Discovering
Spotify Wrapped

Credits

People

Performed by

YOU

Written by
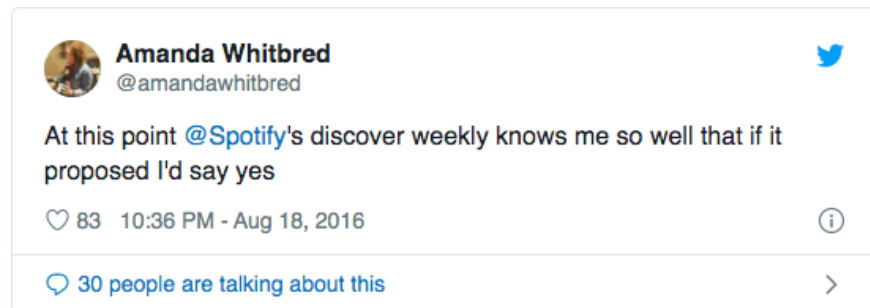
YOU

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.

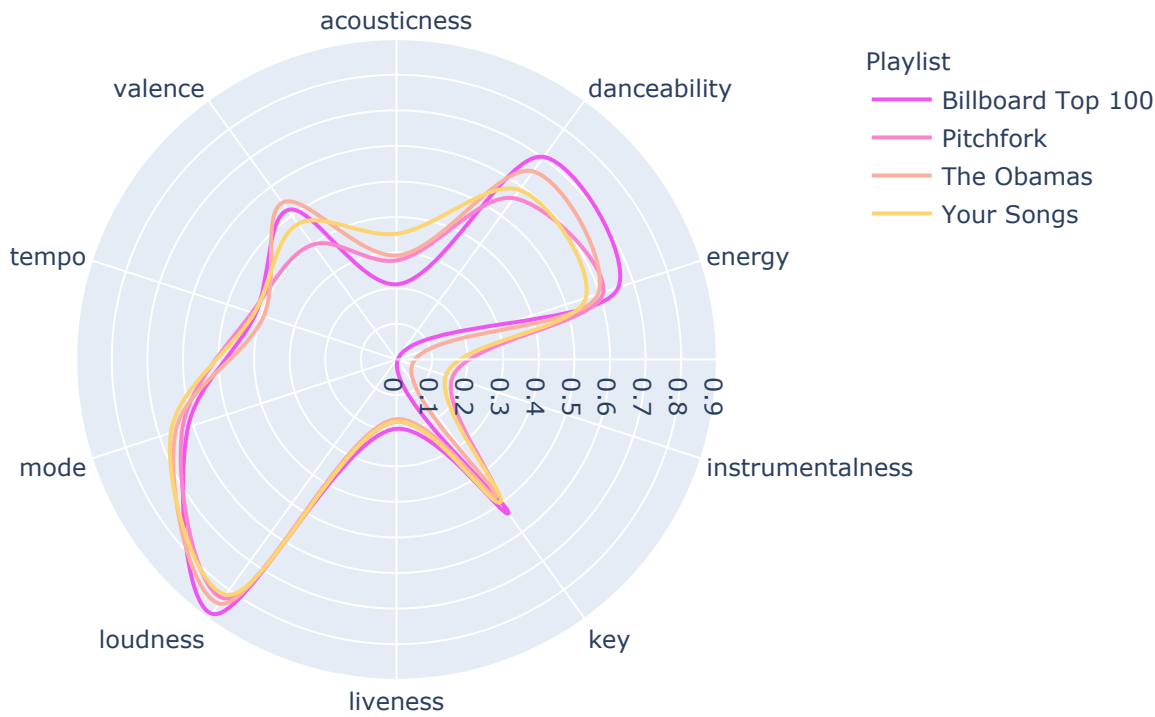## LIVENESS. Detects the presence of an audience in the recording.

- A value above 0.8 provides strong likelihood that the track is live.
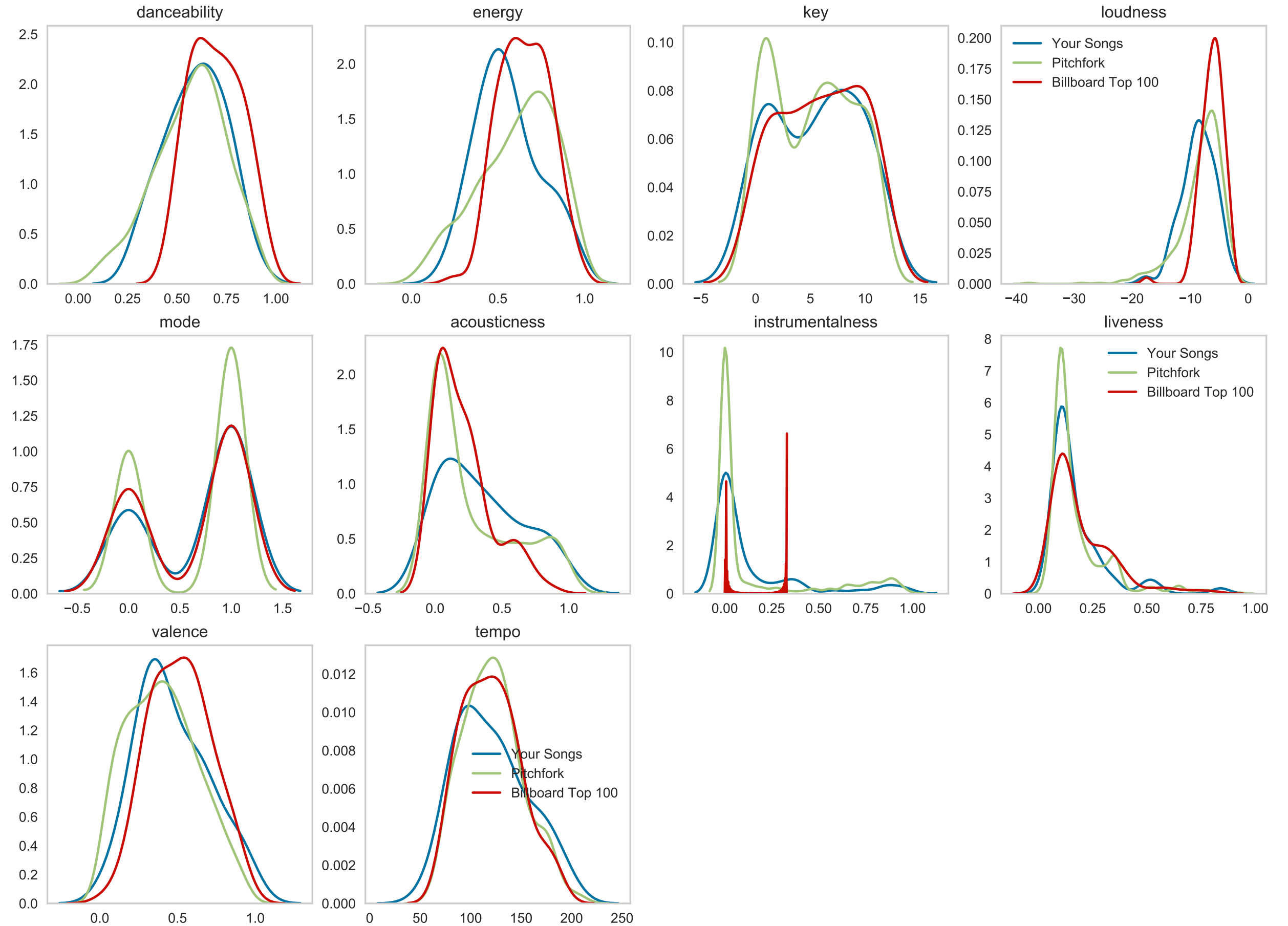
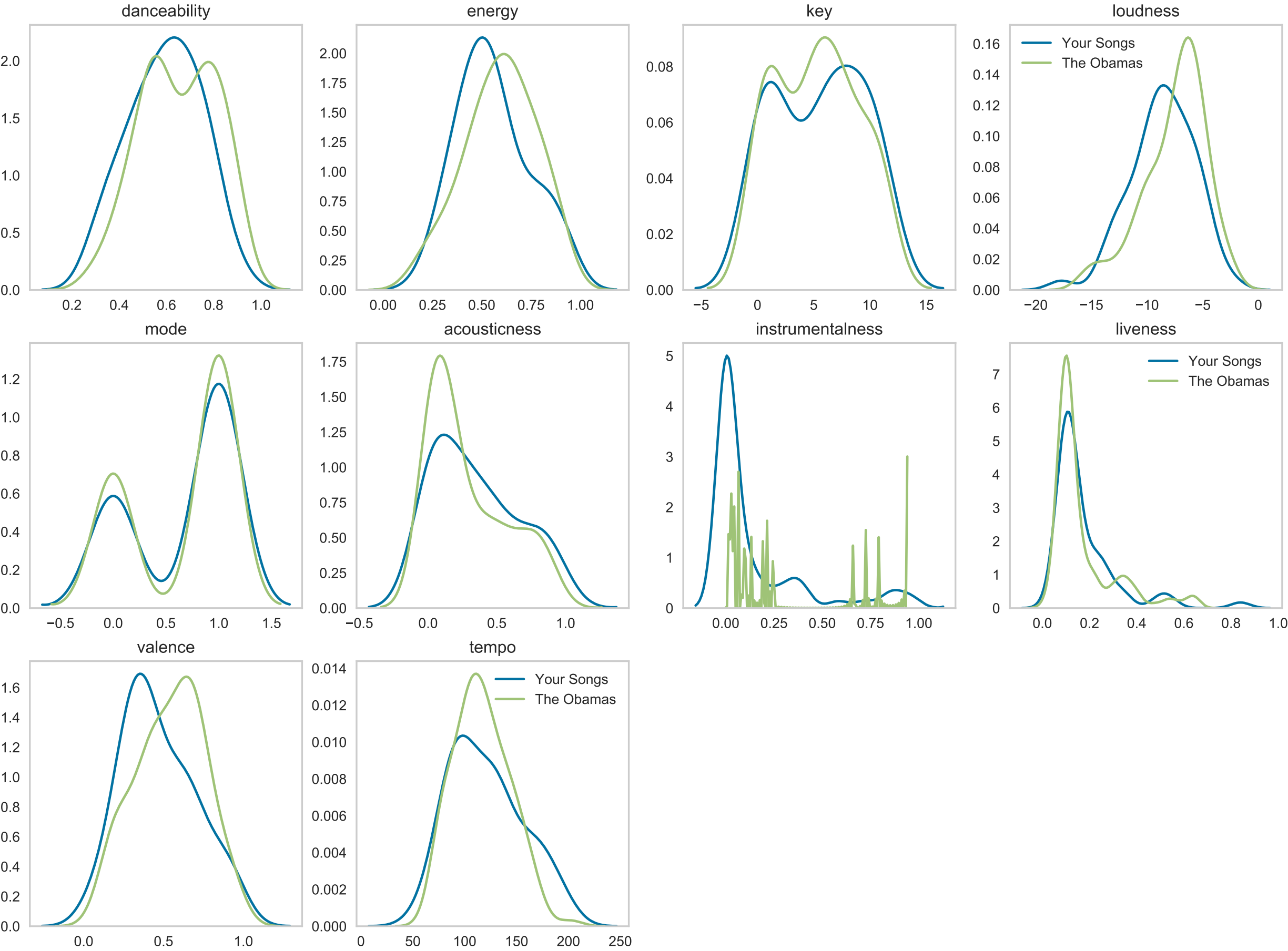In the next pages let's analyse your musical taste and compare it with some famous references.

Mean Values of Each Playlist Features

Hipster or Mainstream?

You an Obama?

	Song Title	Artist
144	Morning Sunrise	Weldon Irvine
145	Secret Love	Shayna Steele
391	We've Come So Far	Tom Misch
493	Yo Yo Affair Pt. 1 & 2	Madlib
803	Everybody Loves The Sunshine - Original Mix	Kan Sano
1109	Here We Go	Roberta Flack
1469	The Bug Collector	Haley Heynderickx
1682	Feed My Ego	Mickey Darling
1914	Ladies and Gentlemen We Are Floating in Space	Spiritualized
2145	"Juntos"	A Balsa
2675	Paradise Architects	Theo Parrish
3462	All Mirrors	Angel Olsen
3567	Sleep Alone	Two Door Cinema Club
4062	Yumain O Leila	Jadal
4076	Movin' Up	X-Wife
4342	BTSTU - Edit	Jai Paul
4785	Nara	alt-J
4868	Oxum	XÃªnia FranÃ§a
4993	Salem	Bon Iver
5125	Symphonia IX	Current Joys
5540	Le Creo	Jowell & Randy
5770	Flow Batalla	NACHOSKY
6125	Future Breed Machine	Meshuggah
6323	Mouth for War	Pantera
6505	Se A Casa Cair	Bandalusa
6528	Ã‰s TÃ£o Sensual	Toy
6948	Electric Feel	MGMT
7040	Early Flight	iamalex
7545	Graceland	Paul Simon
7666	Foulo	Orchestra Baobab