

Sentiment Analysis for Good

Final Program

ACTIVITY SLIDE

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 - `!pip install lyricsgenius`
- The information for how to use lyricsgenius as well as all the code is available on this [GitHub page](#).
- To access Genius Lyrics, we'll need to create an instance of the lyricsgenius class to do this:
 - `genius = lyricsgenius.Genius("This should be your access token") #make sure this is the access token!`
- Collect 5 songs by a musician of your choice. Save it as "collection"

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 - `collection = genius.search_artist("The Beatles",
max_songs=5)`
- Print out what you are getting. How would you do that?

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 - You can choose to give your students some time to read the documentation and figure out how to do this.
 - `collection = genius.search_artist("The Beatles", max_songs=5)`
- Print out what you are getting. How would you do that?
 - `print(collection.songs)`
- What do you notice?

ACTIVITY SLIDE

- Each thing in this list is a object of type “song.” One of the song properties is “title”. How would you write out all the song titles in this list? (Give students some time, this is not easy)

```
■ for song in collection.songs:  
    print(song.title)
```

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 - `for song in collection.songs:`
 `print(song.lyrics)`

ACTIVITY SLIDE

1. Choose a favorite musician / band who wrote songs with lyrics
2. Save a list of 25 of their songs.
3. Collect the songs in a list.
4. Print out the title of the song and it's sentiment for each song.
5. Find the average sentiment of all the songs. Print that out at the end of the program
6. Keep track of your average. Look at your list of songs; do you agree with what your program said was positive or negative?
7. When you're finished, you can try doing this for other artists. Are you noticing any trends by genre? Topic of song? Anything about the identity of the singer? We'll talk about it as a class!

Extension

1. Check out a few other examples:
 - a. The author of the library looked at mentions of “beer” and “truck” in country songs, as well as “girl” and “love.”
 - i. [Article](#)
 - ii. [Code](#)
 - b. This person used the library to [measure](#) which hip-hop singers were more or less toxic.
 - c. Another person used the library to [measure](#) if singers were getting more aggressive as time went on.

DISCUSSION

- Share what you've got for sentiment for your singer.
 - Are you noticing any trends by:
 - genre?
 - topic of song?
 - anything about the identity of the singer?
- How might bias play into what you are finding?

Exit ticket: Unit 5.02 – Exercise

Write about something you noticed looking at the songs. Does there appear to be bias?


