
discord-ext-music

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An easy to use music extension for [discord.py](#)

FEATURES:

- It's easy to use
- Have all playback and playlist controls
- Thread-safe playback controls
- Built-in equalizer and volume adjuster for PCM codec audio
- Can play most supported sources from FFmpeg libraries and it embedded into python!

QUICK USAGE

```
from discord.ext.commands import Bot
from discord.ext.music import MusicClient, WAVAudio, Track

bot = Bot()

@client.command()
async def play(ctx):
    voice_user = ctx.message.author.voice
    music_client = await voice_user.channel.connect(cls=MusicClient)
    track = Track(
        WAVAudio('audio.wav'), # AudioSource
        'This is audio' # name
    )
    await music_client.play(track)

bot.run('token')
```


BOT EXAMPLE

bot example are available in [here](#).

4.1 Installation

discord-ext-music require Python 3.8 or higher, Python 2.7 or lower are not supported and Python 3.7 or lower are not supported too.

4.1.1 Via PyPI

Note: On linux, before you installing discord-ext-music you need to install these required packages:

- libffi
- libnacl
- python3-dev

You can install discord-ext-music via PyPI:

```
pip install -U discord-ext-music
```

4.1.2 Optional Dependencies

- [PyAV](#) for embedded FFmpeg libraries music sources
- [pyminiaudio](#) for Miniaudio-based music sources
- [scipy](#) for equalizer
- [pydub](#) for equalizer

4.1.3 Installing Optional Dependencies

PyAV

You can do the following command:

```
pip install -U discord-ext-music[av]
```

For more information about installing PyAV, please go to [here](#)

pyminiaudio

You can do the following command:

Note: On windows, you may need to install Visual Studio with C++ extension (or Visual studio build tools) before installing `pyminiaudio`.

```
pip install -U discord-ext-music[miniaudio]
```

scipy and pydub

You can do the following command:

```
pip install -U discord-ext-music[equalizer]
```

4.2 API Reference

4.2.1 Music Clients

MusicClient

class `discord.ext.music.MusicClient(client, channel)`

Same like `discord.VoiceClient` but with playback controls for music.

Each coroutine functions are thread-safe.

You usually don't create these, you can get it from `discord.VoiceChannel.connect()`

Warning: It is important to add parameter `cls` with value `MusicClient` to `discord.VoiceChannel.connect()`, otherwise you won't get these features. For example:

```
# Use this method
music_client = await voice_channel.connect(cls=MusicClient)

# But not this method
music_client = await voice_channel.connect()
```

add_track(track)

Add a track to playlist

Parameters `track` (`Track`) – Audio Track that we're gonna play.

async disconnect(*, force=False)

|coro|

Disconnects this voice client from voice.

get_stream_durations()

Optional[`float`]: Get current stream durations in seconds, if playing.

async move_to(channel)

|coro|

Moves you to a different voice channel.

Parameters **channel** (`abc.Snowflake`) – The channel to move to. Must be a voice channel.

async next_track()

Play next track

Raises

- **NotConnected** – Not connected to voice.
- **NoMoreSongs** – No more songs in playlist.

async pause(play_silence=True)

Pauses the audio playing.

Parameters **play_silence** (`bool` (default: `True`)) – if `True` play silence audio.

Raises **MusicNotPlaying** – Not playing any audio

async play(track)

Play a Track

This function is automatically add track to playlist, even it still playing songs.

Parameters **track** (`Track`) – Audio Track that we're gonna play.

Raises

- **NotConnected** – Not connected to voice
- **TypeError** – “track” paramater is not `Track`

async play_track_from_pos(pos)

Play track from given pos

Parameters **pos** (`int`) – Track position that we want to play.

Raises

- **NotConnected** – Not connected to voice
- **TrackNotExist** – Given track position is not exist

async previous_track()

Play previous track

Raises

- **NotConnected** – Not connected a voice.
- **NoMoreSongs** – No more songs in playlist.

async reconnect(reconnect=True, timeout=10)

Disconnect forcefully from voice channel and connect it again

Parameters

- **reconnect** (`bool`) – Reconnect when connection is failing.
- **timeout** (`float`) – The timeout for the connection.

register_after_callback(func)

Register a callable function (can be coroutine function) for callback after player has done playing and play the next song or error occurred.

Parameters **func** (Callable[[Union[[Exception](#), None], Union[[Track](#), None]], Any]) – a callable function (can be coroutine function) that accept 2 parameters: [Exception](#) and [Track](#). That [Exception](#) is for exception in the player (if error happened) and [Track](#) is for the next audio track.

Raises [TypeError](#) – Not a callable function

async remove_all_tracks()

Remove all tracks and stop the player (if playing)

async remove_track(track)

Remove a track and stop the player (if given track same as playing track)

Parameters **track** ([Track](#)) – A [Track](#) you want to remove

Raises [TrackNotExist](#) – Given track is not exist

async remove_track_from_pos(pos)

Remove a track from given position and stop the player (if given pos same as playing track pos)

Parameters **pos** ([int](#)) – Track position that we want to remove.

Raises [TrackNotExist](#) – Given track is not exist

async resume()

Resumes the audio playing.

Raises

- [MusicAlreadyPlaying](#) – Already playing audio
- [MusicNotPlaying](#) – Not playing any audio

async rewind(seconds)

Jump back to specified durations

Parameters **seconds** (Union[[int](#), [float](#)]) – Time to rewind in seconds

Raises [MusicNotPlaying](#) – Not playing any audio

async seek(seconds)

Jump forward to specified durations

Parameters **seconds** (Union[[int](#), [float](#)]) – Time to seek in seconds

Raises [MusicNotPlaying](#) – Not playing any audio

property source

The audio source being played, if playing.

Type Optional[[MusicSource](#)]

async stop()

Stop playing audio

Raises [MusicNotPlaying](#) – Not playing any audio

property track

The audio track being played, if playing.

Type Optional[[Track](#)]

4.2.2 Tracks

Track

class discord.ext.music.**Track**(*source, name, url=None, stream_url=None, thumbnail=None, **kwargs*)
 A audio track containing audio source, name, url, stream_url, thumbnail

Parameters

- **source** (*MusicSource*) – The audio source of this track
- **name** (*str*) – Name of this track
- **url** (*str*) – Webpage url of this track
- **stream_url** (*str*) – Streamable url of this track
- **thumbnail** (*str*) – Valid thumbnail url of this track

source

The audio source of this track

Type *MusicSource*

name

Name of this track

Type *str*

url

Webpage url of this track

Type *str*

stream_url

Streamable url of this track

Type *str*

thumbnail

Valid thumbnail url of this track

Type *str*

4.2.3 Playlists

Playlist

class discord.ext.music.**Playlist**
 a class representing playlist for tracks

This class is thread-safe.

add_track(track)

Add a track

Parameters **track** (*Track*) – The audio track that we want to put in playlist.

get_all_tracks()

Get all tracks in this playlist

Returns All tracks in playlist

Return type List[*Track*]

get_current_track()

Get current track in current position

Returns The current track in current position

Return type *Track*

get_next_track()

Get next track

Returns The next track of this playlist

Return type Union[*Track*, None]

get_previous_track()

Get previous track

Returns The previous track of this playlist

Return type Union[*Track*, None]

get_track_from_pos(pos)

Get a track from given position

Parameters **pos** (*int*) – Track position that we want remove from playlist

Raises *TrackNotExist* – Given track position is not exist

Returns The track from given position

Return type *Track*

is_track_exist(track)

Check if given track is exist in this playlist

Parameters **track** (*Track*) – The audio track that we want to check

Returns *True* if exist, or *False* if not exist

Return type *bool*

jump_to_pos(pos)

Change playlist pos and return *Track* from given position

Parameters **pos** (*int*) – Track position that we want jump to

Raises *TrackNotExist* – Given track position is not exist

Returns The audio track from given position

Return type *Track*

remove_all_tracks()

Remove all tracks from playlist

remove_track(track)

Remove a track

Parameters **track** (*Track*) – The audio track that we want to remove from playlist.

Raises *TrackNotExist* – Given track is not exist

remove_track_from_pos(pos)

Remove a track from given position

Parameters **pos** (*int*) – Track position that we want remove from playlist

Raises *TrackNotExist* – Given track position is not exist

reset_pos_tracks()
Reset current position playlist

4.2.4 Equalizers

class discord.ext.music.Equalizer
Equalizer class

This was used for converting original audio data to equalized audio data

convert(data)
Convert audio data
Subclass must implement this.

class discord.ext.music.PCMEqualizer(freqs=None)
A equalizer for Signed-PCM codec
The audio specifications must be 16-bit 48KHz

Warning: You must have `scipy` and `pydub` installed, otherwise you will get error.

Parameters freqs (Optional[List[dict]]) – a list containing dict, each dict has frequency (in Hz) and gain (in dB) inside it. For example, [{"freq": 20, "gain": 20}, ...] You cannot add same frequencys, if you try to add it, it will raise `EqualizerError`.

Raises EqualizerError – pydub and scipy is not installed

add_frequency(freq, gain)
Add a frequency

Parameters

- **freq** (int) – The frequency that want to add
- **gain** (Union[int, float]) – The gain frequency

Raises EqualizerError – given frequency is already exist

convert(data)
Convert audio data to equalized audio data

Parameters data (bytes) – The audio data

remove_frequency(freq)
Remove a frequency

Parameters freq (int) – The frequency that want to add

Raises EqualizerError – given frequency is not exist

set_gain(freq, gain)
Set frequency gain in dB,

Parameters

- **freq** (int) – The frequency want to increase the gain
- **gain** (Union[int, float]) – The value want to increase or lower

Raises EqualizerError – given frequency is not exist

class discord.ext.music.SubwooferPCMEqualizer(volume)

An easy to use [PCMEqualizer](#) for subwoofer

The base frequency is 60Hz.

Parameters volume (float) – Set initial volume as float percent. For example, 0.5 for 50% and 1.75 for 175%.

add_frequency(freq, gain)

Add a frequency

Parameters

- **freq** (int) – The frequency that want to add
- **gain** (Union[int, float]) – The gain frequency

Raises [EqualizerError](#) – given frequency is already exist

remove_frequency(freq)

Remove a frequency

Parameters freq (int) – The frequency that want to add

Raises [EqualizerError](#) – given frequency is not exist

set_gain(dB)

Set frequency gain in dB.

property volume

The subwoofer volume in float numbers

This property can also be used to change the subwoofer volume.

Type Optional[float]

4.2.5 Music sources

Legacy music sources

class discord.ext.music.MusicSource

same like [discord.AudioSource](#), but its have seek, rewind, equalizer and volume built-in to AudioSource

get_stream_durations()

Get current stream durations in seconds

Returns The current stream duration in seconds

Return type float

recreate()

Recreate audio source, useful for next and previous playback

rewind(seconds)

Jump back to specified durations

Parameters seconds (float) – The duration in seconds that we want to jump backward

Raises [IllegalSeek](#) – current stream doesn't support seek() operations

seek(seconds)

Jump forward to specified durations

Parameters seconds (float) – The duration in seconds that we want to jump forward

Raises *IllegalSeek* – current stream doesn't support seek() operations

seekable()

Check if this source support seek() and rewind() operations or not

return *bool*

set_equalizer(equalizer=None)

Set a *Equalizer* to MusicSource.

Parameters equalizer (*Equalizer*) – Set equalizer to music source

set_volume(volume)

Set volume in float percentage

For example, 0.5 = 50%, 1.5 = 150%

Parameters volume (*volume*) – Set volume to music source

class discord.ext.music.RawPCMAudio(stream, volume=0.5)

Represents raw 16-bit 48KHz stereo PCM audio source.

Parameters

- **stream** (*io.BufferedIOBase*) – file-like object
- **volume** (*float* or *NoneType* (Optional, default: 0.5)) – Set initial volume for AudioSource

stream

A file-like object that reads byte data representing raw PCM.

Type *py:file* object

cleanup()

Called when clean-up is needed to be done.

Useful for clearing buffer data or processes after it is done playing audio.

get_stream_durations()

Get current stream durations in seconds

Returns The current stream duration in seconds

Return type *float*

read()

Reads 20ms worth of audio.

Subclasses must implement this.

If the audio is complete, then returning an empty *py:bytes*-like object to signal this is the way to do so.

If *is_opus()* method returns *True*, then it must return 20ms worth of Opus encoded audio. Otherwise, it must be 20ms worth of 16-bit 48KHz stereo PCM, which is about 3,840 bytes per frame (20ms worth of audio).

Returns A bytes like object that represents the PCM or Opus data.

Return type *bytes*

recreate()

Recreate audio source, useful for next and previous playback

rewind(seconds)

Jump back to specified durations

Parameters seconds (*float*) – The duration in seconds that we want to jump backward

Raises [`IllegalSeek`](#) – current stream doesn't support seek() operations

seek(*seconds*)

Jump forward to specified durations

Parameters **seconds** ([`float`](#)) – The duration in seconds that we want to jump forward

Raises [`IllegalSeek`](#) – current stream doesn't support seek() operations

seekable()

Check if this source support seek() and rewind() operations or not

return [`bool`](#)

set_equalizer(*eq=None*)

Set a [`Equalizer`](#) to MusicSource.

Parameters **equalizer** ([`Equalizer`](#)) – Set equalizer to music source

set_volume(*volume*)

Set volume in float percentage

For example, 0.5 = 50%, 1.5 = 150%

Parameters **volume** (*volume*) – Set volume to music source

class discord.ext.music.**WAVAudio**(*stream, volume=0.5, **kwargs*)

Represents WAV audio stream

stream: [`io.BufferedIOBase`](#) file-like object

volume: [`float`](#) or [`NoneType`](#) (Optional, default: 0.5) Set initial volume for AudioSource

kwargs: These parameters will be passed in [`RawPCMAudio`](#)

Miniaudio music sources

class discord.ext.music.**Miniaudio**(*stream, volume*)

Representing miniaudio-based audio source

Audio formats that miniaudio can play:

- MP3
- FLAC
- Vorbis
- WAV

Warning: You must have [`miniaudio`](#) installed, otherwise it didn't work.

Raises [`MiniaudioError`](#) – miniaudio not installed

class discord.ext.music.**MP3toPCMAudio**(*data, volume=0.5, **kwargs*)

Represents miniaudio-based mp3 to PCM audio source.

This audio source will convert mp3 to pcm format (16-bit 48KHz).

Note: When you initiate this class, the audio data will automatically converted to pcm. This may cause all asynchronous process is blocked by this process. If you want to avoid this, use [`MP3toPCMAudio.from_data`](#) or [`MP3toPCMAudio.from_file`](#).

Parameters

- **data** ([`bytes`](#)) – MP3 bytes data
- **volume** ([`float`](#)) – Set initial volume
- **kwargs** – These parameters will be passed in [`RawPCMAudio`](#)

stream

A file-like object that reads byte data representing raw PCM.

Type `py:file object`

Raises [`InvalidMP3`](#) – The audio data is not mp3 format

async classmethod [`from_data\(data, volume=0.5\)`](#)

Asynchronously convert mp3 data to pcm.

Parameters

- **data** ([`bytes`](#)) – MP3 bytes data
- **volume** ([`float`](#)) – Set initial volume, default to `0.5`

async classmethod [`from_file\(filename, volume=0.5\)`](#)

Asynchronously convert mp3 data to pcm.

Parameters

- **filename** ([`str`](#)) – MP3 File
- **volume** ([`float`](#)) – Set initial volume, default to `0.5`

seekable()

Check if this source support `seek()` and `rewind()` operations or not

return [`bool`](#)

class `discord.ext.music.FLACtoPCMAudio(data, volume=0.5, **kwargs)`

Represents miniaudio-based flac to PCM audio source.

This audio source will convert flac to pcm format (16-bit 48KHz).

Note: When you initiate this class, the audio data will automatically converted to pcm. This may cause all asynchronous process is blocked by this process. If you want to avoid this, use [`FLACtoPCMAudio.from_data`](#) or [`FLACtoPCMAudio.from_file`](#)

Parameters

- **data** ([`bytes`](#)) – FLAC bytes data
- **volume** ([`float`](#)) – Set initial volume
- **kwargs** – These parameters will be passed in [`RawPCMAudio`](#)

stream

A file-like object that reads byte data representing raw PCM.

Type py:file object

Raises [*InvalidFLAC*](#) – The audio data is not flac format

async classmethod from_data(data, volume=0.5)

Asynchronously convert flac data to pcm.

Parameters

- **data** ([*bytes*](#)) – FLAC bytes data
- **volume** ([*float*](#)) – Set initial volume, default to 0.5

async classmethod from_file(filename, volume=0.5)

Asynchronously convert flac data to pcm.

Parameters

- **filename** ([*str*](#)) – FLAC File
- **volume** ([*float*](#)) – Set initial volume, default to 0.5

seekable()

Check if this source support seek() and rewind() operations or not

return [*bool*](#)

class discord.ext.music.VorbistoPCMAudio(data, volume=0.5, **kwargs)

Represents miniaudio-based vorbis to PCM audio source.

This audio source will convert vorbis to pcm format (16-bit 48KHz).

Note: When you initiate this class, the audio data will automatically covered to pcm. This may cause all asynchronous process is blocked by this process. If you want to avoid this, use [*VorbistoPCMAudio.from_data*](#) or [*VorbistoPCMAudio.from_file*](#)

Parameters

- **data** ([*bytes*](#)) – Vorbis bytes data
- **volume** ([*float*](#)) – Set initial volume
- **kwargs** – These parameters will be passed in [*RawPCMAudio*](#)

stream

A file-like object that reads byte data representing raw PCM.

Type py:file object

Raises [*InvalidVorbis*](#) – The audio data is not vorbis codec

async classmethod from_data(data, volume=0.5)

Asynchronously convert vorbis data to pcm.

Parameters

- **data** ([*bytes*](#)) – Vorbis bytes data
- **volume** ([*float*](#)) – Set initial volume, default to 0.5

async classmethod from_file(filename, volume=0.5)

Asynchronously convert vorbis data to pcm.

Parameters

- **filename** (`str`) – Vorbis File
- **volume** (`float`) – Set initial volume, default to 0.5

seekable()

Check if this source support seek() and rewind() operations or not

return `bool`

class discord.ext.music.**WAVtoPCMAudio**(data, volume=0.5, **kwargs)

Represents miniaudio-based WAV to PCM audio source.

This audio source will convert wav to pcm format (16-bit 48KHz).

Note: When you initiate this class, the audio data will automatically converted to pcm. This may cause all asynchronous process is blocked by this process. If you want to avoid this, use `WAVtoPCMAudio.from_data` or `WAVtoPCMAudio.from_file`

Parameters

- **data** (`bytes`) – WAV bytes data
- **volume** (`float`) – Set initial volume
- **kwargs** – These parameters will be passed in `RawPCMAudio`

stream

A file-like object that reads byte data representing raw PCM.

Type `py:file object`

Raises `InvalidWAV` – The audio data is not WAV format

async classmethod from_data(data, volume=0.5)

Asynchronously convert WAV data to pcm.

Parameters

- **data** (`bytes`) – WAV bytes data
- **volume** (`float`) – Set initial volume, default to 0.5

async classmethod from_file(filename, volume=0.5)

Asynchronously convert WAV data to pcm.

Parameters

- **filename** (`str`) – WAV File
- **volume** (`float`) – Set initial volume, default to 0.5

seekable()

Check if this source support seek() and rewind() operations or not

return `bool`

PyAV / Embedded FFmpeg libraries music sources

class discord.ext.music.LibAVAudio

Represents embedded FFmpeg-based audio source.

Warning: You must have `av` installed, otherwise it didn't work.

is_opus()

Checks if the audio source is already encoded in Opus.

class discord.ext.music.LibAVOpusAudio(url_or_file)

Represents embedded FFmpeg-based Opus audio source.

There is no volume adjuster and equalizer for now, because some problems.

Parameters url_or_file (str) – Valid URL or file location

url

Valid URL or file location

Type str

stream

a file-like object that returning ogg opus encoded data

Type io.RawIOBase

Raises LibAVError – Something happened when opening connection stream url.

cleanup()

Called when clean-up is needed to be done.

Useful for clearing buffer data or processes after it is done playing audio.

get_stream_durations()

Get current stream durations in seconds

Returns The current stream duration in seconds

Return type float

read()

Reads 20ms worth of audio.

Subclasses must implement this.

If the audio is complete, then returning an empty py:bytes-like object to signal this is the way to do so.

If is_opus() method returns True, then it must return 20ms worth of Opus encoded audio. Otherwise, it must be 20ms worth of 16-bit 48KHz stereo PCM, which is about 3,840 bytes per frame (20ms worth of audio).

Returns A bytes like object that represents the PCM or Opus data.

Return type bytes

recreate()

Recreate audio source, useful for next and previous playback

rewind(seconds)

Jump back to specified durations

Parameters `seconds` (`float`) – The duration in seconds that we want to jump backward

Raises `IllegalSeek` – current stream doesn't support seek() operations

seek(`seconds`)

Jump forward to specified durations

Parameters `seconds` (`float`) – The duration in seconds that we want to jump forward

Raises `IllegalSeek` – current stream doesn't support seek() operations

4.2.6 Exceptions

exception `discord.ext.music.EqualizerError`

Raised when something happened in Equalizer class

exception `discord.ext.music.IllegalSeek`

Raised when MusicSource trying to seek when stream doesn't support seek() operations

exception `discord.ext.music.InvalidMP3`

Raised when audio data is not mp3 format

exception `discord.ext.music.InvalidFLAC`

Raised when audio data is not flac format

exception `discord.ext.music.InvalidVorbis`

Raised when audio data is not vorbis codec

exception `discord.ext.music.InvalidWAV`

Raised when audio data is not WAV format

exception `discord.ext.music.MiniaudioError`

Raised when something happened in miniaudio module

exception `discord.ext.music.LibAError`

Raised when something happened in LibAV stream

exception `discord.ext.music.TrackNotExist`

Raised when track is trying to be removed while it not exist

exception `discord.ext.music.MusicClientException`

Base exception for MusicClient class

exception `discord.ext.music.MusicNotPlaying`

Music is not playing

exception `discord.ext.music.MusicAlreadyPlaying`

Music is already playing

exception `discord.ext.music.NoMoreSongs`

No more songs in playlist

exception `discord.ext.music.NotConnected`

Not connected to voice

4.3 Changelog

4.3.1 v0.2.0

New features

- Added [API Documentation](#)
- Added [WAVtoPCMAudio](#) miniaudio-based music sources.
- Added Keyword-arguments only in [Track](#), all Keyword-arguments will be setted in [Track](#) class attributes.

Fixed bugs

- Fix unhandled error “cannot allocate memory in static TLS block” when importing `discord.ext.music.voice_source.av` on ARM-based CPU. **NOTE:** The error is not fixed automatically inside python, because you need to fix it manually outside python. The solution is given inside the error.

Removals

- Removed `WorkerError` exception class as it unused.
- Removed `ConverterError` exception class as it unused.

Improvements

- Improved how next song playback system work in [MusicClient](#)

Breaking changes

- Changed module name from `discord.ext.music.voice_source.pyav` to `discord.ext.music.voice_source.av`
- module `discord.ext.music.equalizer` no longer raising error when you try to import it.
- module `discord.ext.music.voice_source.miniaudio` no longer raising error when you try to import it.
- module `discord.ext.music.voice_source.av` no longer raising error when you try to import it.
- Now [PCMEqualizer](#) and [SubwooferPCMEqualizer](#) will raise error when you dont have the required modules and try to create it.
- Changed name `WavAudio` to [WAVAudio](#)
- Calling [LibAVOpusAudio.recreate\(\)](#) now will close the stream before re-creating it.
- Now `LibAVAudioStream.seek()` method will directly seek to the stream instead of re-creating it.

4.3.2 v0.1.0

This is First release of discord-ext-music

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