Lab Assignment 4: Using APIs in Python

DS 6001: Practice and Application of Data Science

Instructions

Please answer the following questions as completely as possible using text, code, and the results of code as needed. Format your answers in a Jupyter notebook. To receive full credit, make sure you address every part of the problem, and make sure your document is formatted in a clean and professional way.

In this lab, you will work with the public API provided by <u>genius.com (https://genius.com/)</u>, a website that calls itself "the world's biggest collection of song lyrics and musical knowledge." You will need to read the API documentation carefully, acquire an access key, and use it without sharing it to pull data from this API into Python. You will also practice using a library made specifically to wrap around <u>requests</u> to make calling from the Genius API easier.

Problem 0

Import the following libraries:

```
In [1]: #!pip install python-dotenv
In [2]: import numpy as np
import pandas as pd
import requests
import json
import os
import dotenv
import sys
sys.tracebacklimit = 0 # turn off the error tracebacks
```

The Genius API documentation is here: https://docs.genius.com/#/getting-started-h1
(https://docs.genius.com/#/getting-started-h1). Read through the documentation carefully. Although the Genius API is free and public, it still requires users an access key to use the API. In this case, Genius provides users with three codes: a client ID, a client ID secret, and a client access token. Use the documentation to find a way to obtain these codes for yourself. Write a paragraph that describes all of the steps you needed to take (but DO NOT list your access codes in this paragraph).

Some hints and cautions:

- 1. Before you can use the API, you will need a regular, free user account with Genius. Sign-up here: https://genius.com/signup_or_login (https://genius.com/signup_or_login)
- 2. Genius's API is built to support third-party app development, not data scientists. The language is entirely geared toward app development. Under "Authentication" there are instructions to third-party developers for guiding their own users in getting access keys. That's not relevant to getting access for yourself. It's not hard to get an access key, but the guidance here is not very clear. Be patient and read everything in the Authentication section carefully.
- 3. When you arrive at the page that allows you to register for API access keys, the language is still geared toward app development. You will be prompted to name your app and provide the URLs associated with the app. It doesn't much matter what you name your app, and I just used the Collab main page (https://collab.its.virginia.edu/portal?containerLogin=true (https://collab.its.virginia.edu/portal?containerLogin=true (https://collab.its.virginia.edu/portal?containerLogin=true) for the URLs.
- 4. When you get your codes, copy them in a text file. In problem 2 you will copy these codes over again to a .env file. [4 points]

Answer 1:

- First, I have created a regular user by providing a Nickname, valid email address and a password.
- Second, I have looked through multiple pages of documentation but it was not clear at all how to obtain the tokens.
- Finally, I have realized that I actually need to create an API client directly on their website using https://genius.com/api-clients. Form there I was able to obtain 3 keys, as expected, which I have stored in a local text file (next Problem).

Problem 2

Create a .env file for this project. Open it, copy your access codes into it, and save it. Then use Python code to load the environmental variables contained in the .env file, and create variables that contain each of the three codes. (You can print these variables to make sure it worked, but do not allow your access keys to display in your notebook). [4 points]

```
In [3]: os.getcwd()
Out[3]: '/Users/dmitrymikhaylov/Documents/learn/uva/spring2022/DS6001/surfing d
        ata_pipeline/M4 - apis'
In [4]: #!touch .env
In [5]:
        # Check if .env was created in the same directory
        !ls -a
                              .env
                                                   labassignment4.ipynb
                              .ipynb checkpoints
        .DS Store
                             M4 codealong.ipynb
In [6]: # Load secrets
        dotenv.load dotenv()
        CLientID = os.getenv('CLientID')
        ClientSecret = os.getenv('ClientSecret')
        ClientAccess = os.getenv('ClientAccess')
```

The root for all Genius APIs is https://api.genius.com). Find the endpoint for the Search API. (You will have to click the "Authorize with Genius" button in the upper-right corner if you haven't already done so). Use the requests library to issue a search for Bob Dylan. Genius's API is organized in a way that every individual artist has his or her own API endpoint. Display a portion of the JSON output that displays the API endpoint path for the data on Bob Dylan.

Hint: to authenticate, specify your access token (not your client ID or client secret) as the access_token parameter. You will have to dig around the JSON output to find the artist ID, but it is listed under primary artist several branches down the JSON tree. [4 points]

Out[43]: <Response [200]>

```
In [47]: # Songs are under responce/hits, below is the first song by Bob Dylan:
         json data = json.loads(r.text)
         json_data['response']['hits'][:1]
Out[47]: [{'highlights': [],
           'index': 'song',
           'type': 'song',
           'result': {'annotation_count': 125,
            'api_path': '/songs/5393247',
            'artist names': 'Bob Dylan',
            'full_title': 'Murder Most Foul by\xa0Bob\xa0Dylan',
            'header_image_thumbnail_url': 'https://images.genius.com/7fbaf838ffd
         f99315408faa29cb566ac.300x300x1.jpg',
             'header image url': 'https://images.genius.com/7fbaf838ffdf99315408f
         aa29cb566ac.1000x1000x1.jpg',
            'id': 5393247,
            'lyrics owner id': 3360167,
             'lyrics state': 'complete',
            'path': '/Bob-dylan-murder-most-foul-lyrics',
             'pyongs count': 36,
             'song_art_image_thumbnail_url': 'https://images.genius.com/7fbaf838f
         fdf99315408faa29cb566ac.300x300x1.jpg',
             'song art image url': 'https://images.genius.com/7fbaf838ffdf9931540
         8faa29cb566ac.1000x1000x1.jpg',
             'stats': {'unreviewed annotations': 38, 'hot': False, 'pageviews': 4
         77823},
             'title': 'Murder Most Foul',
             'title with featured': 'Murder Most Foul',
             'url': 'https://genius.com/Bob-dylan-murder-most-foul-lyrics',
             'primary_artist': {'api_path': '/artists/181',
              'header image url': 'https://images.genius.com/facc753d420efc53bbe1
         e0b63a72d70b.960x719x1.jpg',
              'id': 181,
             'image url': 'https://images.genius.com/22306423b6ad8777d1ed5b33ad8
         b0d0b.1000x1000x1.jpg',
             'is meme verified': False,
             'is verified': False,
             'name': 'Bob Dylan',
             'url': 'https://genius.com/artists/Bob-dylan'}}]
In [48]: # In a for loop, print title of the song and id of the artists
         for song in json_data['response']['hits']:
             print(song['result']['full title'], '-- id', song['result']['primary
         _artist']['id'])
         Murder Most Foul by Bob Dylan -- id 181
         Blowin' in the Wind by Bob Dylan -- id 181
         The Times They Are A-Changin' by Bob Dylan -- id 181
         All Along the Watchtower by Bob Dylan -- id 181
         Like a Rolling Stone by Bob Dylan -- id 181
         Make You Feel My Love by Bob Dylan -- id 181
         Hurricane by Bob Dylan -- id 181
         Don't Think Twice, It's All Right by Bob Dylan -- id 181
         Mr. Tambourine Man by Bob Dylan -- id 181
         A Hard Rain's A-Gonna Fall by Bob Dylan -- id 181
```

Add /songs to the end of the the endpoint path you found in problem 3 and use this path to request the 20 most popular Bob Dylan songs. Organize these data in a pandas data frame. [4 points]

```
In [49]: endpoint='/artists/181/songs'
    r = requests.get(root+endpoint, params={'sort':'popularity', 'access_tok
    en':ClientAccess})
    r
```

ERROR! Session/line number was not unique in database. History logging moved to new session 1287

```
Out[49]: <Response [200]>
```

```
In [54]: # Checking the response
    json_data = json.loads(r.text)
    json_data['response']
```

```
Out[54]: {'songs': [{'annotation count': 16,
            'api_path': '/songs/96286',
            'artist names': 'USA For Africa',
             'full title': 'We Are the World by\xa0USA\xa0For Africa',
             'header image thumbnail url': 'https://images.genius.com/9b0683e7bbd
         3567ac6f9c72b81a55a0a.300x169x1.jpg',
             'header_image_url': 'https://images.genius.com/9b0683e7bbd3567ac6f9c
         72b81a55a0a.640x360x1.jpg',
             'id': 96286,
            'lyrics owner id': 4733728,
            'lyrics state': 'complete',
             'path': '/Usa-for-africa-we-are-the-world-lyrics',
             'pyongs_count': 34,
             'song art image thumbnail url': 'https://images.genius.com/51f9de13b
         1cb0010adb6b5c1d70a5bc1.300x300x1.jpg',
             'song_art_image_url': 'https://images.genius.com/51f9de13b1cb0010adb
         6b5c1d70a5bc1.1000x1000x1.jpg',
             'stats': {'unreviewed annotations': 1, 'hot': False, 'pageviews': 48
         2894},
            'title': 'We Are the World',
             'title_with_featured': 'We Are the World',
             'url': 'https://genius.com/Usa-for-africa-we-are-the-world-lyrics',
             'primary artist': { 'api path': '/artists/370890',
             'header image url': 'https://images.genius.com/3fb2d9f68c911b547339
         9b97ef9427e6.768x768x1.jpg',
             'id': 370890,
             'image url': 'https://images.genius.com/3fb2d9f68c911b5473399b97ef9
         427e6.768x768x1.jpg',
             'is meme verified': False,
             'is verified': False,
             'name': 'USA For Africa',
             'url': 'https://genius.com/artists/Usa-for-africa'}},
           { 'annotation count': 125,
             'api path': '/songs/5393247',
             'artist names': 'Bob Dylan',
             'full title': 'Murder Most Foul by\xa0Bob\xa0Dylan',
             'header image thumbnail url': 'https://images.genius.com/7fbaf838ffd
         f99315408faa29cb566ac.300x300x1.jpg',
             'header image url': 'https://images.genius.com/7fbaf838ffdf99315408f
         aa29cb566ac.1000x1000x1.jpg',
            'id': 5393247,
             'lyrics_owner_id': 3360167,
             'lyrics state': 'complete',
             'path': '/Bob-dylan-murder-most-foul-lyrics',
             'pyongs count': 36,
             'song art image thumbnail url': 'https://images.genius.com/7fbaf838f
         fdf99315408faa29cb566ac.300x300x1.jpg',
             'song art image url': 'https://images.genius.com/7fbaf838ffdf9931540
         8faa29cb566ac.1000x1000x1.jpg',
             'stats': {'unreviewed_annotations': 38, 'hot': False, 'pageviews': 4
         77823},
             'title': 'Murder Most Foul',
            'title with featured': 'Murder Most Foul',
             'url': 'https://genius.com/Bob-dylan-murder-most-foul-lyrics',
             'primary_artist': {'api_path': '/artists/181',
              'header image url': 'https://images.genius.com/facc753d420efc53bbe1
         e0b63a72d70b.960x719x1.jpg',
```

```
'id': 181,
    'image_url': 'https://images.genius.com/22306423b6ad8777d1ed5b33ad8
b0d0b.1000x1000x1.jpg',
    'is meme verified': False,
    'is_verified': False,
    'name': 'Bob Dylan',
    'url': 'https://genius.com/artists/Bob-dylan'}},
  { 'annotation count': 12,
   'api_path': '/songs/79424',
   'artist names': 'Bob Dylan',
   'full_title': "Blowin' in the Wind by\xa0Bob\xa0Dylan",
   'header_image_thumbnail_url': 'https://images.genius.com/afd28edb1b2
d6d5d556a7b01b108c716.300x300x1.jpg',
   'header_image_url': 'https://images.genius.com/afd28edb1b2d6d5d556a7
b01b108c716.500x500x1.jpg',
   'id': 79424,
   'lyrics owner id': 73267,
   'lyrics_state': 'complete',
   'path': '/Bob-dylan-blowin-in-the-wind-lyrics',
   'pyongs count': 44,
   'song art image thumbnail url': 'https://images.genius.com/afd28edb1
b2d6d5d556a7b01b108c716.300x300x1.jpg',
   'song art image url': 'https://images.genius.com/afd28edb1b2d6d5d556
a7b01b108c716.500x500x1.jpg',
   'stats': {'unreviewed_annotations': 0, 'hot': False, 'pageviews': 47
5475},
   'title': 'Blowin' in the Wind',
   'title_with_featured': "Blowin' in the Wind",
   'url': 'https://genius.com/Bob-dylan-blowin-in-the-wind-lyrics',
   'primary artist': { 'api path': '/artists/181',
    'header image url': 'https://images.genius.com/facc753d420efc53bbe1
e0b63a72d70b.960x719x1.jpg',
    'id': 181,
    'image url': 'https://images.genius.com/22306423b6ad8777d1ed5b33ad8
b0d0b.1000x1000x1.jpg',
    'is meme verified': False,
    'is_verified': False,
    'name': 'Bob Dylan',
    'url': 'https://genius.com/artists/Bob-dylan'}},
  { 'annotation count': 1,
   'api path': '/songs/68146',
   'artist names': 'Adele',
   'full_title': 'Make You Feel My Love by\xa0Adele',
   'header image thumbnail url': 'https://images.genius.com/e23228f25b7
6446cf8de1c5fe624f262.300x300x1.jpg',
   'header image url': 'https://images.genius.com/e23228f25b76446cf8de1
c5fe624f262.1000x1000x1.jpg',
   'id': 68146,
   'lyrics owner id': 82481,
   'lyrics state': 'complete',
   'path': '/Adele-make-you-feel-my-love-lyrics',
   'pyongs count': 49,
   'song art image thumbnail url': 'https://images.genius.com/0ffd840e4
21a774fc56445c4c31151b6.300x300x1.jpg',
   'song art image url': 'https://images.genius.com/0ffd840e421a774fc56
445c4c31151b6.1000x1000x1.jpg',
   'stats': {'unreviewed annotations': 0, 'hot': False, 'pageviews': 42
```

```
8505},
   'title': 'Make You Feel My Love',
   'title with featured': 'Make You Feel My Love',
   'url': 'https://genius.com/Adele-make-you-feel-my-love-lyrics',
   'primary_artist': { 'api_path': '/artists/2300',
    'header_image_url': 'https://images.genius.com/9afdcb0546e87a62efc3
5d9456ec12a1.1000x525x1.jpg',
    'id': 2300,
    'image url': 'https://images.genius.com/4c3ac1f1d845d251671a892309b
5f9b5.1000x1000x1.jpg',
    'is meme verified': False,
    'is_verified': False,
    'name': 'Adele',
    'url': 'https://genius.com/artists/Adele'}},
  { 'annotation count': 18,
   'api_path': '/songs/62605',
   'artist names': 'Bob Dylan',
   'full_title': "The Times They Are A-Changin' by\xa0Bob\xa0Dylan",
   'header_image_thumbnail_url': 'https://images.genius.com/e00b4dcec13
5cb5ab3eed4fb516102ac.300x300x1.jpg',
   'header image url': 'https://images.genius.com/e00b4dcec135cb5ab3eed
4fb516102ac.1000x1000x1.jpg',
   'id': 62605,
   'lyrics_owner_id': 49202,
   'lyrics_state': 'complete',
   'path': '/Bob-dylan-the-times-they-are-a-changin-lyrics',
   'pyongs count': 38,
   'song art image thumbnail url': 'https://images.genius.com/3f8af2a0b
75202890de67fbfe572fe94.300x300x1.jpg',
   'song art image url': 'https://images.genius.com/3f8af2a0b75202890de
67fbfe572fe94.571x571x1.jpg',
   'stats': {'unreviewed_annotations': 3, 'hot': False, 'pageviews': 42
0665},
   'title': 'The Times They Are A-Changin'',
   'title with featured': "The Times They Are A-Changin'",
   'url': 'https://genius.com/Bob-dylan-the-times-they-are-a-changin-ly
rics',
   'primary artist': {'api path': '/artists/181',
    'header image url': 'https://images.genius.com/facc753d420efc53bbel
e0b63a72d70b.960x719x1.jpg',
    'id': 181,
    'image url': 'https://images.genius.com/22306423b6ad8777d1ed5b33ad8
b0d0b.1000x1000x1.jpg',
    'is meme verified': False,
    'is verified': False,
    'name': 'Bob Dylan',
    'url': 'https://genius.com/artists/Bob-dylan'}},
  { 'annotation count': 15,
   'api_path': '/songs/98664',
   'artist names': 'Bob Dylan',
   'full title': 'All Along the Watchtower by\xa0Bob\xa0Dylan',
   'header image thumbnail url': 'https://images.genius.com/f727dfc7b28
942c59cd6695d9a2dcf2c.300x300x1.jpg',
   'header image url': 'https://images.genius.com/f727dfc7b28942c59cd66
95d9a2dcf2c.1000x1000x1.jpg',
   'id': 98664,
   'lyrics owner id': 779,
```

```
'lyrics_state': 'complete',
   'path': '/Bob-dylan-all-along-the-watchtower-lyrics',
   'pyongs count': 42,
   'song art image thumbnail url': 'https://images.genius.com/40169c4a8
6e479f32e7a44e3ae4d85d4.300x300x1.jpg',
   'song_art_image_url': 'https://images.genius.com/40169c4a86e479f32e7
a44e3ae4d85d4.320x320x1.jpg',
   'stats': {'unreviewed annotations': 0, 'hot': False, 'pageviews': 38
8318},
   'title': 'All Along the Watchtower',
   'title with featured': 'All Along the Watchtower',
   'url': 'https://genius.com/Bob-dylan-all-along-the-watchtower-lyric
   'primary_artist': {'api_path': '/artists/181',
    'header image url': 'https://images.genius.com/facc753d420efc53bbe1
e0b63a72d70b.960x719x1.jpg',
    'id': 181,
    'image url': 'https://images.genius.com/22306423b6ad8777d1ed5b33ad8
b0d0b.1000x1000x1.jpg',
    'is meme verified': False,
    'is verified': False,
    'name': 'Bob Dylan',
    'url': 'https://genius.com/artists/Bob-dylan'}},
  { 'annotation_count': 24,
   'api_path': '/songs/54784',
   'artist names': 'Bob Dylan',
   'full title': 'Like a Rolling Stone by\xa0Bob\xa0Dylan',
   'header image thumbnail url': 'https://images.genius.com/5de9704b9bd
8773ddbcb1de962f62386.300x300x1.jpg',
   'header image url': 'https://images.genius.com/5de9704b9bd8773ddbcb1
de962f62386.1000x1000x1.jpg',
   'id': 54784,
   'lyrics owner id': 7,
   'lyrics state': 'complete',
   'path': '/Bob-dylan-like-a-rolling-stone-lyrics',
   'pyongs count': 63,
   'song art image thumbnail url': 'https://images.rapgenius.com/ea5vrn
a5a2wk2egyrrolaf40c.300x299x1.jpg',
   'song art image url': 'https://images.rapgenius.com/ea5vrna5a2wk2egy
rrolaf40c.320x319x1.jpg',
   'stats': {'unreviewed annotations': 8, 'hot': False, 'pageviews': 36
1334},
   'title': 'Like a Rolling Stone',
   'title with featured': 'Like a Rolling Stone',
   'url': 'https://genius.com/Bob-dylan-like-a-rolling-stone-lyrics',
   'primary artist': { 'api path': '/artists/181',
    'header image url': 'https://images.genius.com/facc753d420efc53bbe1
e0b63a72d70b.960x719x1.jpg',
    'id': 181,
    'image_url': 'https://images.genius.com/22306423b6ad8777d1ed5b33ad8
b0d0b.1000x1000x1.jpg',
    'is meme verified': False,
    'is verified': False,
    'name': 'Bob Dylan',
    'url': 'https://genius.com/artists/Bob-dylan'}},
  { 'annotation count': 7,
   'api path': '/songs/103982',
```

```
'artist_names': "Guns N' Roses (Ft. \u200bThe Waters)",
   'full_title': "Knockin' on Heaven's Door by\xa0Guns\xa0N' Roses (F
t.\xa0\u200bThe\xa0Waters)",
   'header image thumbnail url': 'https://images.genius.com/cb261455009
8bf753ab31c1f4a758686.300x300x1.jpg',
   'header_image_url': 'https://images.genius.com/cb2614550098bf753ab31
c1f4a758686.770x770x1.jpg',
   'id': 103982,
   'lyrics_owner_id': 168784,
   'lyrics state': 'complete',
   'path': '/Guns-n-roses-knockin-on-heavens-door-lyrics',
   'pyongs_count': 31,
   'song art image thumbnail url': 'https://images.genius.com/cb2614550
098bf753ab31c1f4a758686.300x300x1.jpg',
   'song art image url': 'https://images.genius.com/cb2614550098bf753ab
31c1f4a758686.770x770x1.jpg',
   'stats': {'unreviewed annotations': 1,
    'concurrents': 2,
    'hot': False,
    'pageviews': 360870},
   'title': 'Knockin' on Heaven's Door',
   'title_with_featured': 'Knockin' on Heaven's Door (Ft.\xa0\u200bThe
\xa0Waters)',
   'url': 'https://genius.com/Guns-n-roses-knockin-on-heavens-door-lyri
cs',
    primary_artist': {'api_path': '/artists/637',
    'header image url': 'https://images.genius.com/6f9f5a6fb2f049bb3c02
f890a7a0a436.800x504x1.jpg',
    'id': 637,
    'image url': 'https://images.genius.com/53ddc7640957b4279d9c234ab20
0adf4.1000x1000x1.jpg',
    'is meme verified': False,
    'is verified': False,
    'name': 'Guns N' Roses',
    'url': 'https://genius.com/artists/Guns-n-roses'}},
  { 'annotation count': 10,
   'api_path': '/songs/63341',
   'artist names': 'The Jimi Hendrix Experience',
   'full title': 'All Along the Watchtower by\xa0The\xa0Jimi Hendrix Ex
perience',
   'header image thumbnail url': 'https://images.genius.com/892e94dacb1
ac51070e55a7cffccf50a.300x300x1.jpg',
   'header_image_url': 'https://images.genius.com/892e94dacb1ac51070e55
a7cffccf50a.880x880x1.jpg',
   'id': 63341,
   'lyrics owner id': 31298,
   'lyrics state': 'complete',
   'path': '/The-jimi-hendrix-experience-all-along-the-watchtower-lyric
    pyongs count': 70,
   'song art image thumbnail url': 'https://images.genius.com/ff55dd642
026ce236b2488bb316bd98a.300x300x1.jpg',
   'song art image url': 'https://images.genius.com/ff55dd642026ce236b2
488bb316bd98a.1000x1000x1.jpg',
   'stats': {'unreviewed_annotations': 0, 'hot': False, 'pageviews': 31
9163},
   'title': 'All Along the Watchtower',
```

```
'title with featured': 'All Along the Watchtower',
   'url': 'https://genius.com/The-jimi-hendrix-experience-all-along-the
-watchtower-lyrics',
   'primary_artist': {'api_path': '/artists/634985',
    'header image url': 'https://images.genius.com/4a0926e479ac3a397a7e
43b97cf0ec4b.1000x486x1.jpg',
    'id': 634985,
    'image url': 'https://images.genius.com/06f36798cfdc89d29602f9726f9
e931d.450x308x1.jpg',
    'is meme verified': False,
    'is verified': False,
    'name': 'The Jimi Hendrix Experience',
    'url': 'https://genius.com/artists/The-jimi-hendrix-experience'}},
  { 'annotation count': 10,
   'api path': '/songs/84846',
   'artist_names': 'Bob Dylan',
   'full title': "Don't Think Twice, It's All Right by\xa0Bob\xa0Dyla
   'header_image_thumbnail_url': 'https://images.genius.com/afd28edb1b2
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b01b108c716.500x500x1.jpg',
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   'path': '/Bob-dylan-dont-think-twice-its-all-right-lyrics',
   'pyongs count': 27,
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   'song art image url': 'https://images.genius.com/afd28edb1b2d6d5d556
a7b01b108c716.500x500x1.jpg',
   'stats': {'unreviewed annotations': 5,
    'concurrents': 3,
    'hot': False,
    'pageviews': 305882},
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   'title with featured': "Don't Think Twice, It's All Right",
   'url': 'https://genius.com/Bob-dylan-dont-think-twice-its-all-right-
   'primary artist': {'api path': '/artists/181',
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    'id': 181,
    'image url': 'https://images.genius.com/22306423b6ad8777d1ed5b33ad8
b0d0b.1000x1000x1.jpg',
    'is meme verified': False,
    'is verified': False,
    'name': 'Bob Dylan',
    'url': 'https://genius.com/artists/Bob-dylan'}},
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   'artist names': 'Bob Dylan',
   'full_title': 'Make You Feel My Love by\xa0Bob\xa0Dylan',
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459710d0986b7b64de8f0.300x300x1.jpg',
   'header image url': 'https://images.genius.com/cd0a26733cc459710d098
6b7b64de8f0.1000x1000x1.jpg',
```

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   'lyrics owner id': 5307,
   'lyrics state': 'complete',
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   'pyongs count': 10,
   'song_art_image_thumbnail_url': 'https://images.genius.com/cd0a26733
cc459710d0986b7b64de8f0.300x300x1.jpg',
   'song art image url': 'https://images.genius.com/cd0a26733cc459710d0
986b7b64de8f0.1000x1000x1.jpg',
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4289},
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   'primary artist': {'api path': '/artists/181',
    'header_image_url': 'https://images.genius.com/facc753d420efc53bbe1
e0b63a72d70b.960x719x1.jpg',
    'id': 181,
    'image_url': 'https://images.genius.com/22306423b6ad8777d1ed5b33ad8
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    'url': 'https://genius.com/artists/Bob-dylan'}},
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   'header image url': 'https://images.genius.com/2ae7853a0fc26b8340ceb
ea32df652ca.600x600x1.jpg',
   'id': 87402,
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   'lyrics state': 'complete',
   'path': '/Bob-dylan-hurricane-lyrics',
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   'song art image url': 'https://images.genius.com/2df91ca57456e44cf67
e1d30d25bb701.567x566x1.jpg',
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1024},
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   'primary_artist': { 'api_path': '/artists/181',
    'header image url': 'https://images.genius.com/facc753d420efc53bbe1
e0b63a72d70b.960x719x1.jpg',
    'id': 181,
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b0d0b.1000x1000x1.jpg',
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    'is_verified': False,
    'name': 'Bob Dylan',
    'url': 'https://genius.com/artists/Bob-dylan'}},
  { 'annotation count': 19,
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'api_path': '/songs/75446',
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   'full title': 'Mr. Tambourine Man by\xa0Bob\xa0Dylan',
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a8e726359e0335bcff19c.300x300x1.jpg',
   'header_image_url': 'https://images.genius.com/2fb972dceb4a8e726359e
0335bcff19c.1000x1000x1.jpg',
   'id': 75446,
   'lyrics owner id': 74226,
   'lyrics state': 'complete',
   'path': '/Bob-dylan-mr-tambourine-man-lyrics',
   'pyongs_count': 24,
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   'song_art_image_url': 'https://images.genius.com/2fb972dceb4a8e72635
9e0335bcff19c.1000x1000x1.jpg',
   'stats': {'unreviewed annotations': 1, 'hot': False, 'pageviews': 22
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   'title': 'Mr. Tambourine Man',
   'title with featured': 'Mr. Tambourine Man',
   'url': 'https://genius.com/Bob-dylan-mr-tambourine-man-lyrics',
   'primary_artist': { 'api_path': '/artists/181',
    'header image url': 'https://images.genius.com/facc753d420efc53bbel
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    'id': 181,
    'image url': 'https://images.genius.com/22306423b6ad8777d1ed5b33ad8
b0d0b.1000x1000x1.jpg',
    'is meme verified': False,
    'is verified': False,
    'name': 'Bob Dylan',
    'url': 'https://genius.com/artists/Bob-dylan'}},
  { 'annotation count': 36,
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   'artist names': 'Bob Dylan',
   'full title': "A Hard Rain's A-Gonna Fall by\xa0Bob\xa0Dylan",
   'header image thumbnail url': 'https://images.genius.com/afd28edb1b2
d6d5d556a7b01b108c716.300x300x1.jpg',
   'header image url': 'https://images.genius.com/afd28edb1b2d6d5d556a7
b01b108c716.500x500x1.jpg',
   'id': 105186,
   'lyrics owner id': 16,
   'lyrics state': 'complete',
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   'pyongs count': 24,
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b2d6d5d556a7b01b108c716.300x300x1.jpg',
   'song art image url': 'https://images.genius.com/afd28edb1b2d6d5d556
a7b01b108c716.500x500x1.jpg',
   'stats': {'unreviewed annotations': 8, 'hot': False, 'pageviews': 19
3086},
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   'title with featured': "A Hard Rain's A-Gonna Fall",
   'url': 'https://genius.com/Bob-dylan-a-hard-rains-a-gonna-fall-lyric
    primary_artist': {'api_path': '/artists/181',
    'header image url': 'https://images.genius.com/facc753d420efc53bbe1
e0b63a72d70b.960x719x1.jpg',
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    'is meme verified': False,
    'is_verified': False,
    'name': 'Bob Dylan',
    'url': 'https://genius.com/artists/Bob-dylan'}},
  { 'annotation count': 14,
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   'full title': 'Wagon Wheel by\xa0Darius\xa0Rucker',
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73a8a004af02b79495487.300x300x1.jpg',
   'header_image_url': 'https://images.genius.com/71f204d1ae373a8a004af
02b79495487.600x600x1.jpg',
   'id': 154239,
   'lyrics owner id': 10380,
   'lyrics_state': 'complete',
   'path': '/Darius-rucker-wagon-wheel-lyrics',
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   'song art image url': 'https://images.genius.com/2dae9fa1d992ffefce2
720300bb53840.300x300x1.jpg',
   'stats': {'unreviewed_annotations': 0, 'hot': False, 'pageviews': 18
6971},
   'title': 'Wagon Wheel',
   'title_with_featured': 'Wagon Wheel',
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    'header_image_url': 'https://images.genius.com/6a629cf1a4b6fec5b21a
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    'id': 21867,
    'image url': 'https://images.genius.com/0fc3950433f07df236e4337d78c
09551.400x400x1.jpg',
    'is meme verified': False,
    'is_verified': False,
    'name': 'Darius Rucker',
    'url': 'https://genius.com/artists/Darius-rucker'}},
  { 'annotation count': 19,
   'api path': '/songs/224',
   'artist names': 'Bob Dylan',
   'full_title': 'Subterranean Homesick Blues by\xa0Bob\xa0Dylan',
   'header image thumbnail url': 'https://images.genius.com/2fb972dceb4
a8e726359e0335bcff19c.300x300x1.jpg',
   'header image url': 'https://images.genius.com/2fb972dceb4a8e726359e
0335bcff19c.1000x1000x1.jpg',
   'id': 224,
   'lyrics owner id': 4,
   'lyrics state': 'complete',
   'path': '/Bob-dylan-subterranean-homesick-blues-lyrics',
   'pyongs count': 36,
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   'song art image url': 'https://images.genius.com/2fb972dceb4a8e72635
9e0335bcff19c.1000x1000x1.jpg',
   'stats': {'unreviewed annotations': 1,
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'concurrents': 2,
    'hot': False,
    'pageviews': 171532},
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   'url': 'https://genius.com/Bob-dylan-subterranean-homesick-blues-lyr
ics',
   'primary artist': { 'api path': '/artists/181',
    'header_image_url': 'https://images.genius.com/facc753d420efc53bbe1
e0b63a72d70b.960x719x1.jpg',
    'id': 181,
    'image_url': 'https://images.genius.com/22306423b6ad8777d1ed5b33ad8
b0d0b.1000x1000x1.jpg',
    'is meme verified': False,
    'is verified': False,
    'name': 'Bob Dylan',
    'url': 'https://genius.com/artists/Bob-dylan'}},
  { 'annotation_count': 57,
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   'artist names': 'Bob Dylan',
   'full title': 'Desolation Row by\xa0Bob\xa0Dylan',
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   'header_image_url': 'https://images.genius.com/5de9704b9bd8773ddbcb1
de962f62386.1000x1000x1.jpg',
   'id': 92350,
   'lyrics owner id': 145715,
   'lyrics state': 'complete',
   'path': '/Bob-dylan-desolation-row-lyrics',
   'pyongs count': 14,
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   'song art image url': 'https://images.genius.com/5de9704b9bd8773ddbc
b1de962f62386.1000x1000x1.jpg',
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   'title': 'Desolation Row',
   'title with featured': 'Desolation Row',
   'url': 'https://genius.com/Bob-dylan-desolation-row-lyrics',
   'primary artist': {'api path': '/artists/181',
    'header image url': 'https://images.genius.com/facc753d420efc53bbe1
e0b63a72d70b.960x719x1.jpg',
    'id': 181,
    'image url': 'https://images.genius.com/22306423b6ad8777d1ed5b33ad8
b0d0b.1000x1000x1.jpg',
    'is meme verified': False,
    'is verified': False,
    'name': 'Bob Dylan',
    'url': 'https://genius.com/artists/Bob-dylan'}},
  { 'annotation count': 24,
   'api path': '/songs/118799',
   'artist names': 'Bob Dylan',
   'full title': 'Tangled Up in Blue by\xa0Bob\xa0Dylan',
   'header image thumbnail url': 'https://images.genius.com/9146ba54ed0
6288f10b296cd5d888781.300x300x1.jpg',
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'id': 118799,
   'lyrics_owner_id': 1850,
   'lyrics state': 'complete',
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   'song_art_image_thumbnail_url': 'https://images.genius.com/9146ba54e
d06288f10b296cd5d888781.300x300x1.jpg',
   'song art image url': 'https://images.genius.com/9146ba54ed06288f10b
296cd5d888781.500x500x1.jpg',
   'stats': {'unreviewed annotations': 3, 'hot': False, 'pageviews': 15
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   'title': 'Tangled Up in Blue',
   'title with featured': 'Tangled Up in Blue',
   'url': 'https://genius.com/Bob-dylan-tangled-up-in-blue-lyrics',
   'primary artist': {'api path': '/artists/181',
    'header_image_url': 'https://images.genius.com/facc753d420efc53bbe1
e0b63a72d70b.960x719x1.jpg',
    'id': 181,
    'image_url': 'https://images.genius.com/22306423b6ad8777d1ed5b33ad8
b0d0b.1000x1000x1.jpg',
    'is meme verified': False,
    'is_verified': False,
    'name': 'Bob Dylan',
    'url': 'https://genius.com/artists/Bob-dylan'}},
  { 'annotation_count': 6,
   'api_path': '/songs/199531',
   'artist names': 'Bob Dylan',
   'full title': 'Knockin' on Heaven's Door by\xa0Bob\xa0Dylan',
   'header image thumbnail url': 'https://images.rapgenius.com/328b31b5
fe67895fae2718b09d70a4a1.300x300x1.jpg',
   'header_image_url': 'https://images.rapgenius.com/328b31b5fe67895fae
2718b09d70a4a1.500x500x1.jpg',
   'id': 199531,
   'lyrics owner id': 225680,
   'lyrics state': 'complete',
   'path': '/Bob-dylan-knockin-on-heavens-door-lyrics',
   'pyongs count': 15,
   'song art image thumbnail url': 'https://images.genius.com/e0a7ce8aa
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   'song art image url': 'https://images.genius.com/e0a7ce8aae657ee022f
141e82efa8891.500x498x1.jpg',
   'stats': {'unreviewed annotations': 2,
    'concurrents': 2,
    'hot': False,
    'pageviews': 138391},
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   'title with featured': 'Knockin' on Heaven's Door',
   'url': 'https://genius.com/Bob-dylan-knockin-on-heavens-door-lyric
    primary_artist': {'api_path': '/artists/181',
    'header image url': 'https://images.genius.com/facc753d420efc53bbel
e0b63a72d70b.960x719x1.jpg',
    'id': 181,
    'image url': 'https://images.genius.com/22306423b6ad8777d1ed5b33ad8
b0d0b.1000x1000x1.jpg',
    'is meme verified': False,
    'is verified': False,
```

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'name': 'Bob Dylan',
    'url': 'https://genius.com/artists/Bob-dylan'}},
  { 'annotation count': 27,
   'api_path': '/songs/62628',
   'artist_names': 'Bob Dylan',
   'full_title': 'Masters of War by\xa0Bob\xa0Dylan',
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d6d5d556a7b01b108c716.300x300x1.jpg',
   'header_image_url': 'https://images.genius.com/afd28edb1b2d6d5d556a7
b01b108c716.500x500x1.jpg',
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   'lyrics_owner_id': 49202,
   'lyrics state': 'complete',
   'path': '/Bob-dylan-masters-of-war-lyrics',
   'pyongs count': 19,
   'song_art_image_thumbnail_url': 'https://images.genius.com/afd28edb1
b2d6d5d556a7b01b108c716.300x300x1.jpg',
   'song_art_image_url': 'https://images.genius.com/afd28edb1b2d6d5d556
a7b01b108c716.500x500x1.jpg',
   'stats': {'unreviewed annotations': 2, 'hot': False, 'pageviews': 13
5904},
   'title': 'Masters of War',
   'title with featured': 'Masters of War',
   'url': 'https://genius.com/Bob-dylan-masters-of-war-lyrics',
   'primary_artist': {'api_path': '/artists/181',
    'header image url': 'https://images.genius.com/facc753d420efc53bbe1
e0b63a72d70b.960x719x1.jpg',
    'id': 181,
    'image url': 'https://images.genius.com/22306423b6ad8777d1ed5b33ad8
b0d0b.1000x1000x1.jpg',
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    'is verified': False,
    'name': 'Bob Dylan',
    'url': 'https://genius.com/artists/Bob-dylan'}}],
 'next page': 2}
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```
In [55]: # These are all the data for one song
songs = json_data['response']['songs']
songs[:2]
```

```
Out[55]: [{'annotation count': 16,
            'api_path': '/songs/96286',
           'artist names': 'USA For Africa',
           'full title': 'We Are the World by\xa0USA\xa0For Africa',
           'header image thumbnail url': 'https://images.genius.com/9b0683e7bbd3
         567ac6f9c72b81a55a0a.300x169x1.jpg',
            'header_image_url': 'https://images.genius.com/9b0683e7bbd3567ac6f9c7
         2b81a55a0a.640x360x1.jpg',
           'id': 96286,
           'lyrics owner id': 4733728,
           'lyrics state': 'complete',
           'path': '/Usa-for-africa-we-are-the-world-lyrics',
           'pyongs count': 34,
           'song art image thumbnail url': 'https://images.genius.com/51f9de13b1
         cb0010adb6b5c1d70a5bc1.300x300x1.jpg',
            'song_art_image_url': 'https://images.genius.com/51f9de13b1cb0010adb6
         b5c1d70a5bc1.1000x1000x1.jpg',
           'stats': {'unreviewed annotations': 1, 'hot': False, 'pageviews': 482
         894},
           'title': 'We Are the World',
           'title with featured': 'We Are the World',
           'url': 'https://genius.com/Usa-for-africa-we-are-the-world-lyrics',
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             'header image url': 'https://images.genius.com/3fb2d9f68c911b5473399
         b97ef9427e6.768x768x1.jpg',
             'id': 370890,
            'image url': 'https://images.genius.com/3fb2d9f68c911b5473399b97ef94
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            'is verified': False,
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             'url': 'https://genius.com/artists/Usa-for-africa'}},
          { 'annotation count': 125,
            'api path': '/songs/5393247',
           'artist names': 'Bob Dylan',
           'full title': 'Murder Most Foul by\xa0Bob\xa0Dylan',
           'header image thumbnail url': 'https://images.genius.com/7fbaf838ffdf
         99315408faa29cb566ac.300x300x1.jpg',
            'header image url': 'https://images.genius.com/7fbaf838ffdf99315408fa
         a29cb566ac.1000x1000x1.jpg',
           'id': 5393247,
           'lyrics owner id': 3360167,
           'lyrics state': 'complete',
           'path': '/Bob-dylan-murder-most-foul-lyrics',
           'pyongs count': 36,
           'song art image thumbnail url': 'https://images.genius.com/7fbaf838ff
         df99315408faa29cb566ac.300x300x1.jpg',
            'song art image url': 'https://images.genius.com/7fbaf838ffdf99315408
         faa29cb566ac.1000x1000x1.jpg',
            'stats': {'unreviewed_annotations': 38, 'hot': False, 'pageviews': 47
         7823},
           'title': 'Murder Most Foul',
           'title with featured': 'Murder Most Foul',
           'url': 'https://genius.com/Bob-dylan-murder-most-foul-lyrics',
           'primary_artist': { 'api_path': '/artists/181',
             'header image url': 'https://images.genius.com/facc753d420efc53bbele
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'id': 181,
             'image_url': 'https://images.genius.com/22306423b6ad8777d1ed5b33ad8b
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            'is meme verified': False,
            'is_verified': False,
            'name': 'Bob Dylan',
            'url': 'https://genius.com/artists/Bob-dylan'}}]
In [56]: # As shown above, loop through the data, and pick up title
         # Place holder to append title
         dylan_songs = []
         for song in songs:
             dylan_songs.append(song['title'])
             #Make a Pandas dataframe from a list
             dylan songs df = pd.DataFrame(dylan songs)
             dylan_songs_df.columns = ['title']
         # Display the dataframe
         dylan_songs_df.head(20)
```

Out[56]:

0

title

We Are the World

1	Murder Most Foul
2	Blowin' in the Wind
3	Make You Feel My Love
4	The Times They Are A-Changin'
5	All Along the Watchtower
6	Like a Rolling Stone
7	Knockin' on Heaven's Door
8	All Along the Watchtower
9	Don't Think Twice, It's All Right
10	Make You Feel My Love
11	Hurricane
12	Mr. Tambourine Man
13	A Hard Rain's A-Gonna Fall
14	Wagon Wheel
15	Subterranean Homesick Blues
16	Desolation Row
17	Tangled Up in Blue
18	Knockin' on Heaven's Door
19	Masters of War

Install and import the lyricsgenius library in Python, which is a wrapper around requests that works specifically with the Genius API. Follow the guide on the GitHub repository for this library (https://github.com/johnwmillr/LyricsGenius (https://github.com/johnwmillr/LyricsGenius)) for instructions on using the library. Use the lyricsgenius library to download and display the lyrics to "Tangled Up in Blue" by Bob Dylan. [4 points]

```
In [57]: #!pip install lyricsgenius
In [58]: import lyricsgenius
In [59]: # Example of looking up songs by the artist name:
    genius = lyricsgenius.Genius(ClientAccess)
    artist = genius.search_artist("Bob Dylan", max_songs=2, sort="title")
    Searching for songs by Bob Dylan...
    Song 1: "10,000 Men"
    Song 2: "2 X 2"
    Reached user-specified song limit (2).
    Done. Found 2 songs.
```

```
In [60]: # Pulling lyrics of a specific song:
    song = genius.search_song("Tangled Up in Blue", artist.name)
    print(song.lyrics)
```

Searching for "Tangled Up in Blue" by Bob Dylan... Done. Tangled Up in Blue Lyrics[Verse 1] Early one morning the sun was shining I was laying in bed Wondering if she'd changed at all If her hair was still red Her folks they said our lives together Sure was going to be rough They never did like Mama's homemade dress Papa's bankbook wasn't big enough And I was standing on the side of the road Rain falling on my shoes Heading out for the East Coast Lord knows I've paid some dues Getting through Tangled up in blue

[Verse 2]

She was married when we first met Soon to be divorced I helped her out of a jam, I guess But I used a little too much force We drove that car as far as we could Abandoned it out West Split up on a dark sad night Both agreeing it was best She turned around to look at me As I was walking away I heard her say over my shoulder "We'll meet again someday On the avenue" Tangled up in blue [Verse 3] I had a job in the great north woods Working as a cook for a spell But I never did like it all that much And one day the ax just fell So I drifted down to New Orleans Where I lucky was to be employed Working for a while on a fishing boat Right outside of Delacroix But all the while I was alone The past was close behind I seen a lot of women But she never escaped my mind And I just grew Tangled up in blue

[Verse 4]

She was working in a topless place
And I stopped in for a beer
I just kept looking at the side of her face
In the spotlight, so clear
And later on, when the crowd thinned out
I was just about to do the same
She was standing there, in back of my chair

Said, "Tell me, don't I know your name?" I muttered something underneath my breath She studied the lines on my face I must admit, I felt a little uneasy When she bent down to tie the laces Of my shoe Tangled up in blue [Verse 5] She lit a burner on the stove And offered me a pipe "I thought you'd never say hello," she said "You look like the silent type" Then she opened up a book of poems And handed it to me Written by an Italian poet From the thirteenth century And every one of them words rang true And glowed like burning coal Pouring off of every page Like it was written in my soul From me to you Tangled up in blue

[Verse 6]

I lived with them on Montague Street In a basement down the stairs There was music in the cafes at night And revolution in the air Then he started into dealing with slaves And something inside of him died She had to sell everything she owned And froze up inside And when it finally, the bottom fell out I became withdrawn The only thing I knew how to do Was to keep on keeping on Like a bird that flew Tangled up in blue [Verse 7] So now I'm going back again I got to get to her somehow All the people we used to know They're an illusion to me now Some are mathematicians Some are carpenter's wives Don't know how it all got started I don't know what they're doing with their lives But me, I'm still on the road A-heading for another joint We always did feel the same We just saw it from a different point Of view Tangled up in blue24Embed