

**Project Progress Report**  
**Team: Who's That Artist?!**

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- *Which tasks have been completed?*
  - At this point in time (Week 12), our team has successfully managed to pull information from the Spotify and Genius APIs and refactor the data we receive into a palatable format.
  - Our code currently generates and saves audio features, courtesy of Spotify. It compiles the many numbers across an artist's most popular songs and compiles an output based on the general trend of the music.
  - From Genius, our code fetches the queried artist's song lyrics of their most popular songs, cleans and preprocesses the text using natural language processing packages and approaches, and analyzes the results to create summaries of their most prominent features, like polarity through sentiment analysis and common topics through topic modeling with Bayesian networks.
  - We have a very basic locally hosted Dash web app that properly enables an artist name search. It also has the basic widgets that are needed when the user runs the dash app.
  
- *Which tasks are pending?*
  - We are currently in the midst of integrating the code leveraging and analyzing the information from our APIs into a Dash web app. We have yet to fully connect both APIs to the dashboard and have not made any significant changes to the UI. Upcoming changes and decisions would involve creating effective visualizations of our results, incorporating meaningful summaries of qualitative data, and having explanations of potentially unfamiliar terms for users.
  - Documentation of our code and a tutorial presentation remains incomplete at this time. We intend to have a detailed README and requirements file so reviewers will be able to easily set up the application in their preferred environment.
  - We will continue testing and refining our musical and lyrical analysis as necessary until the deadline to present the best possible results.
  - We are also considering how to make the interface of the dash most user friendly. Right now, the dash is still in a very fundamental and simple design which has only the necessary widgets to run. If time allows, we can add other enhancements in the dash such as dropdown or slidebars if needed.

- *Are you facing any challenges?*
  - We are currently experiencing some issues with our implementation of Dash and its relationship to the Genius API. While the script runs smoothly for some team members, others are unable to generate a proper response using the Genius API through Dash, and we are currently trying to debug this inconsistency issue. At this stage, we are not planning on performing a live and online deployment of our application, so it is important that our code is consistently reproducible on different platforms.