# Assignment 7

Due Date: April 24, 2018 at 7:00 PM

#### Overview

This assignment will be worth 9% of your total grade. The goal of this project is to integrate multiple topics in the course to create a web scraper.

## **Specifications**

For this assignment, you will need to understand the requests, cheerio, and nodemailer modules to parse an HTML webpage and email specific parts to an end-user.

### Artist Email-Scraper

Create a file called artists.js (or a node project) that will scrape the provided url: https://www.billboard.com/charts/rap-song and send an email of all artists & songs that are sung by the specified artists given via the command line.

#### Requirements:

- The specified artists must be read in via the command line
- If no artist(s) are specified do not send an email
- If the specified artist(s) are not found on the website, do not send an email
- If the specified artist(s) are found on the website:
  - Send an email from an email account of your choice, to an email account of your choice (when I am testing this, I will input my own accounts for this portion)
  - The subject will be: "Your artist(s) are: " followed by a list of the artist(s). Be sure to format this portion correctly i.e. if the user specifies node artists Drake Migos xxxtentacion your subject should be: Your artists are: Migos, Drake, and xxxtentacion
  - The email format should be the artist in **bold** and the song name in *italics*, see below

#### Things to note:

- Be careful when making too many requests to a website, there is a possibility of being rate-limited
- Don't worry about case, it's up to the user to ensure spelling and proper casing
- Don't worry about artists that have more than one word in their name i.e. Cardi B and Post Malone. Although we love them, it makes it tricky when reading from the command line
- If the artist is included as a feature, please include that as a song i.e. if searching for Migos, please include the track **Gucci Mane Featuring Migos**: I Get The Bag
- Feel free to create a test Gmail account as a sender, it makes life much easier just so you don't have to fiddle with your security settings

## Submission

Please submit the following on Blackboard:

• artists.js

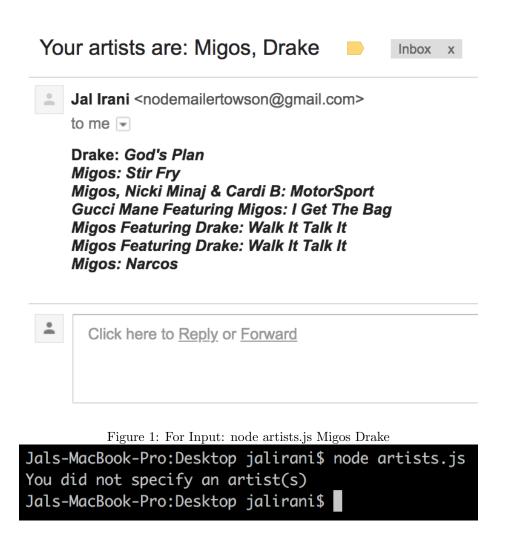


Figure 2: If no artist is specified