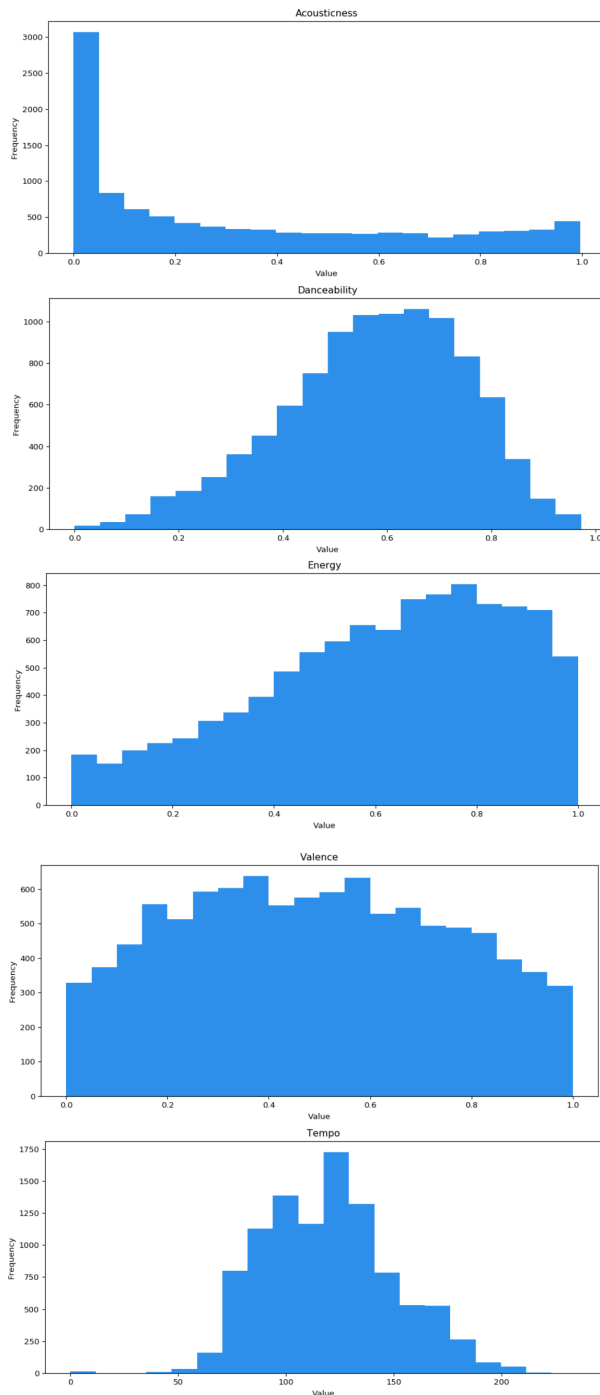
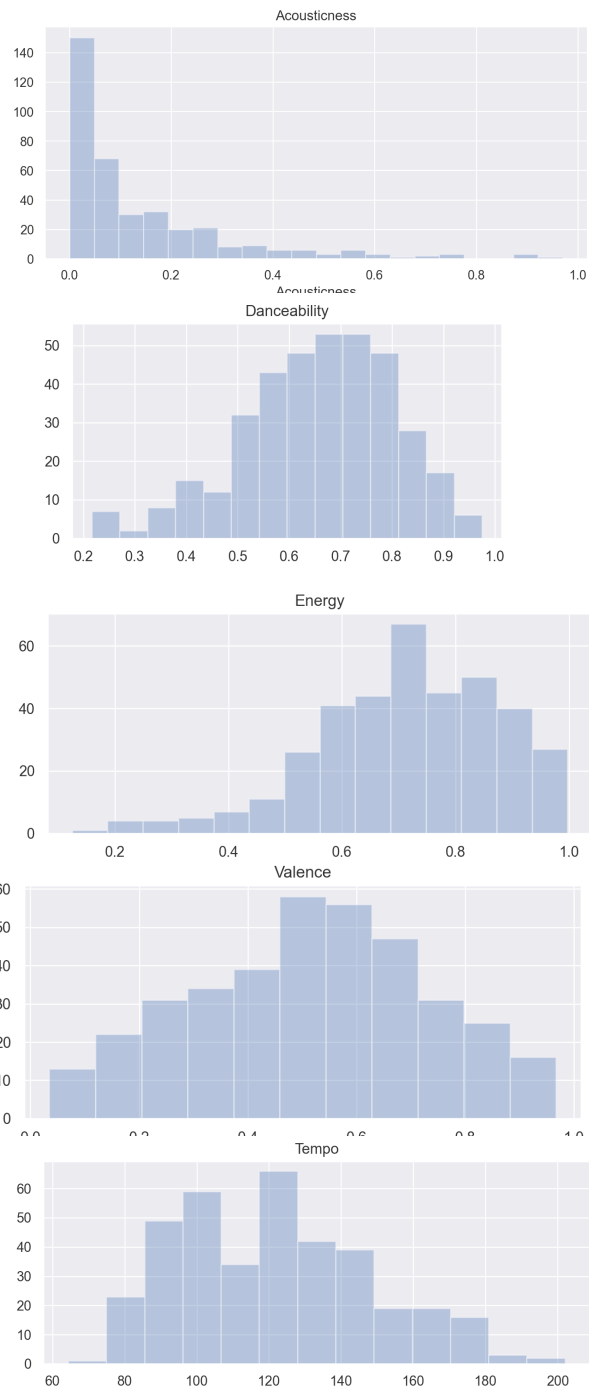


SPOTIFY DATA



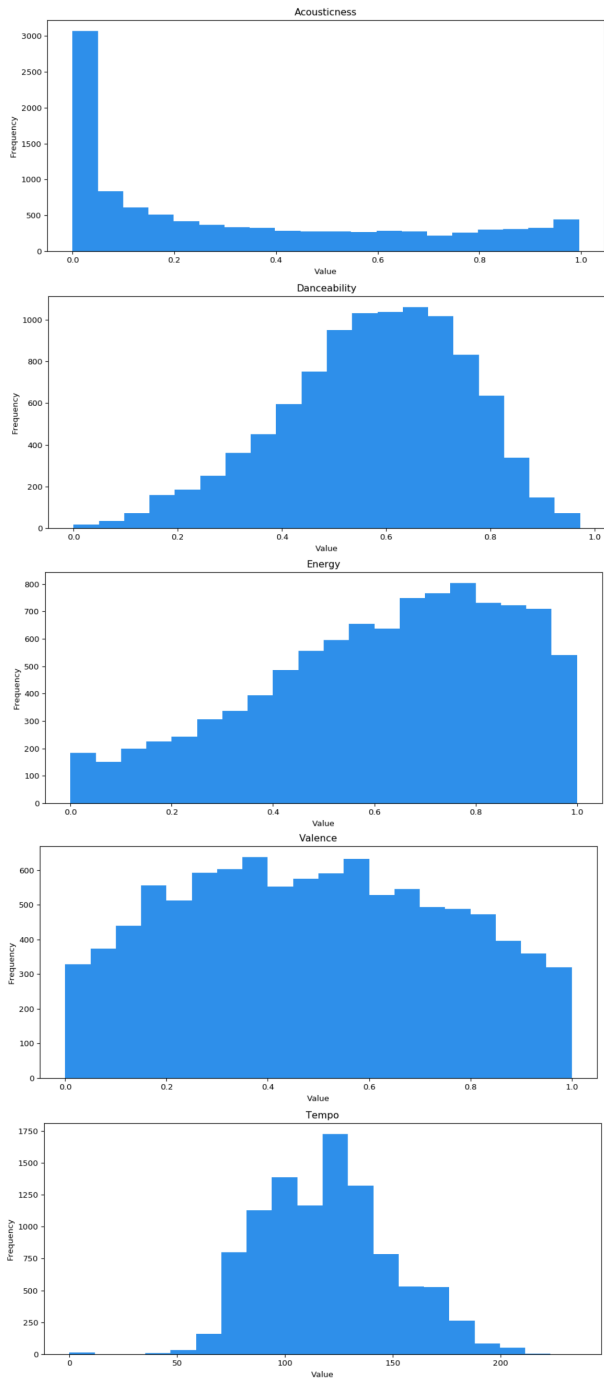
MY DATA



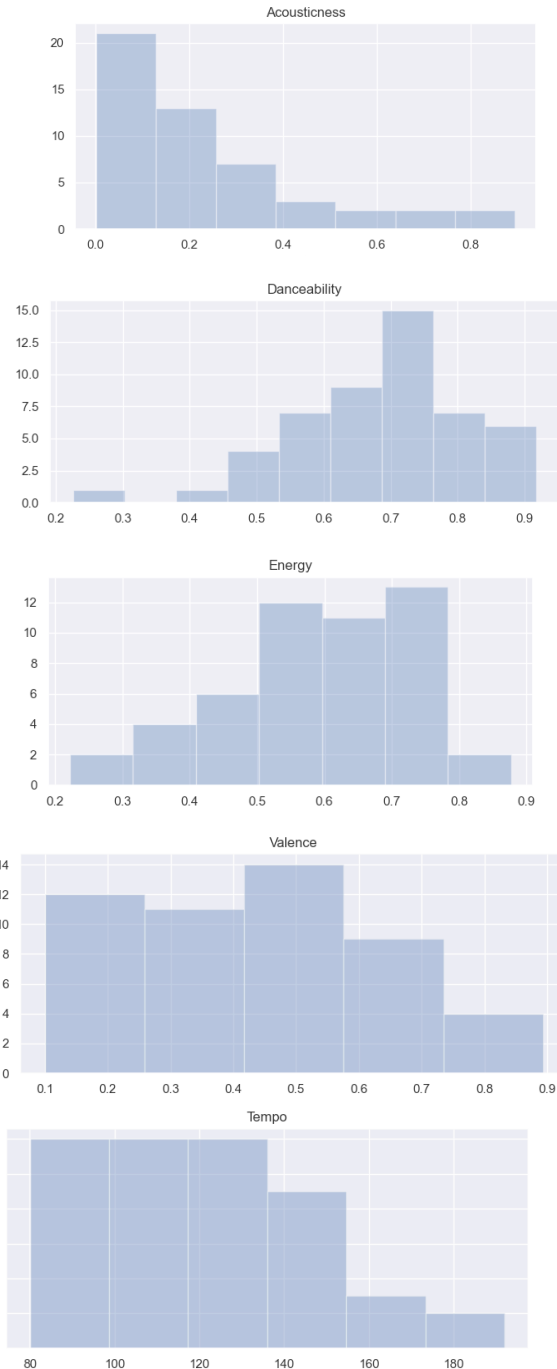
I feel that I listen to most kinds of music, and these charts prove that. I have omitted four features: speechiness, loudness, liveness, and instrumentalness, since my plots were very similar to the distribution that Spotify provided on: <https://developer.spotify.com/documentation/web-api/reference/tracks/get-audio-features/>.

- Interestingly, I have a relatively high distribution of tracks with a high valence, which tend to be positive (happy, cheerful, or euphoric) songs. Maybe I am happy?
- A 120 tempo seems to be my favourite, although most songs on Spotify fall under that category too.
- Also, most of my tracks appear to be high energy.
- However, given that I have a wide variety of tracks in my liked songs, I will run a sample of tracks I added more recently, since my tastes change with the times.

SPOTIFY DATA



MY DATA

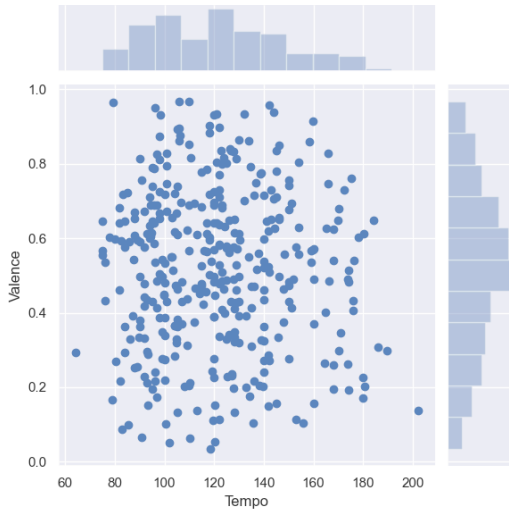


So, with the 50 most recently added songs, I see three trend changes:

1. Energy appears to have decreased slightly, with more songs proportionally in the 0.5-0.6 range than before, where 0.7 was the highest.
2. Valence has dropped significantly, where most of the songs went from above 0.5 to below 0.5.
3. Tempo has dropped significantly, with most songs under 140 BPM.

SPOTIFY DATA

MY DATA



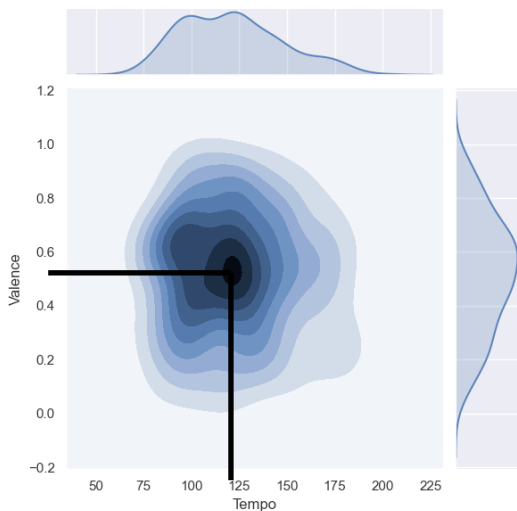
Now, we compare two variables with each other, namely Valence and Tempo, where we see a few clusters:

- Around 80-90 tempo and 0.6 valence.
- Around 125-130 tempo and 0.35 valence.
- Around 120-130 tempo and 0.58 valence.
- Around 120 tempo and 0.7 valence.
- Around 120 tempo and 0.8 valence.

Clearly, 120-130 tempo makes up most of my favourite songs.

For our kernel density estimation (KDE) (Valence vs. Tempo), we see the darkest area in the region of around:

- 125 tempo and 0.5-0.6 valence, with tolerance for songs with a slower tempo and similar valence, and a minor tolerance for high tempo, low valence songs.



For our second KDE (Energy vs. Tempo), we see the darkest area in the region of around:

- 100 tempo and 0.7 Energy.
- 120 tempo and 0.7 Energy.

For our final KDE (Valence vs. Energy), we see the darkest area in the small region of around:

- 0.55 valence and 0.7 energy.

So, we can conclude that my favourite features are:

1. 100 or 120 tempo.
2. 0.7 energy.
3. 0.5-0.6 valence.

We will search for songs on Spotify that match these features to add to my library.

