

Million Song Dataset

Home Getting the dataset Code Tutorial Tasks / Demos More data Forum FAQ Contact / Cite Blog

Home

An Example Track Description

Below is a list of all the fields associated with each track in the database. This is simply an annotated version of the output of the example code display_song.py. For the fields that include a large amount of numerical data, we indicate only the shape of the data array. Since most of these fields are taken directly from the Echo Nest Analyze API, more details can be found at the Echo Nest Analyze API documentation.

A more technically-oriented list of these fields is given on the field list page.

This example data is shown for the track whose track_id is TRAXLZU12903D05F94 - namely, "Never Gonna Give You Up" by Rick Astley.

artist_mbid: db92a151-1ac2-438b-bc43-b82e149ddd50
the musicbrainz.org ID for this artists is db9
artist_mbtags: shape = (4,)
this artist received 4 tags on musicbrainz.org
artist_mbtags_count: shape = (4,)
raw tag count of the 4 tags this artist received on musicbrainz.org
artist_name: Rick Astley
artist name
artist_playmeid: 1338
the ID of that artist on the service playme.com
artist_terms: shape = (12,)
this artist has 12 terms (tags) from The Echo Nest
artist_terms_freq: shape = (12,)
frequency of the 12 terms from The Echo Nest (number between 0 and 1)
artist_terms_weight: shape = (12,)
weight of the 12 terms from The Echo Nest (number between 0 and 1)
audio_md5: bf53f8113508a466cd2d3fda18b06368
hash code of the audio used for the analysis by The Echo Nest
bars_confidence: shape = (99,)
confidence value (between 0 and 1) associated with each bar by The Echo Nest
bars_start: shape = (99,)
start time of each bar according to The Echo Nest, this song has 99 bars
beats_confidence: shape = (397,)
confidence value (between 0 and 1) associated with each beat by The Echo Nest
beats_start: shape = (397,)

News

April 25, 2012

The MSD Challenge has launched!

October 20, 2011

We release the Last.fm dataset of tags and similarity!

April 12, 2011

We release the musiXmatch dataset of lyrics!

March 15, 2011

We release the SecondHandSongs dataset of cover songs!

February 8, 2011

We release the dataset! (and get Dan to blog)

Quick links

LabROSA

The Echo Nest Musicbrainz Infochimps 7digital Last.fm musiXmatch SecondHandSongs

Main contact

MSD mailing list

Random track

new track

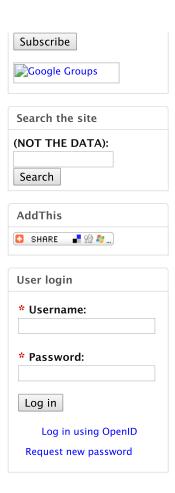
Random ISMIR paper

new paper

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start time of each beat according to The Echo Nest, this song has 397 beats danceability: 0.0 danceability measure of this song according to The Echo Nest (between 0 and 1, 0 => not analyzed) duration: 211.69587 duration of the track in seconds end_of_fade_in: 0.139 time of the end of the fade in, at the beginning of the song, according to The Echo Nest energy: 0.0 energy measure (not in the signal processing sense) according to The Echo Nest (between 0 and 1, 0 => not analyzed) key: 1 estimation of the key the song is in by The Echo Nest key_confidence: 0.324 confidence of the key estimation loudness: -7.75 general loudness of the track mode: 1 estimation of the mode the song is in by The Echo Nest mode_confidence: 0.434 confidence of the mode estimation release: Big Tunes - Back 2 The 80s album name from which the track was taken, some songs / tracks can come from many albums, we give only one release_7digitalid: 786795 the ID of the release (album) on the service 7digital.com sections_confidence: shape = (10,) confidence value (between 0 and 1) associated with each section by The Echo Nest $sections_start: shape = (10,)$ start time of each section according to The Echo Nest, this song has 10 sections segments_confidence: shape = (935,) confidence value (between 0 and 1) associated with each segment by The Echo Nest segments_loudness_max: shape = (935,) max loudness during each segment segments_loudness_max_time: shape = (935,) time of the max loudness during each segment segments_loudness_start: shape = (935,) loudness at the beginning of each segment segments_pitches: shape = (935, 12) chroma features for each segment (normalized so max is 1.) segments_start: shape = (935,) start time of each segment (~ musical event, or onset) according to The Echo Nest, this song has 935 segments segments_timbre: shape = (935, 12)



MFCC-like features for each segment

similar_artists: shape = (100,)

a list of 100 artists (their Echo Nest ID) similar to Rick Astley according to The Echo Nest

song_hotttnesss: 0.864248830588

according to The Echo Nest, when downloaded (in December 2010), this song had a 'hotttnesss' of 0.8 (on a scale of 0 and 1)

song_id: SOCWJDB12A58A776AF

The Echo Nest song ID, note that a song can be associated with many tracks (with very slight audio differences)

start_of_fade_out: 198.536

start time of the fade out, in seconds, at the end of the song, according to The Echo Nest

tatums_confidence: shape = (794,)

confidence value (between 0 and 1) associated with each tatum by The Echo Nest

tatums_start: shape = (794,)

start time of each tatum according to The Echo Nest, this song has 794 tatums

tempo: 113.359

tempo in BPM according to The Echo Nest

time_signature: 4

time signature of the song according to The Echo Nest, i.e. usual number of beats per bar

time_signature_confidence: 0.634

confidence of the time signature estimation

title: Never Gonna Give You Up

song title

track_7digitalid: 8707738

the ID of this song on the service 7digital.com

track_id: TRAXLZU12903D05F94

The Echo Nest ID of this particular track on which the analysis was done

year: 1987

year when this song was released, according to musicbrainz.org