

Data Dictionary

Attribute	Datatype	Description	Required
track_id	object	Spotify ID of the track.	Yes
artist_1	object	Artist mentioned first in the track.	Yes
artist_2	object	Artist mentioned second in the track.	Yes
artist_3	object	Artist mentioned third in the track.	Yes
track_name	object	Name of track.	Yes
popularity	int64	Spotify popularity.	Yes
datetime	object	Track release datetime.	Yes
danceability	float64	How suitable a track is for dancing. Based on tempo, rhythm stability, beat strength etc.	Yes
energy	float64	A perceptual measure of intensity and activity. Energetic tracks feel fast, loud, noisy. Perceptual features contributing to this attribute include dynamic range, perceived loudness, timbre, onset rate, and general entropy.	Yes
key	int64	Estimated overall key of the track, using standard Pitch Class notation.	No
loudness	float64	The overall loudness of a track in decibels (dB). Loudness values are averaged across the entire track and are useful for comparing relative loudness of tracks. Loudness is the quality of a sound that is the primary psychological correlate of physical strength (amplitude).	Yes
mode	int64	Modes are alternative tonalities (scales) that can be derived from the familiar major scale by starting on a different scale tone.	No
speechiness	float64	Speechiness detects the presence of spoken words in a track. The more exclusively speech-like the recording (e.g. talk show, audio book, poetry), the closer to 1.0 the attribute value. Values above 0.66 describe tracks that are probably made entirely of spoken words. Values between 0.33 and 0.66 describe tracks that may contain both music and speech, either in sections or layered, including such cases as rap music. Values below 0.33 most likely represent music and other non-speech-like tracks.	Yes
acousticness	float64	A confidence measure from 0.0 to 1.0 of whether the track is acoustic. 1.0 represents high confidence the track is acoustic.	Yes
instrumentalness	float64	Measure of instrument content	Yes
liveness	float64	Live or not	Yes
valence	float64	A measure from 0.0 to 1.0 describing the musical positiveness conveyed by a track. Tracks with high valence sound more positive (e.g. happy, cheerful, euphoric), while tracks with low valence sound more negative (e.g. sad, depressed, angry).	Yes
tempo	float64	The overall estimated tempo of a track in beats per minute (BPM). In musical terminology, tempo is the speed or pace of a given piece and derives directly from the average beat duration.	Yes
duration	int64	Length of song	Yes
time_signature	float64	Beats (pulses) are to be contained in each bar and which note value is to be given one beat.	Yes