Pop Punk Song Search Self-Evaluation

- 1. Have you completed what you have planned?
 - a. I have completed what I planned for the most part. I built a Vector Space Model using a corpus of Pop-Punk song lyrics from the most popular Pop-Punk artists of the past 20 years. I was also able to build an HTML-based GUI that allows users to interact with the VSM.
 - b. One limitation I had that I did not originally plan on was only using the top 20 most popular songs by each artist that I included in the corpus. When planning this project out, I had initially thought I would include each artist's entire discography. However, due to an issue with the Genius API erroring out pretty regularly, I determined that this would not be possible and had to limit my corpus scope.
 - c. I also diverged from a few of the Python libraries I had originally set out to use. To pull song lyrics, I originally planned on using lyrics-corpora; however, as stated in my progress report, that library turned out to be very buggy and not usable, so I leveraged lyricsgenius instead. Additionally, for the front-end search, I initially wanted to leverage Dash, as this was the only front-end Python library I had heard of. However, I quickly learned that Dash is more for displaying data-based dashboards, and my use case did not seem applicable for it. So, I used the Flask Python library instead.
- Have you got the expected outcome? If not, discuss why.
 - a. The vector space model does perform reasonably well. In all ten test cases, the VSM did return the expected song in the top 4 best matches, although it was more uncommon to see the expected song as the #1 match. There are definitely ways that I could have improved its performance, like building the VSM corpus with n-gram phrases rather than just Bag-of-Words. However, that did not look possible to implement through Gensim, so I decided to keep the simpler BoW implementation. Overall, I am happy with the performance.