



## People

YOU

YOU

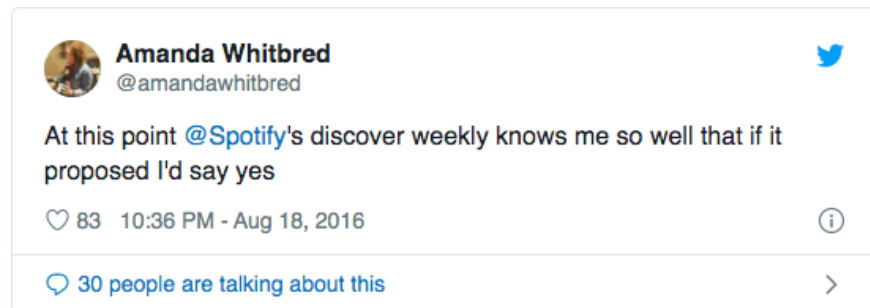
YOU ft RITA PEREIRA

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](#).

Get better recommendations the more you listen.

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#/Db, 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.

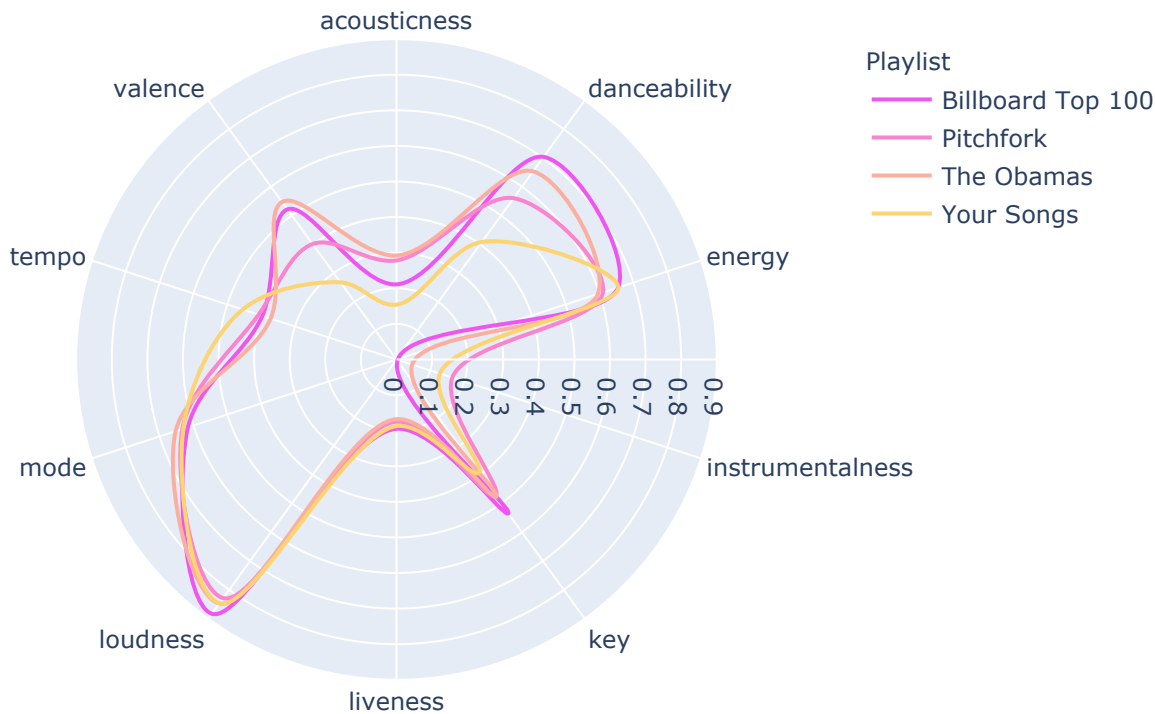
- A value above 0.8 provides strong likelihood that the track is live.



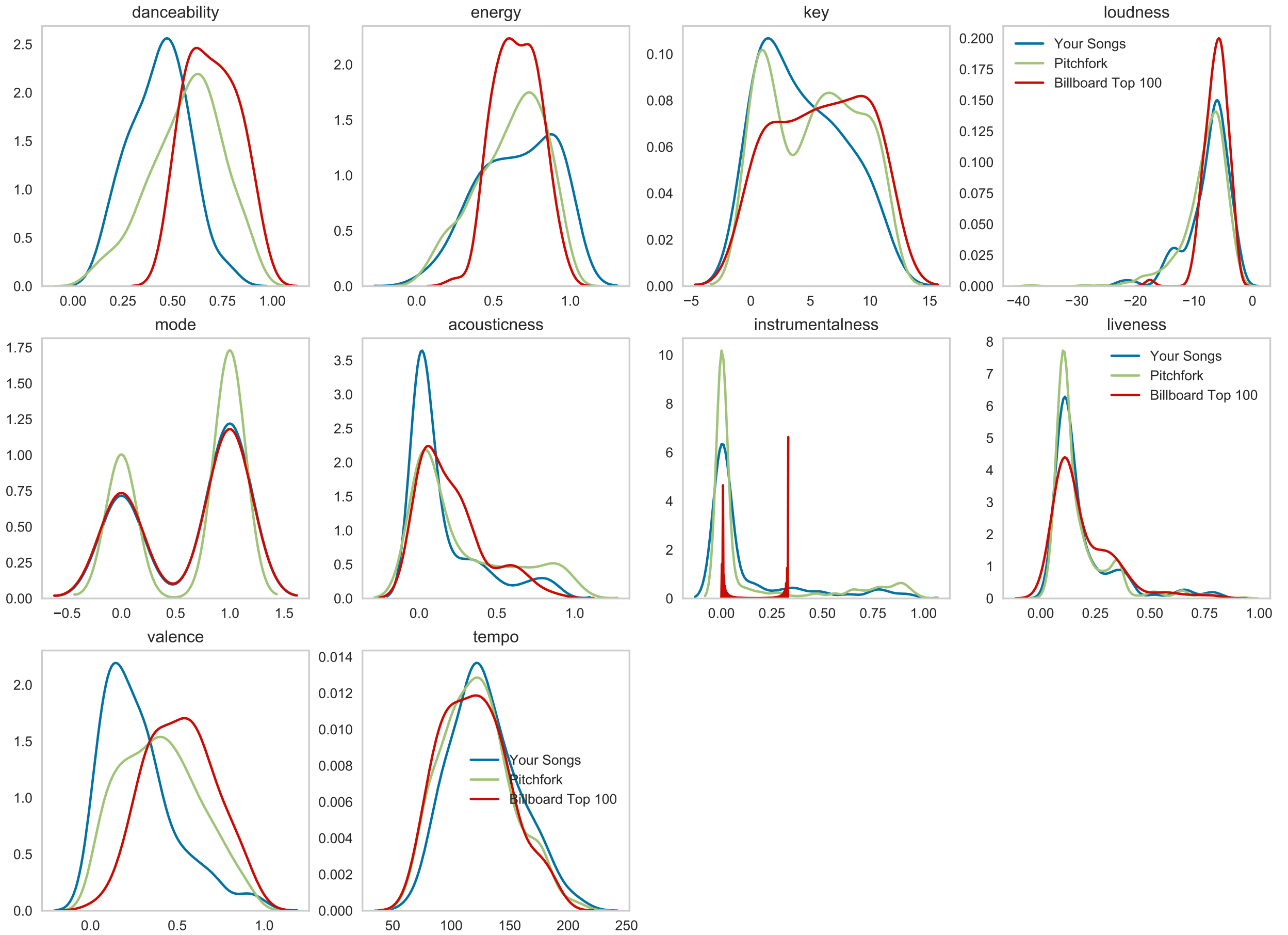
In the next pages let's analyse your musical taste and compare it with some famous references.



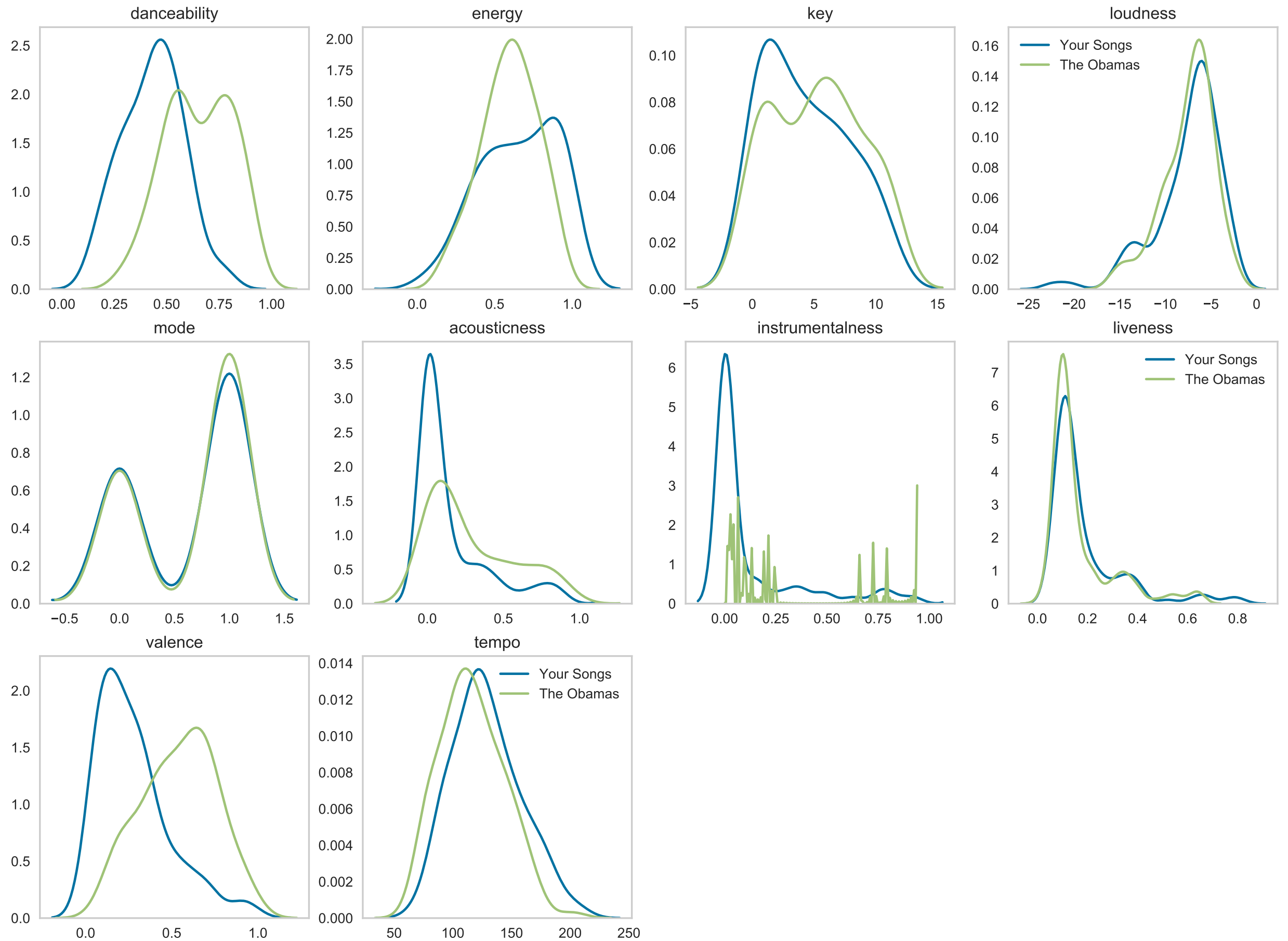
# Mean Values of Each Playlist Features



## Hipster or Mainstream?



## You an Obama?



	Song Recommendation	Artist
369	Punjab	Godwin Louis
781	untitled 08   09.06.2014.	Kendrick Lamar
1037	Dance Of The Infidel	Chris Dave
1212	A Little Soul	Pete Rock
1681	Favourite Kind Of Girl	Flikka
2370	Cosmic Girl - Remastered	Jamiroquai
2443	Nevermind	Dennis Lloyd
2740	A Victory of Love	Alphaville
2858	Life's Good	Silvestre
3009	I Give Up and It's Ok	Marinho
3166	I Need Your Love - Mijo Remix	Mirror People
3375	Go Outside	Cults
3376	Juventude SÃ³nica	Linda Martini
3510	Smooth Sailing	Queens of the Stone Age
3566	Sometimes	Miami Horror
3856	Sportstar	Alex G
3929	Valer la Pena	Mestrinho
4052	Diga	Camila Cortellini
4128	Hold On, We're Going Home	Majid Jordan
4187	Nice For What	Drake
4694	Made to Fall in Love	Daniel Caesar
5062	Sofa	Collard
5140	Taxiâ€™s Here	Tame Impala
5171	Time Moves Slow	Samuel T. Herring
6117	The Sentinel	Judas Priest
6369	Lightning	British Lion
6490	A moda do pisca-pisca	Ruth Marlene
6636	Bebe e Vem Me Procurar	RaÃ Saia Rodada
6745	SUGAR	BROCKHAMPTON
7421	All The Small Things	blink-182