
apple-music-python Documentation

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A python wrapper for the Apple Music API.

See the [Apple Music API documentation](#) for additional info:

NOTE: This does not support library resources.

CHAPTER 1

Prerequisites

You must have an Apple Developer Account and a MusicKit API Key. See instructions on how to obtain these here: [Getting Keys And Creating Tokens](#).

CHAPTER 2

Dependencies

- Requests
- PyJWT
- Cryptography

CHAPTER 3

Installation

```
python setup.py install
```

or:

```
pip install apple-music-python
```


CHAPTER 4

Example

```
import applemusicpy

secret_key = 'x'
key_id = 'y'
team_id = 'z'

am = applemusicpy.AppleMusic(secret_key, key_id, team_id)
results = am.search('travis scott', types=['albums'], limit=5)

for item in results['results']['albums']['data']:
    print(item['attributes']['name'])
```


CHAPTER 5

client Module

```
class applemusicpy.client.AppleMusic(secret_key, key_id, team_id, proxies=None,
                                     requests_session=True, max_retries=10, re-
                                     quests_timeout=None, session_length=12)
```

This class is used to connect to the Apple Music API and make requests for catalog resources

```
__init__(secret_key, key_id, team_id, proxies=None, requests_session=True, max_retries=10, re-
          quests_timeout=None, session_length=12)
```

Parameters

- **proxies** – A dictionary of proxies, if needed
- **secret_key** – Secret Key provided by Apple
- **key_id** – Key ID provided by Apple
- **team_id** – Team ID provided by Apple
- **requests_session** – Use request Sessions class. Speeds up API calls significantly when set to True
- **max_retries** – Maximum amount of times to retry an API call before stopping
- **requests_timeout** – Number of seconds requests should wait before timing out
- **session_length** – Length Apple Music token is valid, in hours

```
activities(activity_ids, storefront='us', l=None, include=None)
```

Get all catalog activity data associated with the IDs provided

Parameters

- **activity_ids** – a list of activity IDs
- **storefront** – Apple Music store front
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **include** – Additional relationships to include in the fetch. Check API documentation.

Returns A list of catalog activity data in JSON format

activity (*activity_id, storefront='us', l=None, include=None*)

Get a catalog Activity by ID

Parameters

- **activity_id** – Activity ID
- **storefront** – Apple Music Storefront
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **include** – Additional relationships to include in the fetch. Check API documentation.

Returns Activity data in JSON format

activity_relationship (*activity_id, relationship, storefront='us', limit=None, offset=None*)

Get an Activity's relationship (e.g. playlists)

Parameters

- **activity_id** – Activity ID
- **relationship** – Relationship type (e.g. "playlists")
- **storefront** – Apple Music store front
- **limit** – The maximum amount of items to return
- **offset** – The index of the first item returned

Returns A List of relationship data in JSON format

album (*album_id, storefront='us', l=None, include=None*)

Get a catalog Album by ID

Parameters

- **album_id** – Album ID
- **storefront** – Apple Music Storefront
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **include** – Additional relationships to include in the fetch. Check API documentation.

Returns Album data in JSON format

album_relationship (*album_id, relationship, storefront='us', l=None, limit=None, offset=None*)

Get an Album's relationship (e.g. list of tracks, or list of artists)

Parameters

- **album_id** – Album ID
- **relationship** – Relationship type (e.g. "artists")
- **storefront** – Apple Music store front
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **limit** – The maximum amount of items to return
- **offset** – The index of the first item returned

Returns A List of relationship data in JSON format

albums (*album_ids, storefront='us', l=None, include=None*)

Get all catalog album data associated with the IDs provided

Parameters

- **album_ids** – a list of album IDs
- **storefront** – Apple Music store front
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **include** – Additional relationships to include in the fetch. Check API documentation.

Returns A list of catalog album data in JSON format

apple_curator (*apple_curator_id, storefront='us', l=None, include=None*)

Get a catalog Apple Curator by ID

Parameters

- **apple_curator_id** – Apple Curator ID
- **storefront** – Apple Music Storefront
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **include** – Additional relationships to include in the fetch. Check API documentation.

Returns Apple Curator data in JSON format

apple_curator_relationship (*apple_curator_id, relationship, storefront='us', l=None, limit=None, offset=None*)

Get an Apple Curator's relationship (e.g. playlists)

Parameters

- **apple_curator_id** – Apple Curator ID
- **relationship** – Relationship type (e.g. "playlists")
- **storefront** – Apple Music store front
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **limit** – The maximum amount of items to return
- **offset** – The index of the first item returned

Returns A List of relationship data in JSON format

apple_curators (*apple_curator_ids, storefront='us', l=None, include=None*)

Get all catalog apple curator data associated with the IDs provided

Parameters

- **apple_curator_ids** – a list of apple curator IDs
- **storefront** – Apple Music store front
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **include** – Additional relationships to include in the fetch. Check API documentation.

Returns A list of catalog apple curator data in JSON format

artist (*artist_id, storefront='us', l=None, include=None*)

Get a catalog Artist by ID

Parameters

- **artist_id** – Artist ID
- **storefront** – Apple Music Storefront
- **l** – The localization to use, specified by a language tag. Check API documentation.

- **include** – Additional relationships to include in the fetch. Check API documentation.

Returns Artist data in JSON format

artist_relationship (*artist_id, relationship, storefront='us', l=None, limit=None, offset=None*)

Get a Artist's relationship (e.g. song)

Parameters

- **artist_id** – Artist ID
- **relationship** – Relationship type (e.g. "songs")
- **storefront** – Apple Music store front
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **limit** – The maximum amount of items to return
- **offset** – The index of the first item returned

Returns A List of relationship data in JSON format

artists (*artist_ids, storefront='us', l=None, include=None*)

Get all catalog artist data associated with the IDs provided

Parameters

- **artist_ids** – a list of artist IDs
- **storefront** – Apple Music store front
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **include** – Additional relationships to include in the fetch. Check API documentation.

Returns A list of catalog artist data in JSON format

charts (*storefront='us', chart=None, types=None, l=None, genre=None, limit=None, offset=None*)

Get Apple Music Chart data

Parameters

- **storefront** – Apple Music store front
- **chart** – Chart ID
- **types** – List of resource types (e.g. songs, albums, etc.)
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **genre** – The genre of the chart
- **limit** – The maximum amount of items to return
- **offset** – The index of the first item returned

Returns A list of chart data in JSON format

curator (*curator_id, storefront='us', l=None, include=None*)

Get a catalog Curator by ID

Parameters

- **curator_id** – Curator ID
- **storefront** – Apple Music Storefront
- **l** – The localization to use, specified by a language tag. Check API documentation.

- **include** – Additional relationships to include in the fetch. Check API documentation.

Returns Curator data in JSON format

curator_relationship (*curator_id, relationship, storefront='us', l=None, limit=None, offset=None*)

Get a Curator's relationship (e.g. playlists)

Parameters

- **curator_id** – Curator ID
- **relationship** – Relationship type (e.g. "playlists")
- **storefront** – Apple Music store front
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **limit** – The maximum amount of items to return
- **offset** – The index of the first item returned

Returns A List of relationship data in JSON format

curators (*curator_ids, storefront='us', l=None, include=None*)

Get all curator album data associated with the IDs provided

Parameters

- **curator_ids** – a list of curator IDs
- **storefront** – Apple Music store front
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **include** – Additional relationships to include in the fetch. Check API documentation.

Returns A list of catalog curator data in JSON format

generate_token (*session_length*)

Generate encrypted token to be used by in API requests. Set the class token parameter.

Parameters **session_length** – Length Apple Music token is valid, in hours

genre (*genre_id, storefront='us', l=None*)

Get a catalog Genre by ID

Parameters

- **genre_id** – Genre ID
- **storefront** – Apple Music Storefront
- **l** – The localization to use, specified by a language tag. Check API documentation.

Returns Genre data in JSON format

genres (*genre_ids, storefront='us', l=None*)

Get all catalog genre data associated with the IDs provided

Parameters

- **genre_ids** – a list of genre IDs
- **storefront** – Apple Music store front
- **l** – The localization to use, specified by a language tag. Check API documentation.

Returns A list of catalog genre data in JSON format

genres_all (*storefront='us', l=None, limit=None, offset=None*)

Get all genres

Parameters

- **storefront** – Apple Music Storefront
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **limit** – The maximum amount of items to return
- **offset** – The index of the first item returned

Returns A list of genre data in JSON format

music_video (*music_video_id, storefront='us', l=None, include=None*)

Get a catalog Music Video by ID

Parameters

- **music_video_id** – Music Video ID
- **storefront** – Apple Music Storefront
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **include** – Additional relationships to include in the fetch. Check API documentation.

Returns Music Video data in JSON format

music_video_relationship (*music_video_id, relationship, storefront='us', l=None, limit=None, offset=None*)

Get a Music Videos's relationship (e.g. list of artists)

Parameters

- **music_video_id** – Music Video ID
- **relationship** – Relationship type (e.g. “artists”)
- **storefront** – Apple Music store front
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **limit** – The maximum amount of items to return
- **offset** – The index of the first item returned

Returns A List of relationship data in JSON format

music_videos (*music_video_ids, storefront='us', l=None, include=None*)

Get all catalog music video data associated with the IDs provided

Parameters

- **music_video_ids** – a list of music video IDs
- **storefront** – Apple Music store front
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **include** – Additional relationships to include in the fetch. Check API documentation.

Returns A list of catalog music video data in JSON format

music_videos_by_isrc (*isrcs, music_video_ids=None, storefront='us', l=None, include=None*)

Get all catalog music videos associated with the ISRCs provided

Parameters

- **isrcs** – list of ISRCs
- **music_video_ids** – IDs of music videos for additional filtering in conjunction with ISRC
- **storefront** – Apple Music store front
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **include** – Additional relationships to include in the fetch. Check API documentation.

Returns A list of catalog music video data in JSON format

playlist (*playlist_id*, *storefront='us'*, *l=None*, *include=None*)

Get a catalog Playlist by ID

Parameters

- **playlist_id** – Playlist ID
- **storefront** – Apple Music Storefront
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **include** – Additional relationships to include in the fetch. Check API documentation.

Returns Playlist data in JSON format

playlist_relationship (*playlist_id*, *relationship*, *storefront='us'*, *l=None*, *limit=None*, *offset=None*)

Get a Playlists's relationship (e.g. list of tracks)

Parameters

- **playlist_id** – Playlist ID
- **relationship** – Relationship type (e.g. "tracks")
- **storefront** – Apple Music store front
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **limit** – The maximum amount of items to return
- **offset** – The index of the first item returned

Returns A List of relationship data in JSON format

playlists (*playlist_ids*, *storefront='us'*, *l=None*, *include=None*)

Get all catalog album data associated with the IDs provided

Parameters

- **playlist_ids** – a list of playlist IDs
- **storefront** – Apple Music store front
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **include** – Additional relationships to include in the fetch. Check API documentation.

Returns A list of catalog playlist data in JSON format

search (*term*, *storefront='us'*, *l=None*, *limit=None*, *offset=None*, *types=None*, *hints=False*, *os='linux'*)

Query the Apple Music API based on a search term

Parameters

- **term** – Search term

- **storefront** – Apple Music store front
- **1** – The localization to use, specified by a language tag. Check API documentation.
- **limit** – The maximum amount of items to return
- **offset** – The index of the first item returned
- **types** – A list of resource types to return (e.g. songs, artists, etc.)
- **hints** – Include search hints
- **os** – Operating System being used. If search isn't working on Windows, try `os='windows'`.

Returns The search results in JSON format

song (*song_id*, *storefront='us'*, *l=None*, *include=None*)

Get a catalog Song by ID

Parameters

- **song_id** – Song ID
- **storefront** – Apple Music Storefront
- **1** – The localization to use, specified by a language tag. Check API documentation.
- **include** – Additional relationships to include in the fetch. Check API documentation.

Returns Song data in JSON format

song_relationship (*song_id*, *relationship*, *storefront='us'*, *l=None*, *limit=None*, *offset=None*)

Get a Song's relationship (e.g. artist)

Parameters

- **song_id** – Song ID
- **relationship** – Relationship type (e.g. "artists")
- **storefront** – Apple Music store front
- **1** – The localization to use, specified by a language tag. Check API documentation.
- **limit** – The maximum amount of items to return
- **offset** – The index of the first item returned

Returns A List of relationship data in JSON format

songs (*song_ids*, *storefront='us'*, *l=None*, *include=None*)

Get all catalog song data associated with the IDs provided

Parameters

- **song_ids** – a list of song IDs
- **storefront** – Apple Music store front
- **1** – The localization to use, specified by a language tag. Check API documentation.
- **include** – Additional relationships to include in the fetch. Check API documentation.

Returns A list of catalog song data in JSON format

songs_by_isrc (*isrcs*, *song_ids=None*, *storefront='us'*, *l=None*, *include=None*)

Get all catalog songs associated with the ISRCs provided

Parameters

- **isrcs** – list of ISRCs
- **song_ids** – IDs of songs for additional filtering in conjunction with ISRC
- **storefront** – Apple Music store front
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **include** – Additional relationships to include in the fetch. Check API documentation.

Returns A list of catalog song data in JSON format

station (*station_id, storefront='us', l=None, include=None*)

Get a catalog Station by ID

Parameters

- **station_id** – Station ID
- **storefront** – Apple Music Storefront
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **include** – Additional relationships to include in the fetch. Check API documentation.

Returns Station data in JSON format

stations (*station_ids, storefront='us', l=None, include=None*)

Get all catalog station data associated with the IDs provided

Parameters

- **station_ids** – a list of station IDs
- **storefront** – Apple Music store front
- **l** – The localization to use, specified by a language tag. Check API documentation.
- **include** – Additional relationships to include in the fetch. Check API documentation.

Returns A list of catalog station data in JSON format

storefront (*storefront_id, l=None*)

Get a Storefront by ID

Parameters

- **storefront_id** – Storefont ID
- **l** – The localization to use, specified by a language tag. Check API documentation.

Returns Storefront data in JSON format

storefronts (*storefront_ids, l=None*)

Get all storefront data associated with the IDs provided

Parameters

- **storefront_ids** – a list of storefront IDs
- **l** – The localization to use, specified by a language tag. Check API documentation.

Returns A list of storefront data in JSON format

storefronts_all (*l=None, limit=None, offset=None*)

Get all storefronts

Parameters

- **l** – The localization to use, specified by a language tag. Check API documentation.

- **limit** – The maximum amount of items to return
- **offset** – The index of the first item returned

Returns A list of storefront data in JSON format

CHAPTER 6

Versioning

v1.0.0 - Initial Release - 12/15/2018 v1.0.1 - Updated package info on PyPI - 12/16/2018 v1.0.2 - Added Windows search support - 01/21/2019 v1.0.3 - Fixed error handling of HTTPError - 11/03/2019 v1.0.4 - Fixed error with reading token - 01/24/2021

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Authors

- **Matt Palazzolo** - [GitHub Profile](#)

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License

<https://github.com/mpalazzolo/apple-music-python/LICENSE.txt>

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