How does artistly work?

danceability speechiness tempo more
.6302 .7000 120 ...

Every song on Spotify has different Music metrics associated with them.

2 weeks 1. J. Spotify keeps track of your most 0 \$2.52 listened to songs over different ranges of time.

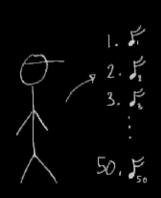
 $\int_{0}^{\infty} C_{1} \times \frac{\int_{0}^{\infty} f_{2} \int_{0}^{\infty} f_{3} \int_{0}^{\infty} f_{4}}{\int_{0}^{\infty} C_{1} \times \frac{\int_{0}^{\infty} f_{3} \int_{0}^{\infty} f_{3} \int_{0}^{\infty} f_{4}}{\int_{0}^{\infty} f_{3} \int_{0}^{\infty} f_{4}}}$

= [120].400 | 105 [...] We can create a vector, I, that represents a weighted average of a users' music taste.

(, > C2> ... > Cn

This means the most popular song for a user is responsible for the highest contribution to

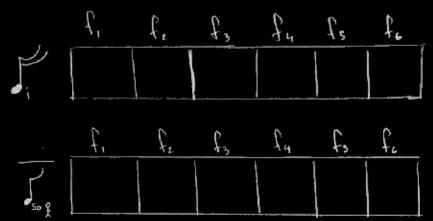
Now, we can associate a Spotify user with a vector that describes their ideal values for different spotify music . features.



1. F. Now, we have an artist on Spotify with songs F, and discography F.

3. F. For each song in this artist's discography,

For each song in this artist's discography let's compare it to our users' list of ideal song features, Ing.



If we find the Standard deviation of each feature, δ_{f_i} , in our artists' discography, then we can compute the z-score of our desired ideal feature values.

Then, we can sum all our z-scores across all m features to get a number that represents a distance between this particular song and our idea of an ideal song, di.

The distance between the song in
$$X_{K} = \sum_{i=1}^{m} Z_{f_{i}} = \sum_{i=1}^{m} \frac{Z_{f_{i}}}{\delta f_{i}} = \sum_{i=1}^{m} \frac{Z_{f_{i}}}{\delta f_{i}}$$
The sum of all $Z_{-scores}$ across m

The song with the smallest value for d is the most similar to Inx