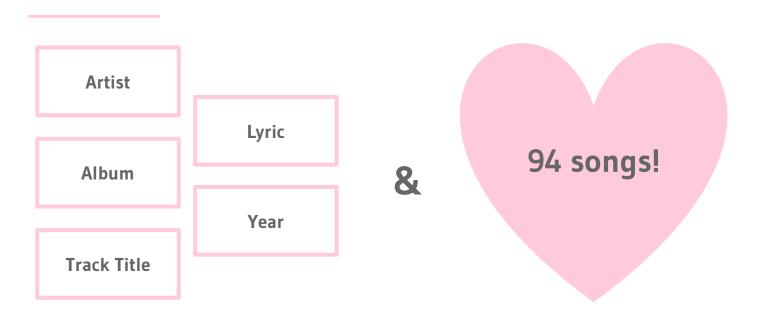
Recommend Taylor Swift Song from Topics

Problem Statement

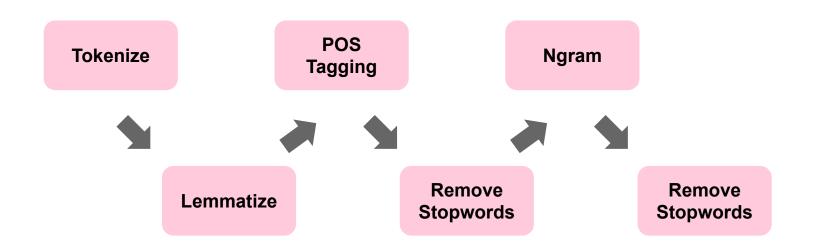
- What are the topics she address?
- How have they changed as her style transitions from country to pop?



Variables & Observations



Data Cleaning



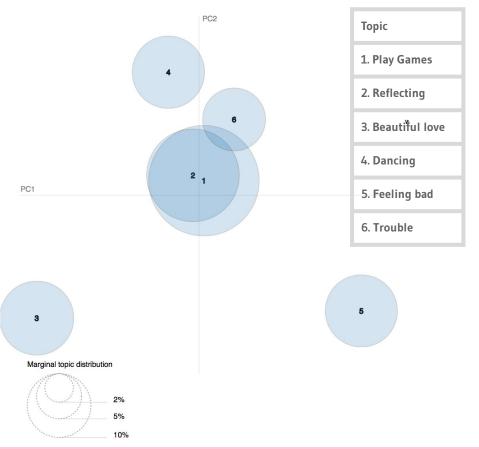
Topic Modeling (LDA)

| Торіс | Top Words |
|-------------------|---|
| 1. Play Games | think, wan, end, hold, game, big, night, aah, gorgeous, day |
| 2. Reflecting | know, time, stay, look, love, wish, got, better, want, think |
| 3. Beautiful love | said, know, time, delicate, love, want, dress, beautiful, take, mon |
| 4. Dancing | shake, new, love, gon, york, dancing, welcome, time, girl, hand |
| 5. Feeling bad | know, got, baby, thing, bad, feel, tell, come, night, said |
| 6. Trouble | ooh, want, wood, clear, time, trouble, mean, got, waiting, call |

Intertopic Distance Map (via multidimensional scaling)

Topic Visualization

- Topics 1 & 2 overlap a lot
- Topics 3 & 5 are very different



$Recommender\ Systems$ Song 1 **Song Title** Recommender Song 2 Song 3

Song Recommendation Example

Topic: Dancing

Bad Blood

Recommender

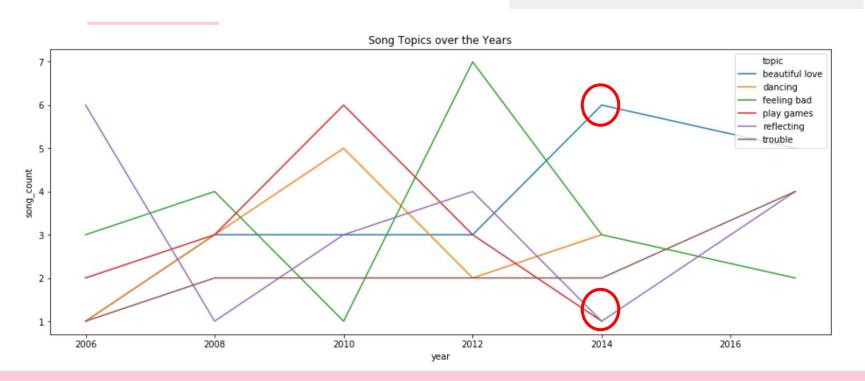
Shake It Off

Welcome to New York

The Moment I Knew

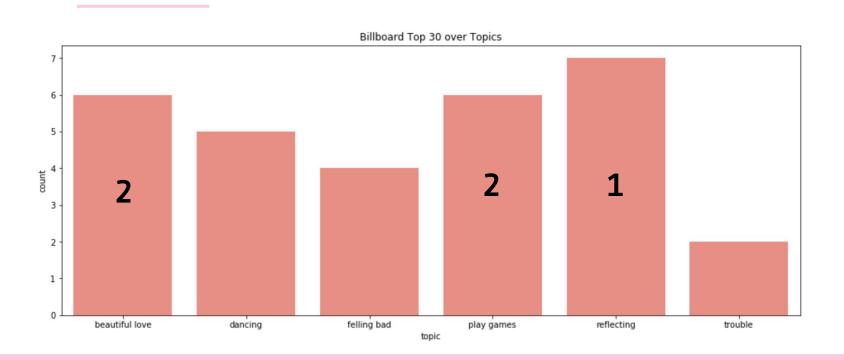
Results

2014 was her 1st Full Pop Album '1989'



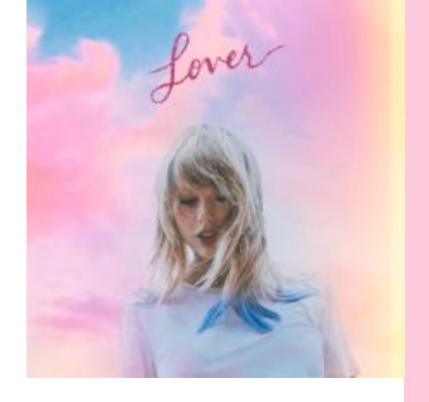
Results

Top Topics: Reflecting, Play Games & Beautiful Love



Next Steps

- Get song data from recent years
- Gather listener data to build a user/item based CF



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