

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

Your artists are: Migos, Drake



Inbox x



Jal Irani <nodemailertowson@gmail.com>

to me ▾

Drake: God's Plan

Migos: Stir Fry

Migos, Nicki Minaj & Cardi B: MotorSport

Gucci Mane Featuring Migos: I Get The Bag

Migos Featuring Drake: Walk It Talk It

Migos Featuring Drake: Walk It Talk It

Migos: Narcos



Click here to [Reply](#) or [Forward](#)

Figure 1: For Input: node artists.js Migos Drake

```
Jals-MacBook-Pro:Desktop jalirani$ node artists.js
You did not specify an artist(s)
Jals-MacBook-Pro:Desktop jalirani$
```

Figure 2: If no artist is specified