Python - retrieve all genre tags from Last.fm API

Asked 8 years, 3 months ago   Modified 8 years, 3 months ago   Viewed 2k times

▲

1

▼

🔖

🕘

I have a function that uses `get_top_tags()` method to fetch top tags in `last.fm API` :

```python
def lastfm_tags(tag):
        tag_weight = {}

        result = last.get_top_tags()

        for tag in result:
            tag_weight[str(tag.item.get_name())] = str(tag.weight)

        tag_weight = {k: int(v) for k, v in tag_weight.items()}


        return tag_weight

    print lastfm_tags('pop')
```

prints:

```
{'industrial': 533792, 'punk': 849254, 'indie': 1972289, 'metal': 1214142, 'heavy
metal': 652768, 'japanese': 428483, 'pop': 1874644, 'new wave': 399642, 'black metal':
772854, 'rap': 513369, 'ambient': 1030860, 'alternative': 2059622, 'hard rock': 821047,
'electronic': 2289385, 'blues': 531227, 'folk': 882684, 'classic rock': 1123889,
'alternative rock': 1123671, '90s': 447817, 'Progressive metal': 407423, 'indie rock':
850647, 'electronica': 614612, 'female vocalists': 1558073, 'Soundtrack': 529623,
'dance': 769325, 'psychedelic': 458873, '80s': 752035, 'piano': 410036, 'chillout':
636262, 'post-rock': 426621, 'punk rock': 518635, 'jazz': 1117396, 'seen live':
2098252, 'instrumental': 818216, 'singer-songwriter': 810484, 'acoustic': 461045,
'hardcore': 656385, 'funk': 399980, 'Classical': 539399, 'Hip-Hop': 814911, 'death
metal': 671617, 'soul': 641317, 'british': 667770, 'thrash metal': 465438, 'hip hop':
395139, 'rock': 3879776, 'metalcore': 444620, 'german': 409117, 'Progressive rock':
693750, 'experimental': 1010752}
```

then I could also retrieve `tags` relative to artists:

```python
def lastfm_artist_to_tags(artist):

    tag_weight = {}

    result = last.get_artist(artist).get_top_tags()

    for tag in result:
        tag_weight[str(tag.item.get_name())] = str(tag.weight)

    tag_weight = {k: int(v) for k, v in tag_weight.items()}
```

```
    return sorted(tag_weight.items(), key=lambda x: x[1], reverse=True)
```

which prints much more specific tagging:

```
[('shoegaze', 100), ('experimental', 72), ('psychedelic', 70), ('seen live', 61),
('indie', 56), ('indie rock', 53), ('ambient', 14), ('post-rock', 12), ('noise rock',
11), ('dream pop', 9), ('Psychedelic Rock', 8), ('Neo-Psychedelia', 7), ('american',
7), ('rock', 7), ('post-punk', 6), ('Experimental Rock', 4), ('alternative', 4), ('art
rock', 4), ('noise', 4), ('atlanta', 4), ('00s', 3), ('alternative rock', 3), ('Garage
Rock', 3), ('ambient punk', 3), ('georgia', 3), ('noise pop', 3), ('USA', 2), ('Lo-Fi',
2), ('Avant-Garde', 2), ('Dreamy', 2), ('Psychedelia', 2), ('shoegazing', 2),
('psychedelic pop', 2), ('space rock', 2), ('kranky', 2), ('indie pop', 2), ('male
vocalists', 1), ('10s', 1), ('deerhunter', 1), ('avantgarde', 1), ('4ad', 1)]
```

Is there a way or else a method -unknown to me, to fetch ALL possible tags?

`python`   `api`   `last.fm`

Share Improve this question Follow

edited Nov 16, 2016 at 0:34

esote
851   12   26

asked Nov 15, 2016 at 22:06

8-Bit Borges
10k   30   109   210

1 Answer

Sorted by: Highest score (default) ⇕

▲

0

▼

According to the LastFM API, no there is not. You can only find tags associated to a specific entity (Artist, Album, Track, etc)

This is actually a common pattern that most companies use for APIs they provide. Imagine, if you could get all tags with all associated albums, artists and tracks for free and stored them in a local copy. Would you be going back to their API / website for help anymore?

Share Improve this answer Follow

edited Nov 15, 2016 at 23:41

answered Nov 15, 2016 at 22:58

Ajk_P
1,874   18   23