

# What makes a playlist succesful?

George John Jordan Thomas Aquinas Hayward, Optimist

## Today's Discussion

#### **Topic Outline**

Survey Results

Strategy

**Data Preparation** 

Exploratory Data Analysis & Visualization

Modeling

Conclusion

Next Steps

Thank You!



## Survey Results





#### WHAT MAKES A PLAYLIST GOOD?



Mary

"When it fits a mood; when I don't feel like skipping tracks; when it's a collab; when it has a mix of old and new songs of similar genre."



Ben

"It has some songs I know and love, but also helps me discover new songs. It matches my mood."

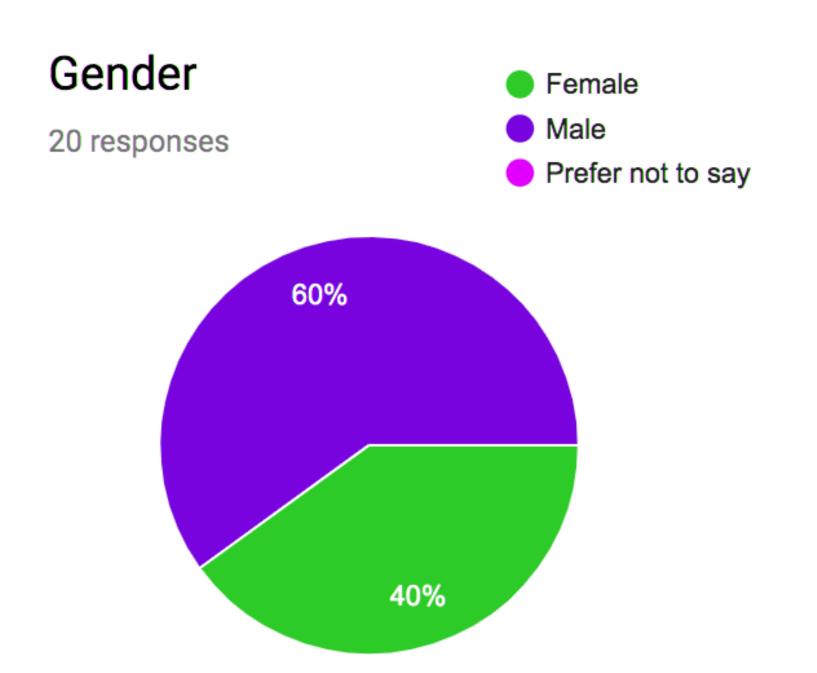


Ray

"When the whole playlist
matches the exact vibe you're
looking for perfectly (pre-game,
90s, gym flow, etc.), but also
has a wide range of artists and
song types."

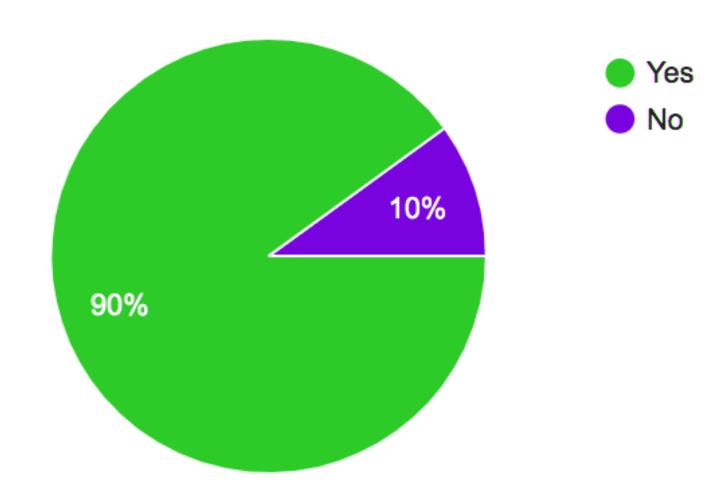


#### **SURVEY BREAKDOWN**



#### Are you a Spotify Premium subscriber?

20 responses

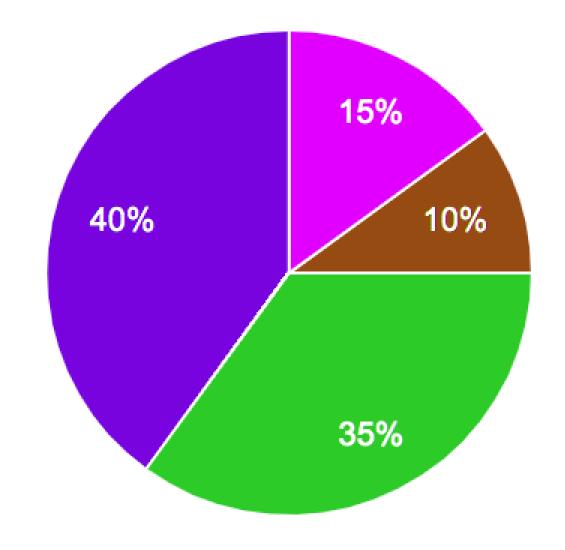




#### YOUR FAVORITE PART OF SPOTIFY?

If you had to choose, which of these is most important to your Spotify experience?

20 responses



- Spotify playlists YOU make
- Spotify playlists YOU discover, but made by other people
- Official Spotify Playlists
- Official Spotify Personalized Playlists



## Strategy



#### Game Plan

Phase 1

Open the data.

Phase 2

Look at all the columns. Categorical?

Continuous?

Phase 3

Decide the dependent variable. What does success mean? What is the success metric?

Phase 4

Engineer features; visualize data; look for relationships; model. Phase 5

Insights.



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spotify:us	ser: cbd243 US ser: 020f84 US ser: 7b2882 US ser: 7a3803 US ser: f3b4bb US ser: a7c1f9 US ser: c57fd0 US ser: 57549c US ser: 27ec42 US ser: 33a612	17 dc1e5c9333 110 60253e2f04 122 6e7cdfcfd8 4692 aacfefd8d0 54 4e8644cf23 28 efe845053f 25 d8c32e980d 33 d84362d16d 1207 50b09ea3b8 311 5a106ef18a 79	0 13f3bbffd 0 f9360bbb0 1 daaef5399 58 800dfba2f 1 7be5ad76e 0 0ec4a38e6 1 13dbb45c2 3 228d20cd6 1 6c033441a 0 4e68ab50a	16 de3e77b:p 1 f381c1e:p 81 a344959:p 1274 de93c28:p 2 0f80f35:p 5 c2f0a2b:p 6 e78734c:p 25 bd13a98:p 212 40d2cdf:p 242 afcdc59:p 74	17 laylist: 11 laylist: 90 laylist: 337 laylist: 6 laylist: 10 laylist: 28 laylist: 312 laylist: 184 laylist: 77	25 1cXT82UHu 74 3nXBOwbEj 67 5QWYAANVq 3938 4xejf873E 23 4DckmrBp9 3372 4NGdNJUTh 60 5ZwkPLOAx 11 6XErc7dzX 508 1R0WFRUd3 257 2N0NHyYFR 76 6eHtLEtxA	0 IDoXbdrxf 51 Y6AaQhww 63 IQKd5Fva: 3919 MKXyPpzn 0 3Y46ncWol 382 ILØrkfnaS: 33 (YInzTqkQ) 4 (qBnkgEuj 119 IOHDMAtbvl 229 IkeWtZKNb: 54 AeXlTxueS	["neverb Cg5pz ["oscar" TBp7v ["sexy", 27Wkv ["jazz"] IPvIx ["sueno" UMG9Y ["ptx"] xjAwz ["taeyar CGcBv ["dinner rxy0b [] KhOBr [] SoLBK ["recept	ack"] cbd243dd , "hijos 020f8460 "time"] 7b288260 7a3803aa , "morfe f3b4bb46 Pop a7c1f9ef g", "ris c57fd0d8 ", "prty 57549cd8 Punk 27ec4250 R&B 33a6125a	Alterna: 11e5c933: 5"] 2253e2f04 27cdfcfd8 27cdfcfd8 20"] 28644cf2: 68644cf2: 68845053: 6832e9806 7"] 34362d166 Metal 2609ea3b8 26106ef188 26106ef188 26106ef188 26106ef188 26106ef188	tive 313f3bbf Latin 4f9360bb Alterna 8daaef53 Easy Li 0800dfba Latin 37be5ad7 - f0ec4a38 Pop d13dbb45 Indie R d228d20c Rock 86c03344 Pop a4e68ab5 Pop f7cee318	Metal fdde3e77b - b0f381c1e tive 99a344959 stening 2fde93c28 - 6e0f80f35 Defiant e6c2f0a2b Rap c2e78734c ock d6bd13a98 Defiant 1a40d2cdf Sensual 0aafcdc59	Punk  Indie Ro  Religiou  Excited  Rock Urgent  Defiant Indie Ro	19 Lively 0 ck 140 s 21 Empoweri 165 Sensual 0 Sophisti 0 Alternat 3 Aggressi 2 Energizi 4	19 Fiery 0 Rock 139 Sophisti 21 ng 132 0 cated 0 ive 3 ve 2 ng 2 Yearning 0	1 Cool 0 Defiant 1 cated 1 Yearning 10 0 Empoweri 0 Excited 1	1 Empoweri 1 Sentimen 1 72 1 ng 0 Yearning 2	4 tal 3 Upbeat 242 3 Romantic 2 3	2 Romantic 2 90 2 1 Brooding 2	0	2 9 2 6 6 384 4 3 3 2 2

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### Some Features in the Data



STREAMS, STREAM30S, MONTHLY OWNER STREAM30S

About user engagement within the playlist.

TRACKS, LOCAL TRACKS\*, ARTISTS, ALBUMS

Quantitative descriptions of the playlist.
\*Local Tracks indicate a known premium subscription.

DAUS, WAUS, MAUS, USERS, SKIPPERS

About user engagement on the platform, and sometimes within the playlist.

MOODS, TOKENS, GENRES

Qualitative descriptions of the playlist. Tokens come from the user. Moods & Genres come from Spotify.

### Possible Success Metrics



MONTHLY OWNER STREAM30S

Number of streams over 30 seconds by playlist owner this month

MAUS

Number of Monthly Active Users, i.e. users with a stream over 30 seconds from playlist in past month

MONTHLY STREAM30S

Number of streams over 30 seconds this month

STREAMS

Number of streams from playlist today



% Change

## Success Metric for User Playlist

#### SUMMARY USER AND FINANCIAL METRICS

				/0 <b>U</b> II	unge
USERS (M)	Q1 2018	Q4 2018	Q1 2019	Y/Y	Q/Q
Total Monthly Active Users ("MAUs")	173	207	217	26%	5%
Premium Subscribers	75	96	100	32%	4%
Ad-Supported MAUs	102	116	123	21%	6%

#### What is success?

When a playlist gets used! The more, the better!

#### Considerations

There are two types of playlists in the dataset: user-created and Spotify official.

For this analysis, we'll focus on user-created playlists.

#### **Success Metric**

Number of streams over 30 seconds by playlist owner this month

## **Engineered Features**



#### NATURAL LANGUAGE SENTIMENT SCORING

Token Sentiment Score, Mood Sentiment Score (all 3 moods averaged), Token Sentiment Absolute Value Score (intensity proxy)

#### PERSONAL AGGREGATIONS

Token count (effort proxy), Genre count (variation in playlist), Owner playlist count

#### RATIOS

Tracks per Artist (variation), Tracks per Album, Local-to-Total Tracks Ratio (discovery), Stream 30s-to-Streams (quality of time), Stream 30s-to-Monthly Streams (day-to-month ratio), Monthly Owner-to-Total Streams (intimacy)

#### BINARIES

Owner has multiple playlists, Owner known to be Premium subscriber



## Data Preparation



#### GETTING THE DATA READY

#### Outliers

- Spotify official
   playlists must be
   taken out of the
   data. There are
   399 of them.
- For linear regression, consider data within 3σ.

#### Dummy Variables

- Computers can't
   make sense of
   categorical
   variables, so they
   must be made
   binary.
- Avoid dummy variable trap.

#### Sentiment Analysis

Python has very powerful natural language processing libraries, such as Vader Sentiment. It can score a word's positivity.

#### Look for Nulls

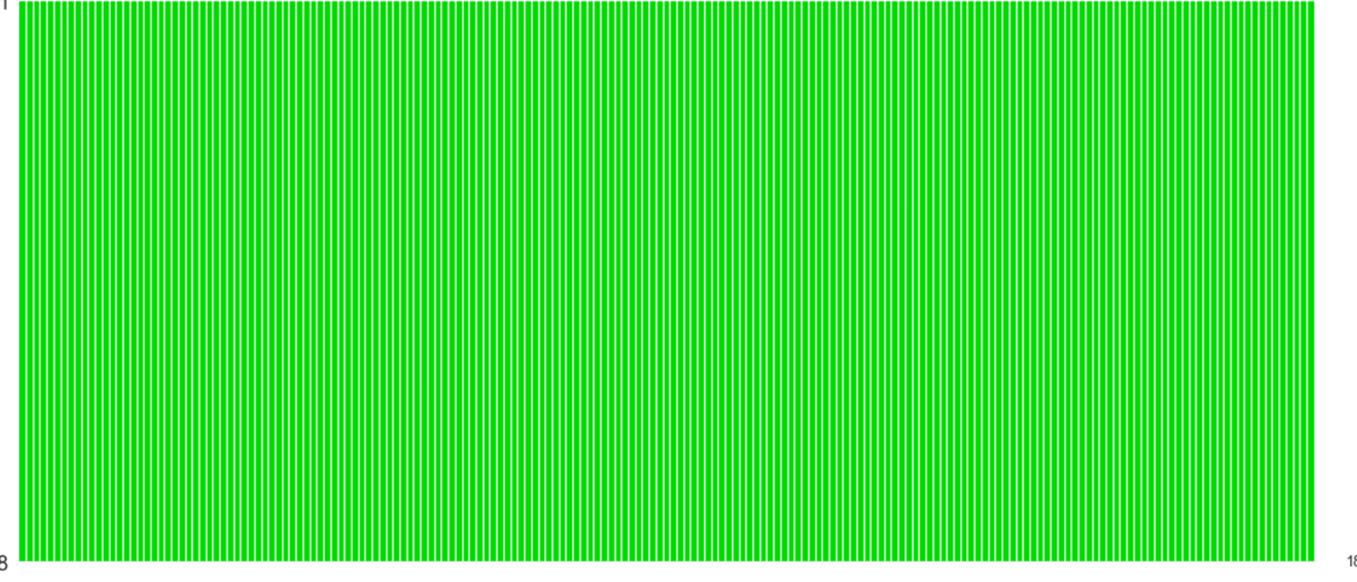
Most data
analysis does not
do well with
missing values.
Consider
eliminating the
nulls,
interpolating, or
mean-fillling.



#### **ABSOLUTELY NO NULLS!**

```
In [ ]: #checking for completenesss
msno.matrix(spotify_lite_numeric, color = (.0,.85,.0))
```

Out[ ]: <matplotlib.axes.\_subplots.AxesSubplot at 0x1a1adb7470>



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#### WORD SENTIMENT ANALYSIS

Lead M	1000	Mood Sentiment Score
<b>0</b> Aggres	sive	-0.1531
1 Broodin	ng	0.0258
2 Cool		0.3182
3 Defiant		-0.2263
<b>4</b> Easygo	ing	0.3182
<b>5</b> Empow	ering	0.0000
6 Energiz	zing	0.4588
<b>7</b> Excited	I	0.3400
8 Fiery		-0.3400
<b>9</b> Gritty		0.0000
10 Lively		0.4404



Reasonable minds can disagree on how the Vader Sentiment engine scores a given word, but, as we shall see, it becomes very powerful when analyzing word aggregations.



#### MOST NEGATIVE TOKEN COMBOS

	Playlist ID	Tokens	Token Sentiment Score
0	1awu4P3xtUYkkpkTn2H6fl	["boss", "ass", "bitch", "bitch", "bitch", "bi	-0.9623
1	1v8iwl5ehBWHgTfpJHYu9f	["killer", "killed", "killer", "killed"]	-0.9618
2	5rnoJcL2ssx56EgOHlKxEs	["killer", "killed", "killer", "killed"]	-0.9618
3	5uFFoFd935fHpsjNyS0gjo	["punk", "punk", "goes", "black", "death", "he	-0.9413
4	3eZxZLBMuncTetclqdFu17	["yung", "based", "boy", "shit", "feel", "homi	-0.9403
5	561AfqMPTVuCcBLHf7GqQB	["fuck", "bad", "bitch"]	-0.9360
6	3ABdz7AF9UGsf0p6ls0RTQ	["dope", "ass", "trick", "ass", "sucka", "ass"	-0.9360
7	3XYRrF0FdmbNYJzVZlB9ml	["hell", "yeah", "bitch", "go", "hard", "hell"	-0.9217
8	7eSo6eg25wtRnMQeYmuMWr	["depressing", "ass", "depressed", "shit"]	-0.9186
9	6eXrG7eVailErqsyWyY3rU	["shit", "kill", "shit"]	-0.9169
10	4jyKtjc4TUEoY9tjCCg6sD	["kill", "people", "burn", "shit", "fuck", "sc	-0.9153

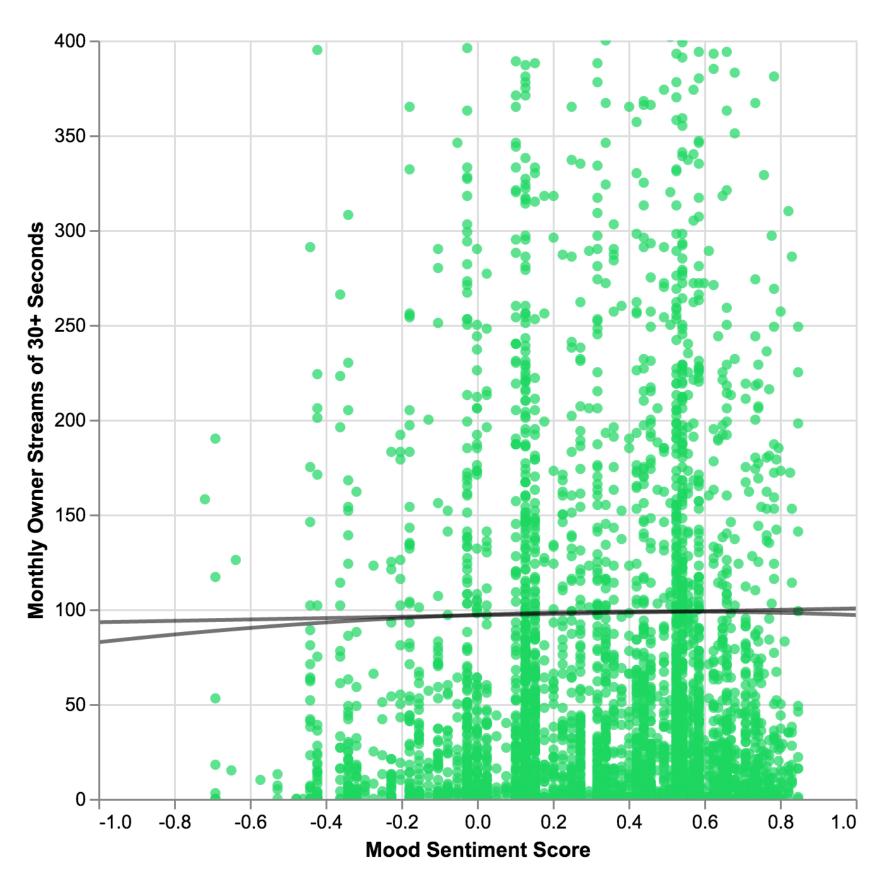


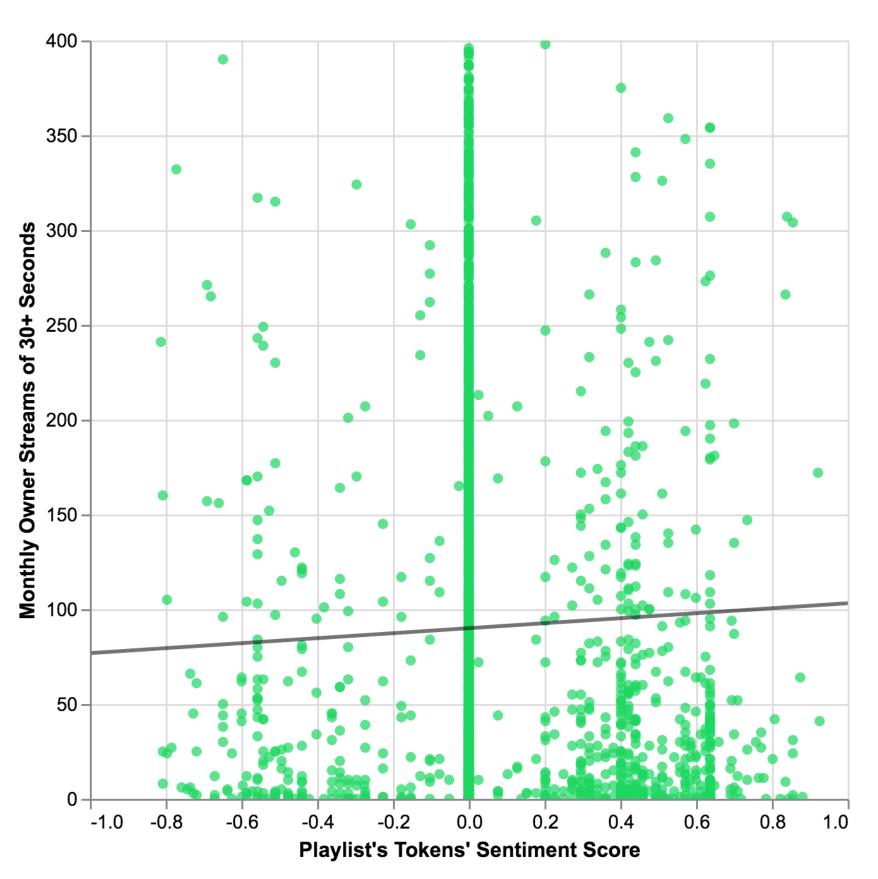
#### MOST POSITIVE TOKEN COMBOS

	Playlist ID	Tokens	<b>Token Sentiment Score</b>
0	5AWXjgKgf6dM5LB5xrmVxh	["relaxing", "piano", "greatest", "best", "lov	0.9899
1	6NojvHGiwAWiKkXdLsENks	["relaxing", "piano", "greatest", "best", "lov	0.9899
2	2nGaln1PPag20CxAlCeQ1G	["greatest", "best", "loved", "hymns", "spirit	0.9856
3	1TpnPlLooYYP0Zl63yYHcG	["love", "songs", "love", "songs", "deep", "lo	0.9803
4	2vklmB9cNciylP7aLv8fKr	["super", "happy", "funtime", "awesome", "nice	0.9758
5	4M6n6PoCwhlG1mLMGBdHl3	["love", "songs", "piano", "songs", "romance",	0.9682
6	7haamLtX1X711w2cc7kYt9	["hope", "anne", "muckley", "love", "like", "l	0.9678
7	3pD9Sn1NOWHA7yYWHEDVCX	["edm", "rehab", "top", "electronic", "dance",	0.9509
8	74WXhw6lAXJpC5SYHJqrAb	["great", "worship", "songs", "kids", "praise"	0.9451
9	4lR6coi2zbiRrO51HRT19N	["great", "worship", "songs", "kids", "praise"	0.9451
10	3PpbClzYP6w0xKY7qZ8IEI	["glee", "cast", "love", "like", "love", "song	0.9442



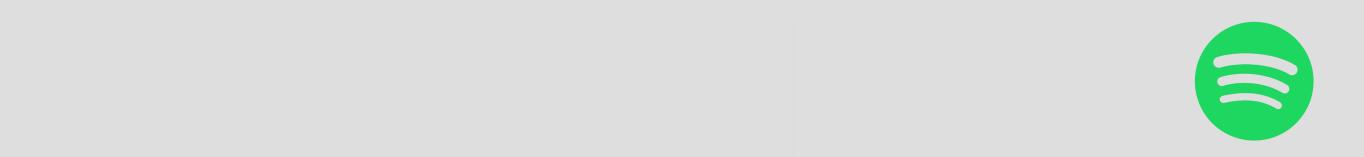
#### SCORES & STREAMS - NO CLEAR TREND

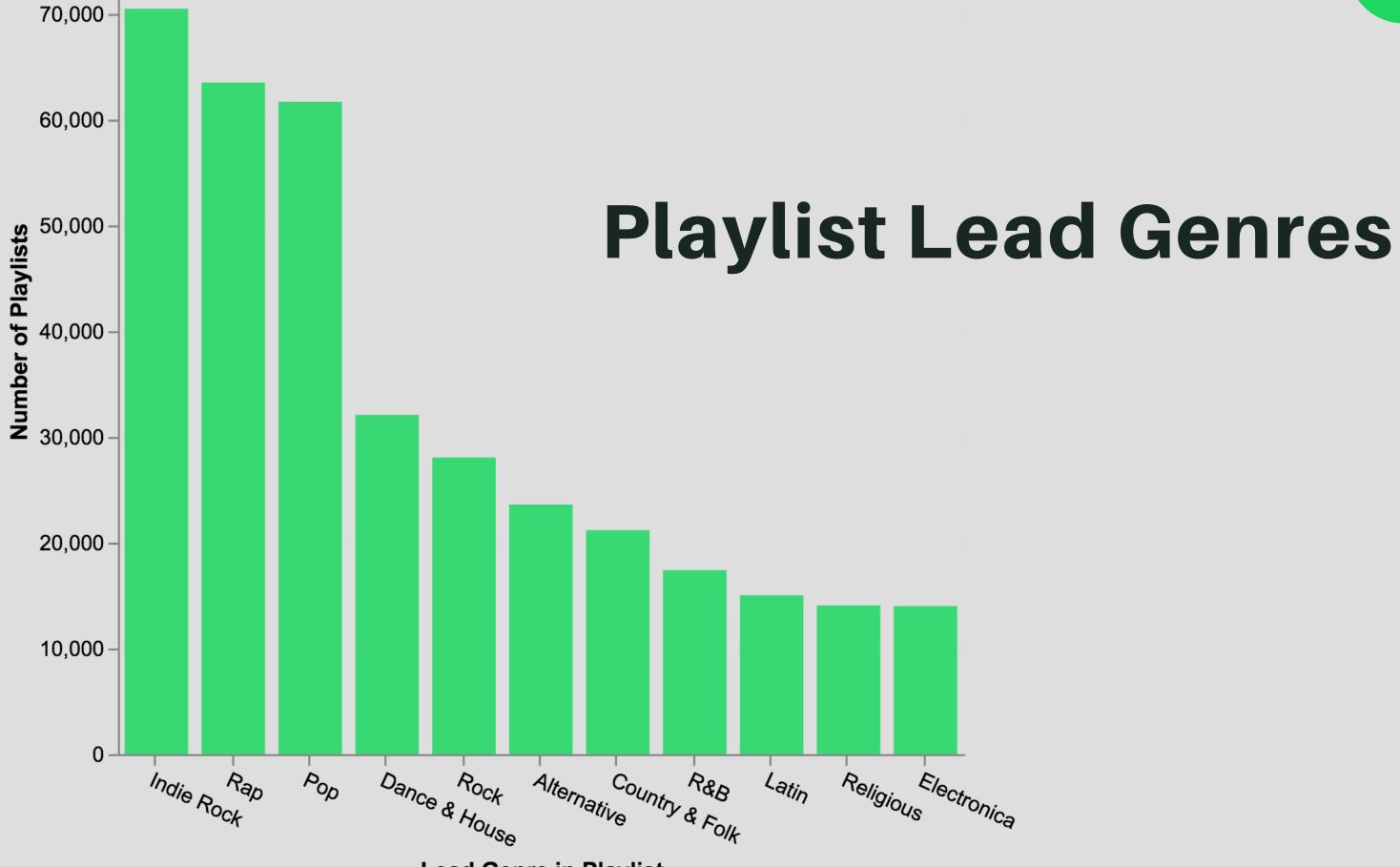






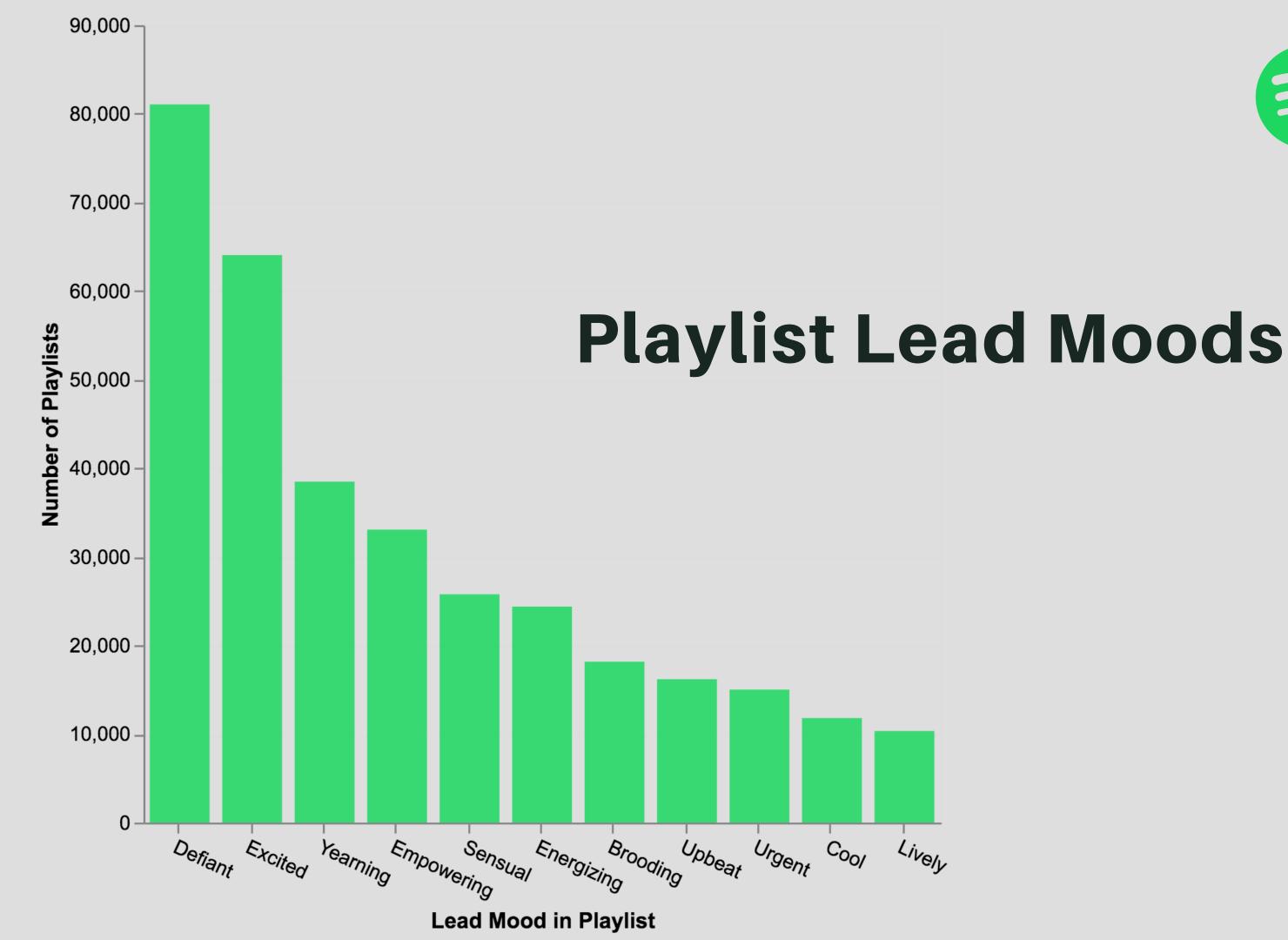
# Exploratory Data Analysis & Visualization

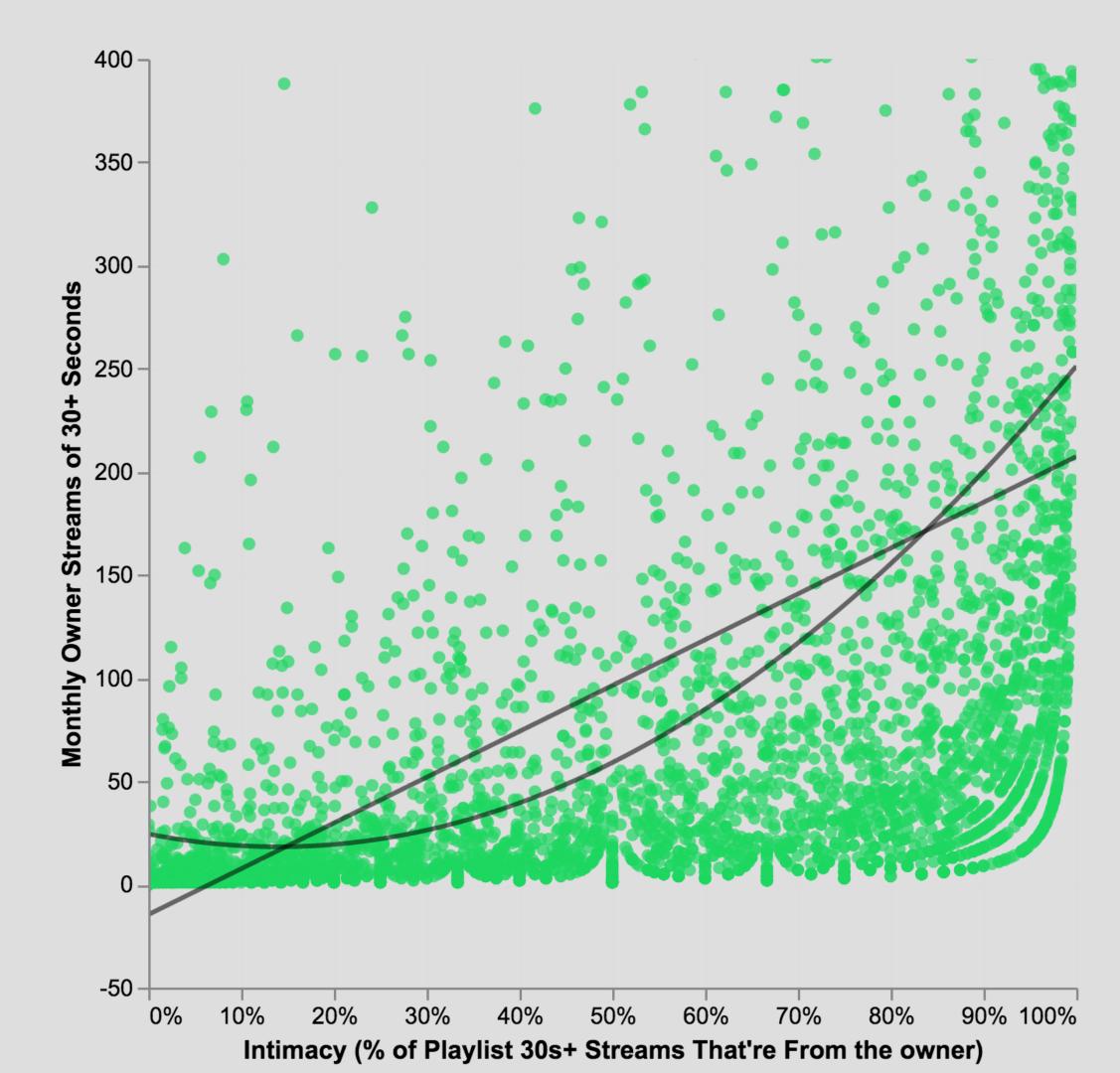




80,000

**Lead Genre in Playlist** 

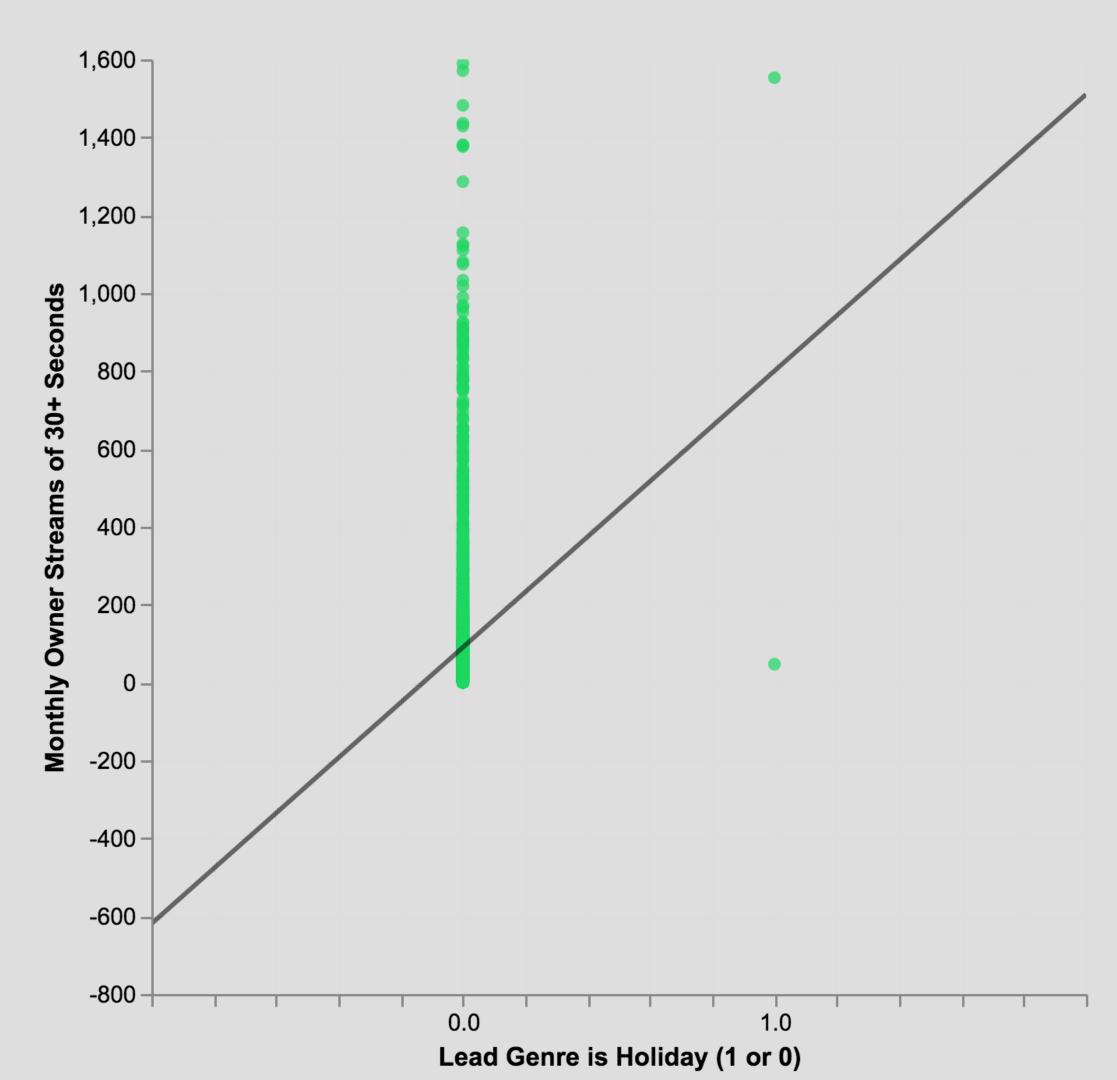






### Intimacy

I contend that the proportion of a playlist's monthly 30+ second streams that come from YOU demonstrates the playlists's intimacy.

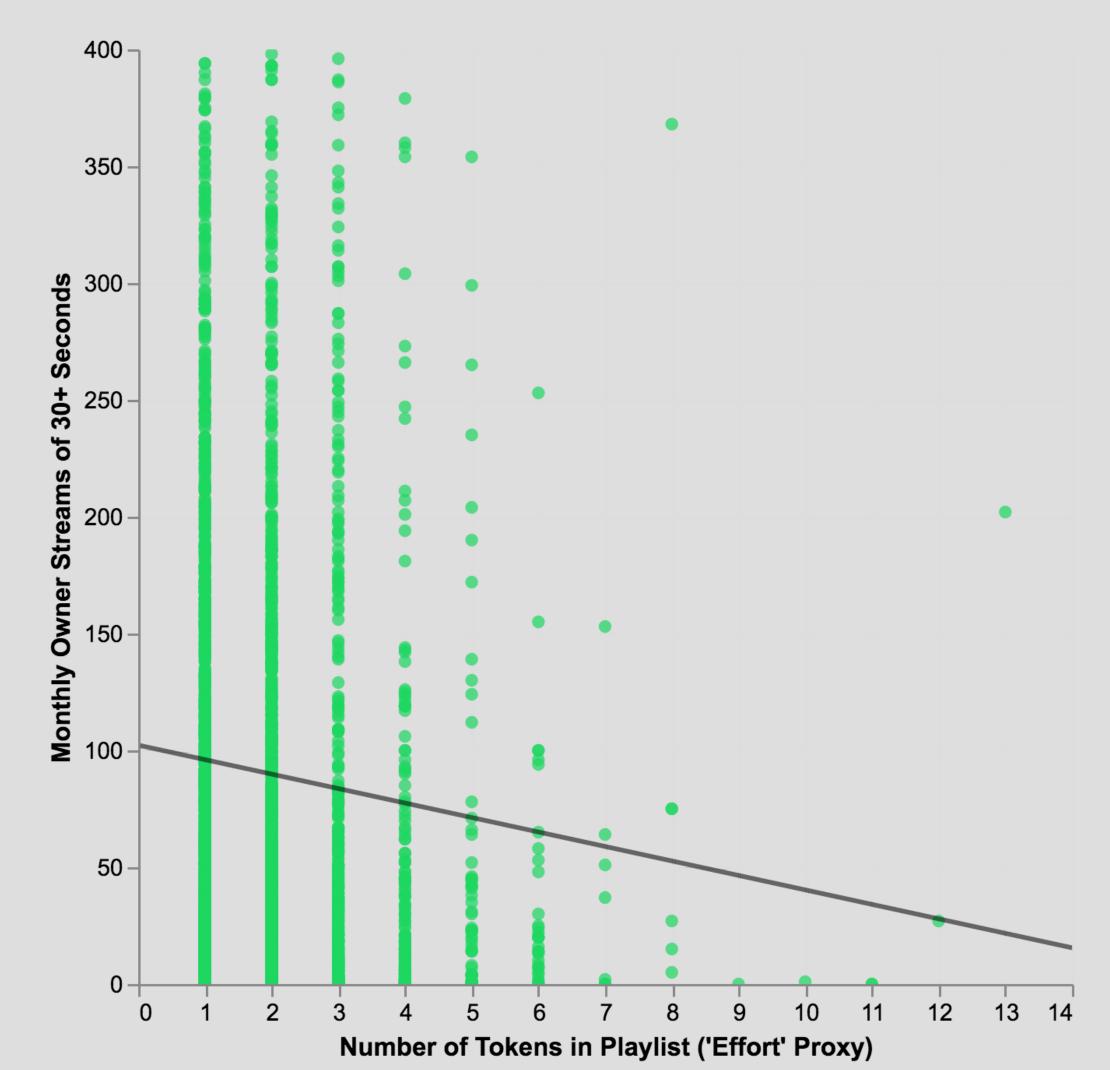




### A Holiday Hunch...

Playlists with 'Holiday' as the Lead Genre are pretty rare. 158 out of 402,967 user playlists (this excludes the 399 official Spotify playlists).

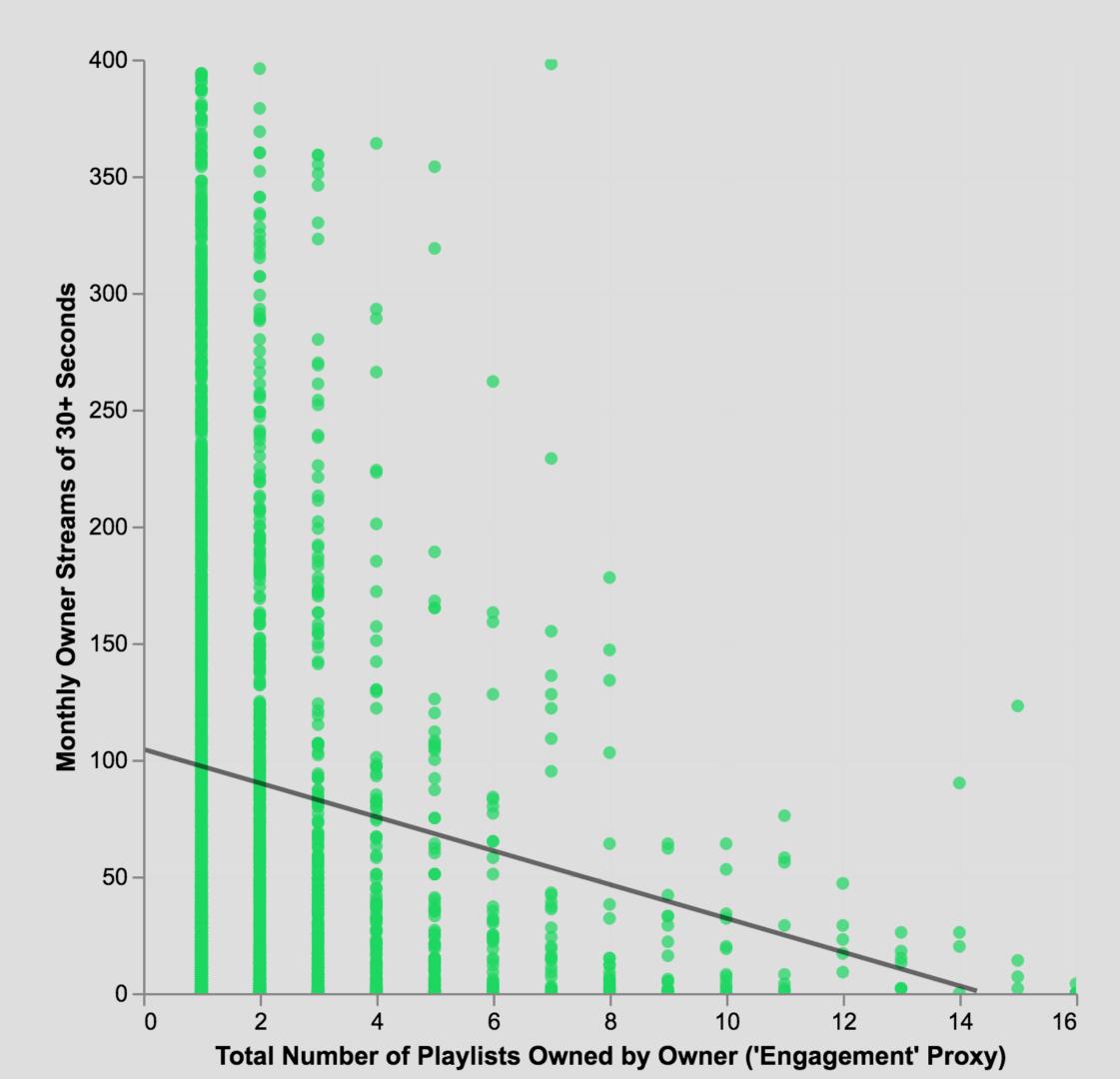
But it sure looks like holiday playlists get a LOT of streams. I'd need more data to properly analyze this.





# Sometimes the data surprises you

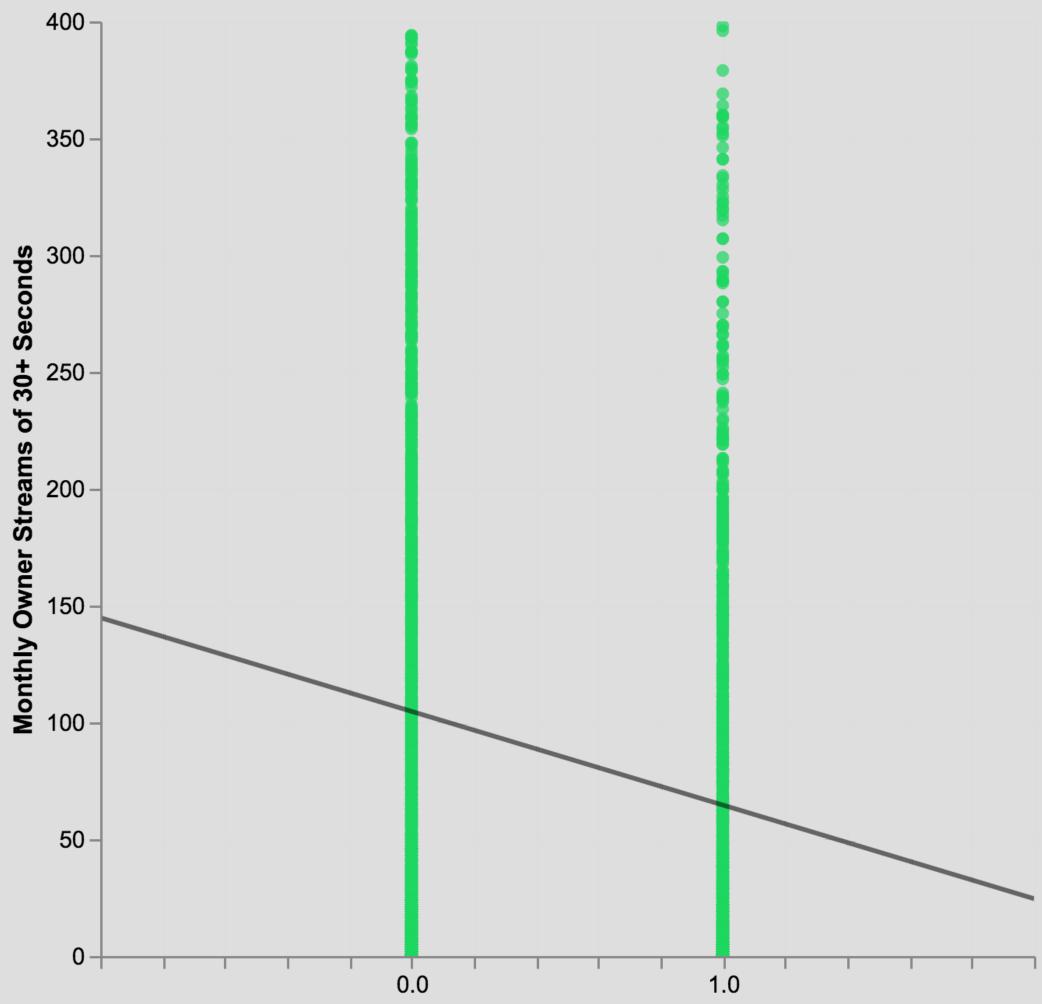
Unpacking the token data took a lot of work. But I figured it was worth it. Why? I thought the more 'effort' someone put into their playlist, maybe the longer its name would be, and then the more it'd get streamed. Wrong. The fewer the tokens, the more the streams!





# And still the data surprises you...

I thought the more playlists a user owned, the more engaged they would be on the platform, and the more times they would stream their playlists. **Wrong**. It looks like people who own just one or two playlists are more **focused** on them.





# ...Having more than one playlist was associated with fewer streams.

Whether or Not We Know an Owner to Own Mulitple Playlists (1 or 0)

# 400 350 300 Monthly Owner Streams of 30+ Seconds 50 Whether or Not We Know an Owner to be a Premium Subscriber (1 or 0)

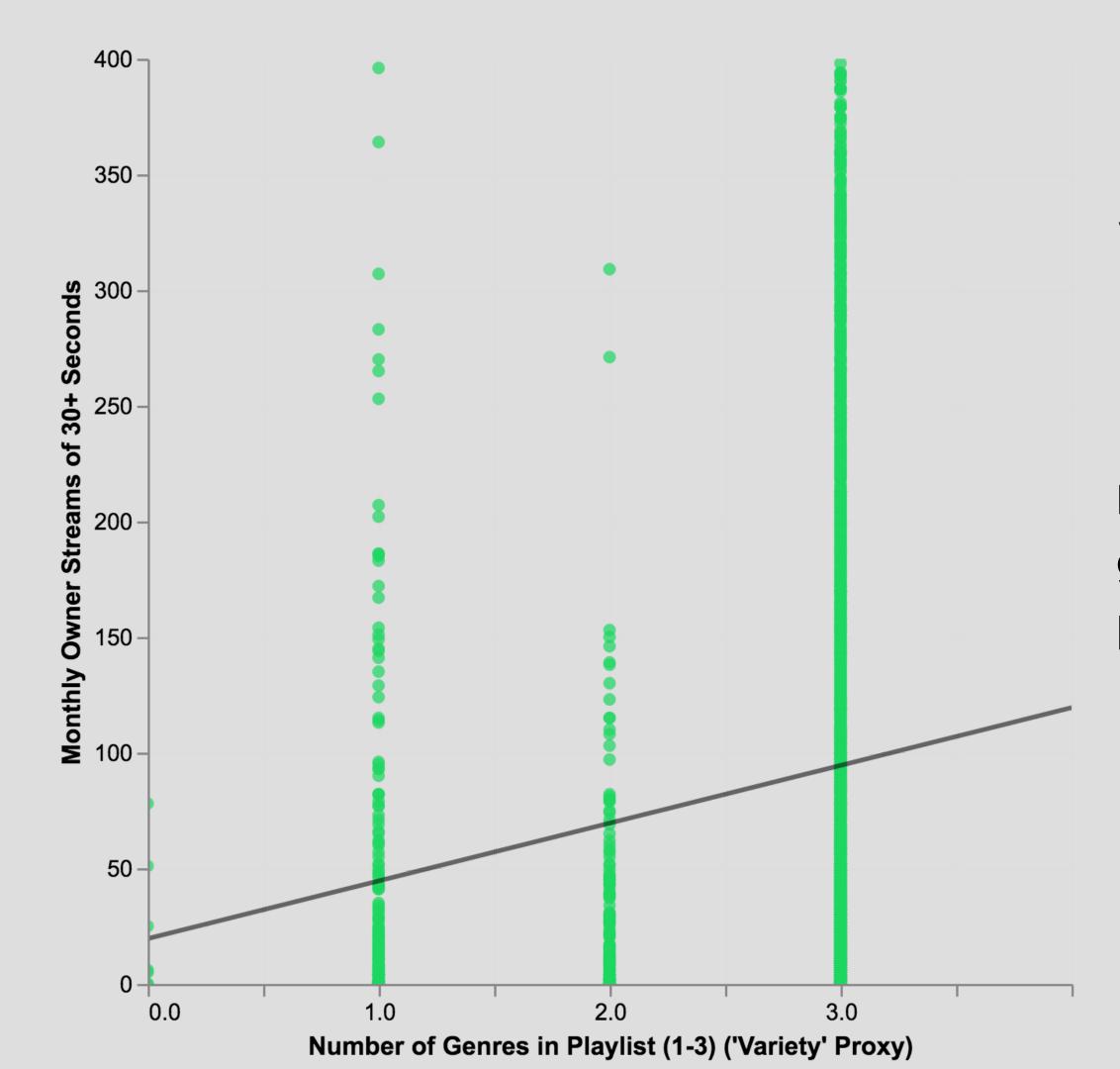
# ...But having Premium was associated with more streams.

According to Spotify's website, loading local tracks onto the platform is a Premium service. Thus, whenever a playlist had local tracks, I coded the owner as Premium. Note: a Premium user may also put zero local tracks in a playlist, so this list isn't exhaustive.

# Idea 1: Intimacy. It's about you.

FOCUS, INTIMACY, AND PERSONALIZATION MAY BE KEYS TO HIGHLY-PLAYED USER-MADE PLAYLISTS.

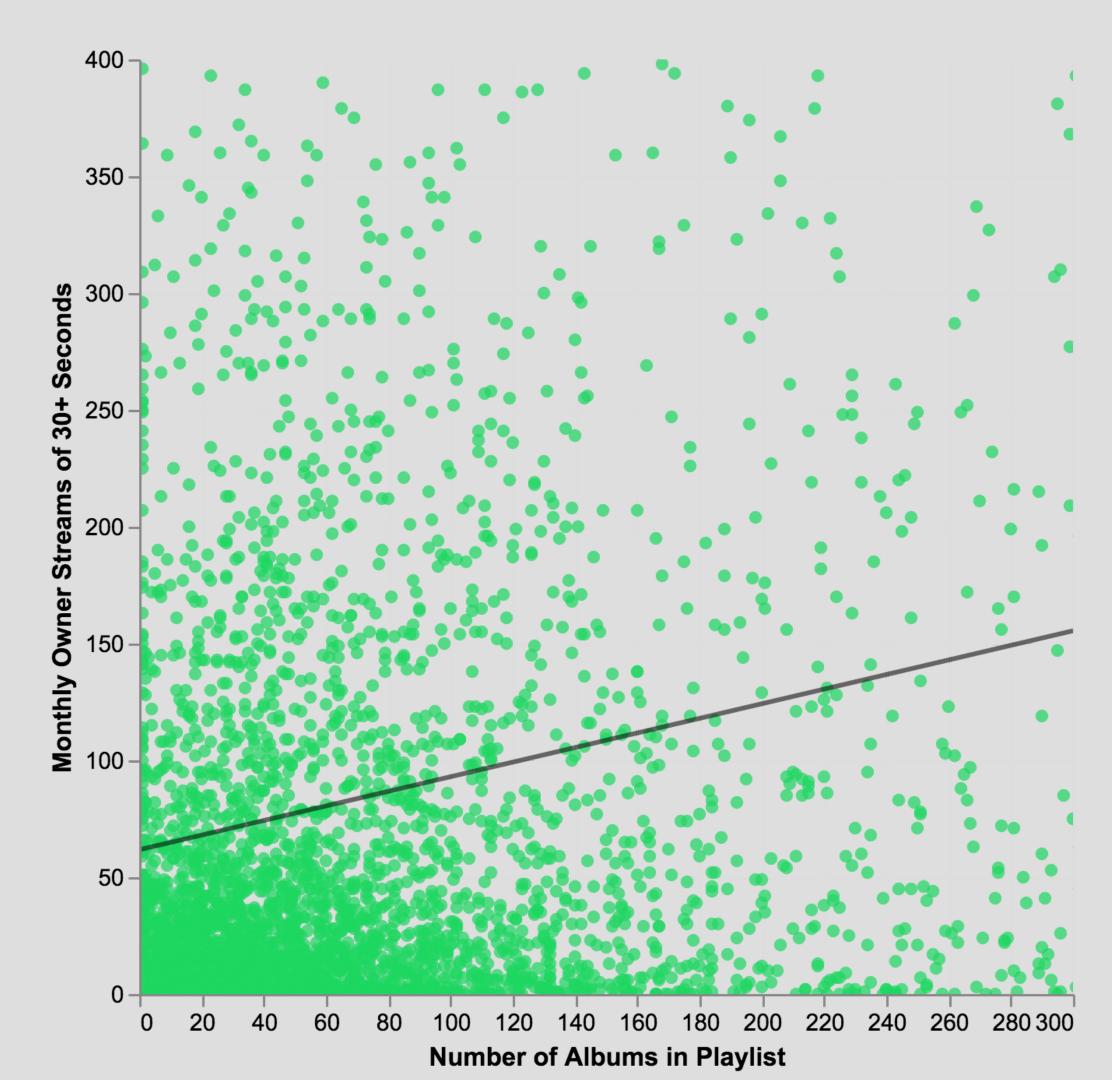
THE MORE NARROWLY TAILORED THE PLAYLIST IS TO YOU, THE BETTER, EVEN IF THAT MEANS FEWER PEOPLE (OTHER THAN YOU) ARE STREAMING IT.





# Variety is Important

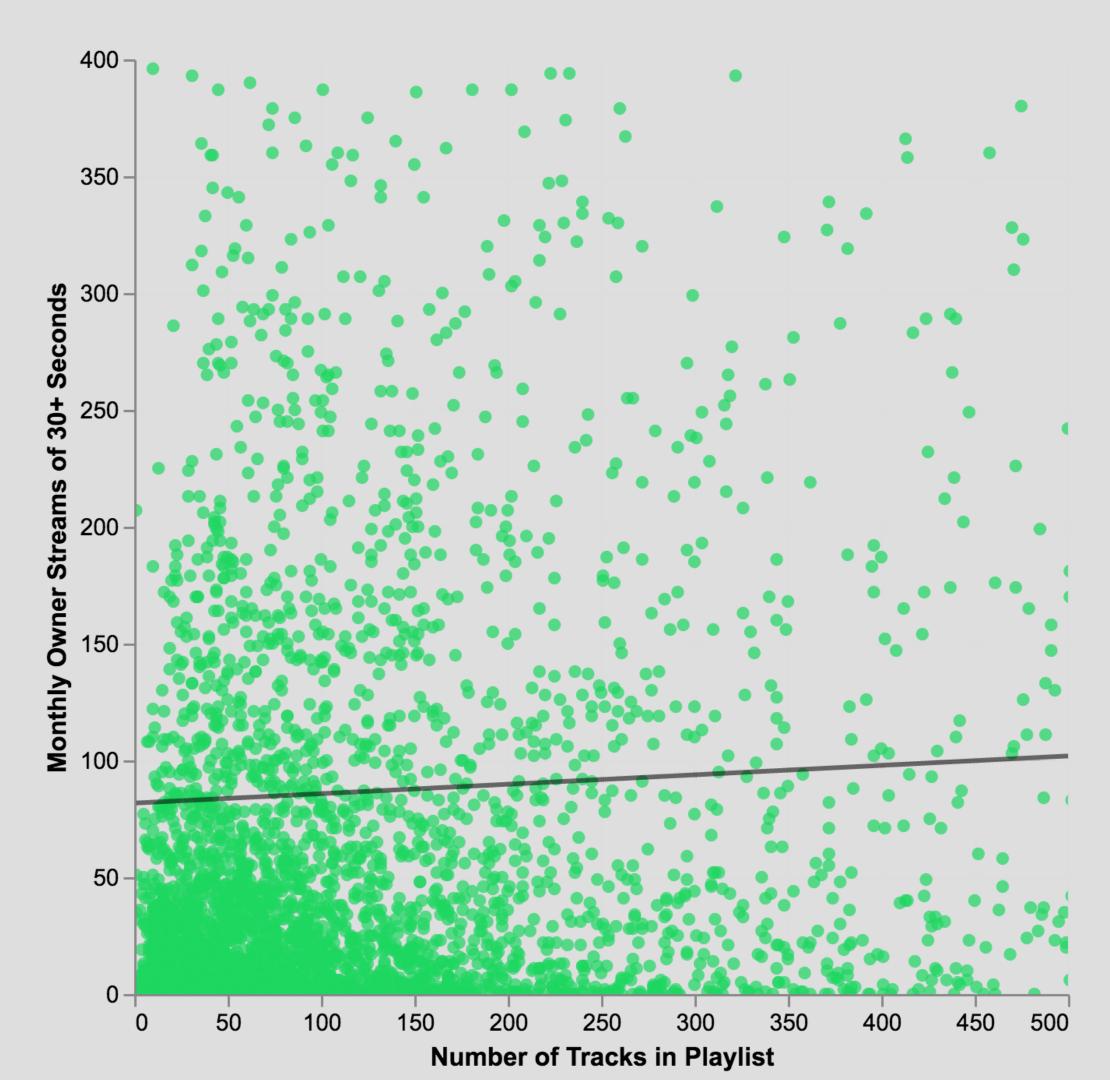
Playlists with three different genres had more streams than playlists with just one.





## Variety is Important

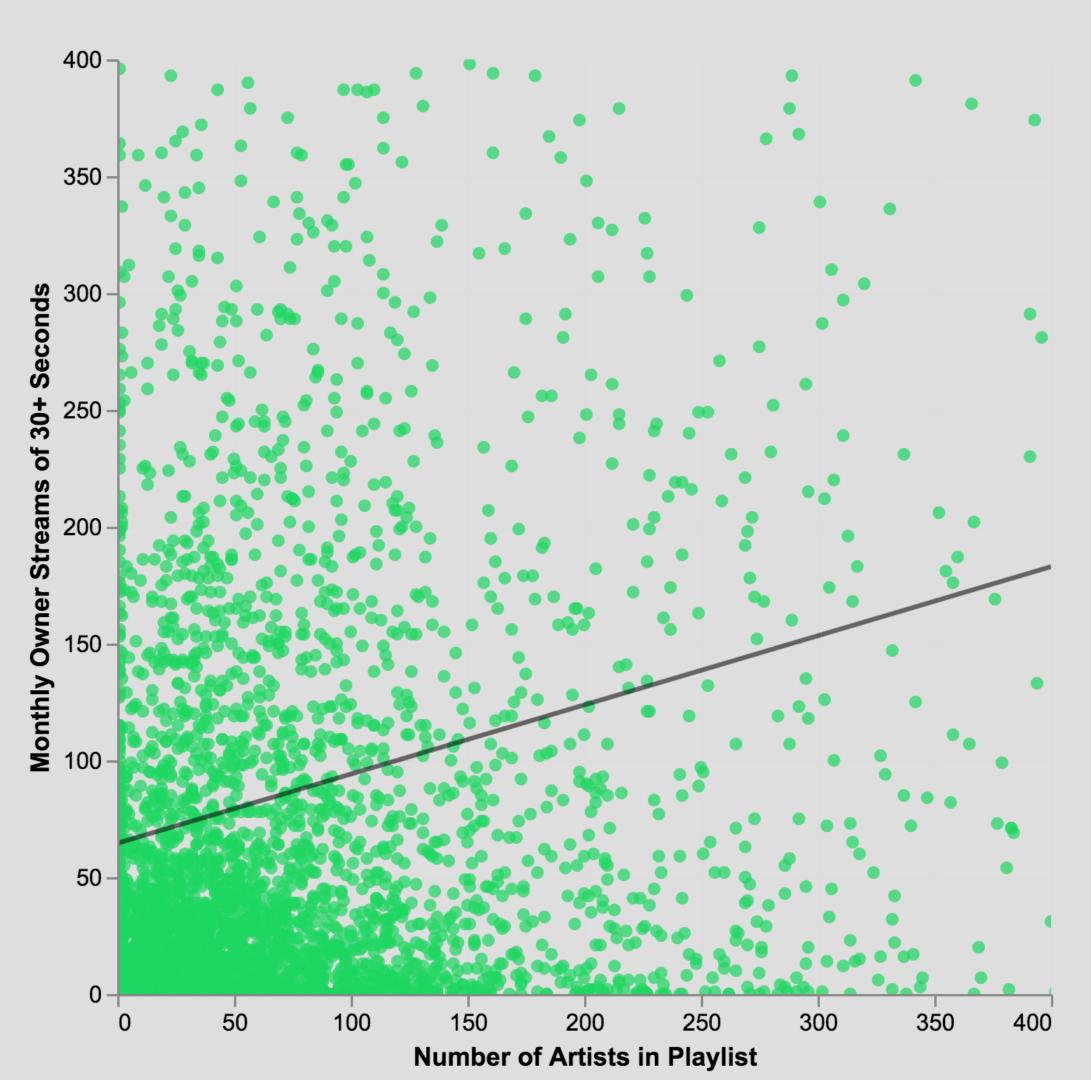
The more albums in a playlist, the better.





# ...But number of tracks in a playlist does not seem to matter as much.

And this makes sense for our chosen dependent variable because each time a song is played for more than 30s it counts as a stream, even if it's the same song played on repeat.





It's variety that's key. The more artists, the better too.

### Idea 2: Variety is key.

ALTHOUGH THEME AND GENRE ARE IMPORTANT,
THIS MUST NOT COME AT THE EXPENSE OF
PLAYLIST VARIETY. VARIETY BOLSTERS THE USER
DISCOVERY PROCESS.



# Modeling

### A STATISTICIAN'S PERSPECTIVE • A STATISTICIAN'S PERSPECTIVE • A STA

"Remember that all models are wrong; the practical question is how wrong do they have to be to not be useful."

GEORGE E. P. BOX (1919-2013)

STATISTICIAN'S PERSPECTIVE • A STATISTICIAN'S PERSPECTIVE • A STAT

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spotify:us	ser:cbd243 US ser:020f84 US ser:7b2882	17 dc1e5c9333 110 60253e2f04 122 6e7cdfcfd8	0 13f3bbffd 0 f9360bbb0 1 daaef5399	16 de3e77b:p 1 f381c1e:p 81 a344959:p	17 laylist:: 11 laylist:: 90 laylist:!	25 1cXT82UHu 74 3nXBOwbEj 67 5QWYAANVq	0 DoXbdrxf 51 Y6AaQhww 63  lQKd5Fva	["neverb Cg5pz ["oscar" TBp7v ["sexy", 27Wkv	oack"] cbd243dd ', "hijos 020f8460 "time"] 7b288260	Alterna: 21e5c933: 5"] 0253e2f04 e7cdfcfd	tive 313f3bbf Latin 4f9360bb Alterna 8daaef53	Metal fdde3e77b - b0f381c1e tive 99a344959	Punk - : Indie Ro	19 Lively 0 ck 140	19 Fiery 0 Rock 139	1 Cool 0 Defiant 1	2 1 Empoweri 1	4	2	1 2 1	<ul><li>2</li><li>9</li><li>2</li><li>6</li></ul>
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spotify	user:426e9	, 30e2hf:														10	1	1	2	2	1	4
)	) [19	)	339							', "songs		Pop				Empoweri	na	Excited	- Yearning	<u> </u>	-	•
spotify:	user:bbc9b	817619							_	•	_				0	0	0	1	2	<b>1</b>	1	2
			100			_	65			"septemb		Indie R			New Age	Urgent	Empoweri	na	Energizi	ina		



### 1. READ IN THE DATA

```
In [ ]: import pandas as pd
            import numpy as np
In [ ]: spotify = pd.read csv("playlist summary external.txt", delimiter='\t')
       ]: spotify.shape
In [
Out[ ]: (403366, 25)
In [ ]: pd.set option('display.max columns', None)
           spotify.head(9)
Out[ ]:
          country n_tracks n_local_tracks n_artists n_albums monthly_stream30s monthly_owner_stream30s
                                                                                                              tokens genre_1
                                                                                                                                 genre_2
                                                                                                                                            genre_3
                                                                                                                                                      mood_1
                                                                                                            ["ambient",
                                                                                                              "music",
                                                                                                                                           Country &
                                                                                                                      Dance &
              US
                        52
                                                          7
                                                                           30
                                                                                                    27
                                                                                                                                                      Peaceful
                                                                                                                                 New Age
                                                                                                            "therapy",
                                                                                                                        House
                                                                                                        "binaural", "b...
                                                                                                              ["good",
              US
                       131
                                       0
                                              112
                                                                          112
                                                                                                   94
                                                        113
                                                                                                                                Indie Rock Alternative
                                                                                                                                                       Excited
                                                                                                              "living"]
              US
                        43
                                       0
                                               35
                                                         36
                                                                           63
                                                                                                     0 ["norte\u00f1a"]
                                                                                                                                                        Lively
                                                                                                                         Latin
                                                                                                                      Dance &
              US
                        27
                                                         26
                                                                                                   108
                                                                                                                               Electronica
                                               27
                                                                          154
                                                                                                                                                       Excited
                                                                                                                        House
                                                                                                            ["cheesy",
                                                                                                                         Indie
              US
                        52
                                       0
                                               47
                                                         51
                                                                          230
                                                                                                     0
                                                                                                                                Alternative Electronica
                                                                                                                                                       Excited
                                                                                                                         Rock
                                                                                                              "pants"]
              US
                         8
                                       1
                                                7
                                                          7
                                                                           73
                                                                                                        ["aids", "walk"]
                                                                                                                                                      Brooding
                                                                                                                                Alternative
                                                                                                                         Rock
              US
                                                7
                                                                                                                               Soundtrack
                                                                                                             ["classy"]
                                                                                                                      Classical
                                                                                                                                          Alternative
                                                                                                                                                       Tender
                                                                                                            ["iranian",
                        33
                                                                                                    53
              US
                                                         24
                                                                          256
                                                                                                                          Rap Soundtrack
                                                                                                                                               Rock
                                                                                                                                                       Excited
                                                                                                                "rap"]
```



### 2. TOKEN COUNT (EFFORT PROXY)

#### FEATURE ENGINEERING EXAMPLE

```
In [ ]: #length of tokens
    token_count = []
    for i in range(len(spotify.tokens)):
        length = len(spotify.tokens[i].split(","))
        token_count.append(length)
    #this gives us a count of how many words (tokens) there are in a set with 1 being the lowest
    #even an empyt list will be a 1
In [ ]: token_count[:10]
Out[ ]: [9, 2, 1, 1, 2, 2, 1, 2, 1, 2]
In [ ]: spotify['token_count'] = token_count
```



### 3. GENRE COUNT (VARIETY PROXY) FEATURE ENGINEERING EXAMPLE

```
In [ ]: #now I am trying to count how many genres are listed in one playlist
         genre_count = []
         for i in range(len(spotify.genre_1)):
             row genre count = 3
             if spotify.genre_1[i] == '-':
                 row_genre_count += -1
             if spotify.genre 2[i] == '-':
                 row_genre_count += -1
             if spotify.genre_3[i] == '-':
                 row genre count += -1
             genre count.append(row genre count)
In [ ]: genre_count[:11]
Out[ ]: [3, 3, 1, 3, 3, 3, 3, 3, 3, 3, 1]
In [ ]: spotify['genre count'] = genre count
```

### 4. OWNER PLAYLIST COUNT (ENGAGEMENT)

#### FEATURE ENGINEERING EXAMPLE

```
In [ ]: owner frequency = spotify['owner'].value counts().to dict()
In [ ]: owner frequency['47f677584fac29bc905cb4fe70c22c88'] #incredible!!!
         #this is one of the times i've really seen pandas roar
Out[ ]: 3
     owner frequency
Out[ ]: {'spotify': 399,
          '6987037f34b5cee787a1a5e8de9b2689': 48,
                                                                   number of playlists
          'a5add6d0d5fbebb01abb2fbe7e47208d': 47,
          'f54f32d1c706754a70f8392aa1dbad46': 44,
                                                                  owned by given user
          '4a03268bef1505a49f8b3eced879f311': 43,
          '9ff1b837bb1262d44f2194549748385a': 40,
          '17d6159195b25d619e0eff98f809c90e': 40,
In [ ]: owner playlist count = []
         for i in range(len(spotify.owner)):
             needed string = spotify.owner[i]
             owner playlist count.append(owner frequency[needed string])
In [ ]: owner playlist count[:20]
Out[ ]: [2, 1, 2, 3, 1, 1, 3, 1, 1, 1, 1, 1, 4, 4, 2, 3, 1, 2, 1, 1]
     |: spotify['owner playlist count'] = owner playlist count
In [
```



### 5. % OWNER STREAMS (INTIMACY PROXY) FEATURE ENGINEERING EXAMPLE



# 6. SEPARATING USER-MADE FROM OFFICIAL SPOTIFY-MADE PLAYLISTS

```
In [ ]: spotify_user_playlists = spotify[spotify.owner != 'spotify']
In [ ]: spotify_official_playlists = spotify[spotify.owner == 'spotify']
In [ ]: spotify_user_playlists.shape
Out[ ]: (402967, 199)
In [ ]: spotify_official_playlists.shape
Out[ ]: (399, 199)
In [ ]: spotify_user_playlists.to_csv("spotify_user_playlists.csv", index = False)
In [ ]: spotify_official_playlists.to_csv("spotify_official_playlists.csv", index=False)
```



### 7. SENDING THEM TO SQL:)



### 8. THIS IS HOW I READ SQL IN PYTHON!

```
In [ ]: #this is where we are getting some info from the data set
    df = pd.read_sql("""
    select
    playlist_sole_id as 'Playlist ID',
    tokens as 'Tokens',
    round(token_sentiment_score, 4) as 'Token Sentiment Score'
    from sys.spotify_user_playlists2
    order by 3 asc
    limit 11;
    """, con=db)
In [ ]: df
```

	Playlist ID	Tokens	Token Sentiment Score
0	1awu4P3xtUYkkpkTn2H6fl	["boss", "ass", "bitch", "bitch", "bitch", "bi	-0.9623
1	1v8iwl5ehBWHgTfpJHYu9f	["killer", "killed", "killer", "killed"]	-0.9618
2	5rnoJcL2ssx56EgOHlKxEs	["killer", "killed", "killer", "killed"]	-0.9618
3	5uFFoFd935fHpsjNyS0gjo	["punk", "punk", "goes", "black", "death", "he	-0.9413
4	3eZxZLBMuncTetclqdFu17	["yung", "based", "boy", "shit", "feel", "homi	-0.9403
5	561AfqMPTVuCcBLHf7GqQB	["fuck", "bad", "bad", "bitch"]	-0.9360
6	3ABdz7AF9UGsf0p6ls0RTQ	["dope", "ass", "trick", "ass", "sucka", "ass"	-0.9360
7	3XYRrF0FdmbNYJzVZIB9ml	["hell", "yeah", "bitch", "go", "hard", "hell"	-0.9217
8	7eSo6eg25wtRnMQeYmuMWr	["depressing", "ass", "depressed", "shit"]	-0.9186
9	6eXrG7eVailErqsyWyY3rU	["shit", "kill", "shit"]	-0.9169
10	4jyKtjc4TUEoY9tjCCg6sD	["kill", "people", "burn", "shit", "fuck", "sc	-0.9153

Out[ ]:

### 9. SET UP THE DUMMY VARIABLES

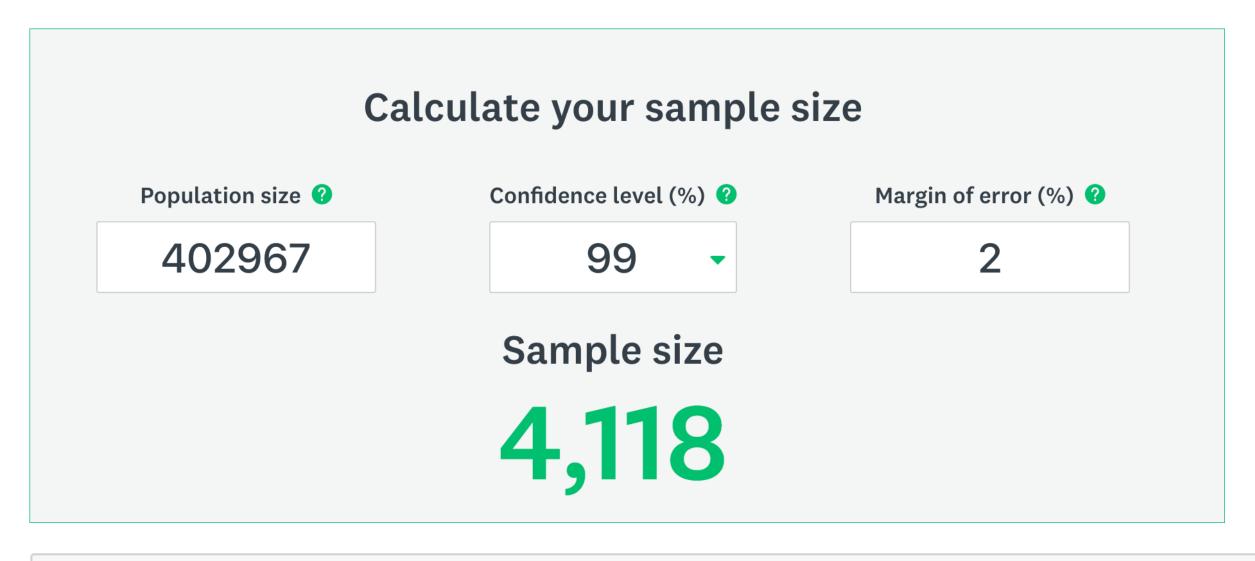
#### SK-LEARN AUTOMAGICALLY HANDLES THE DUMMY VARIABLE TRAP

```
In [ ]: spotify dummies = pd.get dummies(spotify[['genre 1', 'genre 2', 'genre 3', 'mood 1', 'mood 2', 'mood 3']])
      spotify dummies.sample(4)
In [
Out[ ]:
                                                                                      genre_1_Country genre_1_Dance genre_1_Easy
                  genre_1_- genre_1_Alternative genre_1_Blues genre_1_Children's genre_1_Classical
                                                                                                                             genre_1_Electroni
                                                                                              & Folk
                                                                                                          & House
                                                                                                                     Listening
            61563
                        0
                                         0
                                                     0
                                                                     0
                                                                                    0
                                                                                                  0
                                                                                                               0
                                                                                                                           0
                                                                                    0
                        0
                                         0
                                                                     0
                                                                                                               0
                                                                                                                           0
           331772
                        0
                                                                                                                           0
           101341
           167513
                        0
                                         0
                                                                     0
                                                                                    0
                                                                                                  0
                                                                                                               0
                                                                                                                           0
In [ ]: #"Combine DataFrame objects horizontally along the x axis by passing in axis=1."
          spotify = pd.concat([spotify,spotify dummies], axis = 1)
      : spotify.shape
     ]: (403366, 193)
Out[
```



### 10. SET UP POPULATION SAMPLE

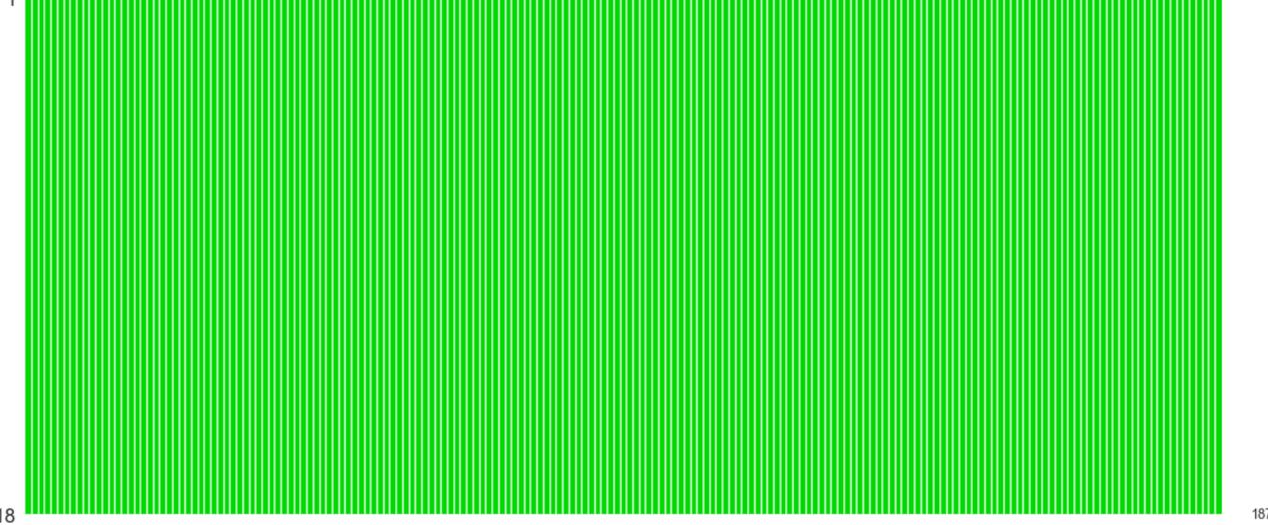
WWW.SURVEYMONKEY.COM/MP/SAMPLE-SIZE-CALCULATOR/



```
In [ ]: spotify_lite = spotify.sample(4118).reset_index()
In [ ]: spotify_lite.shape
Out[ ]: (4118, 200)
```



### 11. CHECK SAMPLE FOR NULLS





### 12. REMOVE OUTLIERS

```
In [ ]: outlier watch cols = ['streams', 'stream30s','dau','wau','mau','mau_previous_month',\
                                'mau both months', 'users', 'skippers', 'n tracks', 'n local tracks', \
                                'n artists', 'n albums', 'monthly stream30s', 'monthly owner stream30s']
         #the other columns are basically metrics based on these or things where it only goes from
         #say 1 to 3 (as in the genre count one)
         for i in range(len(outlier watch cols)):
             spotify lite numeric no outliers =\
             spotify lite numeric[np.abs(spotify lite numeric\
                                                      [outlier watch cols[i]]-\
                              spotify lite numeric[outlier watch cols[i]].mean())\
                <= (2.17*spotify lite numeric[outlier watch cols[i]].std())]</pre>
             #2.17 covers basially 98.5% of all data under a normal distribution curve
             #just to 'feel out' the data, I want to take out the top 1.5# of numbers
In [ ]: spotify_lite_numeric_no_outliers.shape
Out[ ]: (4014, 187)
In [ ]: #just a little intermediary check for completeness
         temp spotify lite numeric no outliers no na = spotify lite numeric no outliers.dropna()
         temp spotify lite numeric no outliers no na.shape
Out[ ]: (4014, 187)
```

### 13. SPLIT FEATURES & INDEPENDENT VAR. THIS IS FOR INITIAL EXPLORATION BEFORE TRAIN/TEST SPLIT

```
In [ ]: #the independent variables (features):
    features = spotify_lite_numeric_no_outliers.drop(columns = ['monthly_owner_stream30s'])
    #the dependent variable (y):
    y = spotify_lite_numeric_no_outliers.monthly_owner_stream30s
```

Now we begin the process.



### 14. ANY STATISTICAL SIGNIFICANCE?

In [	]:	regressor_OLS	summary()		
Out[	]:	OLS Regression Resu	ults		
		Dep. Variable:	monthly_owner_stream30s	R-squared:	0.412
		Model:	OLS	Adj. R-squared:	0.385
		Method:	Least Squares	F-statistic:	15.02
		Date:	Wed, 31 Jul 2019	Prob (F-statistic):	5.85e-321
		Time:	13:01:06	Log-Likelihood:	-22940.
		No. Observations:	4014	AIC:	4.624e+04
		Df Residuals:	3834	BIC:	4.737e+04
		Df Model:	179		
		Covariance Type:	nonrobust		
		coef	std err t P> t	[0.025 0.975]	
		0 0 101	0 607 0 076 0 707	10 671 00 167	



### 15. FEATURE SELECTION

```
This begins the sklearn portion of the show.

In [ ]: most_relevant_features = ['stream30s', 'dau', 'wau', \
```



### 16. FEATURE PRUNING



### 17. THE CHOSEN ONES

 Method:
 Least Squares
 F-statistic:
 1146.

 Date:
 Wed, 31 Jul 2019
 Prob (F-statistic):
 0.00

 Time:
 15:50:31
 Log-Likelihood:
 -23282.

 No. Observations:
 4014
 AIC:
 4.657e+04

 Df Residuals:
 4010
 BIC:
 4.660e+04

Df Model:	4
Covariance Type:	nonrobust

	coef	std err	t	P> t	[0.025	0.975]
n_albums	0.1879	0.012	16.029	0.000	0.165	0.211
genre_count	-3.5340	0.955	-3.702	0.000	-5.406	-1.662
monthly_owner_stream30s_to_monthly_stream30s_ratio	132.3355	3.735	35.427	0.000	125.012	139.659
owner_playlist_count	-2.2438	0.593	-3.782	0.000	-3.407	-1.081



### 18. TRAIN/TEST SPLIT

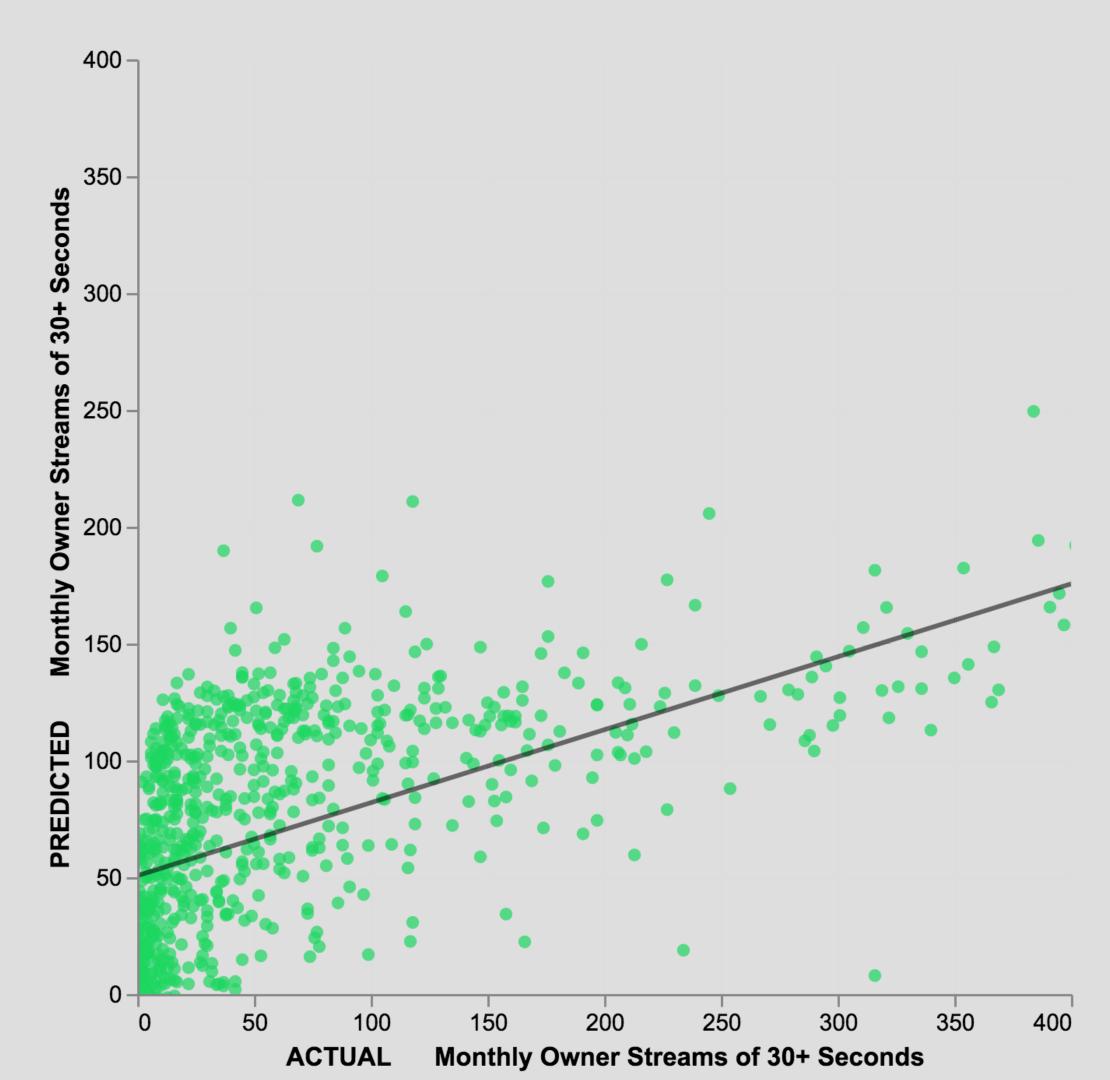
```
In [ ]: X_train, X_test, y_train, y_test = train_test_split\
         (chosen features, y, test size = 0.2, random state = 1)
In [ ]: model = LinearRegression()
         model.fit(X train,y train)
Out[ ]: LinearRegression(copy_X=True, fit_intercept=True, n_jobs=None,
                  normalize=False)
In [ ]: sorted(list(zip(most_relevant_features4, model.coef_))\
                , key = lambda x: abs(x[1]), reverse=True)
Out[ ]: [('monthly_owner_stream30s_to_monthly_stream30s_ratio', 135.33557249728625),
                                                                                                             sk-learn
          ('genre_count', 2.874949752342296),
          ('owner_playlist_count', -2.050225875348983),
                                                                                                           coefficients
          ('n_albums', 0.15740051956660164)]
In [ ]: y predicted = model.predict(X test)
In [ ]: #I want to get a dataframe ready for alttari
         model_scoring = pd.DataFrame(\
                      {'y_test': y_test, 'y_predicted': y_predicted, 'residual':\
                       (y predicted-y test)},\
                 columns=['y test', 'y predicted', 'residual']).reset index()
```

### 19. MODEL SCORING & CROSS-VALIDATION

```
]: r2 score(model scoring.y test, model scoring.y predicted)
Out[ ]: 0.3297546526887427
     ]: mean_absolute_error(y_test, y_predicted)
Out[ ]: 54.1607115248918
        median absolute error(y test, y predicted)
Out[
     39.92515627211054
In [ ]: #last let's look at the cross validation
         print("Cross-Validation Scoring")
         print('Mean Absolute Error: {}'.format(-1*round(cross val score(LinearRegression(), \)
                             chosen_features, y, cv=10, scoring='neg_mean_absolute_error').mean(),2)))
         #no option for RMSE in cross val score, so looking at mean absolute error
         #multiply by -1 to get a positive value to take a look at it
         print('R^2: {}'.format(round(cross val score(LinearRegression(), \)
                                                 chosen features, y, cv=10, scoring='r2').mean(),2)))
         Cross-Validation Scoring
```

Mean Absolute Error: 52.23

 $R^2: 0.3$ 

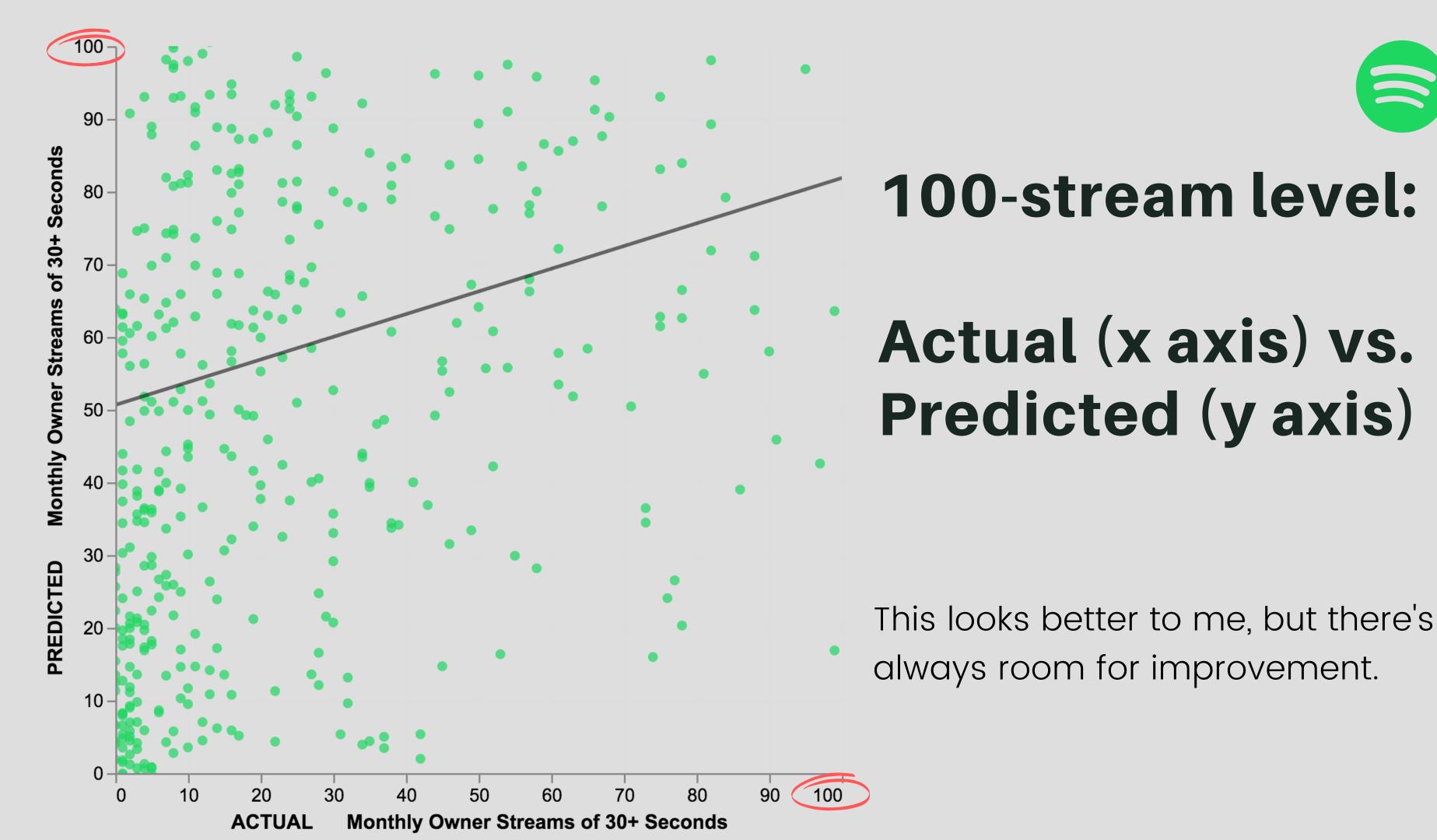


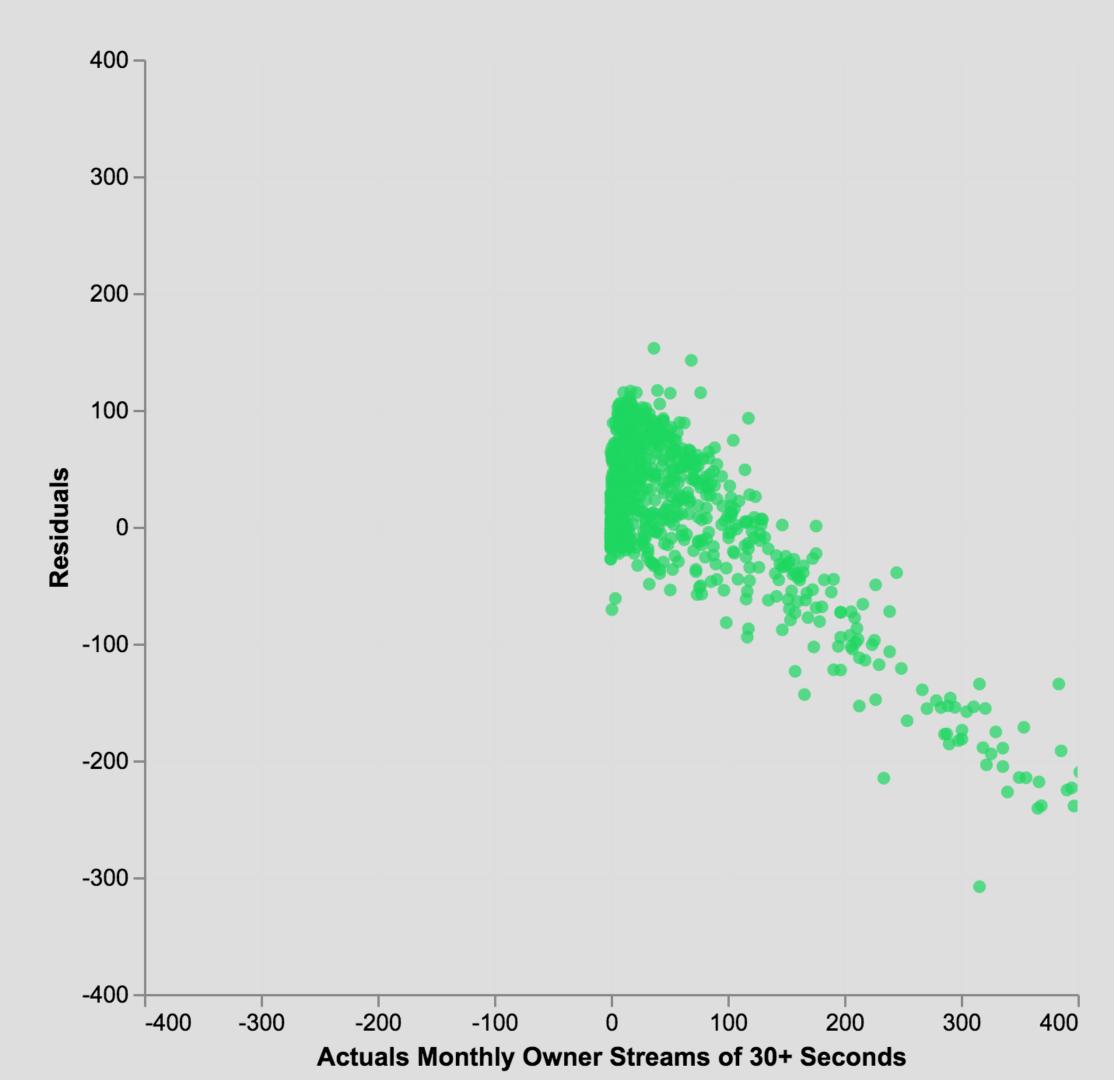


### Actual (x axis) vs. Predicted (y axis)

Not bad, but gets worse as the cases get more extreme. This makes sense because I eliminated the highest values from the training set.

We may consider focusing the model on the more common lower-frequency users.



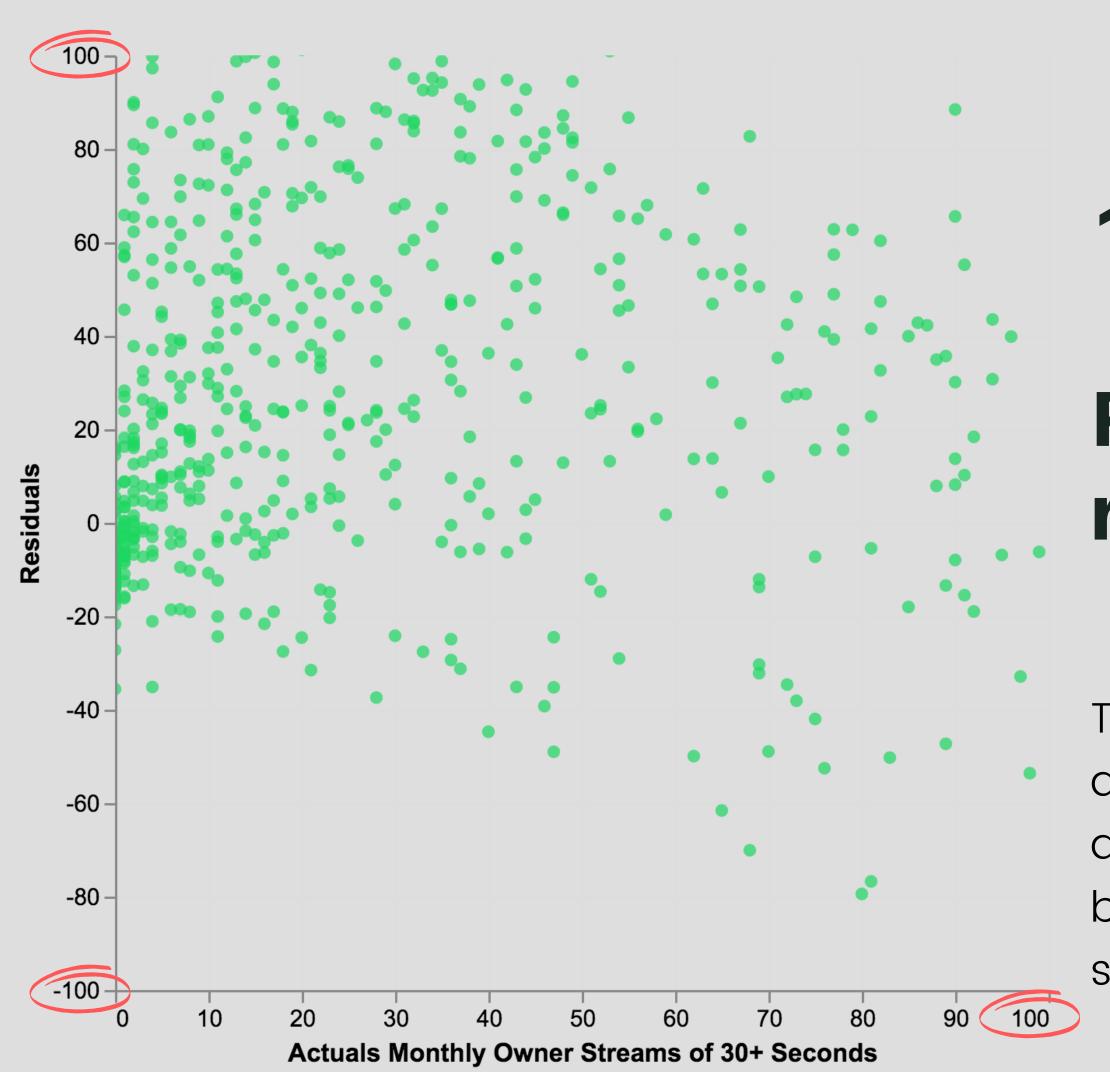




# Plotting the residuals.

Again, not bad at first, but gets worse as the cases get more extreme. This makes sense because I eliminated the highest values from the training set.

Just as before, we may consider focusing the model on the more common lower-frequency users.



### 100-stream level:

# Plotting the residuals.

This looks better to me, but there's always room for improvement. I also restricted this to positives because there can't be a negative stream count.



So... what makes a playlist successful?

### INTIMACY, FOCUS

Pos Corr: Owner's Proportion of Monthly Streams

Neg Corr: Number of Playlists User Owns

### VARIETY WITHIN THEME

Pos Corr: Number of Genres (up to 3)

Pos Corr: Number of Albums



## Next Steps



#### Ideas

Bring In Other Types of Machine Learning Models

Get More Spotify Data

Do New Analysis Focusing Only on Spotify-Official Playlists



# Thank you!

George John Jordan Thomas Aquinas Hayward, Optimist