

AudioProducer

get_next_chunk

LiveAudioProducer

get_next_chunk

RecordedAudioProducer

get_next_chunk

Module `audio_producer`

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Classes

class `AudioProducer` (parameters: dict)

Abstract class representing an input audio handler. Can be inherited to create new ways of producing audio.

Constructor for the AudioProducer class.

Args:

`parameters` : A dictionary containing audio parameters.

Class Attributes:

`_sample_rate` : Sample rate at which to read and write audio.

`_chunk_size` : Size of the chunk of audio to read.

`_sample_format` : Format at which to read and write audio (float, int, ...).

`_np_format` : Format of numpy used for conversions.

`_channels` : Number of channels of the audio source.

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Ancestors

`abc.ABC`

Subclasses

[LiveAudioProducer](#), [RecordedAudioProducer](#)

Methods

def `get_next_chunk`(self, in_stream: pyaudio.Stream, out_stream: pyaudio.Stream) -> list

Abstract function to get the next chunk of audio from an input stream.

Args:

`in_stream` : Input stream to use for live audio applications.

`out_stream` : Output stream used to playback audio in recorded applications.

Returns:

A representation of the next chunk of audio read by the input device.

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class `LiveAudioProducer` (parameters: dict)

Subclass of AudioProducer that handles input audio taken live from an input sound card.

Constructor for the LiveAudioProducer class.

Args:

`parameters` : A dictionary containing audio parameters.

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Ancestors

[AudioProducer](#), `abc.ABC`

Methods

def `get_next_chunk`(self, in_stream: pyaudio.Stream, out_stream: pyaudio.Stream) -> list

Gets the next chunk of audio from the input stream.

Args:

`in_stream` : Input stream to use for live audio applications.

`out_stream` : Output stream used to playback audio in recorded applications.

Returns:

The next chunk of audio read by the input stream, divided for each track of the input sound card.

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class `RecordedAudioProducer` (parameters: dict)

Subclass of AudioProducer that handles recorded audio taken from wav audio files.

Constructor for the RecordedAudioProducer class

Args:

`parameters` : A dictionary containing audio parameters

Class Attributes:

`_audio_input_tracks` : Number of tracks of the audio, corresponding to the number of audio files contained in a song's folder.

`_audio_playback` : Whether the user wants to play back the song as it's being processed.

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Ancestors

[AudioProducer](#), `abc.ABC`

Methods

def `get_next_chunk`(self, in_stream: pyaudio.Stream, out_stream: pyaudio.Stream) -> list

Gets the next chunk of audio from audio files of tracks.

Args:

`in_stream` : Unused (not needed with recorded audio).

`out_stream` : Output stream used to playback audio in recorded applications.

Returns:

The next chunk of audio read by the input stream, divided for each track (which are stored in different files).

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