Sentiment Assignment

June 15, 2024

1 ADS 509 Sentiment Assignment

This notebook holds the Sentiment Assignment for Module 6 in ADS 509, Applied Text Mining. Work through this notebook, writing code and answering questions where required.

In a previous assignment you put together Twitter data and lyrics data on two artists. In this assignment we apply sentiment analysis to those data sets. If, for some reason, you did not complete that previous assignment, data to use for this assignment can be found in the assignment materials section of Blackboard.

1.1 General Assignment Instructions

These instructions are included in every assignment, to remind you of the coding standards for the class. Feel free to delete this cell after reading it.

One sign of mature code is conforming to a style guide. We recommend the Google Python Style Guide. If you use a different style guide, please include a cell with a link.

Your code should be relatively easy-to-read, sensibly commented, and clean. Writing code is a messy process, so please be sure to edit your final submission. Remove any cells that are not needed or parts of cells that contain unnecessary code. Remove inessential `import` statements and make sure that all such statements are moved into the designated cell.

Make use of non-code cells for written commentary. These cells should be grammatical and clearly written. In some of these cells you will have questions to answer. The questions will be marked by a "Q:" and will have a corresponding "A:" spot for you. *Make sure to answer every question marked with a `Q:` for full credit.*

```python
import os
import re
import emoji
import pandas as pd
import numpy as np

from collections import Counter, defaultdict
from string import punctuation

from nltk.corpus import stopwords

sw = stopwords.words("english")
```

```
[ ]: # Add any additional import statements you need here
```

```
[ ]: # change `data_location` to the location of the folder on your machine.
     data_location = "/Users/jesse/Desktop/School/University of San Diego/ADS 509-␣
      ↪Applied Text Mining/Module 2/ads-tm-token-norm/M1 Results/"

     # These subfolders should still work if you correctly stored the
     # data from the Module 1 assignment
     twitter_folder = "twitter/"
     lyrics_folder = "lyrics/"

     # Names of the subfolders in lyrics
     cher= "cher/"
     robyn= "robyn/"

     positive_words_file = "positive-words.txt"
     negative_words_file = "negative-words.txt"
     tidy_text_file = "tidytext_sentiments.txt"
```

1.2 Data Input

Now read in each of the corpora. For the lyrics data, it may be convenient to store the entire contents of the file to make it easier to inspect the titles individually, as you'll do in the last part of the assignment. In the solution, I stored the lyrics data in a dictionary with two dimensions of keys: artist and song. The value was the file contents. A Pandas data frame would work equally well.

For the Twitter data, we only need the description field for this assignment. Feel free all the descriptions read it into a data structure. In the solution, I stored the descriptions as a dictionary of lists, with the key being the artist.

```
[ ]: # Read in the lyrics data

     # Function to read files from a specific folder
     def read_files_from_folder(folder_path):
         files_content = {}
         print(f"Reading files from folder: {folder_path}")  # Debug print
         for root, dirs, files in os.walk(folder_path):
             print(f"Found directory: {root}")  # Debug print
             for file in files:
                 if file.endswith(".txt"):
                     file_path = os.path.join(root, file)
                     print(f"Reading file: {file_path}")  # Debug print
                     with open(file_path, 'r', encoding='utf-8') as f:
                         files_content[file] = f.read()
         return files_content

     # Read the lyrics data
```

```
lyrics_path = os.path.join(data_location, lyrics_folder)
cher_path = os.path.join(lyrics_path, cher)
robyn_path = os.path.join(lyrics_path, robyn)

lyrics_data = {}
lyrics_data['cher'] = read_files_from_folder(cher_path)
lyrics_data['robyn'] = read_files_from_folder(robyn_path)

# Organize the lyrics data into a dictionary with artist and song as keys
lyrics_dict = defaultdict(dict)
for artist in lyrics_data:
    for file, content in lyrics_data[artist].items():
        song = file.replace('.txt', '')
        lyrics_dict[artist][song] = content
```

Reading files from folder: /Users/jesse/Desktop/School/University of San
Diego/ADS 509- Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/
Found directory: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1 Results/lyrics/cher/
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_comeandstaywithme.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_pirate.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_stars.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thesedays.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_lovesohigh.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_downdowndown.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_youvemademesoveryhappy.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_julie.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_reasontobelieve.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-

```
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_disastercake.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_taxitaxi.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_dovelamore.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_stillinlovewithyou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_aliveagain.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_jolsonmedley.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_mylove.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_untilitstimeforyoutogo.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_dontthinktwice.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_takinbackmyheart.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_reallove.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_sistersofmercy.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_darklady.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_livinginahousedivided.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_youtakeitall.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_borrowedtime.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
```

```
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_awomansstory.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_olmanriver.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_themanthatgotaway.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_ayounggirluneenfante.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_oogaboo.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thetwelfthofnever.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_therebutforfortune.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_takemeforalittlewhile.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_themanilove.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_mommalooksharp.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_whataboutthemoonlight.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_loveenough.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_italladdsupnow.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_ourladyofsanfrancisco.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_earlymorningstrangers.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_emotionalfire.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_bangbang.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_bodytobodyhearttoheart.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_mainman.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_easytobehard.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_ificouldturnbacktime.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_howcanyoumendabrokenheart.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_onebyone.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_carnival.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_fernando.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Results/lyrics/cher/cher_flashback.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-

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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_crylikeababy.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thelongandwindingroad.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_donthideyourlove.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
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Results/lyrics/cher/cher_thebellsofrhymney.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_catchthewind.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_pride.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_whywasiborn.txt
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Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_hewasbeautiful.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_shapeofthingstocome.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_strongenough.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_themusicsnogoodwithoutyou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_allornothing.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_sunny.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_dangeroustimes.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_willyouwaitforme.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_itsamansmansmansworld.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
```

```
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_letthisbealessontoyou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_piedpiper.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_needlesandpins.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_laplane.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_tonightillbestayingherewithyou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_withorwithoutyou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_mamawhenmydollieshavebabies.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_halfbreed.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_walkinginmemphis.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_oneofus.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_whoyougonnabelieve.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_illneverstoplovingyou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thecruelwar.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_wheredoyougo.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_perfection.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_island.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
```

```
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_again.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_mastersofwar.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_doesanybodyreallyfallinloveanymore.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_hellonwheels.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_rainrain.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_igotitbadandthataintgood.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_mysongtoofargone.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_notenoughloveintheworld.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_whatllido.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_dixie.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_skindeep.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_dorightwomandorightman.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_iwillwaitforyou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_homewardbound.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thebiggertheycometheharthertheyfall.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_loveisthegroove.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_milord.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_iwasntready.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_silverwingsgoldenrings.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_afterall.txt
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Results/lyrics/cher/cher_iminthemiddle.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_weallsleepalone.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_itsnotunusual.txt
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Results/lyrics/cher/cher_buticantloveyoumore.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_ilovemakinlovetoyou.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Results/lyrics/cher/cher_youhaventseenthelastofme.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_lookatme.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_amiblue.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Results/lyrics/cher/cher_iwalkonguildedsplinters.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_youdonthavetosayyouloveme.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Results/lyrics/cher/cher_cometoyourwindow.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Results/lyrics/cher/cher_ifoundyoulove.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_geronimoscadillac.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_believe.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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```
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_welcometoburlesque.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_ifeelsomethingintheairmagicintheair.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_mylove318663.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_ifoundsomeone.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_trainofthought.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_lovethedeviloutofya.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_boysandgirls.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_bymyself.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_dannyboy.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_iwouldnttreatadogthewayyoutreatedme.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_doyoubelieveinmagic.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_doievercrossyourmind.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_youknowit.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_heaintheavyhesmybrother.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_dressedtokill.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_igotyoubabe.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
```

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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_whenthemoneysgone.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thefallkurtsblues.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_whentheloveisgone.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_itstoolatetolovemenow.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_dontcomearoundtonight.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_inforthenight.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_weallflyhome.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thetimestheyareachangin.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_letmedowneasy.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_happinessisjustathingcalledjoe.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_fittofly.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_onesmallstep.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_shoppin.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_chastitysun.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_fastcompany.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_elusivebutterfly.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_giveourloveafightinchance.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_justwhativebeenlookinfor.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_donttrytoclosearose.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_saywhatsonyourmind.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thenameofthegame.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_allireallywanttodo.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_whenlovecallsyourname.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_sittinonthedockofthebay.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_ifiknewthen.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thegreatestthing.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_allbecauseofyou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_onehonestman.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_loversforever.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_lovehurts.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_forwhatitsworth.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_holdinoutforlove.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_takemehome.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thebookoflove.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_chastityssongbandofthieves.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_startingover.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_shadowdreamsong.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_wasntitgood.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_youwouldntknowlove.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thisgodforsakenday.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_time.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_iwalkalone.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_lietome.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_backonthestreetagain.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_loveonarooftop.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_hardenoughgettingoveryou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_takeitfromtheboys.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_dreambaby.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_pleasedonttellme.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_ihopeyoufindit.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_classified1a.txt
Reading files from folder: /Users/jesse/Desktop/School/University of San
Diego/ADS 509- Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/
Found directory: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1 Results/lyrics/robyn/
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_includemeout.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_electric.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_beach2k20.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_lovekills.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_timemachine.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_lovekills114524.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_givingyouback.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_noneofdem114527.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_noneofdem.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_bemine.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_fembot114519.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1

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Results/lyrics/robyn/robyn_shouldhaveknown.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_underneaththeheart.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_eclipse.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_robynishere.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_dontstopthemusic.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_criminalintent.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_myonlyreason.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_humanbeing.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_obaby.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_how.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_loveisfree.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_longgone.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_indestructibleacousticversion.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_hangwithme.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_shouldhaveknown106828.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_moonlight.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
```

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Results/lyrics/robyn/robyn_getmyselftogether.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_universalwoman.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_bumpyride.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_sayit.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_callyourgirlfriend.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_tellyoutoday.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_whosthatgirl.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_aintnothing.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_dancingonmyown114521.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_mainthing.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_crywhenyougetolder.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_dancehallqueen114530.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_fembot.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_everagain.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_mondaymorning.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_inmyeyes.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
```

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Results/lyrics/robyn/robyn_dancingonmyown.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_showmelove.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_buffalostance.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_jackuoff.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_psycho.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_iwish.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_betweenthelines.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_wedancetothebeat114528.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_dancehallqueen.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_dontwantyouback.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_dontfuckingtellmewhattodo.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_inmyheart.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_losecontrol.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_anytimeyoulike.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_wheredidourlovego.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_justanothergirlfriend.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
```

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Results/lyrics/robyn/robyn_cobrastyle.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_jagvetendejligrosa.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_healthylove.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_doitagain.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_witheveryheartbeat.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_babyforgiveme.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_ushouldknowbetter114529.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_curriculumvitae.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_monument.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_ushouldknowbetter.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_becauseitsinthemusic.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_bumlikeyou.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_setmefree.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_keepthisfireburning.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_indestructible.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_mytruth.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
```

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Results/lyrics/robyn/robyn_dontfuckingtellmewhattodo114520.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_hangwithme114525.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_stars4ever.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_stillyourgirl.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_88days.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_youvegotthatsomething.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_blowmymind.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_handleme.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_sendtorobinimmediately.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_hangwithmeacousticversion.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_bigcity.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_konichiwabitches.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_doyouknowwhatittakes.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_inmyeyes114532.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_gottoworkitout.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_bionicwoman.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
```

```
Results/lyrics/robyn/robyn_tomteverkstan.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_herewego.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_robotboy.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_honey.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_crashandburngirl.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_everylittlething.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_notontheinside.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_wedancetothebeat.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_doyoureallywantmeshowrespect.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_thelasttime.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_missingu.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_breakdownintermission.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_play.txt
```

```python
# Read in the twitter data
twitter_path = os.path.join(data_location, twitter_folder)
twitter_data = read_files_from_folder(twitter_path)

# Organize Twitter descriptions into a dictionary
twitter_dict = defaultdict(list)
for file, content in twitter_data.items():
    artist = file.replace('.txt', '')
    descriptions = content.split('\n')
```

```
    twitter_dict[artist] = descriptions
```

Reading files from folder: /Users/jesse/Desktop/School/University of San
Diego/ADS 509- Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/twitter/
Found directory: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1 Results/twitter/
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/twitter/cher_followers_data.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/twitter/robynkonichiwa_followers_data.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/twitter/cher_followers.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/twitter/robynkonichiwa_followers.txt

```python
[ ]: # Read in the positive and negative words and the
     # tidytext sentiment. Store these so that the positive
     # words are associated with a score of +1 and negative words
     # are associated with a score of -1. You can use a dataframe or a
     # dictionary for this.


     # Define the paths to the positive and negative words files
     positive_words_file = 'positive-words.txt'
     negative_words_file = 'negative-words.txt'

     # Function to read words from a file and associate them with a sentiment score
     def read_words_with_score(file_path, score):
         words_with_score = {}
         with open(file_path, 'r', encoding='utf-8') as f:
             for line in f:
                 word = line.strip()
                 if word and not word.startswith(';'):  # Skip empty lines and␣
     ↪comments
                     words_with_score[word] = score
         return words_with_score

     # Read positive and negative words and assign scores
     positive_words = read_words_with_score(positive_words_file, 1)
     negative_words = read_words_with_score(negative_words_file, -1)

     # Combine positive and negative words into one dictionary
```

```
sentiment_dict = {**positive_words, **negative_words}

# Output the sentiment dictionary
print("Sentiment Dictionary:")
print(sentiment_dict)
```

Sentiment Dictionary:
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```

1.3 Sentiment Analysis on Songs

In this section, score the sentiment for all the songs for both artists in your data set. Score the sentiment by manually calculating the sentiment using the combined lexicons provided in this repository.

After you have calculated these sentiments, answer the questions at the end of this section.

```python
[ ]:  # your code here


      # Combine positive and negative words into one dictionary
      sentiment_dict = {**positive_words, **negative_words}

      # Function to calculate sentiment score for a given text
      def calculate_sentiment(text, sentiment_dict):
          words = text.split()
          score = sum(sentiment_dict.get(word, 0) for word in words)
          return score

      lyrics_path = os.path.join(data_location, lyrics_folder)
      cher_path = os.path.join(lyrics_path, cher)
      robyn_path = os.path.join(lyrics_path, robyn)

      # Read the lyrics data
      lyrics_data = {}
      lyrics_data['cher'] = read_files_from_folder(cher_path)
      lyrics_data['robyn'] = read_files_from_folder(robyn_path)

      # Calculate sentiment scores for all songs
      sentiment_scores = defaultdict(dict)
      for artist in lyrics_data:
          for file, content in lyrics_data[artist].items():
              song = file.replace('.txt', '')
              score = calculate_sentiment(content, sentiment_dict)
              sentiment_scores[artist][song] = score

      # Output the sentiment scores
      print("\nSentiment Scores for Songs:")
      for artist, songs in sentiment_scores.items():
```

```python
    print(f"\nArtist: {artist}")
    for song, score in songs.items():
        print(f"Song: {song}, Sentiment Score: {score}")

# Example questions and answers
average_sentiments = {artist: sum(scores.values()) / len(scores) for artist,␣
 ↪scores in sentiment_scores.items()}
highest_avg_artist = max(average_sentiments, key=average_sentiments.get)
print(f"\nArtist with the highest average sentiment score:␣
 ↪{highest_avg_artist}")

highest_sentiment_song = max(((artist, song, score) for artist, songs in␣
 ↪sentiment_scores.items() for song, score in songs.items()), key=lambda x:␣
 ↪x[2])
print(f"Song with the highest sentiment score: {highest_sentiment_song[1]} by␣
 ↪{highest_sentiment_song[0]} with a score of {highest_sentiment_song[2]}")
```

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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_itsamansmansmansworld.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_letthisbealessontoyou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_piedpiper.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_needlesandpins.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_laplane.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_tonightillbestayingherewithyou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_withorwithoutyou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_mamawhenmydollieshavebabies.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_halfbreed.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_walkinginmemphis.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_oneofus.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_whoyougonnabelieve.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_illneverstoplovingyou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thecruelwar.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_wheredoyougo.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_perfection.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
```

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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_island.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_again.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_mastersofwar.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_doesanybodyreallyfallinloveanymore.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_hellonwheels.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_rainrain.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_igotitbadandthataintgood.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_mysongtoofargone.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_notenoughloveintheworld.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_whatllido.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_dixie.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_skindeep.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_dorightwomandorightman.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_iwillwaitforyou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_homewardbound.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thebiggertheycomethehardertheyfall.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_loveisthegroove.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_milord.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_iwasntready.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_silverwingsgoldenrings.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_afterall.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_iminthemiddle.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_weallsleepalone.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_itsnotunusual.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_buticantloveyoumore.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_itmightaswellstaymondayfromnowon.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_justthisonetime.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_ilovemakinlovetoyou.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_sirens.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_fireandrain.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_singforyoursupper.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_behindthedoor.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-

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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_saveupallyourtears.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_loveme.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_spring.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_nevershouldvestarted.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_waterloo.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_happywasthedaywemet.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_youhaventseenthelastofme.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_itgetsmewhereiwanttogo.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_loveandunderstanding.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_shelovestohearthemusic.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_lookatme.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_whenyoufindoutwhereyouregoinletmeknow.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_isawamanandhedancedwithhiswife.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_heartofstone.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_davidssong.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_dancingqueen.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_still.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_sendthemanover.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_rescueme.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_youvereallygotaholdonme.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_outrageous.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_dowhatyougottado.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_holysmoke.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_rockandrolldoctor.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_twopeopleclingingtoathread.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_mrsoul.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thegirlfromipanema.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_walls.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thegunman.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_idonthavetosleeptodream.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
```

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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_amiblue.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_canyoufool.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_whenloversbecomestrangers.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_iwalkonguildedsplinters.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_houseisnotahome.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_clicksong.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_paradiseishere.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_bellbottomblues.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_likearollingstone.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_walkwithme.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_songforyou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_whenyouwalkaway.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_angelsrunning.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_loveisalonelyplacewithoutyou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_yoursuntiltomorrow.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_ihatetosleepalone.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
```

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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_superstar.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_justenoughtokeepmehanginon.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_makethemanloveme.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_workinggirl.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_youngandpretty.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_misssubwayof1952.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_impossibledream.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_theshoopshoopsongitsinhiskiss.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thethoughtoflovingyou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_knockonwood.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_bangbangmybabyshotmedown.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_applesdontfallfarfromthetree.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_blowininthewind.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thesamemistake.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_games.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
```

```
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thesunaintgonnashineanymore.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_adifferentkindoflovesong.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_hellneverknow.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_idratherbelieveinyou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_prisoner.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_gonow.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_morethanyouknow.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_melody.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_couldvebeenyou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thefirsttime.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thepower.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_ourdaywillcome.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_fernando710922.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_neverbeentospain.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_laybabylay.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_youdonthavetosayyouloveme.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_itsacryinshame.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_gypsiestrampsandthieves.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_carouselman.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_chiquititaspanishversion.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_favouritescars.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_justlikejessejames.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_girldontcome.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thegreatestsongieverheard.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_mammamia.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_iparalyze.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_savethechildren.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_gimmegimmegimmeamanaftermidnight.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_rudy.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_firesofeden.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_bornwiththehunger.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_cometoyourwindow.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
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Results/lyrics/cher/cher_kisstokiss.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_ifoundyoulove.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_geronimoscadillac.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_believe.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_imblowinaway.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_igotosleep.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_saytheword.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_crymyselftosleep.txt
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Results/lyrics/cher/cher_ibelieve.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thewayoflove.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_chiquitita.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Results/lyrics/cher/cher_iwantyou.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_longdistanceloveaffair.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_songcalledchildren.txt
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Results/lyrics/cher/cher_welcometoburlesque.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_ifeelsomethingintheairmagicintheair.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Results/lyrics/cher/cher_lovethedeviloutofya.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_youknowit.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_heaintheavyhesmybrother.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_dressedtokill.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_weallflyhome.txt
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Results/lyrics/cher/cher_thetimestheyareachangin.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_happinessisjustathingcalledjoe.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_onesmallstep.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_shoppin.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_chastitysun.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_fastcompany.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-

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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Results/lyrics/cher/cher_giveourloveafightinchance.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_onehonestman.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_loversforever.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_lovehurts.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_forwhatitsworth.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_thebookoflove.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_startingover.txt
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Results/lyrics/cher/cher_wasntitgood.txt
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Results/lyrics/cher/cher_youwouldntknowlove.txt
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Results/lyrics/cher/cher_thisgodforsakenday.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_hardenoughgettingoveryou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_takeitfromtheboys.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_pleasedonttellme.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_ihopeyoufindit.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/cher/cher_classified1a.txt
Reading files from folder: /Users/jesse/Desktop/School/University of San
Diego/ADS 509- Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/
Found directory: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1 Results/lyrics/robyn/
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_includemeout.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_electric.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1

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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_shouldhaveknown.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_underneaththeheart.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_eclipse.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_dontstopthemusic.txt
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Results/lyrics/robyn/robyn_indestructibleacousticversion.txt
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Results/lyrics/robyn/robyn_hangwithme.txt
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Results/lyrics/robyn/robyn_shouldhaveknown106828.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Results/lyrics/robyn/robyn_moonlight.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_getmyselftogether.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_universalwoman.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_bumpyride.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_sayit.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_callyourgirlfriend.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_tellyoutoday.txt
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Results/lyrics/robyn/robyn_whosthatgirl.txt
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Results/lyrics/robyn/robyn_aintnothing.txt
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Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_crywhenyougetolder.txt
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Results/lyrics/robyn/robyn_dancehallqueen114530.txt
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_everagain.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_mondaymorning.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Results/lyrics/robyn/robyn_inmyeyes.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_dancingonmyown.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_showmelove.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_buffalostance.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_jackuoff.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_psycho.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_iwish.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_betweenthelines.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_wedancetothebeat114528.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_dancehallqueen.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_dontwantyouback.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_dontfuckingtellmewhattodo.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_inmyheart.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_losecontrol.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_anytimeyoulike.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_wheredidourlovego.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Results/lyrics/robyn/robyn_justanothergirlfriend.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_cobrastyle.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_jagvetendejligrosa.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_healthylove.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_doitagain.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_witheveryheartbeat.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_babyforgiveme.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_ushouldknowbetter114529.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_curriculumvitae.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_monument.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_ushouldknowbetter.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_becauseitsinthemusic.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_bumlikeyou.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_setmefree.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_keepthisfireburning.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_indestructible.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
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Results/lyrics/robyn/robyn_mytruth.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_dontfuckingtellmewhattodo114520.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_hangwithme114525.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_stars4ever.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_stillyourgirl.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_88days.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_youvegotthatsomething.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_blowmymind.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_handleme.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_sendtorobinimmediately.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_hangwithmeacousticversion.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_bigcity.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_konichiwabitches.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_doyouknowwhatittakes.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_inmyeyes114532.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_gottoworkitout.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
```

Results/lyrics/robyn/robyn_bionicwoman.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_tomteverkstan.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_herewego.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_robotboy.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_honey.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_crashandburngirl.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_everylittlething.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_notontheinside.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_wedancetothebeat.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_doyoureallywantmeshowrespect.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_thelasttime.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_missingu.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_breakdownintermission.txt
Reading file: /Users/jesse/Desktop/School/University of San Diego/ADS 509-
Applied Text Mining/Module 2/ads-tm-token-norm/M1
Results/lyrics/robyn/robyn_play.txt

Sentiment Scores for Songs:

Artist: cher
Song: cher_comeandstaywithme, Sentiment Score: 3
Song: cher_pirate, Sentiment Score: 13
Song: cher_stars, Sentiment Score: -1
Song: cher_thesedays, Sentiment Score: -2

```
Song: cher_lovesohigh, Sentiment Score: 8
Song: cher_downdowndown, Sentiment Score: -5
Song: cher_youvemademesoveryhappy, Sentiment Score: 11
Song: cher_julie, Sentiment Score: -18
Song: cher_reasontobelieve, Sentiment Score: 1
Song: cher_disastercake, Sentiment Score: -4
Song: cher_taxitaxi, Sentiment Score: 5
Song: cher_dovelamore, Sentiment Score: 17
Song: cher_stillinlovewithyou, Sentiment Score: -1
Song: cher_aliveagain, Sentiment Score: -5
Song: cher_jolsonmedley, Sentiment Score: -2
Song: cher_mylove, Sentiment Score: 34
Song: cher_untilitstimeforyoutogo, Sentiment Score: 3
Song: cher_dontthinktwice, Sentiment Score: 6
Song: cher_takinbackmyheart, Sentiment Score: 10
Song: cher_reallove, Sentiment Score: 6
Song: cher_sistersofmercy, Sentiment Score: 11
Song: cher_darklady, Sentiment Score: -2
Song: cher_livinginahousedivided, Sentiment Score: -2
Song: cher_youtakeitall, Sentiment Score: -2
Song: cher_borrowedtime, Sentiment Score: 12
Song: cher_awomansstory, Sentiment Score: 8
Song: cher_olmanriver, Sentiment Score: -5
Song: cher_themanthatgotaway, Sentiment Score: 0
Song: cher_ayounggirluneenfante, Sentiment Score: 3
Song: cher_oogaboo, Sentiment Score: 0
Song: cher_thetwelfthofnever, Sentiment Score: 6
Song: cher_therebutforfortune, Sentiment Score: -3
Song: cher_takemeforalittlewhile, Sentiment Score: 0
Song: cher_themanilove, Sentiment Score: 6
Song: cher_mommalooksharp, Sentiment Score: 3
Song: cher_whataboutthemoonlight, Sentiment Score: 1
Song: cher_loveenough, Sentiment Score: 13
Song: cher_italladdsupnow, Sentiment Score: 3
Song: cher_ourladyofsanfrancisco, Sentiment Score: -10
Song: cher_earlymorningstrangers, Sentiment Score: 9
Song: cher_emotionalfire, Sentiment Score: -4
Song: cher_bangbang, Sentiment Score: -4
Song: cher_bodytobodyhearttoheart, Sentiment Score: -1
Song: cher_mainman, Sentiment Score: 2
Song: cher_easytobehard, Sentiment Score: -9
Song: cher_ificouldturnbacktime, Sentiment Score: 0
Song: cher_howcanyoumendabrokenheart, Sentiment Score: -11
Song: cher_onebyone, Sentiment Score: 9
Song: cher_carnival, Sentiment Score: 2
Song: cher_fernando, Sentiment Score: -7
Song: cher_runaway, Sentiment Score: 3
Song: cher_thewinnertakesitall, Sentiment Score: 1
```

```
Song: cher_iknowyoudontloveme, Sentiment Score: 7
Song: cher_runnin, Sentiment Score: 2
Song: cher_88degrees, Sentiment Score: 1
Song: cher_thunderstorm, Sentiment Score: 7
Song: cher_flashback, Sentiment Score: -2
Song: cher_ithrewitallaway, Sentiment Score: -1
Song: cher_crylikeababy, Sentiment Score: -1
Song: cher_red, Sentiment Score: 1
Song: cher_heyjoe, Sentiment Score: 0
Song: cher_thelongandwindingroad, Sentiment Score: 4
Song: cher_donthideyourlove, Sentiment Score: 12
Song: cher_thebellsofrhymney, Sentiment Score: -6
Song: cher_mirrorimage, Sentiment Score: -4
Song: cher_aworldwithoutheroes, Sentiment Score: 1
Song: cher_howlonghasthisbeengoingon, Sentiment Score: 2
Song: cher_loveoneanother, Sentiment Score: 3
Song: cher_sos, Sentiment Score: 5
Song: cher_willyoulovemetomorrow, Sentiment Score: 14
Song: cher_catchthewind, Sentiment Score: 3
Song: cher_dixiegirl, Sentiment Score: 3
Song: cher_pride, Sentiment Score: 12
Song: cher_whywasiborn, Sentiment Score: -4
Song: cher_alfie, Sentiment Score: 6
Song: cher_warpaintandsoftfeathers, Sentiment Score: 1
Song: cher_womansworld, Sentiment Score: 11
Song: cher_youbettersitdownkids, Sentiment Score: -3
Song: cher_takeitlikeaman, Sentiment Score: 7
Song: cher_weregonnamakeit, Sentiment Score: 1
Song: cher_hewasbeautiful, Sentiment Score: 7
Song: cher_shapeofthingstocome, Sentiment Score: 4
Song: cher_strongenough, Sentiment Score: 29
Song: cher_themusicsnogoodwithoutyou, Sentiment Score: 6
Song: cher_allornothing, Sentiment Score: -8
Song: cher_sunny, Sentiment Score: 15
Song: cher_dangeroustimes, Sentiment Score: -7
Song: cher_willyouwaitforme, Sentiment Score: 18
Song: cher_itsamansmansmansworld, Sentiment Score: -9
Song: cher_letthisbealessontoyou, Sentiment Score: 9
Song: cher_piedpiper, Sentiment Score: -1
Song: cher_needlesandpins, Sentiment Score: 1
Song: cher_laplane, Sentiment Score: 6
Song: cher_tonightillbestayingherewithyou, Sentiment Score: -1
Song: cher_withorwithoutyou, Sentiment Score: -14
Song: cher_mamawhenmydollieshavebabies, Sentiment Score: 3
Song: cher_halfbreed, Sentiment Score: -3
Song: cher_walkinginmemphis, Sentiment Score: 3
Song: cher_oneofus, Sentiment Score: 0
Song: cher_whoyougonnabelieve, Sentiment Score: 1
```

```
Song: cher_illneverstoplovingyou, Sentiment Score: -3
Song: cher_thecruelwar, Sentiment Score: 5
Song: cher_wheredoyougo, Sentiment Score: 3
Song: cher_perfection, Sentiment Score: 41
Song: cher_island, Sentiment Score: -3
Song: cher_again, Sentiment Score: 1
Song: cher_mastersofwar, Sentiment Score: -11
Song: cher_doesanybodyreallyfallinloveanymore, Sentiment Score: 2
Song: cher_hellonwheels, Sentiment Score: -1
Song: cher_rainrain, Sentiment Score: 3
Song: cher_igotitbadandthataintgood, Sentiment Score: 2
Song: cher_mysongtoofargone, Sentiment Score: -1
Song: cher_notenoughloveintheworld, Sentiment Score: 11
Song: cher_whatllido, Sentiment Score: -1
Song: cher_dixie, Sentiment Score: 1
Song: cher_skindeep, Sentiment Score: -8
Song: cher_dorightwomandorightman, Sentiment Score: 11
Song: cher_iwillwaitforyou, Sentiment Score: 2
Song: cher_homewardbound, Sentiment Score: 1
Song: cher_thebiggertheycometheharadertheyfall, Sentiment Score: -5
Song: cher_loveisthegroove, Sentiment Score: 2
Song: cher_milord, Sentiment Score: 3
Song: cher_iwasntready, Sentiment Score: 5
Song: cher_silverwingsgoldenrings, Sentiment Score: 9
Song: cher_afterall, Sentiment Score: -3
Song: cher_iminthemiddle, Sentiment Score: 3
Song: cher_weallsleepalone, Sentiment Score: 2
Song: cher_itsnotunusual, Sentiment Score: -9
Song: cher_buticantloveyoumore, Sentiment Score: 1
Song: cher_itmightaswellstaymondayfromnowon, Sentiment Score: 7
Song: cher_justthisonetime, Sentiment Score: 0
Song: cher_ilovemakinlovetoyou, Sentiment Score: 21
Song: cher_sirens, Sentiment Score: -4
Song: cher_fireandrain, Sentiment Score: -4
Song: cher_singforyoursupper, Sentiment Score: 1
Song: cher_behindthedoor, Sentiment Score: 1
Song: cher_touchandgo, Sentiment Score: 4
Song: cher_moveme, Sentiment Score: 14
Song: cher_saveupallyourtears, Sentiment Score: -6
Song: cher_loveme, Sentiment Score: -4
Song: cher_spring, Sentiment Score: 3
Song: cher_nevershouldvestarted, Sentiment Score: -3
Song: cher_waterloo, Sentiment Score: 9
Song: cher_happywasthedaywemet, Sentiment Score: 4
Song: cher_youhaventseenthelastofme, Sentiment Score: -1
Song: cher_itgetsmewhereiwanttogo, Sentiment Score: -1
Song: cher_loveandunderstanding, Sentiment Score: 36
Song: cher_shelovestohearthemusic, Sentiment Score: 15
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Song: cher_lookatme, Sentiment Score: -3
Song: cher_whenyoufindoutwhereyouregoinletmeknow, Sentiment Score: 7
Song: cher_isawamanandhedancedwithhiswife, Sentiment Score: 1
Song: cher_heartofstone, Sentiment Score: 3
Song: cher_davidssong, Sentiment Score: 4
Song: cher_dancingqueen, Sentiment Score: 1
Song: cher_still, Sentiment Score: 7
Song: cher_sendthemanover, Sentiment Score: -4
Song: cher_rescueme, Sentiment Score: -1
Song: cher_youvereallygotaholdonme, Sentiment Score: 5
Song: cher_outrageous, Sentiment Score: -20
Song: cher_dowhatyougottado, Sentiment Score: 5
Song: cher_holysmoke, Sentiment Score: -8
Song: cher_rockandrolldoctor, Sentiment Score: 12
Song: cher_twopeopleclingingtoathread, Sentiment Score: -3
Song: cher_mrsoul, Sentiment Score: -6
Song: cher_thegirlfromipanema, Sentiment Score: 8
Song: cher_walls, Sentiment Score: -11
Song: cher_thegunman, Sentiment Score: 10
Song: cher_idonthavetosleeptodream, Sentiment Score: 3
Song: cher_amiblue, Sentiment Score: -5
Song: cher_canyoufool, Sentiment Score: -6
Song: cher_whenloversbecomestrangers, Sentiment Score: -11
Song: cher_iwalkonguildedsplinters, Sentiment Score: -25
Song: cher_houseisnotahome, Sentiment Score: 0
Song: cher_clicksong, Sentiment Score: 0
Song: cher_paradiseishere, Sentiment Score: 12
Song: cher_bellbottomblues, Sentiment Score: -3
Song: cher_likearollingstone, Sentiment Score: -2
Song: cher_walkwithme, Sentiment Score: 0
Song: cher_songforyou, Sentiment Score: 5
Song: cher_whenyouwalkaway, Sentiment Score: -12
Song: cher_angelsrunning, Sentiment Score: 3
Song: cher_loveisalonelyplacewithoutyou, Sentiment Score: -4
Song: cher_yoursuntiltomorrow, Sentiment Score: -2
Song: cher_ihatetosleepalone, Sentiment Score: -2
Song: cher_superstar, Sentiment Score: 2
Song: cher_justenoughtokeepmehanginon, Sentiment Score: 13
Song: cher_makethemanloveme, Sentiment Score: 9
Song: cher_workinggirl, Sentiment Score: -1
Song: cher_youngandpretty, Sentiment Score: 3
Song: cher_misssubwayof1952, Sentiment Score: -4
Song: cher_impossibledream, Sentiment Score: 3
Song: cher_theshoopshoopsongitsinhiskiss, Sentiment Score: 7
Song: cher_gitdownguitargroupie, Sentiment Score: -2
Song: cher_thethoughtoflovingyou, Sentiment Score: 8
Song: cher_knockonwood, Sentiment Score: 11
Song: cher_bangbangmybabyshotmedown, Sentiment Score: -4

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Song: cher_applesdontfallfarfromthetree, Sentiment Score: -3
Song: cher_blowininthewind, Sentiment Score: 0
Song: cher_thesamemistake, Sentiment Score: 7
Song: cher_games, Sentiment Score: 1
Song: cher_thesunaintgonnashineanymore, Sentiment Score: 3
Song: cher_adifferentkindoflovesong, Sentiment Score: 14
Song: cher_hellneverknow, Sentiment Score: 0
Song: cher_idratherbelieveinyou, Sentiment Score: 11
Song: cher_prisoner, Sentiment Score: 5
Song: cher_gonow, Sentiment Score: 6
Song: cher_morethanyouknow, Sentiment Score: -2
Song: cher_melody, Sentiment Score: 1
Song: cher_couldvebeenyou, Sentiment Score: 3
Song: cher_thefirsttime, Sentiment Score: -3
Song: cher_lovehurts312103, Sentiment Score: -4
Song: cher_thepower, Sentiment Score: 1
Song: cher_ourdaywillcome, Sentiment Score: 10
Song: cher_fernando710922, Sentiment Score: -7
Song: cher_neverbeentospain, Sentiment Score: -1
Song: cher_laybabylay, Sentiment Score: 3
Song: cher_youdonthavetosayyouloveme, Sentiment Score: 3
Song: cher_itsacryinshame, Sentiment Score: -8
Song: cher_gypsiestrampsandthieves, Sentiment Score: 2
Song: cher_carouselman, Sentiment Score: 0
Song: cher_chiquititaspanishversion, Sentiment Score: 0
Song: cher_favouritescars, Sentiment Score: -6
Song: cher_justlikejessejames, Sentiment Score: 3
Song: cher_girldontcome, Sentiment Score: -2
Song: cher_thegreatestsongieverheard, Sentiment Score: -2
Song: cher_mammamia, Sentiment Score: -6
Song: cher_iparalyze, Sentiment Score: 12
Song: cher_savethechildren, Sentiment Score: 0
Song: cher_gimmegimmegimmeamanaftermidnight, Sentiment Score: -10
Song: cher_rudy, Sentiment Score: -4
Song: cher_firesofeden, Sentiment Score: 6
Song: cher_bornwiththehunger, Sentiment Score: -8
Song: cher_cometoyourwindow, Sentiment Score: -1
Song: cher_kisstokiss, Sentiment Score: -5
Song: cher_ifoundyoulove, Sentiment Score: 20
Song: cher_geronimoscadillac, Sentiment Score: 0
Song: cher_believe, Sentiment Score: 9
Song: cher_imblowinaway, Sentiment Score: 0
Song: cher_igotosleep, Sentiment Score: -2
Song: cher_saytheword, Sentiment Score: 0
Song: cher_crymyselftosleep, Sentiment Score: -12
Song: cher_ibelieve, Sentiment Score: 3
Song: cher_thewayoflove, Sentiment Score: 8
Song: cher_chiquitita, Sentiment Score: -7
```

```
Song: cher_lovepaintheresapaininmyheart, Sentiment Score: -4
Song: cher_iwantyou, Sentiment Score: -5
Song: cher_longdistanceloveaffair, Sentiment Score: 13
Song: cher_thisisasongforthelonely, Sentiment Score: -6
Song: cher_songcalledchildren, Sentiment Score: -2
Song: cher_welcometoburlesque, Sentiment Score: -4
Song: cher_ifeelsomethingintheairmagicintheair, Sentiment Score: 3
Song: cher_mylove318663, Sentiment Score: 22
Song: cher_ifoundsomeone, Sentiment Score: -1
Song: cher_trainofthought, Sentiment Score: -4
Song: cher_lovethedeviloutofya, Sentiment Score: -1
Song: cher_boysandgirls, Sentiment Score: 13
Song: cher_bymyself, Sentiment Score: 1
Song: cher_dannyboy, Sentiment Score: 2
Song: cher_iwouldnttreatadogthewayyoutreatedme, Sentiment Score: 2
Song: cher_doyoubelieveinmagic, Sentiment Score: 16
Song: cher_doievercrossyourmind, Sentiment Score: 0
Song: cher_youknowit, Sentiment Score: 3
Song: cher_heaintheavyhesmybrother, Sentiment Score: 2
Song: cher_dressedtokill, Sentiment Score: -15
Song: cher_igotyoubabe, Sentiment Score: 0
Song: cher_whenthemoneysgone, Sentiment Score: 1
Song: cher_thefallkurtsblues, Sentiment Score: -9
Song: cher_whentheloveisgone, Sentiment Score: 13
Song: cher_itstoolatetolovemenow, Sentiment Score: 6
Song: cher_dontcomearoundtonight, Sentiment Score: 4
Song: cher_inforthenight, Sentiment Score: 2
Song: cher_weallflyhome, Sentiment Score: -5
Song: cher_thetimestheyareachangin, Sentiment Score: -4
Song: cher_letmedowneasy, Sentiment Score: 0
Song: cher_happinessisjustathingcalledjoe, Sentiment Score: 8
Song: cher_fittofly, Sentiment Score: 4
Song: cher_onesmallstep, Sentiment Score: 1
Song: cher_shoppin, Sentiment Score: 0
Song: cher_chastitysun, Sentiment Score: 1
Song: cher_fastcompany, Sentiment Score: 7
Song: cher_elusivebutterfly, Sentiment Score: 1
Song: cher_giveourloveafightinchance, Sentiment Score: 9
Song: cher_justwhativebeenlookinfor, Sentiment Score: 5
Song: cher_donttrytoclosearose, Sentiment Score: 2
Song: cher_saywhatsonyourmind, Sentiment Score: -3
Song: cher_thenameofthegame, Sentiment Score: 4
Song: cher_allireallywanttodo, Sentiment Score: -6
Song: cher_whenlovecallsyourname, Sentiment Score: 12
Song: cher_sittinonthedockofthebay, Sentiment Score: 2
Song: cher_ifiknewthen, Sentiment Score: 3
Song: cher_thegreatestthing, Sentiment Score: 10
Song: cher_allbecauseofyou, Sentiment Score: 2
```

```
Song: cher_onehonestman, Sentiment Score: 9
Song: cher_loversforever, Sentiment Score: 3
Song: cher_lovehurts, Sentiment Score: 3
Song: cher_forwhatitsworth, Sentiment Score: -1
Song: cher_holdinoutforlove, Sentiment Score: 18
Song: cher_takemehome, Sentiment Score: 22
Song: cher_thebookoflove, Sentiment Score: 7
Song: cher_chastityssongbandofthieves, Sentiment Score: 12
Song: cher_startingover, Sentiment Score: 0
Song: cher_shadowdreamsong, Sentiment Score: -1
Song: cher_wasntitgood, Sentiment Score: 24
Song: cher_youwouldntknowlove, Sentiment Score: 18
Song: cher_thisgodforsakenday, Sentiment Score: -2
Song: cher_time, Sentiment Score: 3
Song: cher_iwalkalone, Sentiment Score: -10
Song: cher_lietome, Sentiment Score: -4
Song: cher_backonthestreetagain, Sentiment Score: 6
Song: cher_loveonarooftop, Sentiment Score: 6
Song: cher_hardenoughgettingoveryou, Sentiment Score: 1
Song: cher_takeitfromtheboys, Sentiment Score: 10
Song: cher_dreambaby, Sentiment Score: 11
Song: cher_pleasedonttellme, Sentiment Score: -1
Song: cher_ihopeyoufindit, Sentiment Score: -1
Song: cher_classified1a, Sentiment Score: 2

Artist: robyn
Song: robyn_includemeout, Sentiment Score: -8
Song: robyn_electric, Sentiment Score: -9
Song: robyn_beach2k20, Sentiment Score: 20
Song: robyn_lovekills, Sentiment Score: -19
Song: robyn_timemachine, Sentiment Score: -3
Song: robyn_lovekills114524, Sentiment Score: -19
Song: robyn_givingyouback, Sentiment Score: 7
Song: robyn_noneofdem114527, Sentiment Score: 2
Song: robyn_noneofdem, Sentiment Score: 2
Song: robyn_bemine, Sentiment Score: 5
Song: robyn_fembot114519, Sentiment Score: -5
Song: robyn_shouldhaveknown, Sentiment Score: 0
Song: robyn_underneaththeheart, Sentiment Score: 3
Song: robyn_eclipse, Sentiment Score: -3
Song: robyn_robynishere, Sentiment Score: 2
Song: robyn_dontstopthemusic, Sentiment Score: 7
Song: robyn_criminalintent, Sentiment Score: -46
Song: robyn_myonlyreason, Sentiment Score: 4
Song: robyn_humanbeing, Sentiment Score: -3
Song: robyn_obaby, Sentiment Score: -7
Song: robyn_how, Sentiment Score: 8
Song: robyn_loveisfree, Sentiment Score: 58
```

```
Song: robyn_longgone, Sentiment Score: -2
Song: robyn_indestructibleacousticversion, Sentiment Score: 23
Song: robyn_hangwithme, Sentiment Score: -14
Song: robyn_shouldhaveknown106828, Sentiment Score: 0
Song: robyn_moonlight, Sentiment Score: 0
Song: robyn_getmyselftogether, Sentiment Score: -8
Song: robyn_universalwoman, Sentiment Score: 2
Song: robyn_bumpyride, Sentiment Score: -2
Song: robyn_sayit, Sentiment Score: 1
Song: robyn_callyourgirlfriend, Sentiment Score: 1
Song: robyn_tellyoutoday, Sentiment Score: -1
Song: robyn_whosthatgirl, Sentiment Score: 13
Song: robyn_aintnothing, Sentiment Score: 1
Song: robyn_dancingonmyown114521, Sentiment Score: 1
Song: robyn_mainthing, Sentiment Score: 10
Song: robyn_crywhenyougetolder, Sentiment Score: 0
Song: robyn_dancehallqueen114530, Sentiment Score: 12
Song: robyn_fembot, Sentiment Score: -5
Song: robyn_everagain, Sentiment Score: -1
Song: robyn_mondaymorning, Sentiment Score: 11
Song: robyn_inmyeyes, Sentiment Score: 3
Song: robyn_dancingonmyown, Sentiment Score: 1
Song: robyn_showmelove, Sentiment Score: 15
Song: robyn_buffalostance, Sentiment Score: 25
Song: robyn_jackuoff, Sentiment Score: 1
Song: robyn_psycho, Sentiment Score: 0
Song: robyn_iwish, Sentiment Score: 7
Song: robyn_betweenthelines, Sentiment Score: 16
Song: robyn_wedancetothebeat114528, Sentiment Score: -3
Song: robyn_dancehallqueen, Sentiment Score: 12
Song: robyn_dontwantyouback, Sentiment Score: 1
Song: robyn_dontfuckingtellmewhattodo, Sentiment Score: -78
Song: robyn_inmyheart, Sentiment Score: 5
Song: robyn_losecontrol, Sentiment Score: 13
Song: robyn_anytimeyoulike, Sentiment Score: 13
Song: robyn_wheredidourlovego, Sentiment Score: 5
Song: robyn_justanothergirlfriend, Sentiment Score: 2
Song: robyn_cobrastyle, Sentiment Score: -14
Song: robyn_jagvetendejligrosa, Sentiment Score: 2
Song: robyn_healthylove, Sentiment Score: -1
Song: robyn_doitagain, Sentiment Score: 2
Song: robyn_witheveryheartbeat, Sentiment Score: -8
Song: robyn_babyforgiveme, Sentiment Score: 8
Song: robyn_ushouldknowbetter114529, Sentiment Score: 23
Song: robyn_curriculumvitae, Sentiment Score: 0
Song: robyn_monument, Sentiment Score: 5
Song: robyn_ushouldknowbetter, Sentiment Score: 23
Song: robyn_becauseitsinthemusic, Sentiment Score: -2
```

```
Song: robyn_bumlikeyou, Sentiment Score: -6
Song: robyn_setmefree, Sentiment Score: 11
Song: robyn_keepthisfireburning, Sentiment Score: 3
Song: robyn_indestructible, Sentiment Score: 27
Song: robyn_mytruth, Sentiment Score: 0
Song: robyn_dontfuckingtellmewhattodo114520, Sentiment Score: -78
Song: robyn_hangwithme114525, Sentiment Score: -14
Song: robyn_stars4ever, Sentiment Score: 6
Song: robyn_stillyourgirl, Sentiment Score: -3
Song: robyn_88days, Sentiment Score: 11
Song: robyn_youvegotthatsomething, Sentiment Score: 5
Song: robyn_blowmymind, Sentiment Score: 0
Song: robyn_handleme, Sentiment Score: -4
Song: robyn_sendtorobinimmediately, Sentiment Score: 6
Song: robyn_hangwithmeacousticversion, Sentiment Score: -11
Song: robyn_bigcity, Sentiment Score: 0
Song: robyn_konichiwabitches, Sentiment Score: 3
Song: robyn_doyouknowwhatittakes, Sentiment Score: 0
Song: robyn_inmyeyes114532, Sentiment Score: 3
Song: robyn_gottoworkitout, Sentiment Score: 10
Song: robyn_bionicwoman, Sentiment Score: 0
Song: robyn_tomteverkstan, Sentiment Score: 2
Song: robyn_herewego, Sentiment Score: 4
Song: robyn_robotboy, Sentiment Score: -2
Song: robyn_honey, Sentiment Score: 15
Song: robyn_crashandburngirl, Sentiment Score: -14
Song: robyn_everylittlething, Sentiment Score: 0
Song: robyn_notontheinside, Sentiment Score: -6
Song: robyn_wedancetothebeat, Sentiment Score: -3
Song: robyn_doyoureallywantmeshowrespect, Sentiment Score: 11
Song: robyn_thelasttime, Sentiment Score: 12
Song: robyn_missingu, Sentiment Score: -10
Song: robyn_breakdownintermission, Sentiment Score: 1
Song: robyn_play, Sentiment Score: -2

Artist with the highest average sentiment score: cher
Song with the highest sentiment score: robyn_loveisfree by robyn with a score of
58
```

1.3.1 Questions

Q: Overall, which artist has the higher average sentiment per song?

A:

_____

Q: For your first artist, what are the three songs that have the highest and lowest sentiments? Print the lyrics of those songs to the screen. What do you think is driving the sentiment score?

A:

Q: For your second artist, what are the three songs that have the highest and lowest sentiments? Print the lyrics of those songs to the screen. What do you think is driving the sentiment score?
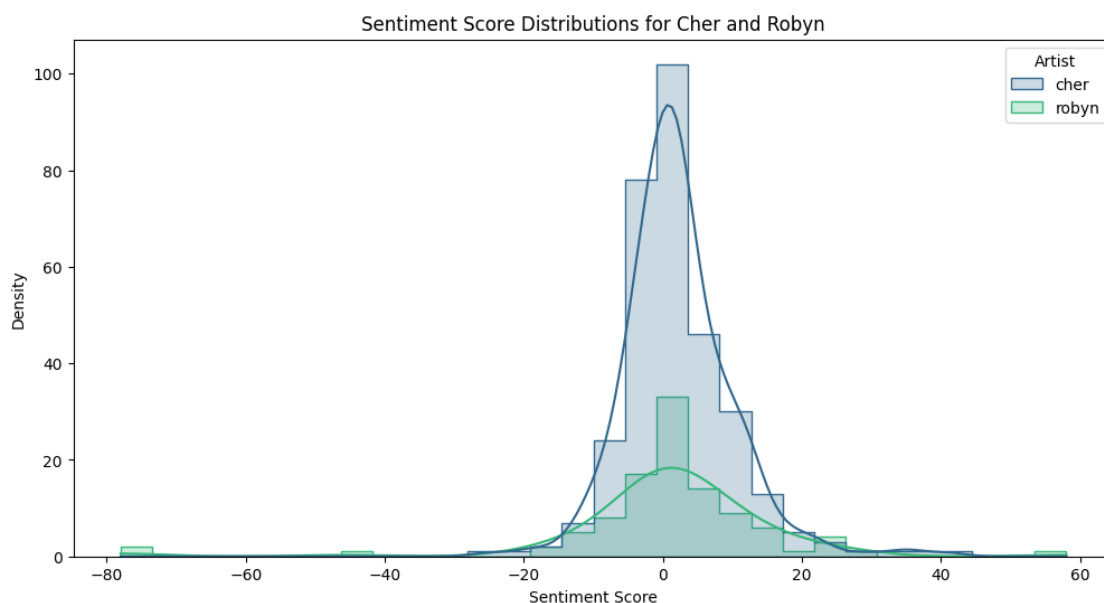
A:

Q: Plot the distributions of the sentiment scores for both artists. You can use **seaborn** to plot densities or plot histograms in matplotlib.

```python
import matplotlib.pyplot as plt
import seaborn as sns

# Convert sentiment scores to a DataFrame for plotting
sentiment_df = pd.DataFrame([
    {'Artist': artist, 'Song': song, 'Sentiment Score': score}
    for artist, songs in sentiment_scores.items()
    for song, score in songs.items()
])

# Plot the sentiment score distributions
plt.figure(figsize=(12, 6))
sns.histplot(data=sentiment_df, x='Sentiment Score', hue='Artist', kde=True,
  ↪bins=30, palette='viridis', element='step')
plt.title('Sentiment Score Distributions for Cher and Robyn')
plt.xlabel('Sentiment Score')
plt.ylabel('Density')
plt.show()
```

1.4 Sentiment Analysis on Twitter Descriptions

In this section, define two sets of emojis you designate as positive and negative. Make sure to have at least 10 emojis per set. You can learn about the most popular emojis on Twitter at the emojitracker.

Associate your positive emojis with a score of +1, negative with -1. Score the average sentiment of your two artists based on the Twitter descriptions of their followers. The average sentiment can just be the total score divided by number of followers. You do not need to calculate sentiment on non-emoji content for this section.

```python
# your code here

import os
from collections import defaultdict
import pandas as pd

# Define two sets of emojis as positive and negative
positive_emojis = {
    " ", " ", " ", " ", " ", " ", " ", " ", " ", " ",
    " ", " ", " ", " ", " ", " ", " ", " ", " ", " ",
    " ", " ", " ", " ", " ", " ", " ", " ", " ", " "
}

negative_emojis = {
    " ", " ", " ", " ", " ", " ", " ", " ", " ", " ",
    " ", " ", " ", " ", " ", " ", " ", " ", " ", " ",
    " ", " ", " ", " ", " ", " ", " ", " ", " ", " "
}

# Associate positive emojis with +1 and negative emojis with -1
emoji_sentiment_dict = {emoji: 1 for emoji in positive_emojis}
emoji_sentiment_dict.update({emoji: -1 for emoji in negative_emojis})

# Function to read files from a specific folder
def read_files_from_folder(folder_path):
    files_content = {}
    for root, dirs, files in os.walk(folder_path):
        for file in files:
            if file.endswith(".txt"):
                file_path = os.path.join(root, file)
                with open(file_path, 'r', encoding='utf-8') as f:
                    files_content[file] = f.read()
    return files_content
```

```python
# Function to calculate emoji sentiment score for a given text
def calculate_emoji_sentiment(text, emoji_sentiment_dict):
    score = sum(emoji_sentiment_dict.get(char, 0) for char in text)
    return score


twitter_path = os.path.join(data_location, twitter_folder)

# Read the Twitter data
twitter_data = read_files_from_folder(twitter_path)

# Organize Twitter descriptions into a dictionary
twitter_dict = defaultdict(list)
for file, content in twitter_data.items():
    artist = file.replace('.txt', '')
    descriptions = content.split('\n')
    twitter_dict[artist] = descriptions


# Calculate average emoji sentiment scores for each artist
emoji_sentiment_scores = {}
for artist, descriptions in twitter_dict.items():
    total_score = sum(calculate_emoji_sentiment(desc, emoji_sentiment_dict) for␣
 ↪desc in descriptions)
    avg_score = total_score / len(descriptions) if descriptions else 0
    emoji_sentiment_scores[artist] = avg_score

# Output the emoji sentiment scores
print("\nEmoji Sentiment Scores for Twitter Descriptions:")
for artist, score in emoji_sentiment_scores.items():
    print(f"Artist: {artist}, Average Emoji Sentiment Score: {score}")

# Example questions and answers
highest_avg_emoji_sentiment_artist = max(emoji_sentiment_scores,␣
 ↪key=emoji_sentiment_scores.get)
print(f"\nArtist with the highest average emoji sentiment score:␣
 ↪{highest_avg_emoji_sentiment_artist}")
```

Emoji Sentiment Scores for Twitter Descriptions:
Artist: cher_followers_data, Average Emoji Sentiment Score: 0.028820931184375707
Artist: robynkonichiwa_followers_data, Average Emoji Sentiment Score:
0.017612884863299236
Artist: cher_followers, Average Emoji Sentiment Score: 0.0
Artist: robynkonichiwa_followers, Average Emoji Sentiment Score: 0.0

Artist with the highest average emoji sentiment score: cher_followers_data

Q: What is the average sentiment of your two artists?

A:

Q: Which positive emoji is the most popular for each artist? Which negative emoji?

A:

```
# Define two sets of emojis as positive and negative
positive_emojis = {
    " ", " ", " ", " ", " ", " ", " ", " ", " ", " ",
    " ", " ", " ", " ", " ", " ", " ", " ", " ", " ",
    " ", " ", " ", " ", " ", " ", " ", " ", " ", " "
}

negative_emojis = {
    " ", " ", " ", " ", " ", " ", " ", " ", " ", " ",
    " ", " ", " ", " ", " ", " ", " ", " ", " ", " ",
    " ", " ", " ", " ", " ", " ", " ", " ", " ", " "
}
# Function to read files from a specific folder
def read_files_from_folder(folder_path):
    files_content = {}
    for root, dirs, files in os.walk(folder_path):
        for file in files:
            if file.endswith(".txt"):
                file_path = os.path.join(root, file)
                with open(file_path, 'r', encoding='utf-8') as f:
                    files_content[file] = f.read()
    return files_content

# Function to count emoji occurrences in text
def count_emojis(text, emoji_set):
    emoji_counter = Counter(char for char in text if char in emoji_set)
    return emoji_counter

twitter_path = os.path.join(data_location, twitter_folder)

# Read the Twitter data
twitter_data = read_files_from_folder(twitter_path)

# Organize Twitter descriptions into a dictionary
twitter_dict = defaultdict(list)
for file, content in twitter_data.items():
    artist = file.replace('.txt', '')
    descriptions = content.split('\n')
    twitter_dict[artist] = descriptions

# Count emojis for each artist
```

```python
emoji_counts = {artist: {'positive': Counter(), 'negative': Counter()} for
 ↪artist in twitter_dict}
for artist, descriptions in twitter_dict.items():
    for desc in descriptions:
        emoji_counts[artist]['positive'].update(count_emojis(desc,
 ↪positive_emojis))
        emoji_counts[artist]['negative'].update(count_emojis(desc,
 ↪negative_emojis))

# Determine the most popular positive and negative emojis for each artist
most_popular_positive_emojis = {artist: max(counts['positive'],
 ↪key=counts['positive'].get, default='None') for artist, counts in
 ↪emoji_counts.items()}
most_popular_negative_emojis = {artist: max(counts['negative'],
 ↪key=counts['negative'].get, default='None') for artist, counts in
 ↪emoji_counts.items()}

# Output the most popular positive and negative emojis
print("\nMost Popular Positive Emojis for Each Artist:")
for artist, emoji in most_popular_positive_emojis.items():
    count = emoji_counts[artist]['positive'][emoji]
    print(f"Artist: {artist}, Emoji: {emoji}, Count: {count}")

print("\nMost Popular Negative Emojis for Each Artist:")
for artist, emoji in most_popular_negative_emojis.items():
    count = emoji_counts[artist]['negative'][emoji]
    print(f"Artist: {artist}, Emoji: {emoji}, Count: {count}")
```

```
Most Popular Positive Emojis for Each Artist:
Artist: cher_followers_data, Emoji:  , Count: 45846
Artist: robynkonichiwa_followers_data, Emoji:  , Count: 3217
Artist: cher_followers, Emoji: None, Count: 0
Artist: robynkonichiwa_followers, Emoji: None, Count: 0

Most Popular Negative Emojis for Each Artist:
Artist: cher_followers_data, Emoji:  , Count: 2001
Artist: robynkonichiwa_followers_data, Emoji:  , Count: 72
Artist: cher_followers, Emoji: None, Count: 0
Artist: robynkonichiwa_followers, Emoji: None, Count: 0
```

[ ]: