Discovering
Spotify Wrapped

Credits

People

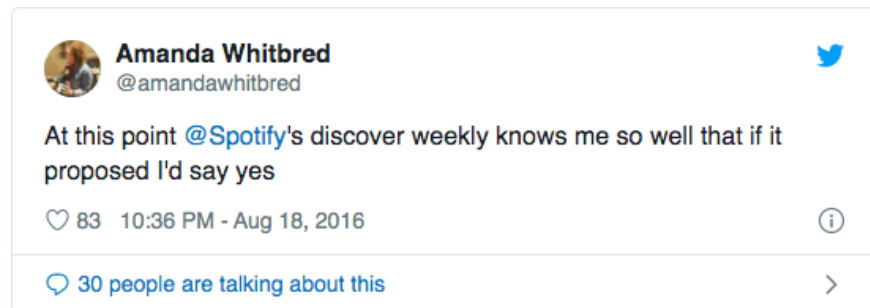**Performed by**
YOU

Written by
YOU

Produced by
YOU ft RITA PEREIRA

Source: Verdadeira Corp.

CLOSE

Who doesn't love Mondays?

No one - you'd say. **However, Spotify releases this little golden gem of a playlist called Discover Weekly.** It's filled to the brim with new songs that I haven't heard before. I'll almost always find my new jam for the next few weeks on it. But, how do they make it?

If you are interested in finding out how Spotify performs this witchery click **here.**

Putting together my wanna be programming skills with my not so wanna be Spotify addiction, **I tried to figure out how to build my own recommendation system, as well as some fun Exploratory Data Analysis along the way.**

Here is my Project git folder in case you'd like to check the code.

The witchery starts with the use of Spotify API to create an app within the Spotify developer environment. After creating a developer's account and an application environment I'm able to access data on any public playlist out there.

Luckily for us, Spotify provides us a way to do that — **the Audio Feature Object aka Features!!**

Let's take a look at each feature.

TEMPO. How many beats per minute (BPM) does each song have?

- Hip Hop 85–95 BPM
- Glitch Hop 105–115 BPM
- Techno 120–125 BPM
- House & Pop 115–130 BPM
- Electronic 128 BPM
- Reggaeton >130 BPM
- Dubstep 140 BPM

ENERGY. Measure of intensity and activity.

Typically, energetic tracks feel fast, loud, and noisy. For example, death metal has high energy, while a Bach prelude scores low on the scale.

DANCEABILITY.

Danceability describes how suitable a track is for dancing based on a combination of musical elements including **tempo, rhythm stability, beat strength, and overall regularity**.

Spoiler alert: Lana Del Rey does not contribute for high danceability level.

MODE. Indicates the modality (major = 1 or minor= 0) of a track.

KEY. The estimated overall key of the track.

E.g. 0 = C, 1 = C♯/D♭, 2 = D, and so on. If no key was detected, the value is -1.

ACOUSTICNESS. 0.0 to 1.0 of whether the track is acoustic.

VALENCE. Musical positiveness conveyed by a track.

This is one of the most interesting metrics that Spotify produces:

- Tracks with high valence sound more positive (e.g. happy, cheerful, euphoric)
- Tracks with low valence sound more negative (e.g. sad, depressed, angry).

Spoiler alert: Lana Del Rey does not contribute for high valence level.

LOUDNESS. The overall loudness of a track in decibels (dB).

Values typical range between -60 and 0 db.

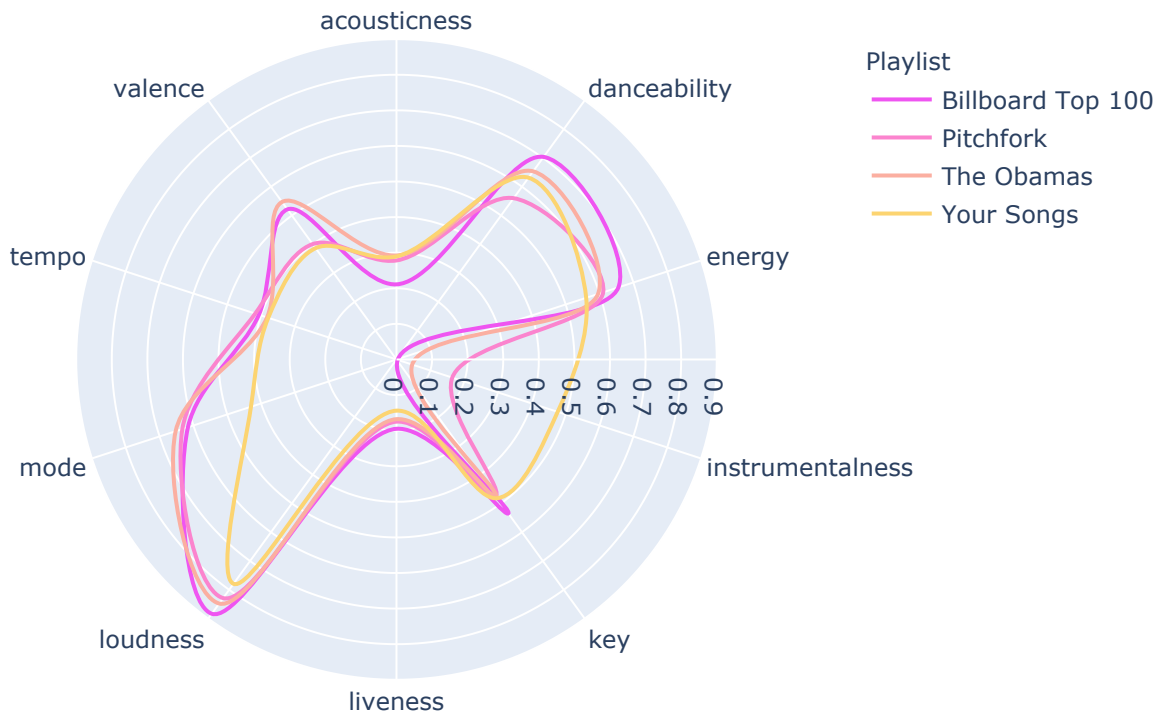## LIVENESS. Detects the presence of an audience in the recording.

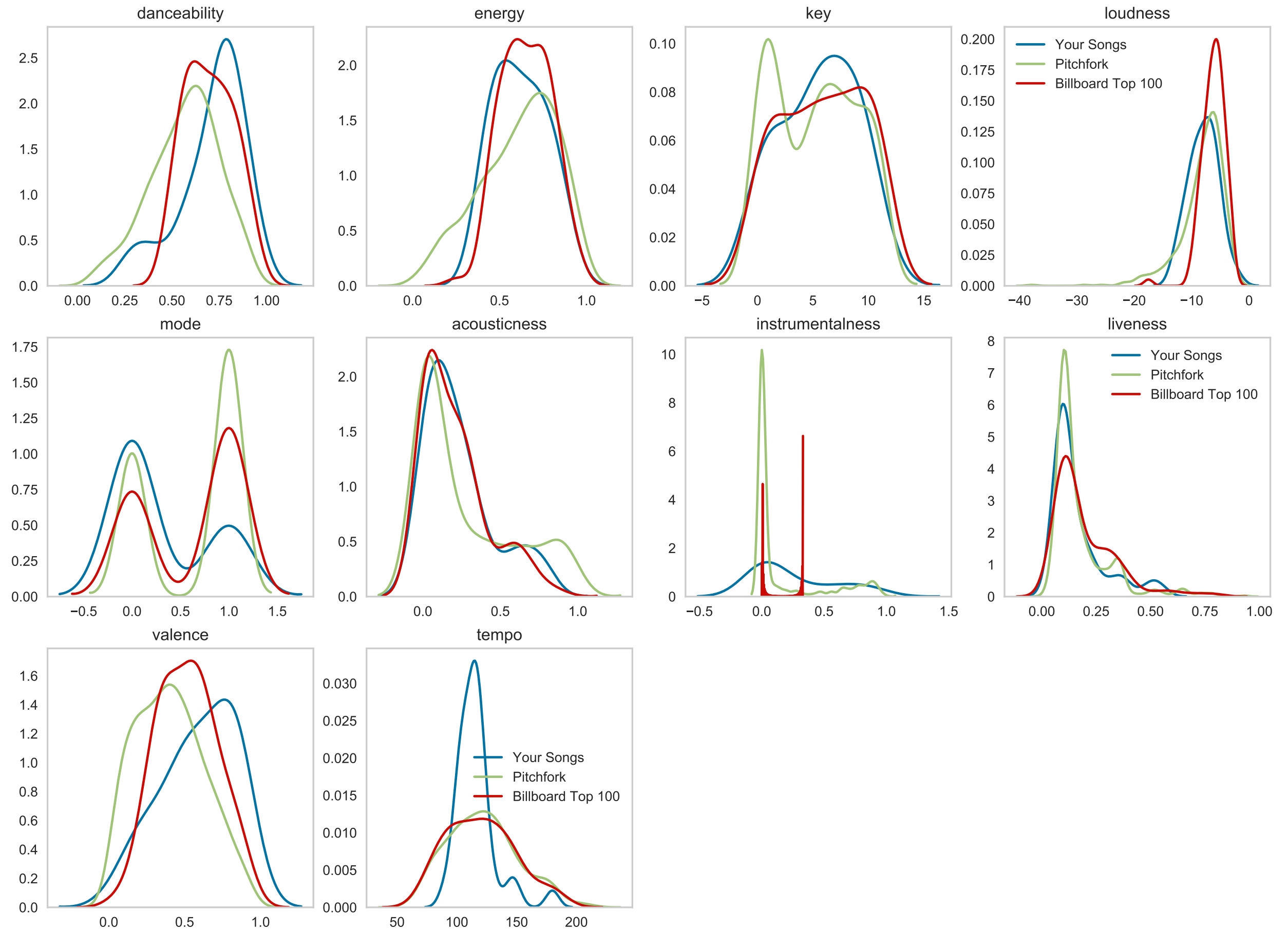- A value above 0.8 provides strong likelihood that the track is live.

In the next pages let's analyse your musical taste and compare it with some famous references.

Mean Values of Each Playlist Features

Radar chart displaying mean values across features: acousticness, danceability, energy, instrumentalness, key, liveness, loudness, mode, tempo, valence. Radial axis labeled 0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9.

Playlist
- Billboard Top 100
- Pitchfork
- The Obamas
- Your Songs

Hipster or Mainstream?

You an Obama?
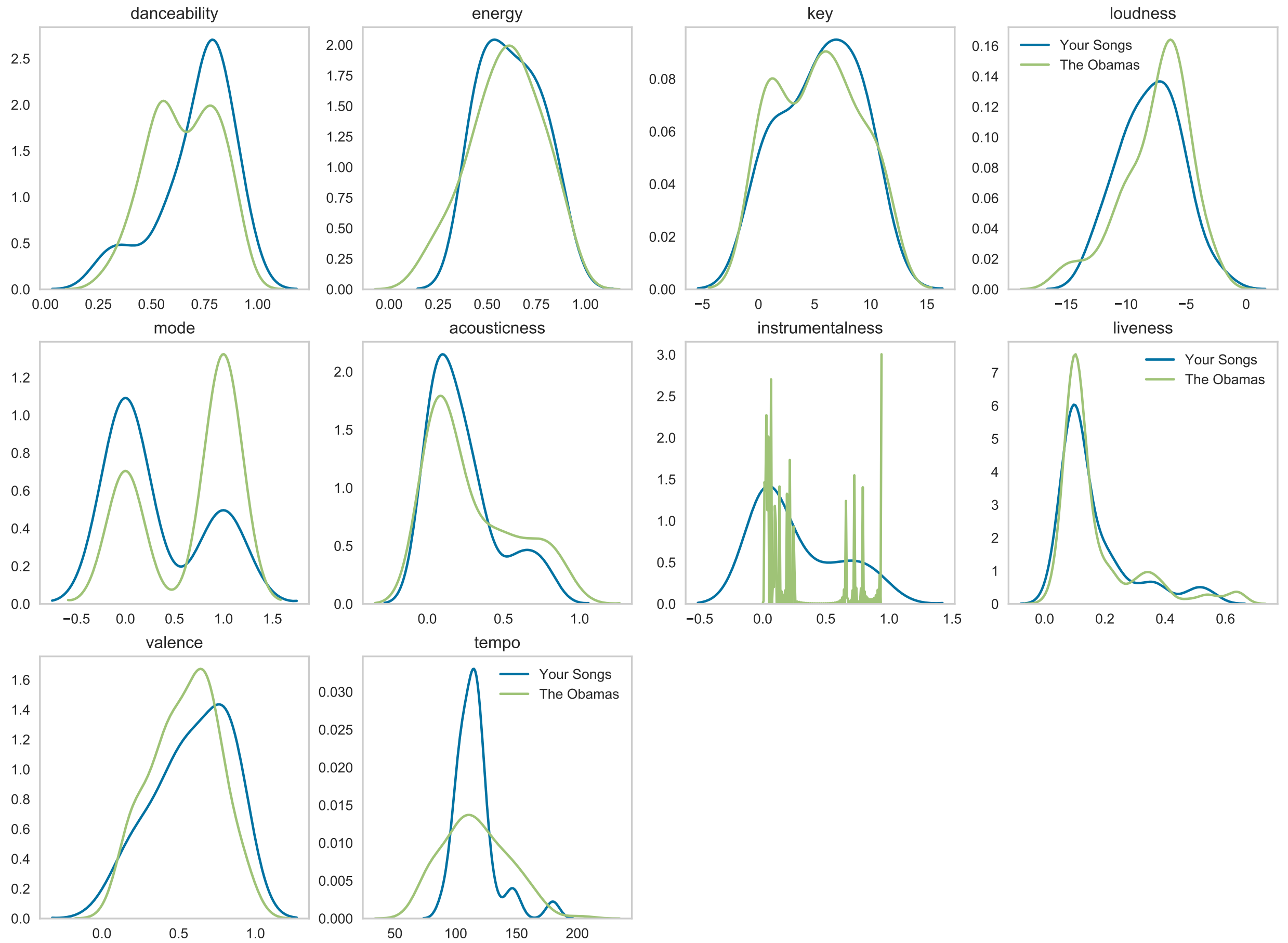
	Song Title	Artist
108	Maguel Chops	Tom Misch
762	Yesterday (Was So Nice Today)	Aquarian Dream
786	Life Round Here	James Blake
871	Present Tense	Radiohead
917	Lay You Down	Matt Corby
1024	Settle For My Love	Patrice Rushen
1039	LÃ¸b Stop StÃ¥ (feat. Coco O.)	Boom Clap Bachelors
1057	Creole	Mos Def
1241	Ev'ry Time We Say Goodbye	Betty Carter
1920	Lamento de AngÃªlica	David ZÃ©
2047	Souvenir - Radio edit	Feu! Chatterton
2082	Rill Rill	Sleigh Bells
2486	The Finishing	Stavroz
2885	In Touch	Suuns and Jerusalem in My Heart
3519	People	The 1975
3766	Keep in the Dark	Temples
4089	Quinta-feira	Doismileoito
4256	Smack A Bitch	Rico Nasty
4304	Drone Bomb Me	ANOHNI
4523	All Mirrors	Angel Olsen
4630	Stay Away	Charli XCX
4741	Minas Gerais	O Terno
5330	AcÃ¡ Se Baila To'	Power Peralta
5352	B11 (feat. Myke Towers)	Myke Towers
5523	La Isla (with Sech & Dalex feat. Justin Quiles, La Exce, Feid, Zion)	Zion
5565	Muevete y Bailame	Yessie
5688	Mi Funeral	Nengo Flow
5835	I'm a Slave 4 U	Britney Spears
6269	Working Man	Rush
6703	Que Beleza	Tim Maia