MLB Sentiment Test

*This is our current test phase of extracting data from our data source, which we continue to experiment with for a successful

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extraction and analysis of the data and/or featured terms within the data.
In [1]:
         import os
         import datetime
         import re
         # for the lyrics scrape section
         import requests
         import time
         from bs4 import BeautifulSoup
         from collections import defaultdict, Counter
         import random
         import shutil
        The two teams I (Andrew Kim) have chosen are the Chicago White Sox and the Oakland Athletics.
In [11]:
         MLB = {'white sox':"https://www.mlbtraderumors.com/chicago-white-sox",
                 'oakland athletics': "https://www.mlbtraderumors.com/oakland-athletics"}
In [12]:
          # Let's set up a dictionary of lists to hold our links
         MLB pages = defaultdict(list)
         # Set base url for website link to lyrics
         base_url = 'https://www.mlbtraderumors.com/'
         url list = []
         for MLB, MLB page in MLB.items() :
             # request the page and sleep
             r = requests.get(MLB_page)
             time.sleep(5 + 10*random.random())
             #Use Beautiful Soup to extract data from HTML lyrics url
             soup = BeautifulSoup(r.text, 'html.parser')
              # now extract the links to lyrics pages from this page
              # store the links `lyrics_pages` where the key is the artist and the
              # value is a list of links.
             for link in soup.find all('a'):
                # acquire the links
                 temp_href = str(link.get('href'))
                 temp url = base url + temp href
                 url_list.append(temp_url)
                 # retain lyric links
                 substring = MLB + '/'
                 url_filtered = [i for i in url_list if substring in i]
                 url filtered
                  # save and store the links to 'lyrics pages'
                 MLB_pages[MLB] = url_filtered
In [22]:
         for MLB, lp in MLB pages.items() :
              assert(len(set(lp)) > 20)
         AssertionError
                                                   Traceback (most recent call last)
         <ipython-input-22-3527a691eb2b> in <module>
             1 for MLB, lp in MLB pages.items() :
                    assert(len(set(lp)) > 20)
         AssertionError:
In [23]:
         for MLB, links in MLB_pages.items()
             print(f"For {MLB} we have {len(links)}.")
             print(f"The full pull will take for this artist will take {round(len(links)*10/3600,2)} hours.")
         For white sox we have 0.
         The full pull will take for this artist will take 0.0 hours.
         For oakland athletics we have 0.
         The full pull will take for this artist will take 0.0 hours.
In [ ]:
In [24]:
         def generate_filename_from_link(link) :
             if not link :
                 return None
              # drop the http or https and the html
             name = link.replace("https","").replace("http","")
             name = link.replace(".html","")
             # create empty folder in repo "teams"
             name = name.replace("/teams/","")
             # Replace useless chareacters with UNDERSCORE
             name = name.replace("://","").replace(".","_").replace("/","_")
             # tack on .txt
             name = name + ".txt"
             return (name)
In [25]:
          # Make the teams folder here. If you'd like to practice your programming, add functionality
         # that checks to see if the folder exists. If it does, then use shutil.rmtree to remove it and
         # create a new one.
         if os.path.isdir("teams") :
             shutil.rmtree("teams/")
         os.mkdir("teams")
In [29]:
         url_stub = "https://www.mlbtraderumors.com/"
         start = time.time()
         for MLB in MLB_pages :
             # Use this space to carry out the following steps:
              # 1. Build a subfolder for the artist
             subfold = "MLB/" + MLB
             if os.path.isdir(subfold):
                 shutil.rmtree(subfold + '/')
             os.mkdir(subfold)
             # 2. Iterate over the team pages
             i = 0
             urls = MLB_pages[team]
             while i < total pages:</pre>
                 temp_url = urls[i]
                  # 3. Request the team page.
                  # Don't forget to add a line like `time.sleep(5 + 10*random.random())`
                  # to sleep after making the request
                 r = requests.get(temp url)
                 time.sleep(5 + 10*random.random())
                 soup = BeautifulSoup(r.text, 'html.parser')
                  # 4. Extract the title and team from the page.
                 title = soup.find_all('b')[1].get_text()
                 teams = soup.find_all('div')[22].get_text()
                 song = title + '\n\n' + lyrics
                  \# 5. Write out the title, two returns ('\n'), and the lyrics. Use `generate filename from url'
                  # to generate the filename.
                 wd = os.getcwd()
                 folders = "\\team\\" + MLB
                 filepath = wd + folders
                 filename = generate_filename_from_link(temp_url)
                 pathname = filepath + '\\' + filename
                 text file = open(pathname, "w")
                 text_file.write(team)
                 text_file.close()
                 i +=1
                                                  Traceback (most recent call last)
         FileNotFoundError
         <ipython-input-29-fa2d08ad8878> in <module>
              8
                   if os.path.isdir(subfold):
              9
                     shutil.rmtree(subfold + '/')
         ---> 10
                   os.mkdir(subfold)
             11
              12
                     # 2. Iterate over the team pages
```

In []: print(f"Total run time was {round((time.time() - start)/3600,2)} hours.") In []:

FileNotFoundError: [WinError 3] The system cannot find the path specified: 'MLB/white sox'