

Advanced Data Analysis in R



Final Project Presentation

Modeling Musical Diversity

STUDENTS

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How newly available sound data can help us better measure Musical Diversity



Quantifying diversity can give us a powerful tool in music analysis

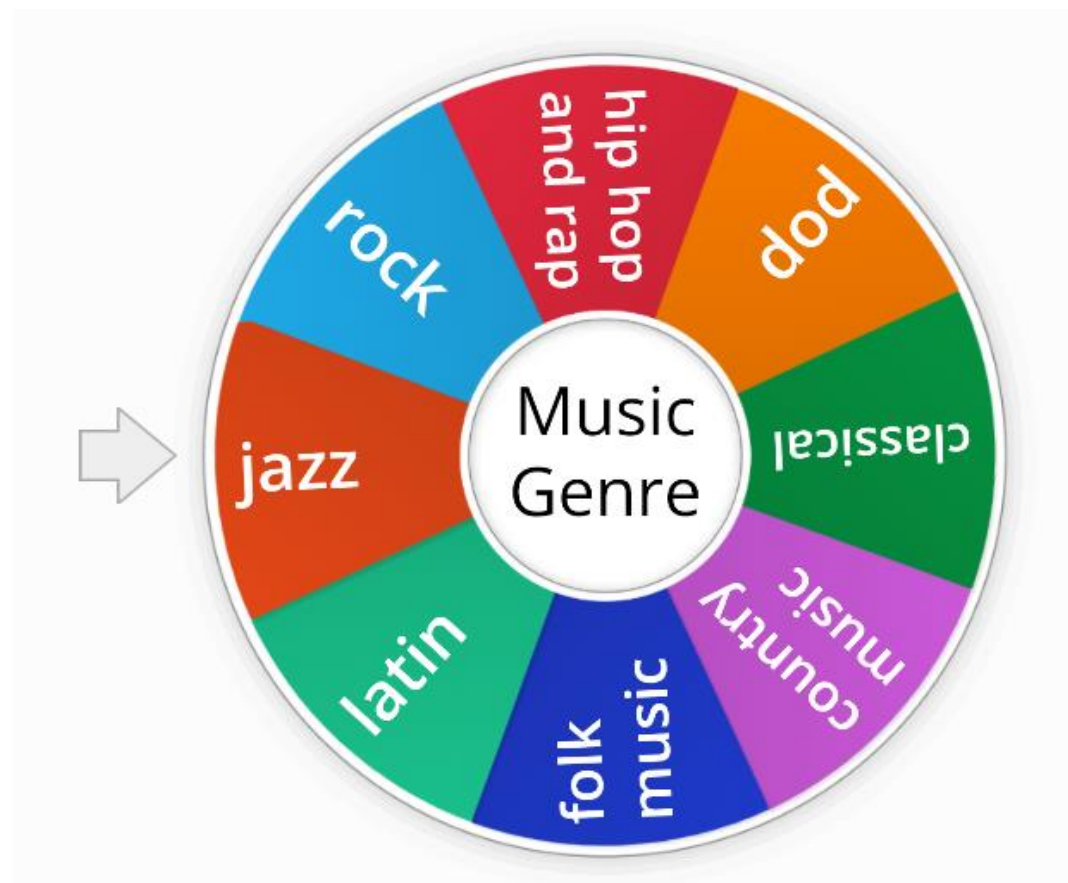


How can music be quantified ?



A data based approach using the Spotify API

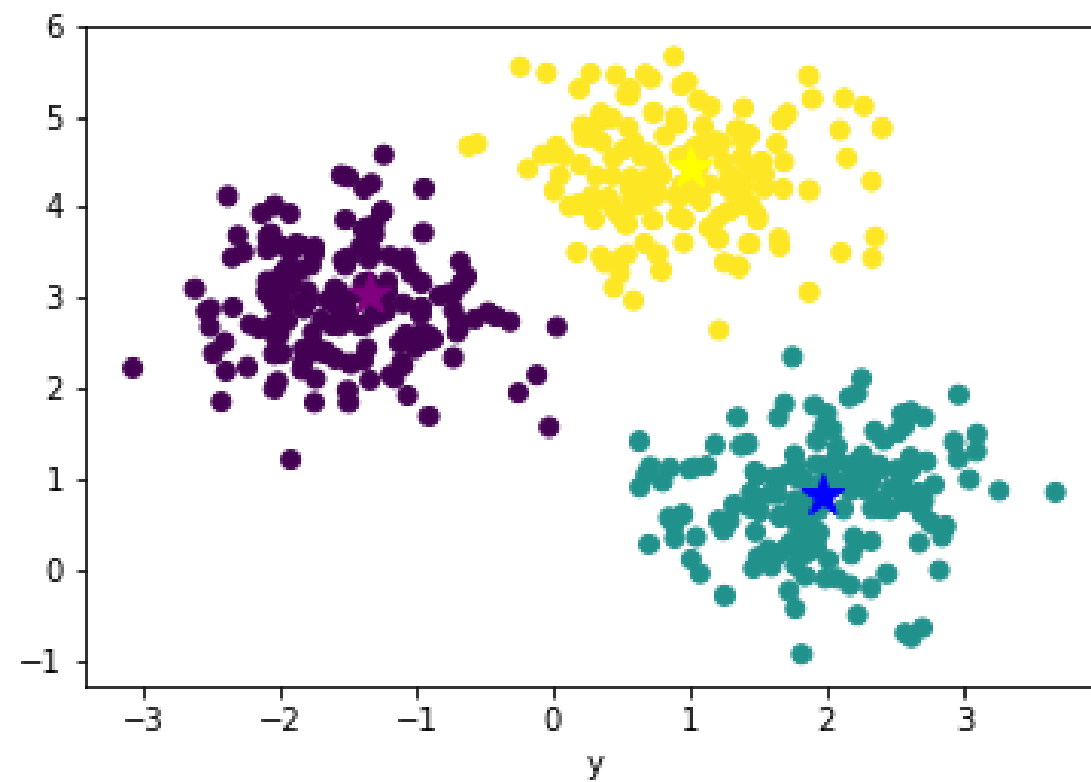
Genre Distribution



Genre Diversity

A direct approach

RMSE



Vector Concentration

A Mathematical and
Statistical approach

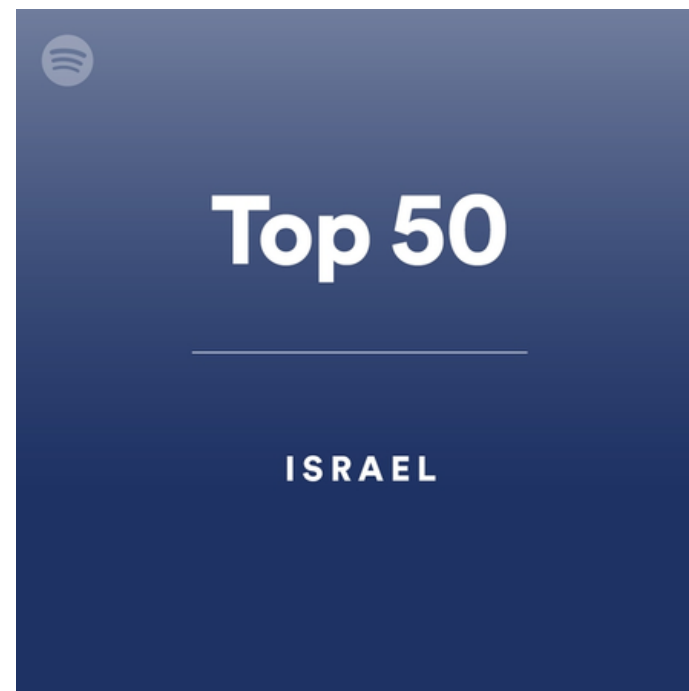
Rao stirling

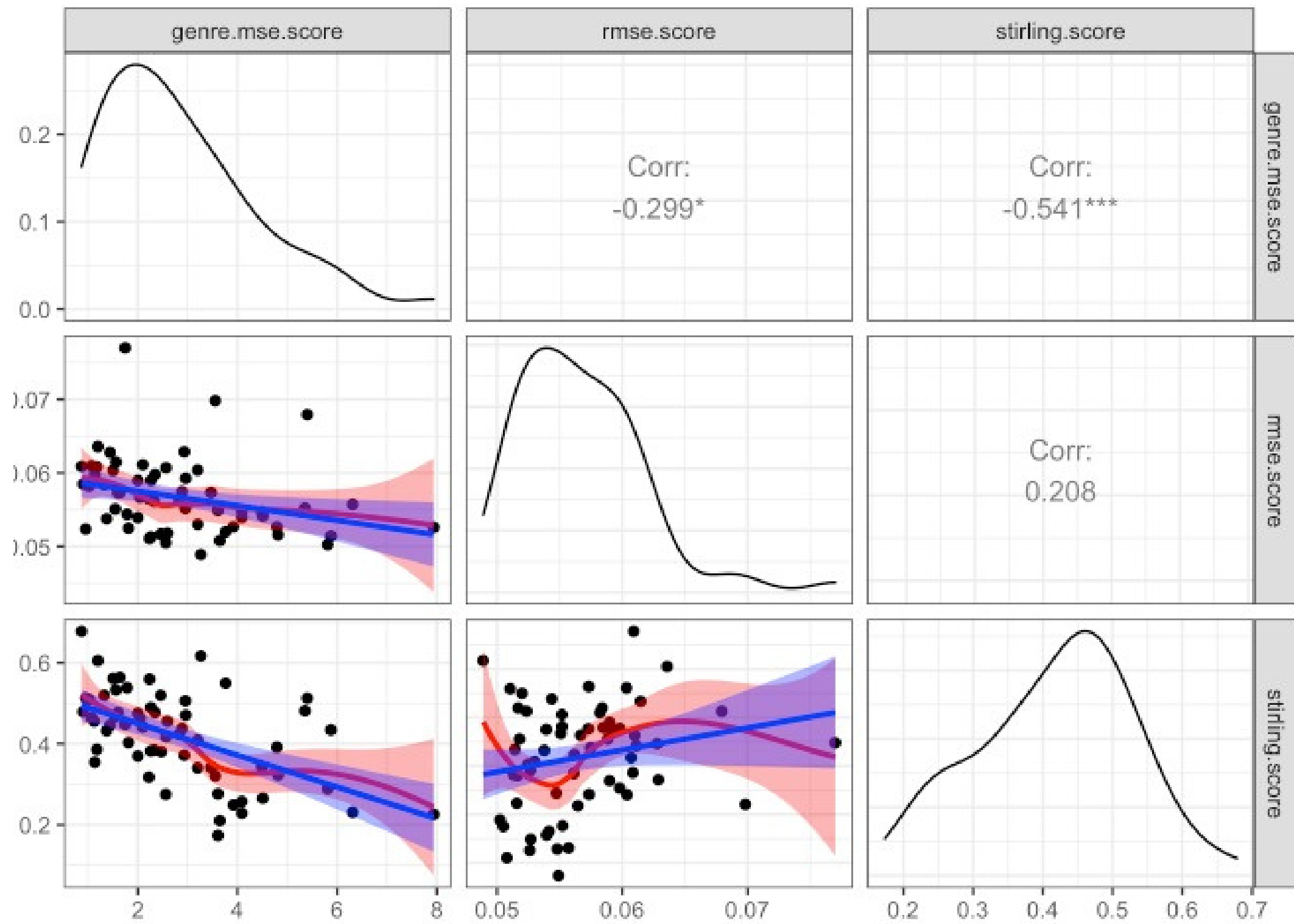


Cultural research

A Social and Economical
approach

50 songs from 62 countrys





Genre Distribution



Reflects classification
diversity with its biases

RMSE



Sensitive to musical
Segregation

Rao stirling



A normalized range of
diversity for comparacent

Thank you for listening





B***** BE HUMBLE, SIT DOWN