



People

YOU

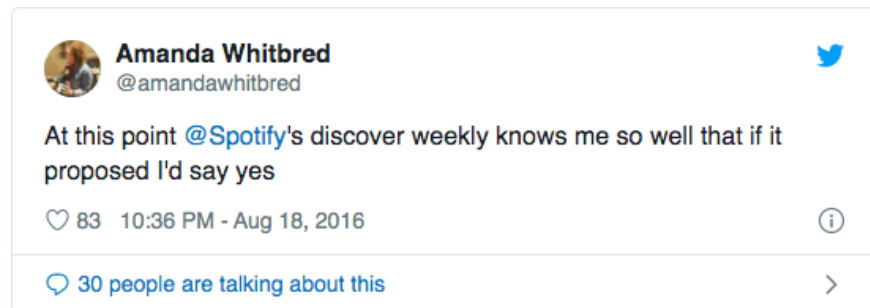
YOU

YOU ft RITA PEREIRA

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.

