

DETECTING COLLABORATION PROFILES IN SUCCESS-BASED MUSIC GENRE NETWORKS

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HIGHLIGHTS

PROFILES
Solid, Regular, Bridge and Emerging

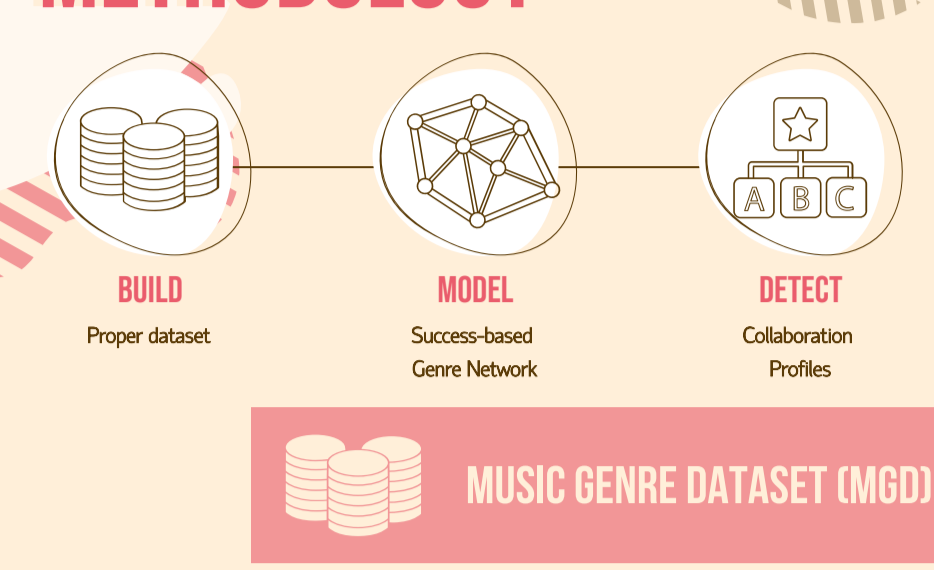
COLLABORATION
in general, genre collaborations are increasing

LOCAL MATTERS
local genres play a key role on determining hit songs

INTRODUCTION

COLLABORATIONS ARE MORE POPULAR THAN EVER

Collaborative Hit Songs on Billboard Hot 100 (1958 - 2020)



OBJECTIVE

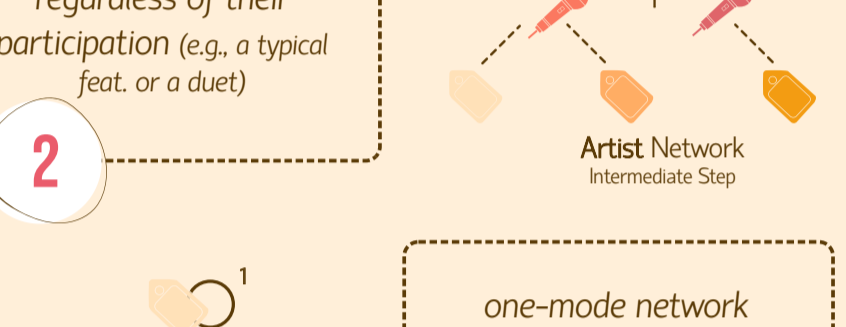
WE AIM TO UNVEIL THE DYNAMICS OF CROSS-GENRE CONNECTIONS AND COLLABORATION PROFILES IN SUCCESS-BASED NETWORKS

RQ1 Does the regional aspect impact on popular genres and their hit songs?

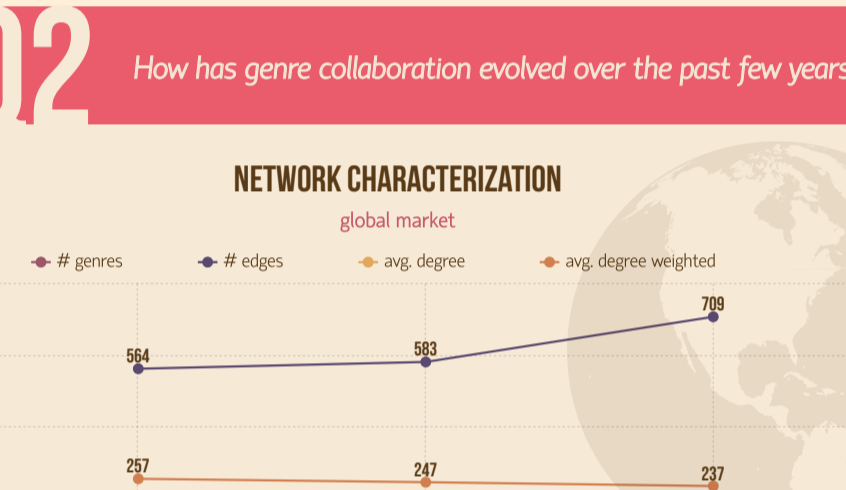
RQ2 How has genre collaboration evolved over the past few years?

RQ3 Which are the potentially intrinsic factors and indicators that influence the collaboration success?

METHODOLOGY



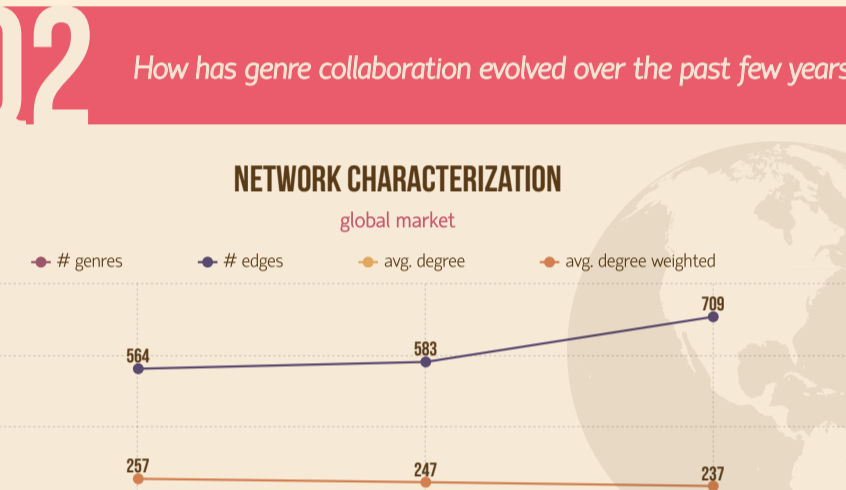
MUSIC GENRE DATASET (MGD)



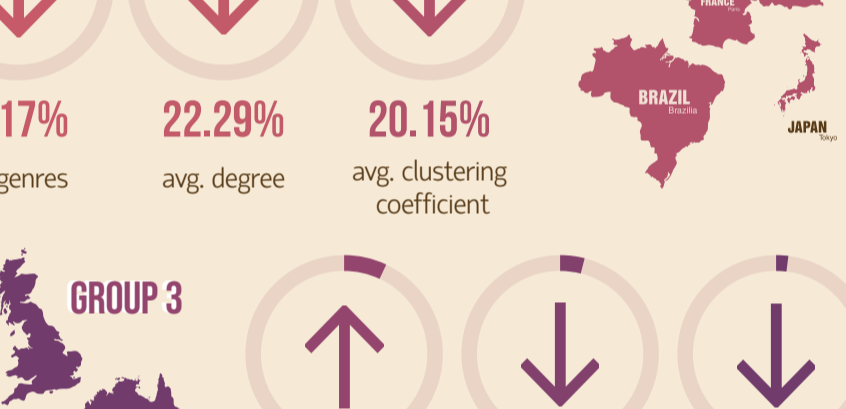
1,330 CHARTS | 13,380 HIT SONGS | 3,612 ARTISTS | 896 GENRES

RQ1

Does the regional aspect impact on popular genres and their hit songs?

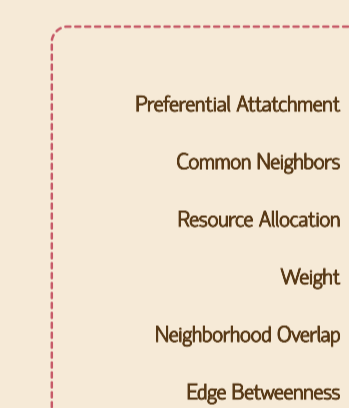
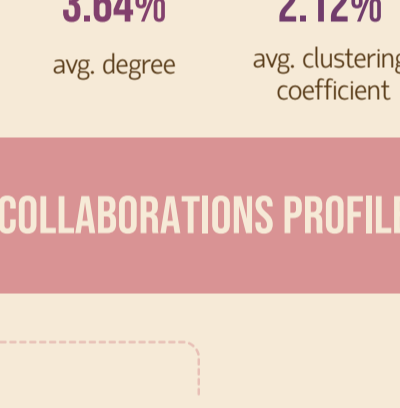


GENRE COLLABORATION NETWORK



nodes are divided into three sets: genres, artists, and hit songs i.e., the minimum elements to evaluate success

collaborative hit songs are sung by two or more artists, regardless of their participation (e.g., a typical feat. or a duet)

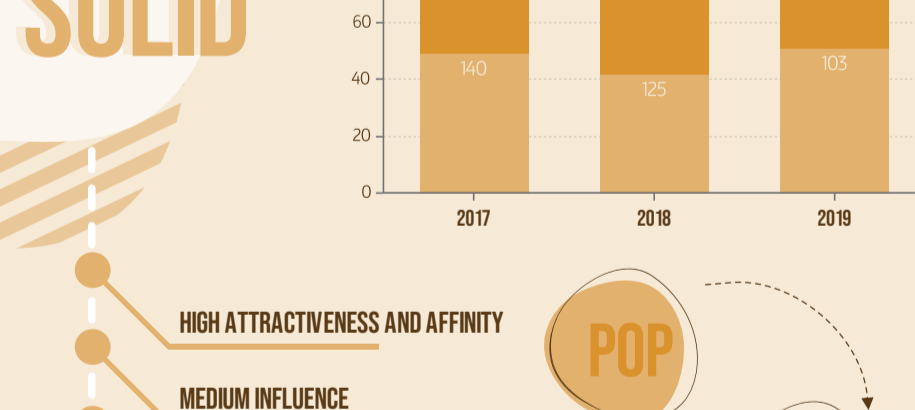
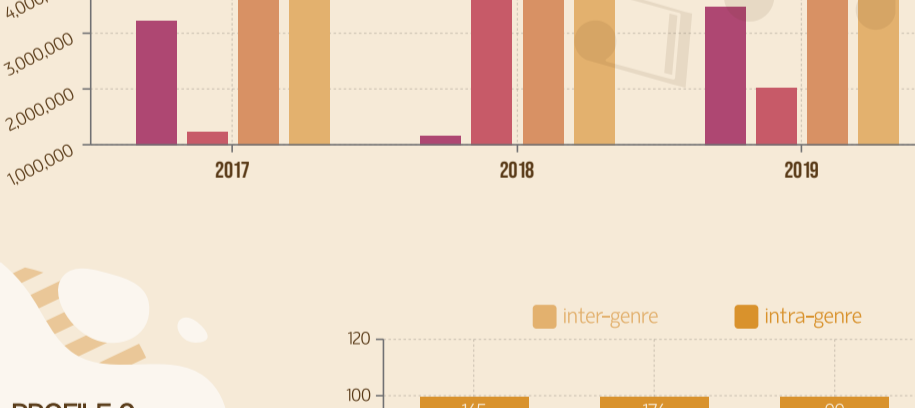
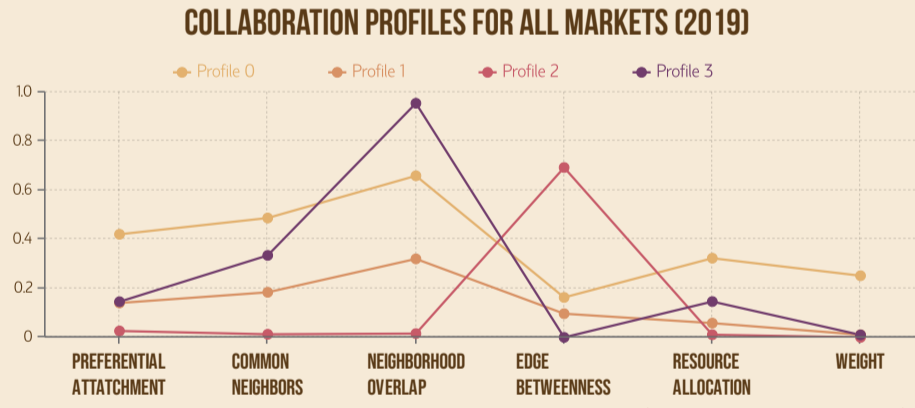


one-mode network in which nodes are exclusively genres, where edge weight is the number of hit songs by artists from both genres

RQ2

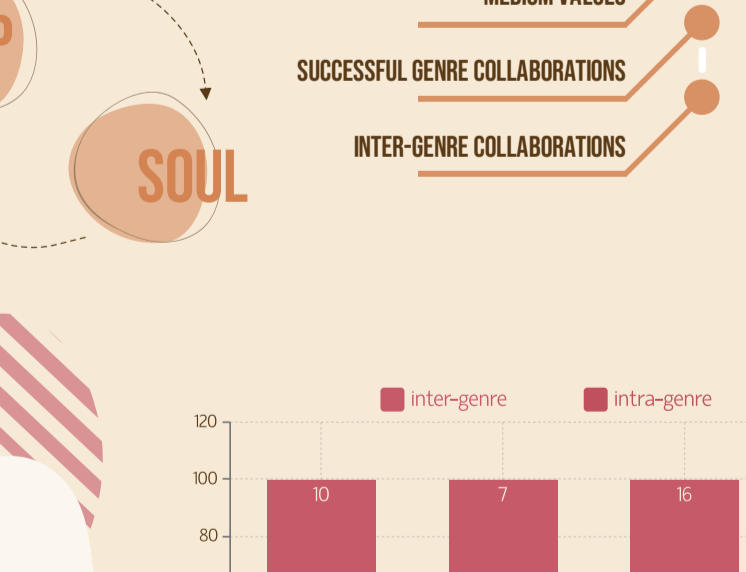
How has genre collaboration evolved over the past few years?

NETWORK CHARACTERIZATION



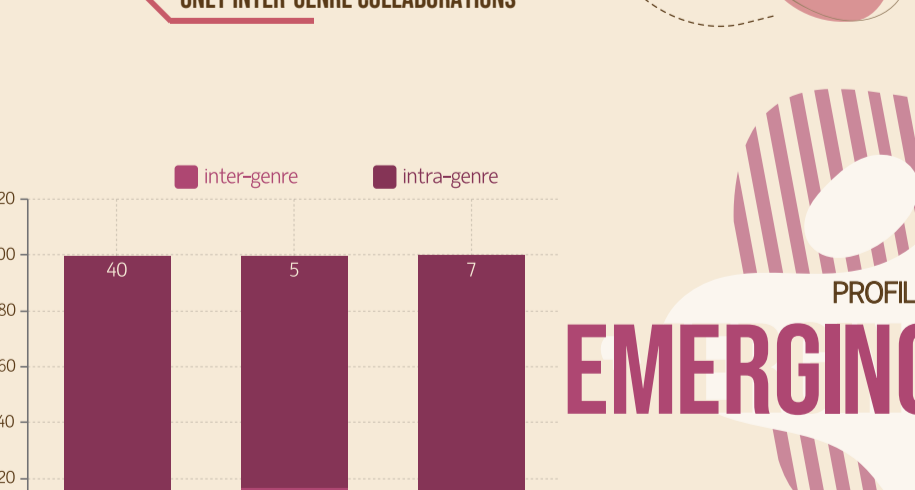
GENRE COLLABORATIONS PROFILES

EXPLORATORY FACTOR ANALYSIS



CLUSTER ANALYSIS

DBSCAN CLUSTERING RESULT



COLLABORATION PROFILING



RQ3

Which are the potentially intrinsic factors and indicators that influence the collaboration success?

MEDIAN NUMBER OF STREAMS



PROFILE 0 SOLID



HIGH ATTRACTIVENESS AND AFFINITY | MEDIUM INFLUENCE | SUCCESSFUL GENRE COLLABORATIONS | INTER-GENRE COLLABORATIONS

PROFILE 1 REGULAR

MEDIUM VALUES | SUCCESSFUL GENRE COLLABORATIONS | INTER-GENRE COLLABORATIONS

PROFILE 2 BRIDGE

HIGH INFLUENCE | LOW ATTRACTIVENESS AND AFFINITY | LESS SUCCESSFUL | ONLY INTER-GENRE COLLABORATIONS

PROFILE 3 EMERGING

MEDIUM ATTRACTIVENESS AND AFFINITY | LOW INFLUENCE | LESS SUCCESSFUL | INTRA-GENRE COLLABORATIONS

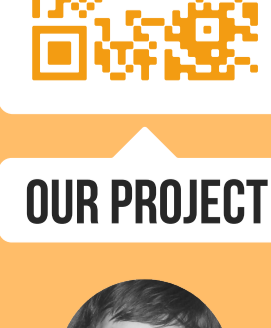
BASE MATERIAL further research tasks, e.g., prediction and recommendation

CONCLUSION

MUSIC INDUSTRY maximize expected success by properly investing in potential collaborations

ARTISTS profit by identifying the most suitable partnerships

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