

Lab 2

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Question 1

<https://github.com/bryanchrist/lab2>

Question 2

```
In [2]: import pandas as pd
import numpy as np
import requests
from bs4 import BeautifulSoup
import collections
collections.Callable = collections.abc.Callable
import os
import json
```

```
In [11]: data_clean = pd.read_csv("data/data_clean.csv")
data_clean.head()
```

Out[11]:

	Country	Happiness score	Whisker-high	Whisker-low	Dystopia (1.92) + residual	Explained by: GDP per capita	Explained by: Social support	Explained by: Healthy life expectancy	Ex
0	Finland	7.632	7.695	7.569	2.595	1.305	1.592	0.874	
1	Norway	7.594	7.657	7.530	2.383	1.456	1.582	0.861	
2	Denmark	7.555	7.623	7.487	2.370	1.351	1.590	0.868	
3	Iceland	7.495	7.593	7.398	2.426	1.343	1.644	0.914	
4	Switzerland	7.487	7.570	7.405	2.320	1.420	1.549	0.927	

```
In [12]: data1 = pd.read_csv("data/data1.csv", header=2)
data1.head()
```

Out[12]:

	Country	Happiness score	Whisker-high	Whisker-low	Dystopia (1.92) + residual	Explained by: GDP per capita	Explained by: Social support	Explained by: Healthy life expectancy	Ex
0	Finland	7.632	7.695	7.569	2.595	1.305	1.592	0.874	
1	Norway	7.594	7.657	7.530	2.383	1.456	1.582	0.861	
2	Denmark	7.555	7.623	7.487	2.370	1.351	1.590	0.868	
3	Iceland	7.495	7.593	7.398	2.426	1.343	1.644	0.914	
4	Switzerland	7.487	7.570	7.405	2.320	1.420	1.549	0.927	

```
In [15]: data2 = pd.read_csv("data/data2.txt", header= 2, comment= "/" )
data2.head()
```

Out[15]:

	Country	Happiness score	Whisker-high	Whisker-low	Dystopia (1.92) + residual	Explained by: GDP per capita	Explained by: Social support	Explained by: Healthy life expectancy	Ex
0	Finland	7.632	7.695	7.569	2.595	1.305	1.592	0.874	
1	Norway	7.594	7.657	7.530	2.383	1.456	1.582	0.861	
2	Denmark	7.555	7.623	7.487	2.370	1.351	1.590	0.868	
3	Iceland	7.495	7.593	7.398	2.426	1.343	1.644	0.914	
4	Switzerland	7.487	7.570	7.405	2.320	1.420	1.549	0.927	

```
In [314... data3 = pd.read_csv("data/data3.txt", header=2, sep="\t")
data3.head()
```

Out[314]:

	Country	Happiness score	Whisker-high	Whisker-low	Dystopia (1.92) + residual	Explained by: GDP per capita	Explained by: Social support	Explained by: Healthy life expectancy	E
0	Finland	7.632	7.695	7.569	2.595	1.305	1.592	0.874	
1	Norway	7.594	7.657	7.530	2.383	1.456	1.582	0.861	
2	Denmark	7.555	7.623	7.487	2.370	1.351	1.590	0.868	
3	Iceland	7.495	7.593	7.398	2.426	1.343	1.644	0.914	
4	Switzerland	7.487	7.570	7.405	2.320	1.420	1.549	0.927	

```
In [315... col_names = ['Country', 'Happiness Score', 'Whisker-high',
                'Whisker-low', 'Dystopia (1.92) + residual',
                'Explained by: GDP per capita', 'Explained by: Social support',
                'Explained by: Healthy life expectancy', 'Explained by: Freedom to
                'Explained by: Generosity', 'Explained by: Perceptions of corruptio
```

```
data4 = pd.read_csv("data/data4.txt", sep="$", header=None, names=col_names)
data4.head()
```

Out[315]:

	Country	Happiness Score	Whisker-high	Whisker-low	Dystopia (1.92) + residual	Explained by: GDP per capita	Explained by: Social support	Explained by: Healthy life expectancy
0	Finland	7.632	7.695	7.569	2.595	1.305	1.592	0.874
1	Norway	7.594	7.657	7.530	2.383	1.456	1.582	0.861
2	Denmark	7.555	7.623	7.487	2.370	1.351	1.590	0.868
3	Iceland	7.495	7.593	7.398	2.426	1.343	1.644	0.914
4	Switzerland	7.487	7.570	7.405	2.320	1.420	1.549	0.927

```
In [319... data5 = pd.read_csv("data/data5.csv", skipfooter=2, engine='python')
data5.head()
```

Out[319]:

	Country	Happiness score	Whisker-high	Whisker-low	Dystopia (1.92) + residual	Explained by: GDP per capita	Explained by: Social support	Explained by: Healthy life expectancy
0	Finland	7.632	7.695	7.569	2.595	1.305	1.592	0.874
1	Norway	7.594	7.657	7.530	2.383	1.456	1.582	0.861
2	Denmark	7.555	7.623	7.487	2.370	1.351	1.590	0.868
3	Iceland	7.495	7.593	7.398	2.426	1.343	1.644	0.914
4	Switzerland	7.487	7.570	7.405	2.320	1.420	1.549	0.927

```
In [320... data6 = pd.read_csv("data/data6.dat", na_values = 999)
data6.head()
```

Out[320]:

	Country	Happiness score	Whisker-high	Whisker-low	Dystopia (1.92) + residual	Explained by: GDP per capita	Explained by: Social support	Explained by: Healthy life expectancy
0	Finland	7.632	7.695	7.569	2.595	NaN	NaN	NaN
1	Norway	7.594	7.657	7.530	NaN	NaN	1.582	NaN
2	Denmark	7.555	7.623	7.487	2.370	1.351	1.590	NaN
3	Iceland	7.495	7.593	NaN	2.426	1.343	1.644	0.914
4	Switzerland	7.487	7.570	7.405	2.320	1.420	1.549	0.927

```
In [321... data7 = pd.read_excel("data/data7.xlsx", sheet_name="Data")
data7.head()
```

Out [321]:

	Country	Happiness score	Whisker-high	Whisker-low	Dystopia (1.92) + residual	Explained by: GDP per capita	Explained by: Social support	Explained by: Healthy life expectancy
0	Finland	7.632	7.695	7.569	2.595	1.305	1.592	0.874
1	Norway	7.594	7.657	7.530	2.383	1.456	1.582	0.861
2	Denmark	7.555	7.623	7.487	2.370	1.351	1.590	0.868
3	Iceland	7.495	7.593	7.398	2.426	1.343	1.644	0.914
4	Switzerland	7.487	7.570	7.405	2.320	1.420	1.549	0.927

```
In [322... data8 = pd.read_stata("data/data8.dta")
data8.columns = col_names
data8.head()
```

Out [322]:

	Country	Happiness Score	Whisker-high	Whisker-low	Dystopia (1.92) + residual	Explained by: GDP per capita	Explained by: Social support	Explained by: Healthy life expectancy
0	Finland	7.632	7.695	7.569	2.595	1.305	1.592	0.874
1	Norway	7.594	7.657	7.530	2.383	1.456	1.582	0.861
2	Denmark	7.555	7.623	7.487	2.370	1.351	1.590	0.868
3	Iceland	7.495	7.593	7.398	2.426	1.343	1.644	0.914
4	Switzerland	7.487	7.570	7.405	2.320	1.420	1.549	0.927

```
In [323... data9 = pd.read_spss("data/data9.sav")
data9.columns = col_names
data9.head()
```

Out [323]:

	Country	Happiness Score	Whisker-high	Whisker-low	Dystopia (1.92) + residual	Explained by: GDP per capita	Explained by: Social support	Explained by: Healthy life expectancy
0	Finland	7.632	7.695	7.569	2.595	1.305	1.592	0.874
1	Norway	7.594	7.657	7.530	2.383	1.456	1.582	0.861
2	Denmark	7.555	7.623	7.487	2.370	1.351	1.590	0.868
3	Iceland	7.495	7.593	7.398	2.426	1.343	1.644	0.914
4	Switzerland	7.487	7.570	7.405	2.320	1.420	1.549	0.927

```
In [324... data10 = pd.read_sas("data/data10.xpt")
data10.columns = col_names
data10.head()
```

Out [324]:

	Country	Happiness Score	Whisker-high	Whisker-low	Dystopia (1.92) + residual	Explained by: GDP per capita	Explained by: Social support	Explained by: Healthy life expectancy
0	b'Finland'	7.632	7.695	7.569	2.595	1.305	1.592	0.874
1	b'Norway'	7.594	7.657	7.530	2.383	1.456	1.582	0.861
2	b'Denmark'	7.555	7.623	7.487	2.370	1.351	1.590	0.868
3	b'Iceland'	7.495	7.593	7.398	2.426	1.343	1.644	0.914
4	b'Switzerland'	7.487	7.570	7.405	2.320	1.420	1.549	0.927

Question 3

```
In [254... nasa_api=os.environ['nasa_api']
useragent_url = 'https://httpbin.org/user-agent'
#website that exists to help you work with other APIs, generalized code that wo
r= requests.get(useragent_url)
useragent= json.loads(r.text)['user-agent']
#standard thing to put in HTTP header to let websites know what kind of system
#though not all websites require it
```

```
In [255... headers = {'X-API-Key': nasa_api,
            'User-Agent': useragent,
            'From': 'brc4cb@virginia.edu'}
#Headers are what we send API about ourselves, adds an email address so they ca
```

```
In [452... #Connect to API and verify connection
root = "https://api.nasa.gov"
start_date = "2022-09-24"
end_date = "2022-10-01"
endpoint = "/neo/rest/v1/feed"
params = "?start_date={START_DATE}&end_date={END_DATE}&api_key={API_KEY}".format
r = requests.get(root + endpoint + params,
                  headers = headers)
r
```

Out[452]: <Response [200]>

```
In [257... myjson = json.loads(r.text)
nasa1 = pd.json_normalize(myjson, record_path = ['near_earth_objects', '2022-10
nasa2 = pd.json_normalize(myjson, record_path = ['near_earth_objects', '2022-09
nasa3 = pd.json_normalize(myjson, record_path = ['near_earth_objects', '2022-09
nasa4 = pd.json_normalize(myjson, record_path = ['near_earth_objects', '2022-09
nasa5 = pd.json_normalize(myjson, record_path = ['near_earth_objects', '2022-09
nasa6 = pd.json_normalize(myjson, record_path = ['near_earth_objects', '2022-09
nasa7 = pd.json_normalize(myjson, record_path = ['near_earth_objects', '2022-09
nasa = pd.concat([nasa1, nasa2, nasa3, nasa4, nasa5, nasa6, nasa7], ignore_index=0)
nasa['close_approach_date'] = [d[0]['close_approach_date'] for d in nasa['close_
nasa
```

Out [257]:

	id	neo_reference_id	name	nasa_jpl_url	absolute_magnitude_h
0	3429684	3429684	(2008 TZ)	http://ssd.jpl.nasa.gov/sbdb.cgi?sstr=3429684	25.40
1	3548667	3548667	(2010 TX54)	http://ssd.jpl.nasa.gov/sbdb.cgi?sstr=3548667	20.98
2	3650847	3650847	(2013 TN127)	http://ssd.jpl.nasa.gov/sbdb.cgi?sstr=3650847	26.20
3	3772755	3772755	(2017 FT90)	http://ssd.jpl.nasa.gov/sbdb.cgi?sstr=3772755	26.20
4	3782015	3782015	(2017 SZ20)	http://ssd.jpl.nasa.gov/sbdb.cgi?sstr=3782015	24.50
...
73	3563343	3563343	(2011 GM62)	http://ssd.jpl.nasa.gov/sbdb.cgi?sstr=3563343	22.80
74	3827565	3827565	(2018 RN4)	http://ssd.jpl.nasa.gov/sbdb.cgi?sstr=3827565	22.70
75	54082291	54082291	(2020 UT6)	http://ssd.jpl.nasa.gov/sbdb.cgi?sstr=54082291	23.10
76	54088810	54088810	(2020 WK)	http://ssd.jpl.nasa.gov/sbdb.cgi?sstr=54088810	25.60
77	54194965	54194965	(2021 RW6)	http://ssd.jpl.nasa.gov/sbdb.cgi?sstr=54194965	23.75

78 rows x 18 columns

Question 4

Question 4 Part A: Scraping house prices of Zillow is not permitted, as they have disallowed scraping for every page of their website for all user-agents with a "/r/" under disallow, which is a regex pattern that captures all possible character combinations.

Question 4 Part B: Google does allow scraping of stock prices through Google Finance, as the following is found in an Allow section of their robots.txt file: "Allow: /finance." This would allow the user-agent to access any webpage with the finance backslash, which includes stock prices.

Question 4 Part C: Twitter would not allow access to web scrape who NBA players follow, as the following is found in a Disallow section of their robots.txt file: "Disallow: //following." *This would preclude anyone from scraping who any twitter user follows, as the captures all Twitter users and the /following blocks anyone from accessing the following backslash of the URL, which is the way to access who someone is following.*

Question 4 Part D: Genius allows webscraping of their songs. There is no specific Disallow statement that has a backslash having anything to do with the word "lyrics," so any user-agent is free to scrape their lyrics.

Question 5

```
In [453... #Sets URL and verifies it is correct
urltoscape = 'https://genius.com/Lizzo-good-as-hell-lyrics'
urltoscape
```

```
Out[453]: 'https://genius.com/Lizzo-good-as-hell-lyrics'
```

```
In [454... #connect to website and verify connection
r = requests.get(urltoscape,
                  headers = {'User-Agent': useragent,
                             'From': 'brc4cb@virginia.edu'})

myhtml = BeautifulSoup(r.text, 'html.parser')
r
```

```
Out[454]: <Response [200]>
```

```
In [456... #Pull lyrics to good as hell
lyrics = myhtml.find_all('div', "Lyrics__Container-sc-1ynbvzw-6 YYrds")[0].text
lyrics
```

```
Out[456]: "[Chorus]I do my hair toss, check my nailsBaby, how you feelin'? (Feelin' good as hell)Hair toss, check my nailsBaby, how you feelin'? (Feelin' good as hell)[Verse 1]Woo, child, tired of the bullshitGo on, dust your shoulders off, keep it movingYes, Lord, tryna get some new shitIn there, swimwear, going-to-the-pool shitCome now, come dry your eyesYou know you a star, you can touch the skyI know that it's hard, but you have to tryIf you need advice, let me simplify[Pre-Chorus]If he don't love you anymoreJust walk your fine ass out the door[Chorus]I do my hair toss, check my nailsBaby, how you feelin'? (Feelin' good as hell)Hair toss, check my nailsBaby, how you feelin'? (Feelin' good as hell)(Feeling good as hell)Baby, how you feelin'? (Feelin' good as hell)[Verse 2]Woo, girl, need to kick off your shoesGotta take a deep breath, time to focus on youAll the big fights, long nights that you been throughI got a bottle of tequila I been saving for youBoss up and change your lifeYou can have it all, no sacrificeI know he did you wrong, we can make it rightSo go and let it all hang out tonight[Pre-Chorus]'Cause he don't love you anymoreSo walk your fine ass out the door[Chorus]And do your hair toss, check my nailsBaby, how you feelin'? (Feelin' good as hell)Hair toss, check my nailsBaby, how you feelin'? (Feelin' good as hell) (Show it off tonight)Hair toss, check my nailsBaby, how you feelin'? (Feelin' good as hell) (And we gon' be alright)Hair toss, check my nailsBaby, how you feelin'? (Feelin' good as hell)[Pre-Chorus]Mmm, yeah, alrightListen, if he don't love you anymoreThen walk your fine ass out the door[Chorus]And do your hair toss, check my nailsBaby, how you feelin'? (Feelin' good as hell) (Woo-hoo)Hair toss, check my nailsBaby, how you feelin'? (Feelin' good as hell) (Show it off tonight)Hair toss, check my nailsBaby, how you feelin'? (Feelin' good as hell) (And we gon' make it right)Hair toss, check my nailsBaby, how you feelin'? (Feelin' good as hell)(Feelin' good as hell)Baby, how you feelin'? (Feelin' good as hell)"
```

```
In [448... #build scraper
def scrape_one_song(url):
    print('Now getting from ' + url)
    r = requests.get(url, headers = {'User-Agent': useragent, 'From': 'brc4cb@v
```

```

myhtml = BeautifulSoup(r.text, 'html.parser')
try:
    lyrics = myhtml.find_all('div', "Lyrics__Container-sc-1ynbvzw-6 YYrds")
    print(lyrics)
except:
    lyrics = myhtml.find_all('div', "Lyrics__Container-sc-1ynbvzw-6 YYrds")
    print(lyrics)

```

```

In [449... #create a url list
songlist = ['-cuz-i-love-you', '-like-a-girl', '-juice', '-soulmate', '-jerome',
            '-heaven-help-me', '-lingerie', '-boys', '-truth-hurts', '-water-me']
urllist = ['https://genius.com/Lizzo{i}-lyrics'.format(i=i) for i in songlist]

```

```

In [450... urllist
#ensure URLs are correct

```

```

Out[450]: ['https://genius.com/Lizzo-cuz-i-love-you-lyrics',
            'https://genius.com/Lizzo-like-a-girl-lyrics',
            'https://genius.com/Lizzo-juice-lyrics',
            'https://genius.com/Lizzo-soulmate-lyrics',
            'https://genius.com/Lizzo-jerome-lyrics',
            'https://genius.com/Lizzo-cry-baby-lyrics',
            'https://genius.com/Lizzo-tempo-lyrics',
            'https://genius.com/Lizzo-exactly-how-i-feel-lyrics',
            'https://genius.com/Lizzo-better-in-color-lyrics',
            'https://genius.com/Lizzo-heaven-help-me-lyrics',
            'https://genius.com/Lizzo-lingerie-lyrics',
            'https://genius.com/Lizzo-boys-lyrics',
            'https://genius.com/Lizzo-truth-hurts-lyrics',
            'https://genius.com/Lizzo-water-me-lyrics',
            'https://genius.com/Lizzo-good-as-hell-remix-lyrics']

```

```

In [451... #run the spider
songs = [scrape_one_song(u) for u in urllist]

```


Now getting from <https://genius.com/Lizzo-cuz-i-love-you-lyrics>

[Intro]I'm cryin' 'cause I love you, oh(Ya ya ya, ya ya, ya ya)[Verse 1]Never been in love beforeWhat the fuck are fucking feelings, yo?Once upon a time, I was a hoI don't even wanna ho no mo'Got you something from the liquor storeLit tle bit of Lizzo and some MoTryna open up a little mo'Sorry if my heart a little slow[Chorus]I thought that I didn't careI thought I was love-impairedBut baby, babyI don't know what I'm gon' doI'm cryin' 'cause I love you, ohYes, you (Ya ya, ya ya)[Verse 2]Got me standing in the rainGotta get my hair pressed againI would do it for you all, my friendReady, baby? Will you be my man?Wanna put you on a planeFly you out to wherever I amCatch you on the low, I was ashamedNow I'm crazy, 'bout to tat your name[Chorus]I thought that I didn't careI thought I was love-impairedBut baby, oh babyI don't know what I'm gon' doI'm cryin' 'cause I love you, yeahI'm cryin', hey[Chorus]I thought that I didn't careI thought I was love-impairedBut baby, babyI don't know what I'm gon' doI'm cryin' 'cause I love youOh yes, you[Outro]I'm cryin', I'm cryin', I'm cryin', ohI'm cryin' 'cause I love you

Now getting from <https://genius.com/Lizzo-like-a-girl-lyrics>

[Intro]Uh (Go)[Verse 1]Woke up feelin' like I just might run for PresidentEven if there ain't no precedent, switchin' up the messagingI'm about to add a little estrogenBuy my whip by myself, pay my rent by myselfOnly exes that I care about are in my fucking chromosomesI don't really need you, I'm Macaulay Culkin, home aloneBad bitch, diamonds in my collarbone (Yee, yee)Buy my whip by myself, pay my rent by myself[Pre-Chorus]Sugar, spice, and I'm niceShow me what you're made ofCrazy, sexy, cool, babyWith or without makeupGot nothing to prove (Got nothing to prove)But I'ma show you how I do[Chorus]Find me up in Magic City bustin' hundreds by the bandsAnd I throw it (Like a girl)Go and throw it (Like a girl)Hangin' out the 750, feelin' bossy in my city'Cause I run it (Like a girl)Run it, run it (Like a girl)I work my femininityI make these boys get on their kneesNow watch me do it, watch me do itLook it, look it, I'ma do itLike a girl (Like a girl)Like a girl (Like a girl)[Verse 2]Chaka Kahn, "Through the Fire," light the kerosene (We can do it)Lauryn Hill told me everything is everything (We can do it)Serena Willy showed me I can win the Wimbledon (We can do it)Uh, put me on a pedestal, bet on me, bet I will[Pre-Chorus]Sugar, spice, and I'm niceShow me what you're made ofCrazy, sexy, cool, babyWith or without makeupGot nothing to prove (Got nothing to prove)But I'ma show you how I do (But I'ma show you how I do)[Chorus]Find me up in Magic City bustin' hundreds by the bandsAnd I throw it (Like a girl)Go and throw it (Like a girl)Hangin' out the 750, feelin' bossy in my city'Cause I run it (Like a girl)Run it, run it (Like a girl)I work my femininityI make these boys get on their kneesNow watch me do it, watch me do itLook it, look it, I'mma do itLike a girl (Like a girl)Like a girl (Like a girl)[Bridge]Look, so if you fight like a girl, cry like a girlDo your thing, run the whole damn worldIf you feel like a girl, then you real like a girlDo your thing, run the whole damn worldIf you fight like a girl, cry like a girlDo your thing, run the whole damn worldIf you feel like a girl, then you real like a girlDo your thing, run the whole damn world[Chorus]Find me up in Magic City bustin' hundreds by the bandsAnd I throw it (Like a girl)(Yeah, yeah, yeah, yeah, yeah, yeah)Go and throw it (Like a girl)Hangin' out the 750 (Hangin' out the 750, baby)Feelin' bossy in my city'Cause I run it (Like a girl) (Yeah, I run it like a girl)Run it, run it (Like a girl)I work my femininity (Yeah, I work it baby)I make these boys get on their knees (Get on your knees, yeah)Now watch me do it, watch me do itLook it, look it, I'ma do it (Watch me do it)Like a girl (Like a girl)Like a girl (Like a girl, yeah)[Outro]Shit, fuck, I didn't know it was ending right there

Now getting from <https://genius.com/Lizzo-juice-lyrics>

[Verse 1]Mirror, mirror on the wallDon't say it 'cause I know I'm cute (Ooh, baby)Louis down to my drawersLV all on my shoes (Ooh, baby)I be drippin' so much sauceGot a bih lookin' like RAGÚ (Ooh, baby)Lit up like a crystal ballThat's

cool, baby, so is you That's how I roll [Pre-Chorus] If I'm shinin', everybody gonna shine (Yeah, I'm goals) I was born like this, don't even gotta try (Now you know) I'm like chardonnay, get better over time (So you know) Heard you say I'm not the baddest, bitch, you lie (Haha) [Chorus] It ain't my fault that I'm out here gettin' loose Gotta blame it on the Goose Gotta blame it on my juice, baby It ain't my fault that I'm out here makin' news I'm the pudding in the proof Gotta blame it on my juice Ya-ya-ee, ya-ya-ee, ya-ya-ee, ya-ya-ee Blame it on my juice, blame it, blame it on my juice Ya-ya-ee, ya-ya-ee, ya-ya-ee, ya-ya-ee Blame it on my juice, blame it, blame it on my juice (Ooh, baby) [Verse 2] No, I'm not a snack at all Look, baby, I'm the whole damn meal (Ooh, baby) David, you ain't bein' slick Don't dare try to cop a feel (Ooh, baby) The juice ain't worth the squeeze If the juice don't look like this (Like this, like this, like this) Hold up, nigga, please Don't make me have to take your bitch, shit (How I roll) [Pre-Chorus] If I'm shinin', everybody gonna shine (Yeah, I'm goals) I was born like this, don't even gotta try (Now you know) I'm like chardonnay (Okay), get better over time (So you know) Heard you say I'm not the baddest, bitch, you lie (You lie) [Chorus] It ain't my fault that I'm out here gettin' loose Gotta blame it on the Goose Gotta blame it on my juice, baby It ain't my fault that I'm out here makin' news I'm the pudding in the proof Gotta blame it on my juice Ya-ya-ee (Ya-ya-ee), ya-ya-ee, ya-ya-ee, ya-ya-ee Blame it on my juice, blame it, blame it on my juice Ya-ya-ee (Ya-ya-ee), ya-ya-ee, ya-ya-ee, ya-ya-ee Blame it on my juice, blame it, blame it on my juice (Alright) Ya-ya-ee [Bridge] Somebody come get this man I think he got lost in my DMs, what? My DMs, what? You better come get your man I think he wanna be way more than friends, what? More than friends What you want me to say? [Chorus] It ain't my fault that I'm out here gettin' loose Gotta blame it on the Goose Gotta blame it on my juice, baby It ain't my fault that I'm out here makin' news I'm the pudding in the proof (Puddin' in the proof) Gotta blame it on my juice (Blame it on my juice) Ya-ya-ee (Yay-ya), ya-ya-ee, ya-ya-ee, ya-ya-ee Blame it on my juice, blame it, blame it on my juice Ya-ya-ee (Ya-ya-ee), ya-ya-ee, ya-ya-ee, ya-ya-ee Blame it on my juice, blame it, blame it on my juice (Blame it on it, yeah)

Now getting from <https://genius.com/Lizzo-soulmate-lyrics>

[Intro] True story No glory, let's go [Verse 1] Yeah, the old me used to love a Gemini Like a threesome, fuckin' with him every night A lotta two-faced people show me both sides So I figured out I gotta be my own type [Pre-Chorus 1] They used to say to get a man, you had to know how to look They used to say to keep a man, you had to know how to cook But I'm solo in Soho, sippin' Soju in Malibu It's a me, myself kinda attitude [Chorus] 'Cause I'm my own soulmate (Yeah, yeah) I know how to love me (Love me) I know that I'm always gonna hold me down Yeah, I'm my own soulmate (Yeah, yeah) No, I'm never lonely (Lonely) I know I'm a queen, but I don't need no crown Look up in the mirror like "Damn, she the one" [Post-Chorus] One, one, one, one, one, one (The one) Like "Damn, she the one" One, one, one (The one) Bad bitch in the mirror like "Yeah, I'm in love" Love, love, love, love, love, love (In love) Like "Yeah, I'm in love" Love, love, love (In love) Look up in the mirror like "Damn, she the one" [Verse 2] And she never tell me to exercise We always get extra fries And you know the sex is fire And I gotta testify I get flowers every Sunday I'ma marry me one day [Pre-Chorus 2] True love ain't something you can buy yourself True love finally happens when you by yourself So if you by yourself, then go and buy yourself Another round from the bottle on the higher shelf [Chorus] 'Cause I'm my own soulmate (Yeah, yeah) I know how to love me (Love me) I know that I'm always gonna hold me down (Always gonna hold me down) Yeah, I'm my own soulmate (Yeah, yeah) No, I'm never lonely (Lonely) (No, I'm never lonely, no) I know I'm a queen, but I don't need no crown Look up in the mirror like "Damn, she the one" [Post-Chorus] One, one, one, one, one, one (The one) (She the one, she the one) Like, "Damn, she the one" (She the one, she the one, she the one) One, one, one (The one) Bad bitch in the mirror like, "Yeah, I'm in love" (I'm in love, I'm in love, I'm in love) Love, love, love, love, love, love

e, love (In love)(I'm in love, I'm in love)Like "Yeah, I'm in love"(I'm in love, yeah, I'm in love)Love, love, love (In love)Look up in the mirror like "Damn, she the one"[Bridge]I'm the one (Ooh)I'm the one (You're the one)I'm the one (Oh, you're the one)Look up in the mirror like "Damn, she the one"One, one, one, one, one, oneLike "Damn, she the one"One, one, one, oneBad bitch in the mirror like "Yeah, I'm in love"Love, love, love, love, love, love (In love)(I'm in love, yeah, I'm in love)Love, love, love (In love)Look up in the mirror (Ow)[Chorus]'Cause I'm my own soulmate (Yeah, yeah)I know how to love me (Love me)I know that I'm always gonna hold me downLook up in the mirror like "Damn, she the one"Yeah, I'm my own soulmate (Yeah, yeah)No, I'm never lonely (Lonely)I know I'm a queen, but I don't need no crownLook up in the mirror like "Damn, she the one"

Now getting from <https://genius.com/Lizzo-jerome-lyrics>

[Intro]Woo, ohHere we go againUh-uh, hee-heeUh, look, listen, shut up[Chorus]Jerome, JeromeTake your ass homeAnd come back when you're grownJerome, JeromeGo on, take your ass homeWhere the peaches have thorns, ooh[Verse 1]Poor little babyWho told you that you stood a chance with this royalty?You're so sweet, bless your heartCan't let a pretty face distract me from businessAnd God as my witness, your ugly ass won't eitherI'm sorry, 2 AM photos with smileys and heartsAin't the way to my juicy partsBoy, thank me later, looks good on paperBut love isn't easy, so I'll do the hardest part[Chorus]Jerome, JeromeGo on, take your ass homeAnd come back when you're grownJerome, ooh, JeromeGo on, take your ass homeWhere the peaches have thorns[Verse 2]I never said I was perfectOr you don't deserve a good person to carry your baggageI know a few girls that can handle itI ain't that kind of chick, but I can call 'em for you if you wantI never said that you wasn't attractiveYour style and that beard, ooh, don't get me distractedI'm tryna be patient, and patience takes practiceThe fact is I'm leaving, so just let me have this[Chorus]Jerome, JeromeTake your ass homeAnd come back when you're grown, ohJerome, ooh, JeromeGo on, take your ass homeWhere the peaches have thorns[Outro]Hee, hee, hee, hee, hee(Don't cry for me, baby)Hee, hee, hee, hee, heeHee, hee, hee, hee, hee(Oh, don't cry for me, baby)Hee, hee, hee, hee, hee

Now getting from <https://genius.com/Lizzo-cry-baby-lyrics>

[Verse 1]Pull this car over, babeDon't pretend like you don't knowA lot of girls have time for this shitHonestly, I don't[Pre-Chorus 1]He said, "Why you cryin', baby?Why you cryin', baby?What did I do?" OhI said, shut up and kiss me, oh'Cause I don't wanna be here for long[Chorus]I swore you'd never see this sideBut it's so hard to say goodbyeI don't need to apologizeUs big girls gotta cry[Post-Chorus]Ooh, ooh, oohOoh, ooh, ooh[Verse 2]You should feel honored boy, uhYou got me feelin' this muchI clear my schedule for youLet my guard down for youAnd you gon' make me put it back up[Pre-Chorus 2]Oh, you know why I'm cryin'Why I'm cryin', babyYou don't pick up the phoneYou do the same thing to your friends and familyYou gon' end up alone[Chorus]I swore you'd never see this sideBut it's so hard to say goodbyeI don't need to apologizeUs big girls got to cry[Post-Chorus]Ooh, ooh, oohOoh, ooh, ooh[Bridge]It feels so good, so good sometimesSome big girls gotta cryAfter this is done, just take me homeI'm feelin' vulnerableI don't need to apologizeUs big girls gotta cry[Outro]Oh, oh, ohOh, oh, ohOh, oh, ohOh, it's my lifeYou know it hurts sometimesMy love is your loveWhy can't your love be mine?Ooh, oohOh, I get a little lost sometimesSometimes you need to cry

Now getting from <https://genius.com/Lizzo-tempo-lyrics>

[Intro: Lizzo]I've been waitin' for this oneTurn it up[Chorus: Lizzo]Slow songs, they for skinny hoesCan't move all of this here to one of thoseI'm a thick bitch, I need tempo (Tempo)Fuck it up to the tempo[Verse 1: Lizzo]Pitty-pat, pitty-pat, pitty-pitty-pat (Pat)Look at my ass, it's fitty-fitty-fat (Fat)Kitty cat, kitty cat, kitty-kitty cat (Cat)Prrr me a glass, boy, I like my water wet (Wet)Throw it back (Throw it back, threw it back)Catch that (Catch that, catch

that)I need a jack (Woo)For all of this ass, but it won't go flat (Wait a minute)Baby, baby (Baby)Come eat some of this cakey (Cake)He look like he could gain a little weight (A little weight)Lick the icing off, put the rest in your face (Face)[Chorus: Lizzo]Slow songs, they for skinny hoesCan't move all of this here to one of those (Hey)I'm a thick bitch, I need tempo (Need it)Fuck it up to the tempoFuck it up to the tempoFuck it up to the tempoSlow songs, they for skinny hoesFuck it up to the tempo (Tempo)[Verse 2: Lizzo]Fuck it up, fuck it upBoyfriend watchin', oh now he wanna knuckle upGet on this ride, baby, you gon' have to buckle upThick thighs save lives, call me little buttercupAll means necessary (Ayy)My ass is not an accessory (What?)Yeah, I said it, accessory (What?)Twerk skills up on legendary[Chorus: Lizzo]Slow songs, they for skinny hoesCan't move all of this here to one of those (Hey)I'm a thick bitch, I need tempo (Need it)Fuck it up to the tempoFuck it up to the tempoFuck it up to the tempoSlow songs, they for skinny hoesFuck it up to the tempo (Missy)[Verse 3: Missy Elliott]Let's go (Let's go), let's go (Let's go)All the fly girls head to the dance floorKitty cat, kitty cat, prrrAll the thick girls down on the floorrrr (On the floor)Ice on my neck like brrr (Like brrr)I'm big-boned with nice curves (Nice curves)Look at me, I know I look grrrd (Good)Look good, look good, look grrrd (Look good)I'ma show y'all chicks how to drrr itYour nigga, he wish he couldThick girl (Thick girl), split (Split)Get a bag (Get a bag), get rich (Get rich)Hair done (Hair done), fixed (Fixed)If you see a hater, tell him quit (Stop)Get your own dough (Own dough)Get your bread, own dough (Own dough)Go on, ladies, head to the floor (Floor)Fuck up the tempo, thick girls get low (Woo)[Chorus: Lizzo]Slow songs, they for skinny hoesCan't move all of this here to one of those (Hey)I'm a thick bitch, I need tempo (Need it)Fuck it up to the tempoFuck it up to the tempoFuck it up to the tempoSlow songs, they for skinny hoesFuck it up to the tempo[Outro: Lizzo]Girl, run that shit back

Now getting from <https://genius.com/Lizzo-exactly-how-i-feel-lyrics>

[Chorus: Lizzo]That's exactly how I feelThat's exactly how I feelThat's exactly how I feel[Verse 1: Lizzo]I woke up this morning (God)Wrong side of the bedI don't have to 'splain it, oh (How I feel)I might be a bitch (Bitch)I might make a friend (Friend)Ain't I so amazing? (Uh-huh)[Pre-Chorus: Lizzo]Love me or hate meOoh, I ain't changingAnd I don't give a fuck, no[Chorus: Lizzo]That's exactly how I feel (Uh)That's exactly how I feel (Say it again)That's exactly how I feel (Woo)[Verse 2: Lizzo & Gucci Mane]Don't hide no emotions (Emotions)We are 'em on my sleeve (On my sleeve)All my feelings Gucci (It's Gucci, haha)Can't hold back my tearsThat would be a crime'Cause I look pretty cryin'Oh, they ain't tell you?[Pre-Chorus: Lizzo]Love me or hate meOoh, I ain't changingAnd I don't give a fuck, no[Chorus: Lizzo & Gucci Mane]That's exactly how I feel (How I feel, yeah)That's exactly how I feel (How I feel, it's Gucci)That's exactly how I feel[Verse 3: Gucci Mane]I feel like hurtin' they feelings (Yeah)I don't get mad, I get millions (Yeah)My heart ain't got no feelingsMy cars ain't got no ceilingI ain't with that acting all friendlyPlease step away from the BentleyYou're either not with me or with meThe fye close by like it's WhitneyStay in your lane, don't tempt meMr. Bust-A-Whole-Clip-'Til-It's-EmptyI got a feeling that tonight's gonna be a good nightLike Ferg and them said, god willingFire chains on like burr (Burr)Feelin' like rockin' my fur (Fur)Rolls Royce with the chauffeur (Huh?)How your toes feel on a mink fur?It's Gucci[Pre-Chorus: Lizzo]Cry 'cause I want toSmile if I want to, huhYes, I canLove 'cause I want toGet so mad I could scream (I could scream)I could scream (I could scream)I could scream (Sing it)Yeah, yeah, yeah, yeah[Chorus: Lizzo]That's exactly how I feel (How I feel)That's exactly how I feel (How I feel)That's exactly how I feel

Now getting from <https://genius.com/Lizzo-better-in-color-lyrics>

[Verse 1]Black, white, ebony all sound good to meTwo tone recipe, got good chemistryJ. F. Kennedys, kiss hood celebritiesDon't matter to me 'cause I like everything[Chorus]You can be my lover'Cause love looks better in color(Yeah, yeah)

h, yeah, yeah, yeah, tell 'em)[Verse 2]Big dick energy (Tell 'em)Tastes like c
ollard greens (Tell 'em)Big ass patty cake (Tell 'em)Hey, happy days (Tell 'e
m)Bitch, don't label me (Tell 'em)I'm me, famously (Tell 'em)Nobody's safe, no
bodyYou and you and you and[Chorus]You can be my lover'Cause love looks better
in color(Yeah, yeah, yeah, yeah, yeah)[Post-Chorus]ColorLove looks betterLove,
love looks better (You know it do)In color, oohIf I try to tell you, then you
try to hurt meYa'll don't hear me[Verse 3]Sick six piston (Tell 'em)Tiptoe kis
sin' (Tell 'em)Catcall kittens (Tell 'em)Whole milk lickin' (Tell 'em)See my v
ision (Tell 'em)Rainbow smitten (Tell 'em)It's easy, baby, got the whole world
for the pickin'[Chorus]You can be my lover'Cause love looks better in color(Ye
ah, yeah, yeah, yeah, yeah)[Post-Chorus]ColorMy whole world o' color, babeLove
looks betterLove, love looks betterIn color, ooh (Rainbows and shit)Oh, if I t
ry to tell you then you try to hurt meI'ma tell your momma[Bridge]Color me, co
lor me, color me, color meColor me, color me, color me, color meColor me, colo
r me, color me, color meColor me, color me, color me, color me[Chorus]Yeah, yo
u can be my lover'Cause love looks better in color(Yeah, yeah, yeah, yeah, yea
h)It's dark under the coversBut love looks better in color

Now getting from <https://genius.com/Lizzo-heaven-help-me-lyrics>

[Chorus]Heaven, help meIf love ain't dead, I'ma kill it 'cause it's killin' me
Cold world, they'll be livin' in a fantasyGot me, it's the only thing I'll eve
r needHeaven, help meIf love ain't dead, I'ma kill it 'cause it's killin' meLo
ve is a drug, methamphetamineD-A-R-E, they'll be hooked on me[Verse 1]Y'all, w
ho you think you sassing? (Sassing)Say whoa, baby, I'm a classic (Classic)Say
whoa, something like a HitchcockSay whoa, got you goin' psycho (Psycho)Oh no,
don't you get your shit rockedSay whoa, Kesha with the tick tockSay whoa, tim
e's up on these motherfuckersSay whoa, what you say, what you say, sucker?(Wha
t you say? What you say?)Say whoa[Pre-Chorus]If you think you got me dickmatiz
ed(Oh yeah, oh yeah, oh yeah, oh yeah)I need to get you out of my lifeCan I ge
t an amen?[Chorus]Heaven, help meIf love ain't dead, I'ma kill it 'cause it's
killin' meCold world, they'll be livin' in a fantasyGot me, it's the only thin
g I'll ever needHeaven, help meIf love ain't dead, I'ma kill it 'cause it's ki
llin' meLove is a drug, methamphetamineD-A-R-E, they'll be hooked on me[Verse
2]Hit 'em with the bye bye (Bye bye), say whoaHit 'em with the drive-by (Brr
r), say whoaHit 'em with the dry cry (Dry cry), say whoaThen you get a new gu
y, hello[Pre-Chorus]Even if you are the love of my life(Oh yeah, oh yeah, oh y
eah, oh yeah)Sorry, baby, I got too much pride[Chorus]Heaven, help meIf love a
in't dead, I'ma kill it 'cause it's killin' meCold world, they'll be livin' in
a fantasyGot me, it's the only thing I'll ever needHeaven, help meIf love ai
n't dead, I'ma kill it 'cause it's killin' meLove is a drug, methamphetamineD-
A-R-E, they'll be hooked on me[Post-Chorus]Heaven, help meIf love ain't dead,
I'ma kill it 'cause it's killin' meOoh, can I get an amen? (Amen)[Outro]Been t
hinkin' about you, thinkin' about youThinkin' about you babyIf love didn't dri
ve me crazy, maybe I'd be your babyTrust, baby, you can't make me beg or try t
o change, hey

Now getting from <https://genius.com/Lizzo-lingerie-lyrics>

[Intro](Yeah)Damn[Verse 1]Hair down, moonlitLook at my lipstickSo thick, so fi
tWanna put your lips in places, oohThe sun don't shine thereI like that right
there (I like that)Keep goin' and goin' and keep it flowin', uhYou know what y
ou doin', don't you?[Chorus]So I lounge around in my lingerieI wanna be prepar
ed for you just in caseSo I lounge around in my lingerieYou better come my way
[Verse 2]I don't got no secrets you don't knowThese panties are see-through,
I'm exposed, yeahTreat you with my body, my eyes closedBaby, let me feel you c
loseYou make me crescendo, I'm going upOoh, ooh, ooh, yeahLet's open the windo
wAnd let the world knowOh, oh, oh[Chorus]So I lounge around in my lingerieI wa
nna be prepared for you just in caseSo I lounge around in my lingerieYou bette
r come my way[Bridge]Yeah, yeah, owOoh, ooh-ooh, oohOoh, ooh-ooh, oohOoh, ooh-
ooh, oohOoh, ooh-ooh, ooh[Chorus]So I lounge around in my lingerieI wanna be p

repared for you just in case, yeahSo I lounge around in my lingerieOoh, you better come my way

Now getting from <https://genius.com/Lizzo-boys-lyrics>

[Verse 1]Ayy, boy, whatcha say, boy?You tryna play coy like a Gameboy?Hit my phone boy, is you home boy?Are you alone boy? Come give me dome, boyGot a boy with degrees, a boy in the streetsA boy on his knees, he a man in the sheetsSheesh, it's all Greek to meGot this boy speaking Spanish, ay, papi[Pre-Chorus]Baby, I don't need youI just wanna freak youI heard you a freak tooWhat's two plus two? (Four, three, two, ow)[Chorus]Boys, boys, boysMake a girl go crazy (Four, three, two, ow)Boys, boys, boysMake a girl go crazy (Four, three)[Verse 2]I like big boys, itty bitty boysMississippi boys, inner city boysI like the pretty boys with the bow tieGet your nails did, let it blow dryI like a big bear, I like a clean faceI don't discriminate, come and get a tasteFrom the playboys to the gay boysGo and slay, boys, you my fave boys[Pre-Chorus]Baby, I don't need you (I don't need)I just wanna freak you (Want, I want it bad)I heard you a freak too (That's right)What's two plus two? (Four, three, two, ow)[Chorus]Boys, boys, boysMake a girl go crazy (Four, three, two, ow)Boys, boys, boysMake a girl go crazy (Four, three, two, ow)[Instrumental][Chorus]Four, three, two, ow (Woo)Boys, boys, boysMake a girl go crazy (Four, three, two, ow, done lost your mind)Boys, boys, boysMake a girl go crazy, ow

Now getting from <https://genius.com/Lizzo-truth-hurts-lyrics>

[Intro]Why men great 'til they gotta be great?Woo![Verse 1]I just took a DNA test, turns out I'm 100% that bitchEven when I'm crying crazyYeah, I got boy problems, that's the human in meBling bling, then I solve 'em, that's the goddess in meYou coulda had a bad bitch, non-committalHelp you with your career just a littleYou're 'posed to hold me down, but you're holding me backAnd that's the sound of me not calling you back[Chorus]Why men great 'til they gotta be great? ('Til they gotta be great)Don't text me, tell it straight to my face (Tell it straight to my face)Best friend sat me down in the salon chair (Down in the salon chair)Shampoo press, get you out of my hairFresh photos with the bomb lighting (With the bomb lighting)New man on the Minnesota Vikings (Minnesota Vikings)Truth hurts, needed something more exciting (Yee)Bom bom bi dom bi dum bum bay (Eh, yeah, yeah, yeah)[Verse 2]You tried to break my heart?Oh, that breaks my heartThat you thought you ever had itNo, you ain't from the startHey, I'm glad you're back with your bitchI mean, who would wanna hide this?I will never, ever, ever, ever, ever be your side chickI put the sing in singleAin't worried 'bout a ring on my fingerSo you can tell your friend, "Shoot your shot" when you see himIt's okay, he already in my DMs[Chorus]Why men great 'til they gotta be great? ('Til they gotta be great)Don't text me, tell it straight to my face (Tell it straight to my face)Best friend sat me down in the salon chair (Down in the salon chair)Shampoo press, get you out of my hairFresh photos with the bomb lighting (With the bomb lighting)New man on the Minnesota Vikings (Minnesota Vikings)Truth hurts, needed something more exciting (Yee)Bom bom bi dom bi dum bum bay (Eh, yeah, yeah, yeah)[Bridge]I'ma hit you back in a minute (Yeah, yeah)I don't play tag, bitch, I been it (One time)We don't fuck with lies (Two times), we don't do goodbyes (Woo)We just keep it pushing like ay-ay-ayI'ma hit you back in a minute (Yeah, yeah)I don't play tag, bitch, I been it (One time)We don't fuck with lies (Two times), we don't do goodbyes (Woo)We just keep it pushing like ay-ay-ay (Woo)[Chorus]Why men great 'til they gotta be great? ('Til they gotta be great)Don't text me, tell it straight to my face (Tell it straight to my face)Best friend sat me down in the salon chair (Down in the salon chair)Shampoo press, get you out of my hairFresh photos with the bomb lighting (With the bomb lighting)New man on the Minnesota Vikings (Minnesota Vikings)Truth hurts, needed something more exciting (Yee)Bom bom bi dom bi dum bum bay (Eh, yeah, yeah, yeah)[Outro]With the bomb lightingMinnesota VikingsYe, eh, yeah, yeah, yeah

Now getting from <https://genius.com/Lizzo-water-me-lyrics>

[Chorus]I am free, yeah yeahCome water me, oh ohLove you so, but if you don'tI have to leave, oh noI am free, yeah yeahCome water me, oh ohLove you so, but if you don'tI have to leave, oh no[Verse 1]It's hot, I think I wanna kick off both of my socksI can feel it boilin' up in this potA closed mouth don't get fed, is you hungry or not?Like brr brr, operatorCaboose like, choo choo, bless my trainerThank God, thank God, thank God, I'm gettin' thickerAnd I got 'em sweatin' in the middle of the winter[Pre-Chorus](Get up) I don't get dehydrated, I moisturize it dailyI am my inspiration, I am my inspiration(Get up) But I love you, no limit, I need to know you in itIf you got time, let's spend it[Chorus]I am free, yeah yeahCome water me, oh ohLove you so, but if you don'tI have to leave, oh noI am free, yeah yeahCome water me, oh ohLove you so, but if you don'tI have to leave, oh no[Verse 2]I think I need a washrag, perspiratin'Gimme that sweet tea, you think I'm playin'I need it all night, no sleepYou can get it in the kitchen if you sweatin' out the sheetsLike brr brr, operatorYou got me like, hee hee, Mike JacksonThank God, thank God, thank God, I'm gettin' thickerAnd I can make you boil up, baby, let it simmer[Pre-Chorus](Get up) I don't get dehydrated, I moisturize it dailyI am my inspiration, I am my inspiration(Get up) But I love you, no limit, I need to know you in itIf you got time, let's spend it[Chorus]I am free, yeah yeahCome water me, oh ohLove you so, but if you don'tI have to leave, oh noI am free, yeah yeahCome water me, oh ohLove you so, but if you don'tI have to leave, oh no[Bridge]I'm so pretty and so ditty and these boys be after kittyI just snap and pivot, uh huh, uh huhI'm so pretty and so ditty and these boys be after kittyI just snap and pivot, uh huh, uh huh[Pre-Chorus](Get up) I don't get dehydrated, I moisturize it dailyI am my inspiration, I am my inspiration(Get up) But I love you, no limit, I need to know you in itIf you got time, let's spend it[Chorus]I am free, yeah yeahCome water me, oh ohLove you so, but if you don'tI have to leave, oh noI am free, yeah yeahCome water me, oh ohLove you so, but if you don'tI have to leave, oh no

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[Chorus: Lizzo]I do my hair toss, check my nailsBaby, how you feelin'? (Feelin' good as hell)Hair toss, check my nailsBaby, how you feelin'? (Feelin' good as hell)[Verse 1: Lizzo]Woo, child, tired of the bullshitGo on, dust your shoulders off, keep it movingYes, Lord, tryna get some new shitIn there, swimwear, going-to-the-pool shitCome now, come dry your eyesYou know you a star, you can touch the skyI know that it's hard but you have to tryIf you need advice, let me simplify[Pre-Chorus: Lizzo]If he don't love you anymoreJust walk your fine ass out the door[Chorus: Lizzo]I do my hair toss, check my nailsBaby, how you feelin'? (Feelin' good as hell)Hair toss, check my nailsBaby, how you feelin'? (Feelin' good as hell)(Feeling good as hell)Baby, how you feelin'? (Feelin' good as hell)[Verse 2: Lizzo & Ariana Grande]Woo, girl, need to kick off your shoesGotta take a deep breath, time to focus on youAll the big fights, long nights that you been throughI got a bottle of tequila I been saving for you (Thank god)'Cause he better know my worthThere's so much that I deserveBut I ain't worried now, I'ma let my hair downHe been tryin' it, but not today[Pre-Chorus: Ariana Grande, Lizzo & Both]So girl, if he don't love you anymoreThen walk your fine ass out the door[Chorus: Lizzo, Ariana Grande & Both]And do your hair toss, check my nails (Ah)Baby, how you feelin'? (Feelin' good as hell)Hair toss, check my nails (Mmm)Baby, how you feelin'? (Feelin' good as hell) (Show it off tonight)Hair toss, check my nails (Woo)Baby, how you feelin'? (Feelin' good as hell) (And we gon' be alright, oh)Hair toss, check my nails (Mmm)Baby, how you feelin'? (Feelin' good as hell) (Mmm)[Pre-Chorus: Lizzo & Ariana Grande]Ooh, yeah (Mmm), alright (Yee)Listen, so girl, if he don't love you anymore, moreThen walk your fine ass out the door (Door)[Chorus: Lizzo, Ariana Grande & Both]And do your hair toss, check my nails (Woo)Baby, how you feelin'? (Feelin' good as hell) (Woo-hoo)Hair toss, check my nails (Hey yeah)Baby, how you feelin'? (Feelin' good as hell) (Show it off tonight)Hair toss, check my nails (Mmm)Baby

y, how you feelin'? (Feelin' good as hell) (And we gon' make it right) Hair to
s, check my nails (Oh, hey) Baby, how you feelin'? (Feelin' good as hell) (Yea
h) (Feelin' good as hell) Baby, how you feelin'? (Feelin' good as hell) (Haha, I
danced, that's what I did)

Question 6

```
In [3]: useragent_url = 'https://httpbin.org/user-agent'
#website that exists to help you work with other APIs, generalized code that wo
r= requests.get(useragent_url)
useragent= json.loads(r.text)['user-agent']
#standard thing to put in HTTP header to let websites know what kind of system
#though not all websites require it
```

```
In [4]: headers = {'User-Agent': useragent,
                  'From': 'brc4cb@virginia.edu'}
#Headers are what we send API about ourselves, adds an email address so they ca
```

```
In [5]: #Connect to API and verify connection
root = "https://maps.spirithalloween.com"
endpoint = "/api/getAsyncLocations"
lat= "40.380028"
lng = "-97.910156"
radius = "1800"
limit="1500"
params = "?template=domain&level=domain&lat={lat}&lng={lng}&radius={radius}&lin
r = requests.get(root + endpoint + params,
                  headers = headers)
r
```

Out[5]: <Response [200]>

```
In [6]: locations = []
for i in range(0,1500):
    try:
        myjson = json.loads(r.text)
        myjson = myjson['markers'][i]['info']
        myhtml = BeautifulSoup(myjson, 'html.parser')
        text = myhtml.find_all('div', 'address-two')[0].text
        locations.append(text)
    except:
        pass
#Gets all locations
```

```
In [7]: matches = []
for location in locations:
    if "ormer" in location:
        matches.append(location)
#pulls matches
```

```
In [8]: #count matches
formerlocsDF= pd.DataFrame()
formerlocsDF['formerlocs'] = matches
formerlocsDF['formerlocs'].value_counts()
```



```
Out[8]: Former Sears 63
        Former Pier 1 32
        Former Dress Barn 25
        Former Office Depot 23
        Former Party City 20
        ..
        Former Jo Anns Fabrics 1
        Former North Face in Outlet Shoppes of El Paso 1
        Former Mazda Dealership 1
        Former E G Amish Furniture 1
        Former F21 1
        Name: formerlocs, Length: 436, dtype: int64
```

```
In [ ]:
```