

# Example Track Description

(from: <https://labrosa.ee.columbia.edu/millionsong/pages/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,)

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
<b>end_of_fade_in: 0.139</b>
time of the end of the fade in, at the beginning of the song, according to The Echo Nest
<b>energy: 0.0</b>
energy measure (not in the signal processing sense) according to The Echo Nest (between 0 and 1, 0 => not analyzed)
<b>key: 1</b>
estimation of the key the song is in by The Echo Nest
<b>key_confidence: 0.324</b>
confidence of the key estimation
<b>loudness: -7.75</b>
general loudness of the track
<b>mode: 1</b>
estimation of the mode the song is in by The Echo Nest
<b>mode_confidence: 0.434</b>
confidence of the mode estimation
<b>release: Big Tunes – Back 2 The 80s</b>
album name from which the track was taken, some songs / tracks can come from many albums, we give only one
<b>release_7digitalid: 786795</b>
the ID of the release (album) on the service 7digital.com
<b>sections_confidence: shape = (10,)</b>
confidence value (between 0 and 1) associated with each section by The Echo Nest
<b>sections_start: shape = (10,)</b>
start time of each section according to The Echo Nest, this song has 10 sections
<b>segments_confidence: shape = (935,)</b>
confidence value (between 0 and 1) associated with each segment by The Echo Nest
<b>segments_loudness_max: shape = (935,)</b>
max loudness during each segment
<b>segments_loudness_max_time: shape = (935,)</b>
time of the max loudness during each segment
<b>segments_loudness_start: shape = (935,)</b>
loudness at the beginning of each segment
<b>segments_pitches: shape = (935, 12)</b>
chroma features for each segment (normalized so max is 1.)
<b>segments_start: shape = (935,)</b>
start time of each segment (~ musical event, or onset) according to The Echo Nest, this song has 935 segments
<b>segments_timbre: shape = (935, 12)</b>
MFCC-like features for each segment
<b>similar_artists: shape = (100,)</b>

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

**song\_hottnesss: 0.864248830588**

according to The Echo Nest, when downloaded (in December 2010), this song had a 'hottnesss' 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