Exploring the Latent Structure of Collaborations in Music Recordings: A Case Study in Jazz

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What and Why
Collaboration trajectories in jazz records

Set seed: 10
Gibbs sampling

Trajectories as explained by |Z| = 30 topics

WHAT AND WHY
Collaboration trajectories in jazz records

1. Who are the musicians that exert more attraction in a given space z?

2. Visualize graph/transition probabilities on a given space

3. Transition matrix/network for spaces

4. What is the probability that an environment z caused collaborator to go from playing with a to playing with a’?

WHAT KIND OF ENVIRONMENTS ARE FOUND?
Clear loadings on stylistic, geographical and chronological latent constraints that shape collaboration trajectories

In this work
- jazz recordings from Discogs (www.discogs.com), filtered for obvious reissues
- Trajectories as explained by |Z| = 30 topics, Gibbs sampling

INTERPRETABILITY
1. Who are the musicians that exert more attraction in a given space z?

2. Visualize graph/transition probabilities on a given space