AN EXPLORATION OF BEST-SELLING SONG LYRICS: GENDER DIFFERENCES?

Zachary Brandt



# Explored lyrics of songs written by the 50 best-selling artists of all time

- 1. The Beatles
- 2. Elvis Presley
- 3. Michael Jackson
- 4. Elton John
- 5. Madonna
- 6. Led Zeppelin
- 7. Rhianna
- 8. Pink Floyd
- 9. Eminem
- 10. Taylor Swift

- 11. Mariah Carey
- 12. Eagles
- 13. Queen
- 14. Whitney Houston
- 15. Celine Dion
- 16.AC/DC
- 17. The Rolling Stones
- 18. Drake
- 19. Garth Brooks
- 20. Kanye West

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30% Female Artists

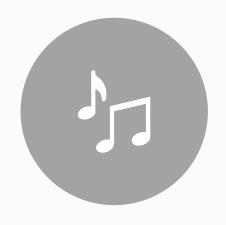
### Goals

# Discover topics based solely on lyrics Investigate topical difference in lyrics between genders Create Create Create Create recommender that suggests songs written by opposite gender

### Data came from a BigML Dataset







SONG



**LYRICS** 

### Pop music can be broken down into just 4 topics

Love	Heartbreak	Party	Нір-Нор
1.love	1.love	1.night	1.got
2.know	2.heart	2.long	2.like
3.baby	3.never	3.home	3.get
4.way	4.know	4.one	4.baby
5.time	5.could	5.like	5.know
6.say	6.see	6.come	6.want
7.heart	7.mine	7.dance	7.girl
8.one	8.alone	8.sing	8.take
9.need	9.arms	9.see	9.little
10.got	10.cry	10.time	10.money

### Love



### Party



### Heartbreak



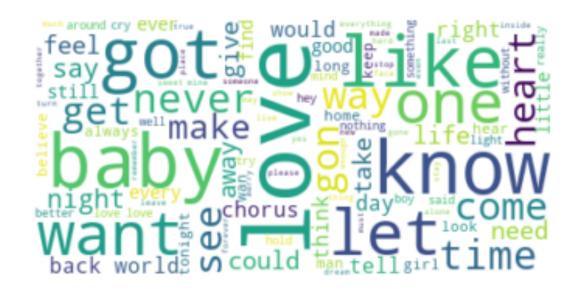
### Hip-Hop



### In General

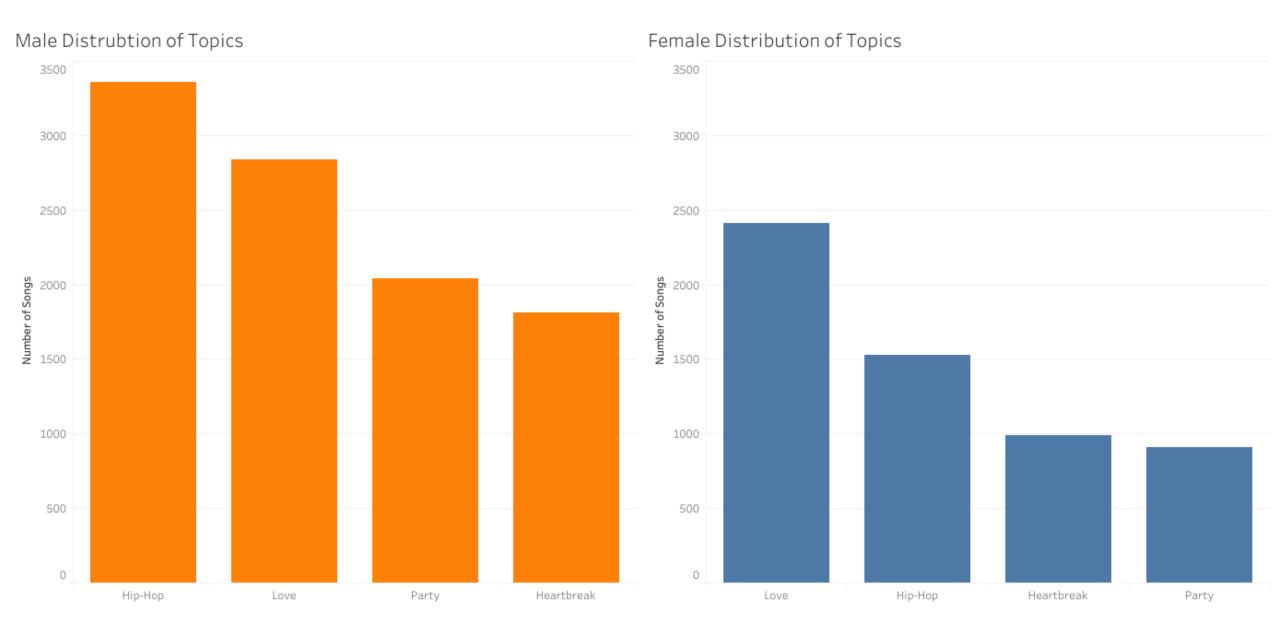
Male Female





### No Obvious Difference

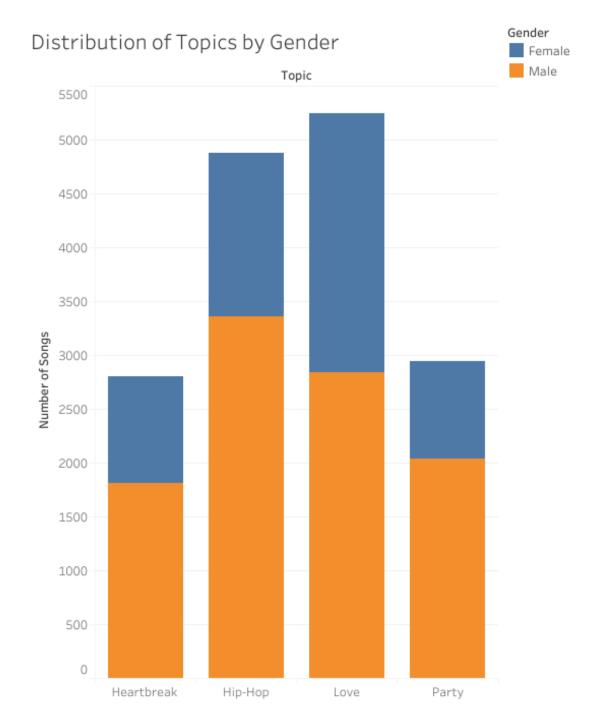
### **Considering Topics**



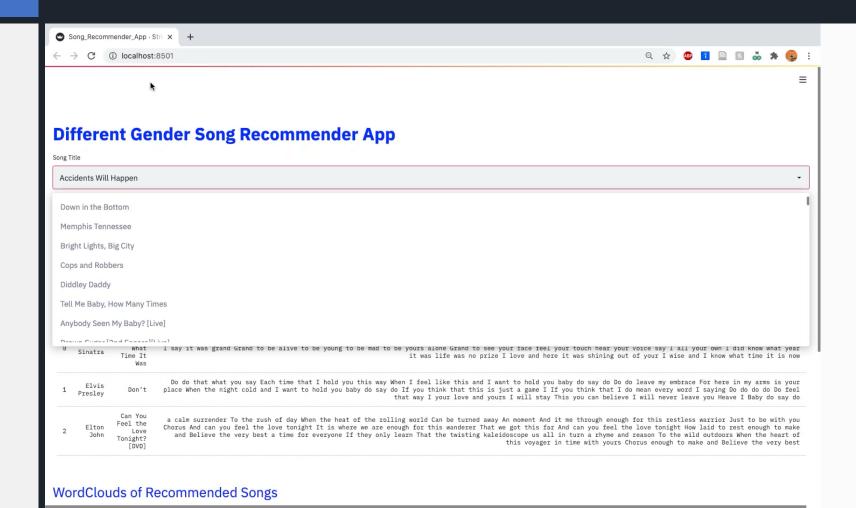
### **Considering Topics**

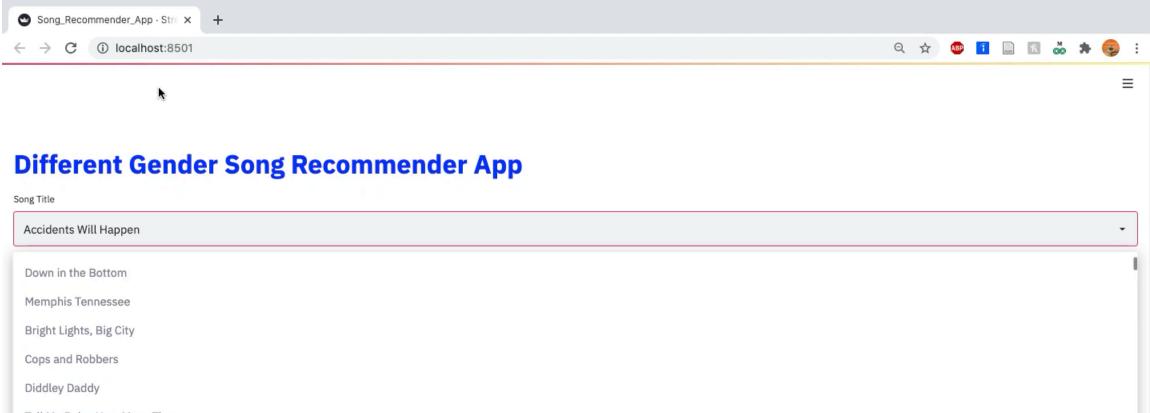
More Male than Female Songs

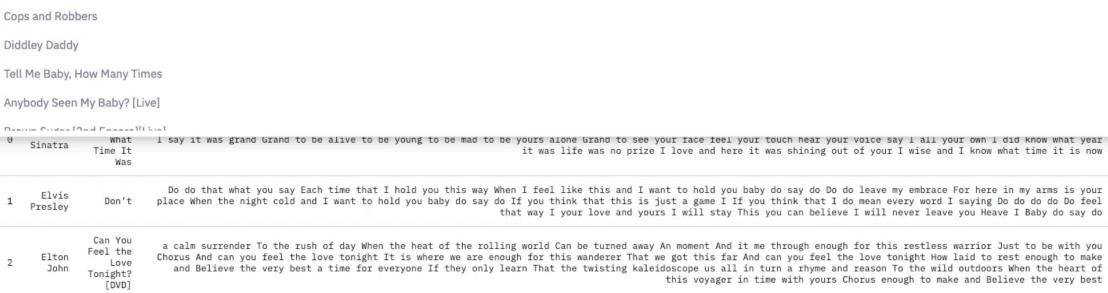
No Obvious Biases



### **Recommendation System**







### Takeaways / Future Considerations

- 1. Pop songs can be broken down into just 4 topics
- 2. Male and Female songs are very similar in terms of lyrics
- 3. Want to expand investigation to larger corpus

# Questions?