Green = Strongly recommended to use

Yellow = Not sure what it means

Blue = Check if it’s needed

Red = Won’t be used

Question 1 = Which Artist ID should we use

|  |  |  |  |
| --- | --- | --- | --- |
| **Field name** | **Type** | **Description** | **Link** |
| analysis sample rate | float | sample rate of the audio used | [url](http://developer.echonest.com/docs/v4/track.html) |
| artist 7digitalid | int | ID from 7digital.com or -1 | [url](http://www.7digital.com/) |
| artist familiarity | float | algorithmic estimation | [url](http://developer.echonest.com/docs/v4/artist.html#familiarity) |
| artist hotness | float | algorithmic estimation | [url](http://developer.echonest.com/docs/v4/artist.html#hotttnesss) |
| artist id | string | Echo Nest ID | [url](http://developer.echonest.com/docs/v4/artist.html#search) |
| artist latitude | float | latitude |  |
| artist location | string | location name |  |
| artist longitude | float | longitude |  |
| artist mbid | string | ID from musicbrainz.org | [url](http://musicbrainz.org/) |
| artist mbtags | array string | tags from musicbrainz.org | [url](http://musicbrainz.org/) |
| artist mbtags count | array int | tag counts for musicbrainz tags | [url](http://musicbrainz.org/) |
| artist name | string | artist name | [url](http://developer.echonest.com/docs/v4/artist.html#search) |
| artist playmeid | int | ID from playme.com, or -1 | [url](http://www.playme.com/) |
| artist terms | array string | Echo Nest tags | [url](http://developer.echonest.com/docs/v4/artist.html#terms) |
| artist terms freq | array float | Echo Nest tags freqs | [url](http://developer.echonest.com/docs/v4/artist.html#terms) |
| artist terms weight | array float | Echo Nest tags weight | [url](http://developer.echonest.com/docs/v4/artist.html#terms) |
| audio md5 | string | audio hash code |  |
| bars confidence  how far from the reported value the true (error free) value might be | array float | confidence measure | [url](http://developer.echonest.com/docs/v4/track.html) |
| bars start | array float | beginning of bars, usually on a beat | [url](http://developer.echonest.com/docs/v4/track.html) |
| beats confidence | array float | confidence measure | [url](http://developer.echonest.com/docs/v4/track.html) |
| beats start | array float | result of beat tracking | [url](http://developer.echonest.com/docs/v4/track.html) |
| Danceability(all 0.0) | float | algorithmic estimation |  |
| duration | float | in seconds |  |
| end of fade in | float | seconds at the beginning of the song | [url](http://developer.echonest.com/docs/v4/track.html) |
| Energy（all 0.0） | float | energy from listener point of view |  |
| key | int | key the song is in | [url](http://developer.echonest.com/docs/v4/track.html) |
| key confidence | float | confidence measure | [url](http://developer.echonest.com/docs/v4/track.html) |
| loudness | float | overall loudness in dB | [url](http://labrosa.ee.columbia.edu/millionsong/blog/11-7-25-loudness-msd) |
| mode | int | major or minor | [url](http://developer.echonest.com/docs/v4/track.html) |
| mode confidence | float | confidence measure | [url](http://developer.echonest.com/docs/v4/track.html) |
| release | string | album name |  |
| release 7digitalid | int | ID from 7digital.com or -1 | [url](http://www.7digital.com/) |
| sections confidence | array float | confidence measure | [url](http://developer.echonest.com/docs/v4/track.html) |
| sections start | array float | largest grouping in a song, e.g. verse | [url](http://developer.echonest.com/docs/v4/track.html) |
| segments confidence | array float | confidence measure | [url](http://developer.echonest.com/docs/v4/track.html) |
| segments loudness max | array float | max dB value | [url](http://labrosa.ee.columbia.edu/millionsong/blog/11-7-25-loudness-msd) |
| segments loudness max time | array float | time of max dB value, i.e. end of attack | [url](http://labrosa.ee.columbia.edu/millionsong/blog/11-7-25-loudness-msd) |
| segments loudness max start | array float | dB value at onset | [url](http://labrosa.ee.columbia.edu/millionsong/blog/11-7-25-loudness-msd) |
| segments pitches | 2D array float | chroma feature, one value per note | [url](http://developer.echonest.com/docs/v4/track.html) |
| segments start | array float | musical events, ~ note onsets | [url](http://developer.echonest.com/docs/v4/track.html) |
| segments timbre | 2D array float | texture features (MFCC+PCA-like) | [url](http://developer.echonest.com/docs/v4/track.html) |
| similar artists | array string | Echo Nest artist IDs (sim. algo. unpublished) | [url](http://developer.echonest.com/docs/v4/artist.html#similar) |
| song hotttnesss | float | algorithmic estimation |  |
| song id | string | Echo Nest song ID |  |
| start of fade out | float | time in sec | [url](http://developer.echonest.com/docs/v4/track.html) |
| tatums confidence | array float | confidence measure | [url](http://developer.echonest.com/docs/v4/track.html) |
| tatums start "the smallest time interval between successive notes in a rhythmic phrase" | array float | smallest rythmic element | [url](http://developer.echonest.com/docs/v4/track.html) |
| tempo | float | estimated tempo in BPM | [url](http://developer.echonest.com/docs/v4/track.html) |
| time signature  (The top number is simply the number of [beats](http://neilhawes.com/sstheory/theory09.htm#bar) in each bar; the bottom number indicates the length of each [beat](http://neilhawes.com/sstheory/theory09.htm#bar) in terms of its [note length](http://neilhawes.com/sstheory/theory12.htm)) | int | estimate of number of beats per bar, e.g. 4 | [url](http://developer.echonest.com/docs/v4/track.html) |
| time signature confidence | float | confidence measure | [url](http://developer.echonest.com/docs/v4/track.html) |
| title | string | song title |  |
| track id | string | Echo Nest track ID |  |
| track 7digitalid | int | ID from 7digital.com or -1 | [url](http://www.7digital.com/) |
| year | int | song release year from MusicBrainz or 0 | [url](http://musicbrainz.org/) |