

# FRANK OCEAN POETRY

*An NLP Analysis*

# OBJECTIVES

## Inspiration For the Lyricist

- Topic Model Frank Ocean's entire discography and “Blonde”.
- Cluster individual songs and analyze topic distribution.
- Observe the changes in topic from album to album
- Generate text in the style of Frank Ocean

***blond***



8 63958 01421 9

# METHODOLOGY

## Acquire Data

---

1. Scrape lyrics from AZLyrics.com
2. Preprocess the Text

## Analyze Data

---

1. TF-IDF & NMF
2. K-Means Clustering
3. Analysis over time

## Generate Text

---

1. 1st Attempt: Count Vectorizer & LSA
2. 2nd Attempt: Markov Chains

# “BLONDE” TOPICS

 HardWork/ Attitude

- night, don't, know, like, got, and \*all of the curse words\*

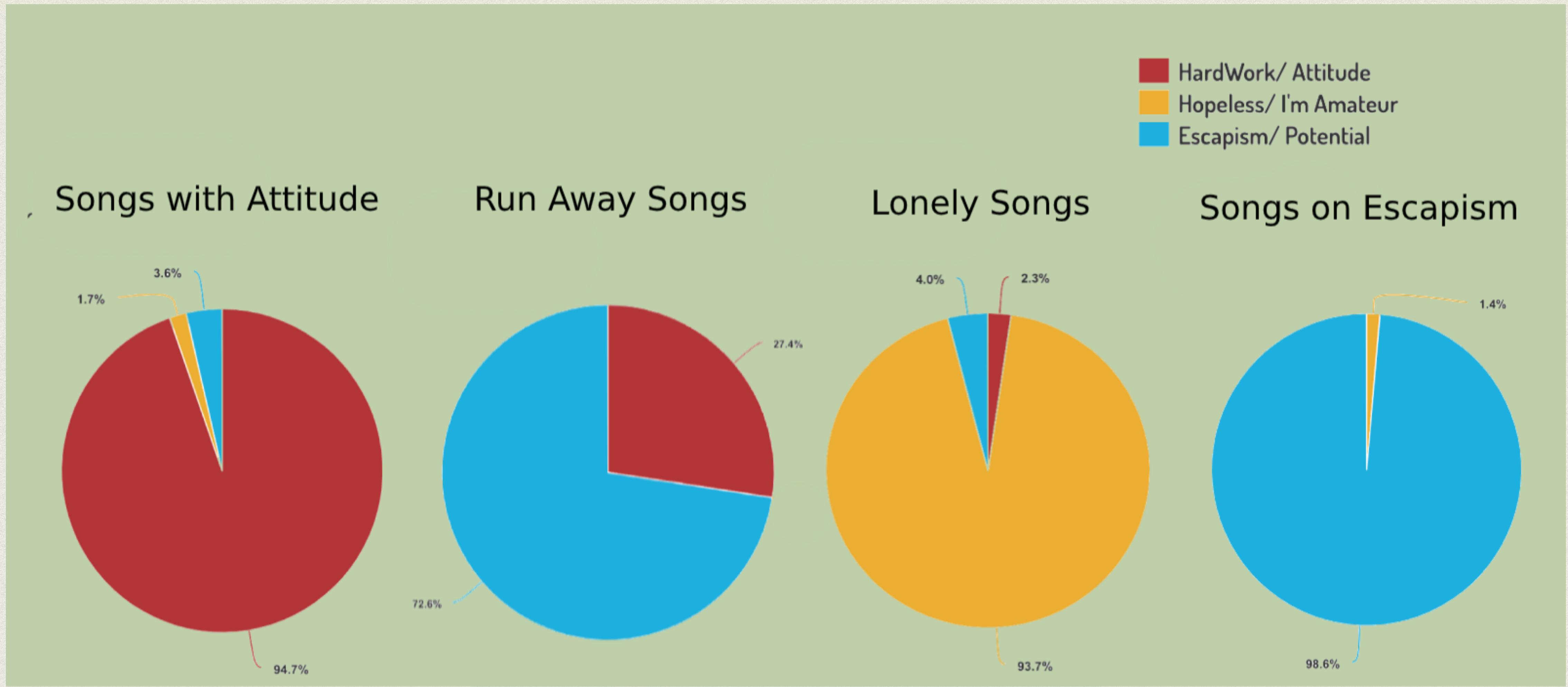
 Hopeless/ I'm Amateur

- solo, oh, im, inhal, hard, skirt, kid, aye, cut, real

 Escapism/ Potential

- life, dream, thi, way, id, love, mind, close, anyth, ahhah

# “BLONDE” CLUSTERS



## Topics Across 5 Album Discography

- '**Panic**' \*

noth, dream, nigga, dont, know, fuck, like, da,  
wa, say

- '**Naive Lover**' \*

love, sucker, na, babi, oh, make, denim, feel, like,  
ya

- '**Hustle To Prove Self**'

night, fight, everi, die, prove, got, club, love,  
battl, becaus

- '**Run Away**'

fli, hide, dont, everybody, na, tri, wan, know,  
wing, secret

- '**Jump In!**'

look, ohhh, embarrass, youll, twin, took, good,  
wa, like, come

- '**Im It! Im Ready.**' \*

im, babi, got, ohh, yeah, gon, bit, readi, na, littl

- '**Gotta Find It**'

somewher, run, tri, someth, 10, wait, morn,  
yard, thisll, suburbia

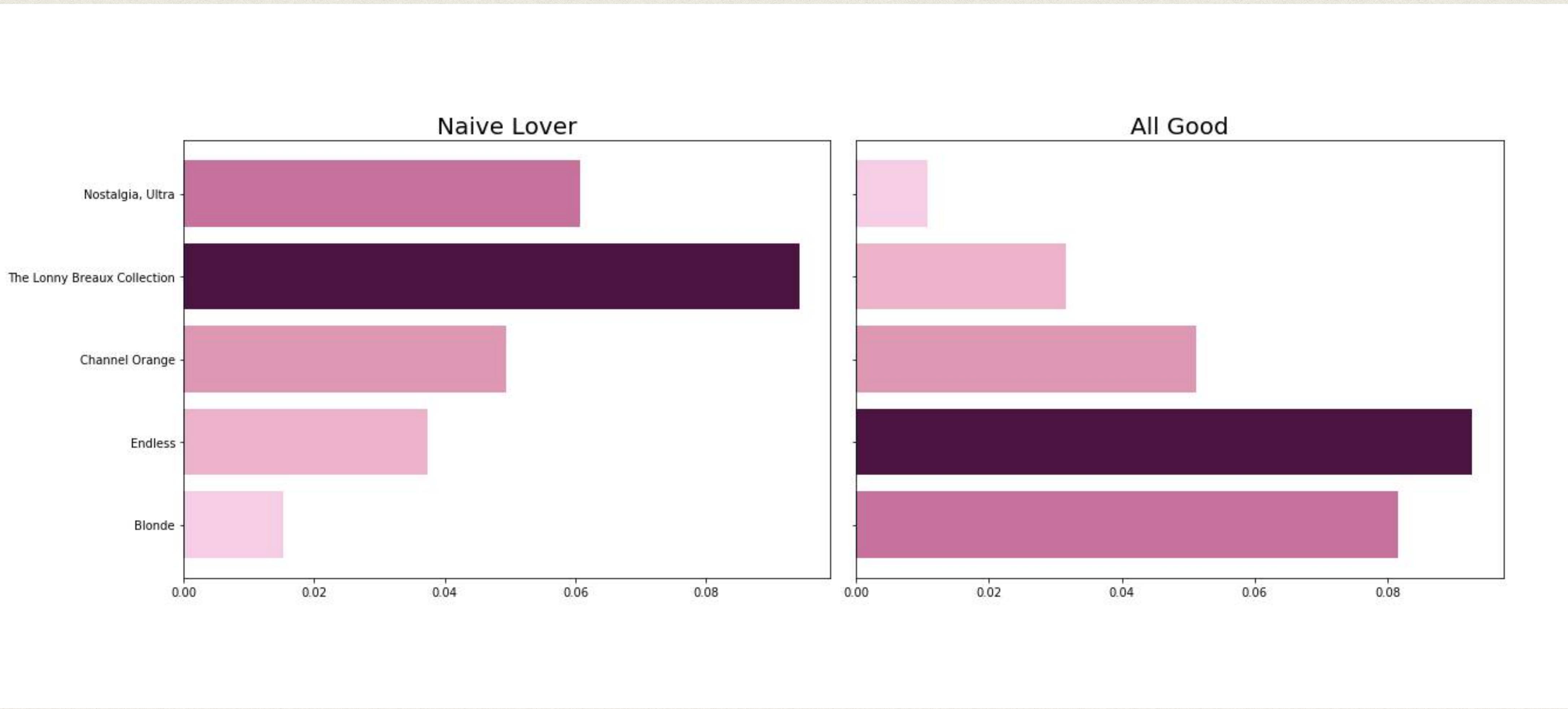
- '**All Good**' \*

life, sweet, way, thi, say, certain, stream, time,  
best, let

- '**Lonely/ Im Amateur**'

solo, oh, inhal, kid, skirt, citi, aye, real, cut, in

# TOPICS OVER TIME



Text Generation 1:

Count Vectorizer & LSA

“Nothing keep every night. You call handmade, you working shut out stressed?  
Round needs waited, stayin. Day shit. Kumbaya...”

-*Frank Ocean?*

8 components  
80% of the Variance  
.explained\_variance\_ratio\_  
.components\_

Text Generation 2:  
Markov Chains

“Wishin away the rhythm on. The rate is sky, but yea im up here. Spaceships”

“Love and this side. Fuck boys in straight lines. Talking bout damn right!  
There, you wanna dream? I need ya.”

*-Frank Ocean?*