
- *Integration*: Represents a integration
- *Ban*: Represents a ban

```
class discord.aido.guild.Guild(id=0, name="", icon="", splash="", owner=False, owner_id=0,
permissions=0, region="", afk_channel_id=0, afk_timeout=0, embed_enabled=False, embed_channel_id=0, verification_level=0,
default_message_notifications=0, explicit_content_filter=0, roles=[], emojis=[], features=[], mfa_level=0, application_id=0,
widget_enabled=False, widget_channel_id=0, system_channel_id=0, joined_at=None, large=None, unavailable=None, member_count=None, voice_states=None, members=[], channels=None, presences=None)
```

Represents a guild

New in version 0.2.0.

Note: Guilds in Discord represent an isolated collection of users and channels, and are often referred to as “servers” in the UI.

id

guild id

Type `int`

name

guild name (2-100 characters)

Type `str`

icon
icon hash

Type `str`

splash
splash hash

Type `str`

owner
whether or not the user is the owner of the guild

Type `bool`, optional

owner_id
id of owner

Type `int`

permissions
total permissions for the user in the guild (does not include channel overrides)

Type `int`, optional

region
voice region id for the guild

Type `str`

afk_channel_id
id of afk channel

Type `int`

afk_timeout
afk timeout in seconds

Type `int`

embed_enabled
is this guild embeddable (e.g. widget)

Type `bool`, optional

embed_channel_id
id of embedded channel

Type `int`, optional

verification_level
verification level required for the guild

Type `int`

default_message_notifications
default message notifications level

Type `int`

explicit_content_filter
explicit content filter level

Type `int`

roles
roles in the guild
Type `list of Role`

emojis
custom guild emojis
Type `list of Emoji`

features
enabled guild features
Type `list of Strings`

mfa_level
required MFA level for the guild
Type `int`

application_id
application id of the guild creator if it is bot-created
Type `int`

widget_enabled
whether or not the server widget is enabled
Type `bool`, optional

widget_channel_id
the channel id for the server widget
Type `int`, optional

system_channel_id
the id of the channel to which system messages are sent
Type `int`

joined_at
timestamp when this guild was joined at
Type `int`, optional

large
whether this is considered a large guild
Type `bool`, optional

unavailable
is this guild unavailable
Type `bool`, optional

member_count
total number of members in this guild
Type `int`, optional

voice_states
(without the `guild_id` key)
Type `list of Partial`

members
users in the guild

Type `list of Guild`

channels

channels in the guild

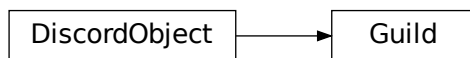
Type `list of Channel`

presences

presences of the users in the guild

Type `list of Partial`

Inheritance



await create_channel (*channel: discordaido.channel.Channel*) → discordaido.channel.Channel

Creates a new guild channel

New in version 0.3.0.

Parameters **channel** – The channel to create.

await delete () → None

Deletes the guild

New in version 0.3.0.

Raises `AuthorizationError` – Raised if you have no authorization to delete the guild.

await get_channels () → discordaido.channel.Channel

Returns a list of channels withing the guild.

New in version 0.3.0.

get_icon () → str

Returns the guild icon

New in version 0.2.0.

Returns The icon link

Return type str

await get_member (*member_id: int*) → discordaido.guild.GuildMember

Gets a guild member.

New in version 0.3.0.

Parameters **member_id** – The member id

await get_members ()

Gets and fills the guild with the members info.

New in version 0.3.0.

get_splash()

Returns the guild splash

New in version 0.2.0.

Returns The splash link

Return type `str`

is_owner (*member: discordaidocumentation.guild.GuildMember*) → bool

Returns whether the guild member is the owner of the guild

New in version 0.2.0.

Parameters **member** (*GuildMember*) – The member

Returns True if it's the owner, False otherwise.

Return type `bool`

await leave()

Leaves a guild.

New in version 0.3.0.

class discordaidocumentation.guild.**GuildMember** (*user=<User Object: #, 0>, nick="", roles=[], joined_at=None, deaf=False, mute=False*)

Represents a guild member

New in version 0.2.0.

user

user object

Type *User*

nick

this user's guild nickname (if one is set)

Type `str`, optional

roles

array of role object ids

Type `list of int`

joined_at

timestamp when the user joined the guild

Type `int`

deaf

if the user is deafened

Type `bool`

mute

if the user is muted

Type `bool`

Inheritance



class discordaido.guild.**GuildEmbed** (*enabled=False, channel_id=0*)

Represents a guild embed

New in version 0.2.0.

enabled

if the embed is enabled

Type `bool`

channel_id

the embed channel id

Type `int`

Inheritance



class discordaido.guild.**IntegrationAccount** (*id="", name=""*)

Represents a integration account

New in version 0.2.0.

id

id of the account

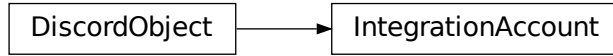
Type `str`

name

name of the account

Type `str`

Inheritance



```
class discordaido.guild.Integration (id=0, name="", type="", enabled=False, syncing=False, role_id=0, expire_behavior=0, expire_grace_period=0, user=None, account=None, synced_at=None)
```

Represents a integration

New in version 0.2.0.

id

integration id

Type `int`

name

integration name

Type `str`

type

integration type (twitch, youtube, etc)

Type `str`

enabled

is this integration enabled

Type `bool`

syncing

is this integration syncing

Type `bool`

role_id

id that this integration uses for “subscribers”

Type `int`

expire_behavior

the behavior of expiring subscribers

Type `int`

expire_grace_period

the grace period before expiring subscribers

Type `int`

user

object user for this integration

Type `User`

account

account information

Type `Account`**synced_at**

timestamp when this integration was last synced

Type `int`**Inheritance****class** `discord.aido.guild.Ban` (*reason=""*, *user=None*)

Represents a ban

New in version 0.2.0.

reason

the reason for the ban

Type `str`**user**

the banned user

Type `User`**Inheritance****discord.aido.http**

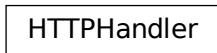
- *Classes*

Classes

- *HTTPHandler*: Undocumented.
- *RateLimit*: Base class for discord objects.

class discordaido.http.**HTTPHandler** (*token, discord_client*)

Inheritance



class discordaido.http.**RateLimit** (*message="", retry_after=0, _global=False*)

Inheritance



discordaido.invite

- *Classes*

Classes

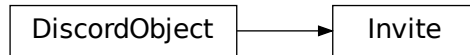
- *Invite*: Represents a code that when used, adds a user to a guild.

class discordaido.invite.**Invite** (*code="", guild: Optional[discordaido.guild.Guild] = None, channel: Optional[discordaido.channel.Channel] = None, inviter: Optional[discordaido.user.User] = None, uses=0, max_uses=0, max_age=0, temporary=False, created_at=None, revoked=False*)

Represents a code that when used, adds a user to a guild.

New in version 0.2.0.

Inheritance



discord.aido.permissions

TODO: do this, remember to do: channel edit permissions endpoint <https://discordapp.com/developers/docs/topics/permissions#permissions>

discord.aido.role

- *Classes*

Classes

- *Role*: Represents a discord role

```

class discord.aido.role.Role(id=0, name="", color=0, hoist=False, position=0, permissions=0,
                             managed=False, mentionable=False)
  
```

Represents a discord role

New in version 0.2.0.

id

role id

Type `int`

name

role name

Type `str`

color

integer representation of hexadecimal color code

Type `int`

hoist

if this role is pinned in the user listing

Type `bool`

position

position of this role

Type `int`

permissions

permission bit set

Type `int`**managed**

whether this role is managed by an integration

Type `bool`**mentionable**

whether this role is mentionable

Type `bool`**Inheritance****discord.aido.user**

Users in Discord are generally considered the base entity. Users can spawn across the entire platform, be members of guilds, participate in text and voice chat, and much more. Users are separated by a distinction of “bot” vs “normal.” Although they are similar, bot users are automated users that are “owned” by another user. Unlike normal users, bot users do not have a limitation on the number of Guilds they can be a part of.

- *Classes*

Classes

- *User*: Represents a discord user
- *UserConnection*: Represents a discord user connection

```
class discord.aido.user.User (id=0, username="", discriminator="", avatar="", bot=False, system=False, mfa_enabled=False, locale="", verified=False, email="", flags=0, premium_type=0, public_flags=0)
```

Represents a discord user

New in version 0.2.0.

id

the user’s id identify

Type `int`

username

the user's username, not unique across the platform identify

Type `str`

discriminator

the user's 4-digit discord-tag identify

Type `str`

avatar

the user's avatar hash identify

Type `str`

bot

whether the user belongs to an OAuth2 application identify

Type `bool`, optional

system

whether the user is an Official Discord System user (part of the urgent message system)

Type `bool`, optional

mfa_enabled

whether the user has two factor enabled on their account identify

Type `bool`, optional

verified

whether the email on this account has been verified email

Type `bool`, optional

email

the user's email email

Type `str`, optional

flags

the flags on a user's account

Type `int`, optional

premium_type

the type of Nitro subscription on a user's account

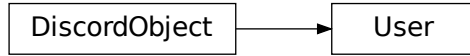
Type `int`, optional

public_flags

the public flags on a user's account

Type `int`, optional

Inheritance



```
class discordaido.user.UserConnection (id="", name="", type="", revoked=False, integrations=[])
```

Represents a discord user connection

New in version 0.2.0.

id

id of the connection account

Type `str`

name

the username of the connection account

Type `str`

type

the service of the connection (twitch, youtube)

Type `str`

revoked

whether the connection is revoked

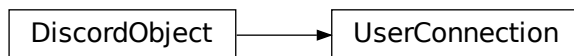
Type `bool`

integrations

an array of partial server integrations

Type `list`

Inheritance



`discordaido.version`

- *Variables*

Variables

- `__version__`

`discordaio.version.__version__`
`str(object=”) -> str str(bytes_or_buffer[, encoding[, errors]]) -> str`

Create a new string object from the given object. If encoding or errors is specified, then the object must expose a data buffer that will be decoded using the given encoding and error handler. Otherwise, returns the result of `object.__str__()` (if defined) or `repr(object)`. encoding defaults to `sys.getdefaultencoding()`. errors defaults to `‘strict’`. .. code-block:: text

```
‘0.3.1’
```

`discordaio.voice`

- *Classes*

Classes

- *VoiceState*: Used to represent a user’s voice connection status.
- *VoiceRegion*: Attributes:

```
class discordaio.voice.VoiceState (guild_id: Optional[int] = None, channel_id: int = 0, user_id: int = 0, session_id: str = "", deaf=False, mute=False, self_deaf=False, self_mute=False, suppress=False)
```

Used to represent a user’s voice connection status.

guild_id
the guild id this voice state is for

Type `int`, optional

channel_id
the channel id this user is connected to

Type `int`

user_id
the user id this voice state is for

Type `int`

session_id
the session id for this voice state

Type `str`

deaf
whether this user is deafened by the server

Type `bool`

mute

whether this user is muted by the server

Type `bool`

self_deaf

whether this user is locally deafened

Type `bool`

self_mute

whether this user is locally muted

Type `bool`

suppress

whether this user is muted by the current user

Type `bool`

Inheritance



```
class discordaido.voice.VoiceRegion(id="", name="", vip=False, optimal=False, deprecated=False, custom=False)
```

id

unique ID for the region

Type `str`

name

name of the region

Type `str`

vip

true if this is a vip-only server

Type `bool`

optimal

true for a single server that is closest to the current user's client

Type `bool`

deprecated

whether this is a deprecated voice region (avoid switching to these)

Type `bool`

custom

whether this is a custom voice region (used for events/etc)

Type `bool`

Inheritance**discord.aido.webhook**

Webhooks are a low-effort way to post messages to channels in Discord. They do not require a bot user or authentication to use.

- *Classes*

Classes

- *Webhook*: Used to represent a webhook.

```
class discord.aido.webhook.Webhook (id=0, guild_id=0, channel_id=0, user=None, name="", avatar="", token="")
```

Used to represent a webhook.

New in version 0.2.0.

id

the id of the webhook

Type `int`

guild_id

the guild id this webhook is for

Type `int`, optional

channel_id

the channel id this webhook is for

Type `int`

user

the user this webhook was created by (not returned when getting a webhook with its token)

Type `User`

name

the default name of the webhook

Type `str`

avatar

the default avatar of the webhook

Type `str`

token

the secure token of the webhook

Type `str`

Inheritance



discordaio.websocket

- *Classes*

Classes

- *DiscordWebsocket*: Class used for handling the websocket connection with the discord gateway

class `discordaio.websocket.DiscordWebsocket` (*http: discordaio.http.HTTPHandler = None, session_id: str = None, shards: list = []*)

Class used for handling the websocket connection with the discord gateway

New in version 0.2.0.

heartbeat_interval

The interval to send pings

Type `float`

_trace

Used for debugging

Type `str`

seq

Used in pings

Type `str`

session_id

Used for resuming

Type `str`

http

Used for sending http requests and session handling.

Type `HTTPHandler`

gateway_url

The gateway url

Type `str`

shards

Used for opening multiple connections

Type `list of int`

ws (

`class:aiohttp.ClientWebSocketResponse`): The websocket

Inheritance

DiscordWebsocket

await close () → `bool`

Closes the websocket

New in version 0.2.0.

Returns True if succeeded closing. False if the websocket was already closed

Return type `bool`

await start ()

Starts the websocket

New in version 0.2.0.

1.5.4 Changelog

Version 0.4.0 (dev)

- Updated to discord api v8

Version 0.3.1

- Fixed async error when closing bot using ctrl-c
- Added Channel#send_message
- Added Channel#mention

- Added Channel#typing
- Added Channel#delete
- Added Channel#update
- Added Channel#refresh
- Added Channel#get_message
- Added ChannelMessage#delete_own_reaction
- Added ChannelMessage#delete_user_reaction
- Added ChannelMessage#delete_all_reactions
- Added ChannelMessage#get_reactions
- Added ChannelMessage#update
- Added ChannelMessage#delete
- Added ChannelMessage#bulk_delete_messages
- Added ChannelMessage#get_invites
- Added ChannelMessage#create_invite
- Added ChannelMessage#delete_permission
- Added ChannelMessage#get_pinned_messages
- Added ChannelMessage#pin_message
- Added ChannelMessage#delete_pinned_message
- Moved DiscordBot#get_messages to Channel#get_messages
- Moved DiscordBot#leave_guild to Guild#leave
- Moved DiscordBot#get_guild_member to Guild#get_member
- Moved DiscordBot#get_guild_members to Guild#get_members
- Moved DiscordBot#create_guild_channel to Guild#create_channel
- Moved DiscordBot#delete_guild to Guild#delete
- Moved DiscordBot#get_guild_channels to Guild#get_channels
- Moved DiscordBot#modify_channel to Channel#update

Version 0.2.2

- Added DiscordBot.get_guild_channels method
- Added DiscordBot.create_guild_channel method
- Added DiscordBot.delete_guild method
- Added DiscordBot.move_channels method
- Added NotFoundError exception
- Added GatewayUnavailable exception
- Added BadRequestError exception
- Added AuthorizationError exception

- Fixed a bug in websocket

Version 0.2.0

- All discord events can be used now.

Version 0.1.0

- Initial development version

CHAPTER 2

Indices and tables

- `genindex`
- `modindex`
- `search`

d

- `discordaio`, 13
- `discordaio.activity`, 13
- `discordaio.base`, 16
- `discordaio.channel`, 16
- `discordaio.client`, 30
- `discordaio.constants`, 32
- `discordaio.emoji`, 33
- `discordaio.enums`, 34
- `discordaio.exceptions`, 36
- `discordaio.guild`, 38
- `discordaio.http`, 45
- `discordaio.invite`, 46
- `discordaio.permissions`, 47
- `discordaio.role`, 47
- `discordaio.user`, 48
- `discordaio.version`, 50
- `discordaio.voice`, 51
- `discordaio.webhook`, 53
- `discordaio.websocket`, 54

Symbols

`__version__` (in module `discordaio.version`), 51
`_trace` (`discordaio.websocket.DiscordWebsocket` attribute), 54

A

`account` (`discordaio.guild.Integration` attribute), 44
`Activity` (class in `discordaio.activity`), 13
`activity` (`discordaio.channel.ChannelMessage` attribute), 21
`ActivityAssets` (class in `discordaio.activity`), 15
`ActivityParty` (class in `discordaio.activity`), 14
`ActivityTimestamps` (class in `discordaio.activity`), 14
`afk_channel_id` (`discordaio.guild.Guild` attribute), 39
`afk_timeout` (`discordaio.guild.Guild` attribute), 39
`allow` (`discordaio.channel.Overwrite` attribute), 22
`animated` (`discordaio.emoji.Emoji` attribute), 33
`application` (`discordaio.channel.ChannelMessage` attribute), 21
`application_id` (`discordaio.activity.Activity` attribute), 13
`application_id` (`discordaio.guild.Guild` attribute), 40
`assets` (`discordaio.activity.Activity` attribute), 14
`Attachment` (class in `discordaio.channel`), 29
`attachments` (`discordaio.channel.ChannelMessage` attribute), 20
`author` (`discordaio.channel.ChannelMessage` attribute), 20
`author` (`discordaio.channel.Embed` attribute), 25
`AuthorizationError`, 37
`avatar` (`discordaio.user.User` attribute), 49
`avatar` (`discordaio.webhook.Webhook` attribute), 54

B

`Ban` (class in `discordaio.guild`), 45
`bitrate` (`discordaio.channel.Channel` attribute), 17

`bot` (`discordaio.user.User` attribute), 49
`bulk_delete_messages()` (`discordaio.channel.Channel` method), 18

C

`Channel` (class in `discordaio.channel`), 17
`channel_id` (`discordaio.channel.ChannelMessage` attribute), 20
`channel_id` (`discordaio.guild.GuildEmbed` attribute), 43
`channel_id` (`discordaio.voice.VoiceState` attribute), 51
`channel_id` (`discordaio.webhook.Webhook` attribute), 53
`ChannelMessage` (class in `discordaio.channel`), 19
`channels` (`discordaio.guild.Guild` attribute), 41
`ChannelTypes` (class in `discordaio.enums`), 35
`close()` (`discordaio.websocket.DiscordWebsocket` method), 55
`color` (`discordaio.channel.Embed` attribute), 24
`color` (`discordaio.role.Role` attribute), 47
`content` (`discordaio.channel.ChannelMessage` attribute), 20
`count` (`discordaio.channel.Reaction` attribute), 23
`cover_image` (`discordaio.channel.MessageApplication` attribute), 23
`create_channel()` (`discordaio.guild.Guild` method), 41
`create_invite()` (`discordaio.channel.Channel` method), 18
`custom` (`discordaio.voice.VoiceRegion` attribute), 52

D

`deaf` (`discordaio.guild.GuildMember` attribute), 42
`deaf` (`discordaio.voice.VoiceState` attribute), 51
`default_message_notifications` (`discordaio.guild.Guild` attribute), 39
`delete()` (`discordaio.channel.Channel` method), 18
`delete()` (`discordaio.channel.ChannelMessage` method), 21

- delete() (*discordaio.guild.Guild method*), 41
- delete_all_reactions() (*discordaio.channel.ChannelMessage method*), 21
- delete_own_reaction() (*discordaio.channel.ChannelMessage method*), 21
- delete_permission() (*discordaio.channel.Channel method*), 18
- delete_pinned_message() (*discordaio.channel.Channel method*), 18
- delete_user_reaction() (*discordaio.channel.ChannelMessage method*), 21
- deny (*discordaio.channel.Overwrite attribute*), 22
- deprecated (*discordaio.voice.VoiceRegion attribute*), 52
- description (*discordaio.channel.Embed attribute*), 24
- description (*discordaio.channel.MessageApplication attribute*), 23
- details (*discordaio.activity.Activity attribute*), 13
- DISCORD_API_URL (*in module discordaio.constants*), 32
- DISCORD_CDN (*in module discordaio.constants*), 32
- discordaio (*module*), 13
- discordaio.activity (*module*), 13
- discordaio.base (*module*), 16
- discordaio.channel (*module*), 16
- discordaio.client (*module*), 30
- discordaio.constants (*module*), 32
- discordaio.emoji (*module*), 33
- discordaio.enums (*module*), 34
- discordaio.exceptions (*module*), 36
- discordaio.guild (*module*), 38
- discordaio.http (*module*), 45
- discordaio.invite (*module*), 46
- discordaio.permissions (*module*), 47
- discordaio.role (*module*), 47
- discordaio.user (*module*), 48
- discordaio.version (*module*), 50
- discordaio.voice (*module*), 51
- discordaio.webhook (*module*), 53
- discordaio.websocket (*module*), 54
- DiscordBot (*class in discordaio.client*), 30
- DiscordObject (*class in discordaio.base*), 16
- DiscordWebsocket (*class in discordaio.websocket*), 54
- discriminator (*discordaio.user.User attribute*), 49
- E**
- edited_timestamp (*discordaio.channel.ChannelMessage attribute*), 20
- email (*discordaio.user.User attribute*), 49
- Embed (*class in discordaio.channel*), 24
- embed_channel_id (*discordaio.guild.Guild attribute*), 39
- embed_enabled (*discordaio.guild.Guild attribute*), 39
- EmbedAuthor (*class in discordaio.channel*), 27
- EmbedField (*class in discordaio.channel*), 28
- EmbedFooter (*class in discordaio.channel*), 28
- EmbedImage (*class in discordaio.channel*), 26
- EmbedProvider (*class in discordaio.channel*), 27
- embeds (*discordaio.channel.ChannelMessage attribute*), 20
- EmbedThumbnail (*class in discordaio.channel*), 25
- EmbedVideo (*class in discordaio.channel*), 26
- Emoji (*class in discordaio.emoji*), 33
- emojis (*discordaio.guild.Guild attribute*), 40
- enabled (*discordaio.guild.GuildEmbed attribute*), 43
- enabled (*discordaio.guild.Integration attribute*), 44
- end (*discordaio.activity.ActivityTimestamps attribute*), 15
- event() (*discordaio.client.DiscordBot method*), 31
- EventTypeError, 37
- exit() (*discordaio.client.DiscordBot method*), 31
- expire_behavior (*discordaio.guild.Integration attribute*), 44
- expire_grace_period (*discordaio.guild.Integration attribute*), 44
- explicit_content_filter (*discordaio.guild.Guild attribute*), 39
- ExplicitContentFilterLevel (*class in discordaio.enums*), 34
- F**
- features (*discordaio.guild.Guild attribute*), 40
- fields (*discordaio.channel.Embed attribute*), 25
- filename (*discordaio.channel.Attachment attribute*), 29
- flags (*discordaio.user.User attribute*), 49
- footer (*discordaio.channel.Embed attribute*), 24
- from_api_res() (*discordaio.base.DiscordObject method*), 16
- G**
- gateway_url (*discordaio.websocket.DiscordWebsocket attribute*), 55
- GatewayOpcodes (*class in discordaio.enums*), 36
- get_channel() (*discordaio.client.DiscordBot method*), 31
- get_channels() (*discordaio.guild.Guild method*), 41
- get_dms() (*discordaio.client.DiscordBot method*), 31
- get_guild() (*discordaio.client.DiscordBot method*), 31

get_guilds() (*discordaio.client.DiscordBot method*), 31
 get_icon() (*discordaio.guild.Guild method*), 41
 get_invites() (*discordaio.channel.Channel method*), 18
 get_member() (*discordaio.guild.Guild method*), 41
 get_members() (*discordaio.guild.Guild method*), 41
 get_message() (*discordaio.channel.Channel method*), 18
 get_messages() (*discordaio.channel.Channel method*), 19
 get_pinned_messages() (*discordaio.channel.Channel method*), 19
 get_reactions() (*discordaio.channel.ChannelMessage method*), 21
 get_self_user() (*discordaio.client.DiscordBot method*), 31
 get_splash() (*discordaio.guild.Guild method*), 41
 get_user() (*discordaio.client.DiscordBot method*), 31
 Guild (*class in discordaio.guild*), 38
 guild_id (*discordaio.channel.Channel attribute*), 17
 guild_id (*discordaio.voice.VoiceState attribute*), 51
 guild_id (*discordaio.webhook.Webhook attribute*), 53
 GuildEmbed (*class in discordaio.guild*), 43
 GuildMember (*class in discordaio.guild*), 42
 guilds (*discordaio.client.DiscordBot attribute*), 30

H

heartbeat_interval (*discordaio.websocket.DiscordWebsocket attribute*), 54
 height (*discordaio.channel.Attachment attribute*), 29
 height (*discordaio.channel.EmbedImage attribute*), 26
 height (*discordaio.channel.EmbedThumbnail attribute*), 25
 height (*discordaio.channel.EmbedVideo attribute*), 26
 hoist (*discordaio.role.Role attribute*), 47
 http (*discordaio.client.DiscordBot attribute*), 30
 http (*discordaio.websocket.DiscordWebsocket attribute*), 55
 HTTPHandler (*class in discordaio.http*), 46

I

icon (*discordaio.channel.Channel attribute*), 17
 icon (*discordaio.channel.MessageApplication attribute*), 23
 icon (*discordaio.guild.Guild attribute*), 39
 icon_url (*discordaio.channel.EmbedAuthor attribute*), 28
 icon_url (*discordaio.channel.EmbedFooter attribute*), 28
 id (*discordaio.activity.ActivityParty attribute*), 14
 id (*discordaio.channel.Attachment attribute*), 29
 id (*discordaio.channel.Channel attribute*), 17
 id (*discordaio.channel.ChannelMessage attribute*), 20
 id (*discordaio.channel.MessageApplication attribute*), 23
 id (*discordaio.channel.Overwrite attribute*), 22
 id (*discordaio.emoji.Emoji attribute*), 33
 id (*discordaio.guild.Guild attribute*), 38
 id (*discordaio.guild.Integration attribute*), 44
 id (*discordaio.guild.IntegrationAccount attribute*), 43
 id (*discordaio.role.Role attribute*), 47
 id (*discordaio.user.User attribute*), 48
 id (*discordaio.user.UserConnection attribute*), 50
 id (*discordaio.voice.VoiceRegion attribute*), 52
 id (*discordaio.webhook.Webhook attribute*), 53
 image (*discordaio.channel.Embed attribute*), 24
 inline (*discordaio.channel.EmbedField attribute*), 29
 Integration (*class in discordaio.guild*), 44
 IntegrationAccount (*class in discordaio.guild*), 43
 integrations (*discordaio.user.UserConnection attribute*), 50
 Invite (*class in discordaio.invite*), 46
 is_owner() (*discordaio.guild.Guild method*), 42

J

joined_at (*discordaio.guild.Guild attribute*), 40
 joined_at (*discordaio.guild.GuildMember attribute*), 42

L

large (*discordaio.guild.Guild attribute*), 40
 large_image (*discordaio.activity.ActivityAssets attribute*), 15
 large_text (*discordaio.activity.ActivityAssets attribute*), 15
 last_message_id (*discordaio.channel.Channel attribute*), 17
 last_pin_timestamp (*discordaio.channel.Channel attribute*), 18
 leave() (*discordaio.guild.Guild method*), 42

M

managed (*discordaio.emoji.Emoji attribute*), 33
 managed (*discordaio.role.Role attribute*), 48
 me (*discordaio.channel.Reaction attribute*), 23
 member_count (*discordaio.guild.Guild attribute*), 40
 members (*discordaio.guild.Guild attribute*), 40
 mention() (*discordaio.channel.Channel method*), 19
 mention_everyone (*discordaio.channel.ChannelMessage attribute*), 20
 mention_roles (*discordaio.channel.ChannelMessage attribute*), 20

mentionable (*discordaio.role.Role* attribute), 48
 mentions (*discordaio.channel.ChannelMessage* attribute), 20
 MessageActivity (*class in discordaio.channel*), 22
 MessageActivityTypes (*class in discordaio.enums*), 36
 MessageApplication (*class in discordaio.channel*), 22
 MessageNotificationLevel (*class in discordaio.enums*), 34
 mfa_enabled (*discordaio.user.User* attribute), 49
 mfa_level (*discordaio.guild.Guild* attribute), 40
 MFALevel (*class in discordaio.enums*), 35
 move_channels() (*discordaio.client.DiscordBot* method), 32
 mute (*discordaio.guild.GuildMember* attribute), 42
 mute (*discordaio.voice.VoiceState* attribute), 52

N

name (*discordaio.activity.Activity* attribute), 13
 name (*discordaio.channel.Channel* attribute), 17
 name (*discordaio.channel.EmbedAuthor* attribute), 27
 name (*discordaio.channel.EmbedField* attribute), 28
 name (*discordaio.channel.EmbedProvider* attribute), 27
 name (*discordaio.channel.MessageApplication* attribute), 23
 name (*discordaio.emoji.Emoji* attribute), 33
 name (*discordaio.guild.Guild* attribute), 38
 name (*discordaio.guild.Integration* attribute), 44
 name (*discordaio.guild.IntegrationAccount* attribute), 43
 name (*discordaio.role.Role* attribute), 47
 name (*discordaio.user.UserConnection* attribute), 50
 name (*discordaio.voice.VoiceRegion* attribute), 52
 name (*discordaio.webhook.Webhook* attribute), 53
 nick (*discordaio.guild.GuildMember* attribute), 42
 nonce (*discordaio.channel.ChannelMessage* attribute), 21
 nsfw (*discordaio.channel.Channel* attribute), 17

O

optimal (*discordaio.voice.VoiceRegion* attribute), 52
 Overwrite (*class in discordaio.channel*), 21
 owner (*discordaio.guild.Guild* attribute), 39
 owner_id (*discordaio.channel.Channel* attribute), 17
 owner_id (*discordaio.guild.Guild* attribute), 39

P

parent_id (*discordaio.channel.Channel* attribute), 18
 party (*discordaio.activity.Activity* attribute), 14
 party_id (*discordaio.channel.MessageActivity* attribute), 22
 permission_overwrites (*discordaio.channel.Channel* attribute), 17
 permissions (*discordaio.guild.Guild* attribute), 39

permissions (*discordaio.role.Role* attribute), 47
 pin_message() (*discordaio.channel.Channel* method), 19
 position (*discordaio.channel.Channel* attribute), 17
 position (*discordaio.role.Role* attribute), 47
 premium_type (*discordaio.user.User* attribute), 49
 presences (*discordaio.guild.Guild* attribute), 41
 provider (*discordaio.channel.Embed* attribute), 25
 proxy_icon_url (*discordaio.channel.EmbedAuthor* attribute), 28
 proxy_icon_url (*discordaio.channel.EmbedFooter* attribute), 28
 proxy_url (*discordaio.channel.Attachment* attribute), 29
 proxy_url (*discordaio.channel.EmbedImage* attribute), 26
 proxy_url (*discordaio.channel.EmbedThumbnail* attribute), 25
 public_flags (*discordaio.user.User* attribute), 49

R

RateLimit (*class in discordaio.http*), 46
 Reaction (*class in discordaio.channel*), 23
 reactions (*discordaio.channel.ChannelMessage* attribute), 20
 reason (*discordaio.guild.Ban* attribute), 45
 recipients (*discordaio.channel.Channel* attribute), 17
 refresh() (*discordaio.channel.Channel* method), 19
 region (*discordaio.guild.Guild* attribute), 39
 require_colons (*discordaio.emoji.Emoji* attribute), 33
 revoked (*discordaio.user.UserConnection* attribute), 50
 Role (*class in discordaio.role*), 47
 role_id (*discordaio.guild.Integration* attribute), 44
 roles (*discordaio.emoji.Emoji* attribute), 33
 roles (*discordaio.guild.Guild* attribute), 39
 roles (*discordaio.guild.GuildMember* attribute), 42
 run() (*discordaio.client.DiscordBot* method), 32

S

self_deaf (*discordaio.voice.VoiceState* attribute), 52
 self_mute (*discordaio.voice.VoiceState* attribute), 52
 send_message() (*discordaio.channel.Channel* method), 19
 seq (*discordaio.websocket.DiscordWebsocket* attribute), 54
 session_id (*discordaio.voice.VoiceState* attribute), 51
 session_id (*discordaio.websocket.DiscordWebsocket* attribute), 54
 shards (*discordaio.websocket.DiscordWebsocket* attribute), 55
 size (*discordaio.activity.ActivityParty* attribute), 14

- size (*discordaio.channel.Attachment attribute*), 29
- small_image (*discordaio.activity.ActivityAssets attribute*), 15
- small_text (*discordaio.activity.ActivityAssets attribute*), 15
- splash (*discordaio.guild.Guild attribute*), 39
- start (*discordaio.activity.ActivityTimestamps attribute*), 14
- start() (*discordaio.websocket.DiscordWebsocket method*), 55
- state (*discordaio.activity.Activity attribute*), 14
- suppress (*discordaio.voice.VoiceState attribute*), 52
- synced_at (*discordaio.guild.Integration attribute*), 45
- syncing (*discordaio.guild.Integration attribute*), 44
- system (*discordaio.user.User attribute*), 49
- system_channel_id (*discordaio.guild.Guild attribute*), 40
- ## T
- text (*discordaio.channel.EmbedFooter attribute*), 28
- thumbnail (*discordaio.channel.Embed attribute*), 24
- timestamp (*discordaio.channel.ChannelMessage attribute*), 20
- timestamp (*discordaio.channel.Embed attribute*), 24
- timestamps (*discordaio.activity.Activity attribute*), 13
- title (*discordaio.channel.Embed attribute*), 24
- token (*discordaio.client.DiscordBot attribute*), 30
- token (*discordaio.webhook.Webhook attribute*), 54
- tts (*discordaio.channel.ChannelMessage attribute*), 20
- type (*discordaio.activity.Activity attribute*), 13
- type (*discordaio.channel.Channel attribute*), 17
- type (*discordaio.channel.ChannelMessage attribute*), 21
- type (*discordaio.channel.Embed attribute*), 24
- type (*discordaio.channel.MessageActivity attribute*), 22
- type (*discordaio.channel.Override attribute*), 22
- type (*discordaio.guild.Integration attribute*), 44
- type (*discordaio.user.UserConnection attribute*), 50
- typing() (*discordaio.channel.Channel method*), 19
- ## U
- unavailable (*discordaio.guild.Guild attribute*), 40
- UnhandledEndpointStatusError, 37
- update() (*discordaio.channel.Channel method*), 19
- update() (*discordaio.channel.ChannelMessage method*), 21
- url (*discordaio.activity.Activity attribute*), 13
- url (*discordaio.channel.Attachment attribute*), 29
- url (*discordaio.channel.Embed attribute*), 24
- url (*discordaio.channel.EmbedAuthor attribute*), 27
- url (*discordaio.channel.EmbedImage attribute*), 26
- url (*discordaio.channel.EmbedProvider attribute*), 27
- url (*discordaio.channel.EmbedThumbnail attribute*), 25
- url (*discordaio.channel.EmbedVideo attribute*), 26
- User (*class in discordaio.user*), 48
- user (*discordaio.client.DiscordBot attribute*), 30
- user (*discordaio.emoji.Emoji attribute*), 33
- user (*discordaio.guild.Ban attribute*), 45
- user (*discordaio.guild.GuildMember attribute*), 42
- user (*discordaio.guild.Integration attribute*), 44
- user (*discordaio.webhook.Webhook attribute*), 53
- user_id (*discordaio.voice.VoiceState attribute*), 51
- user_limit (*discordaio.channel.Channel attribute*), 17
- UserConnection (*class in discordaio.user*), 50
- username (*discordaio.user.User attribute*), 48
- ## V
- value (*discordaio.channel.EmbedField attribute*), 29
- verification_level (*discordaio.guild.Guild attribute*), 39
- VerificationLevel (*class in discordaio.enums*), 35
- verified (*discordaio.user.User attribute*), 49
- video (*discordaio.channel.Embed attribute*), 25
- vip (*discordaio.voice.VoiceRegion attribute*), 52
- voice_states (*discordaio.guild.Guild attribute*), 40
- VoiceRegion (*class in discordaio.voice*), 52
- VoiceState (*class in discordaio.voice*), 51
- ## W
- Webhook (*class in discordaio.webhook*), 53
- webhook_id (*discordaio.channel.ChannelMessage attribute*), 21
- WebSocketCreationError, 37
- widget_channel_id (*discordaio.guild.Guild attribute*), 40
- widget_enabled (*discordaio.guild.Guild attribute*), 40
- width (*discordaio.channel.Attachment attribute*), 29
- width (*discordaio.channel.EmbedImage attribute*), 27
- width (*discordaio.channel.EmbedThumbnail attribute*), 25
- width (*discordaio.channel.EmbedVideo attribute*), 26
- ws (*discordaio.client.DiscordBot attribute*), 30