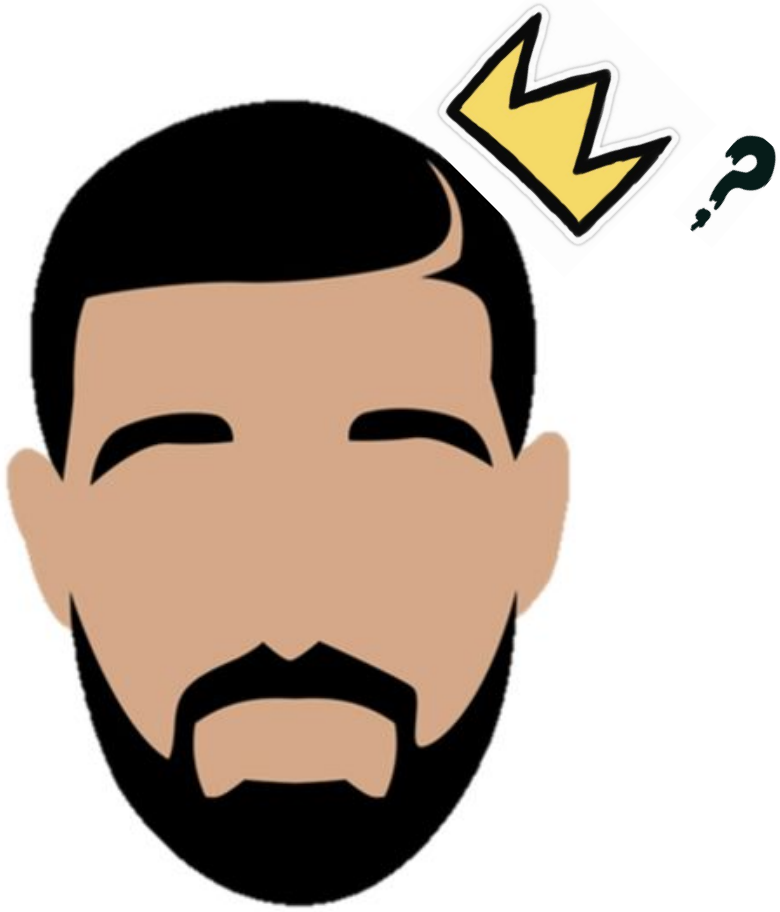

ם,

Agenda

Define the Problem

Collection

Cleaning

Exploring

Modeling

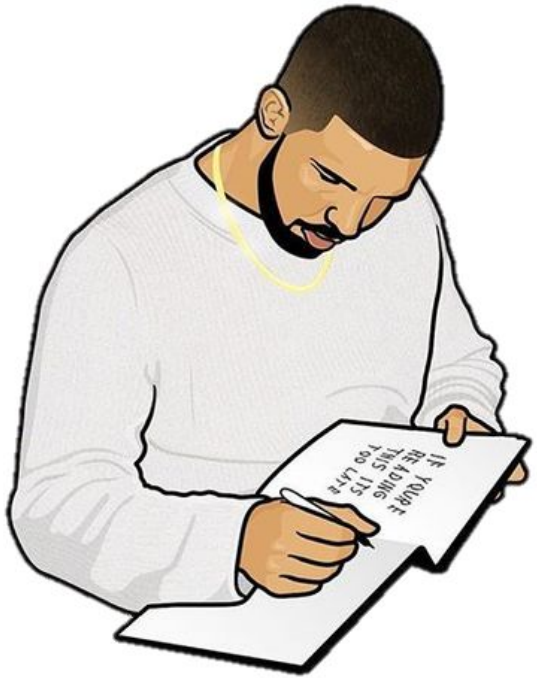
Topic Modeling

Text Generation

Answering

Define the Problem

Success v Lyricism



Who is Drake?

Problem Scope

Lyric Genius

Corpus

Artist Selection

Future Considerations

Collection

Cleaning

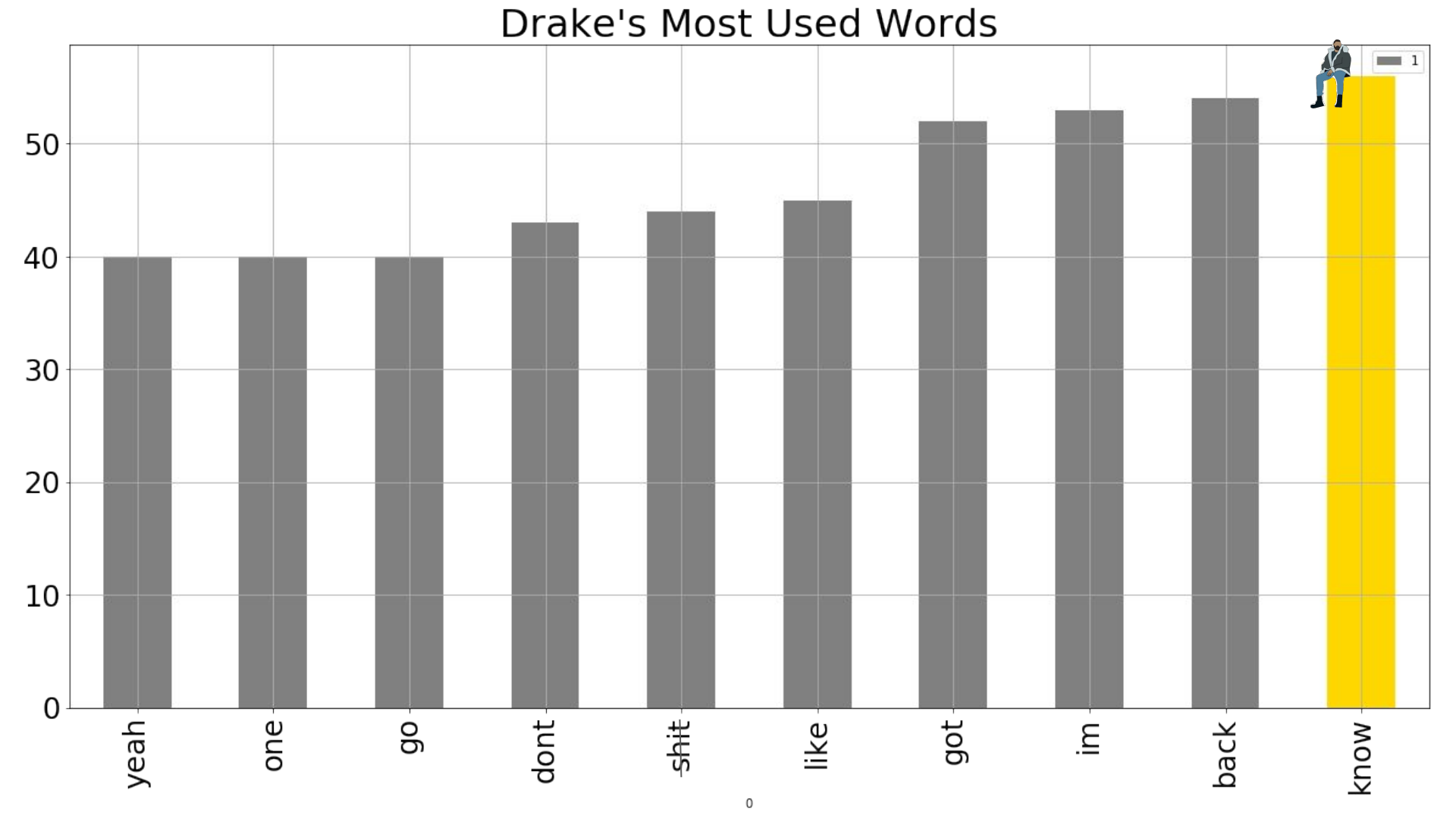
Preserve Profanity

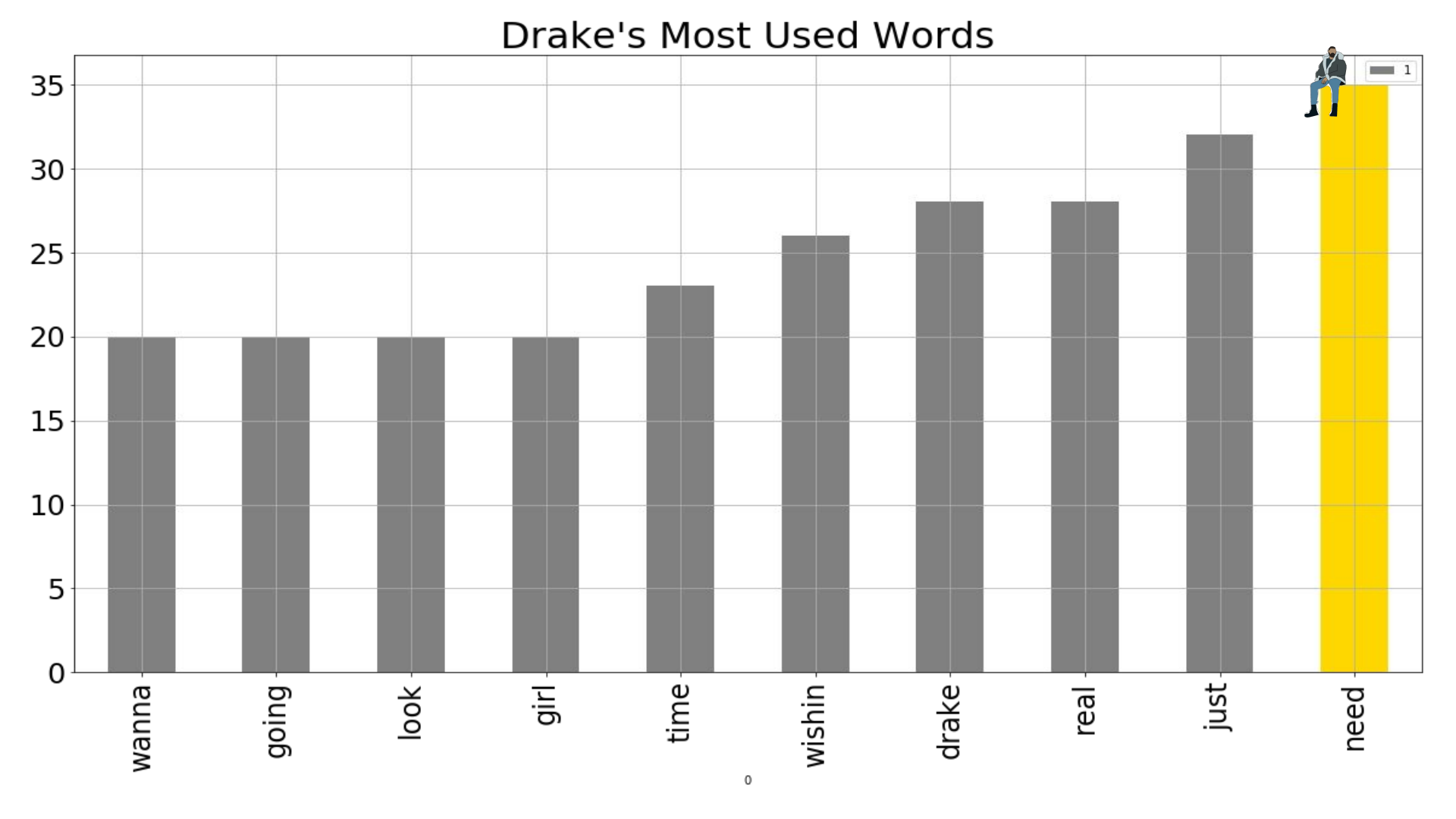
Remove section headers

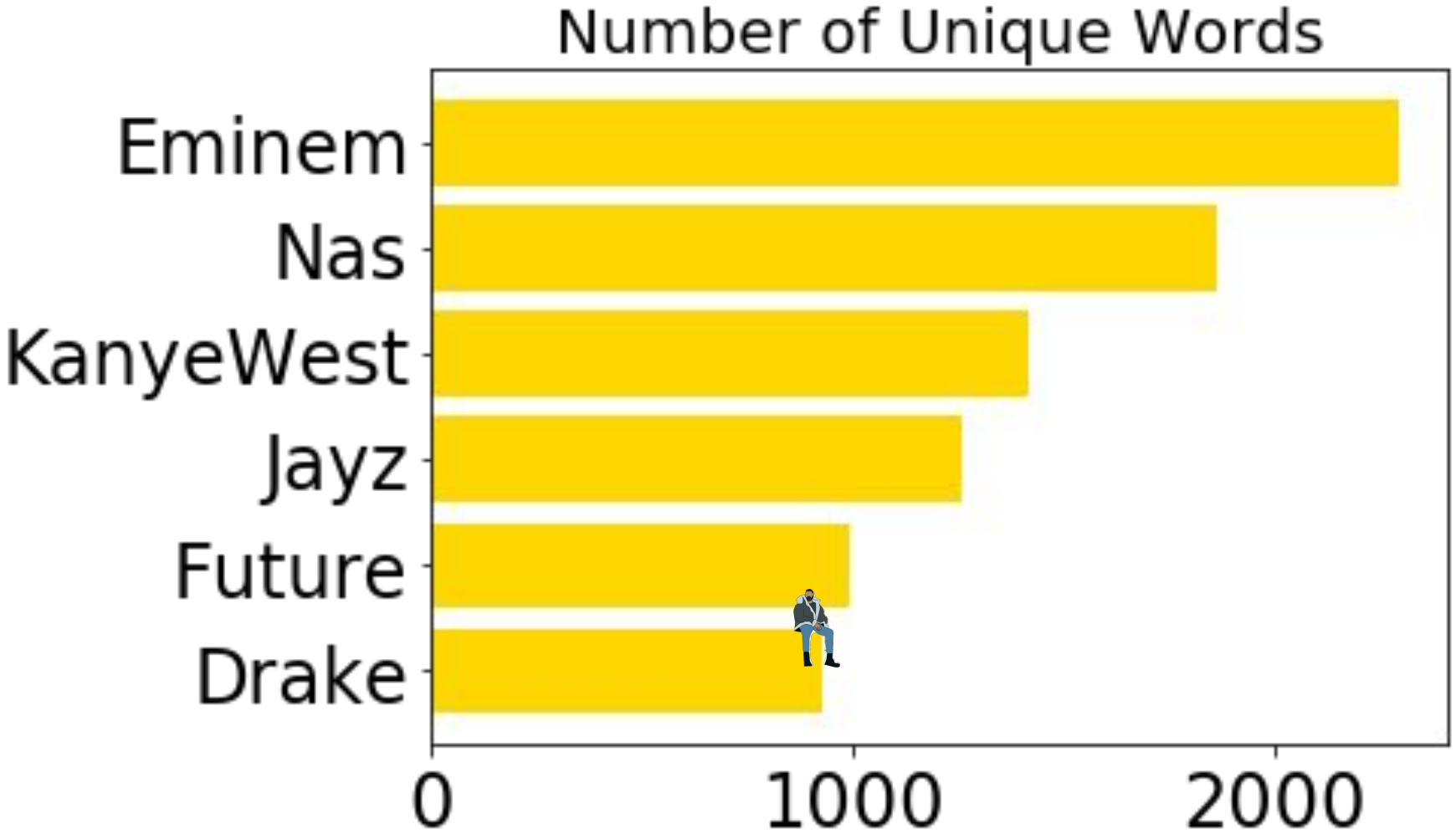
Remove featured artist

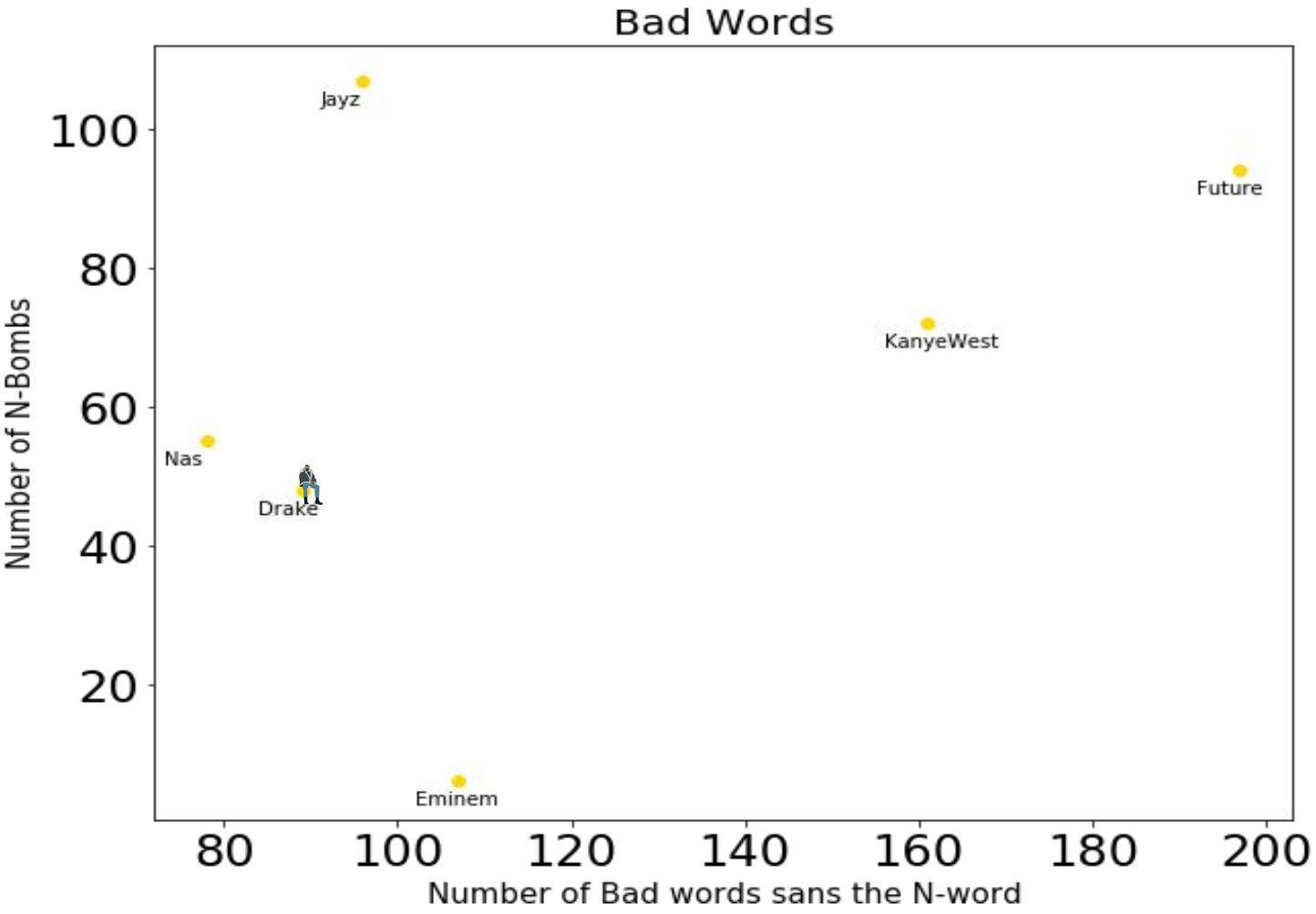
Preserve numbers

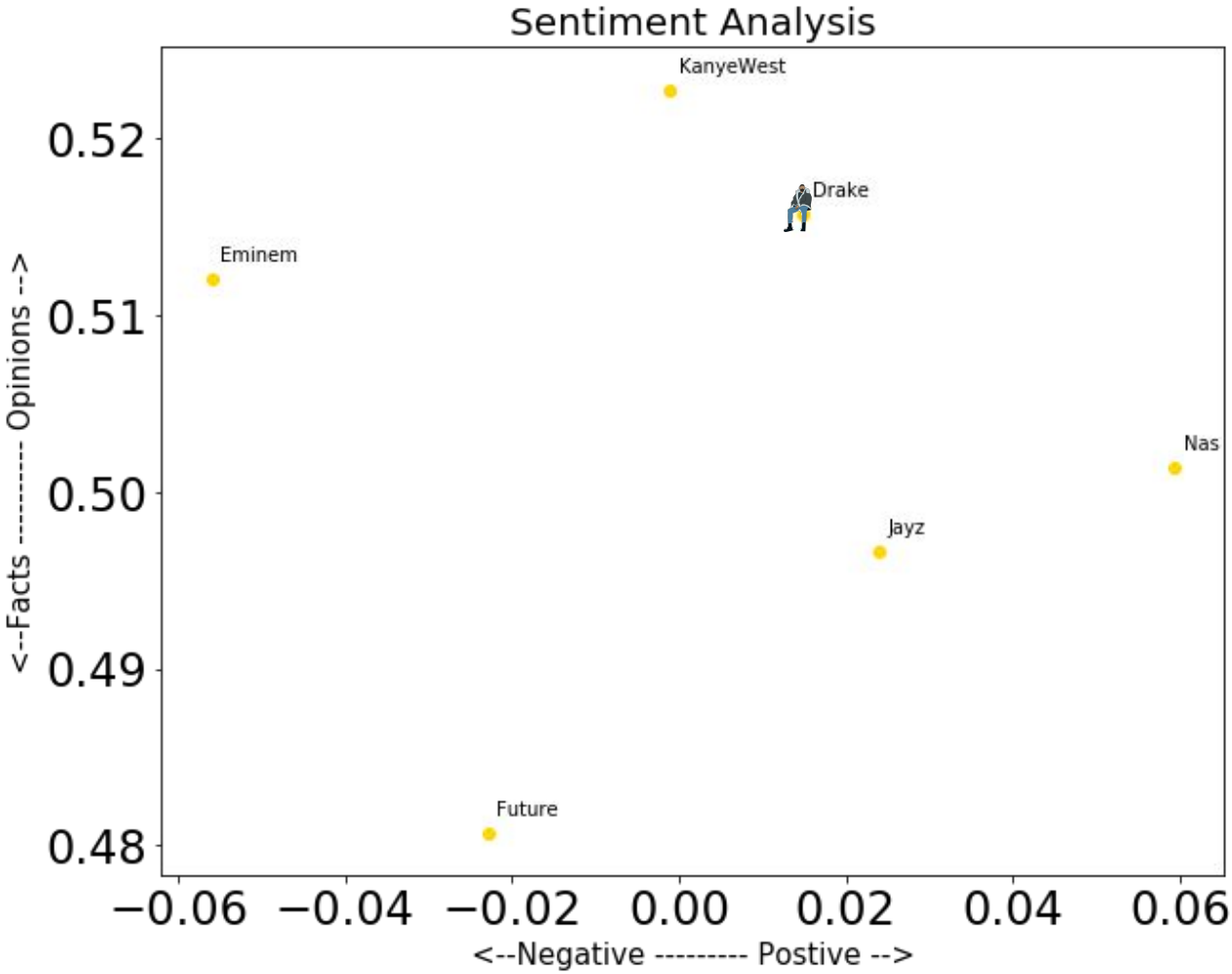
Future considerations


Drake's Most Used Words
1
50
40
30
20
10
0
yeah
one
go
dont
shit
like
got
im
back
know
0

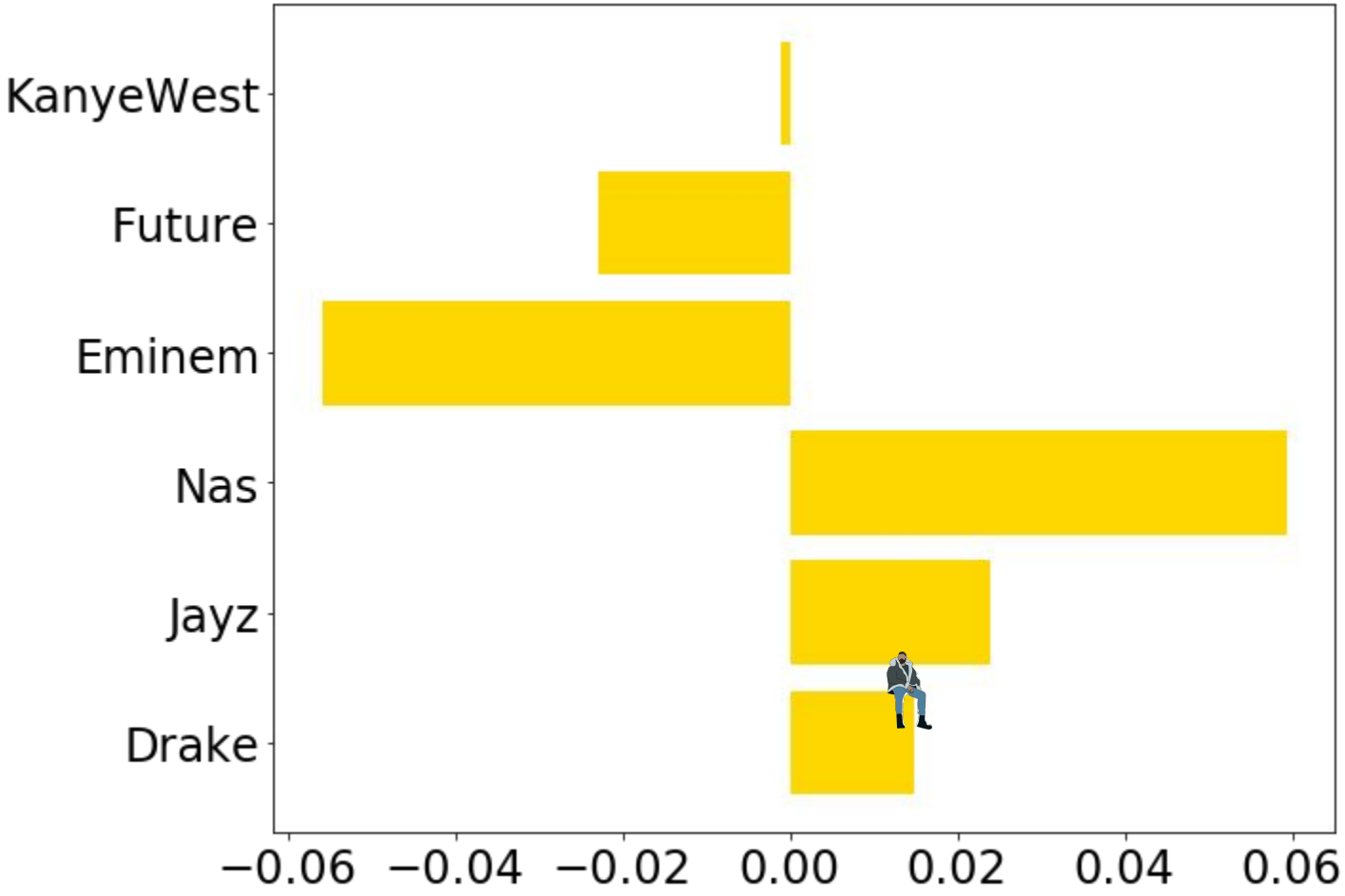

Drake's Most Used Words
1
35
30
25
20
15
10
5
0
wanna
going
look
girl
time
wishin
drake
real
just
need
0


Number of Unique Words
Eminem
Nas
KanyeWest
Jayz
Future
Drake
0
1000
2000


Bad Words
Jayz
Future
KanyeWest
Nas
Drake
Eminem
100
80
60
40
20
80
100
120
140
160
180
200
Number of N-Bombs
Number of Bad words sans the N-word


Sentiment Analysis
KanyeWest
Drake
Eminem
Nas
Jayz
Future
0.52
0.51
0.50
0.49
0.48
−0.06
−0.04
−0.02
0.00
0.02
0.04
0.06
<--Facts --------- Opinions -->
<--Negative --------- Postive -->

Polarity Score



Using Latent Dirichlet Allocation

	Topic	Word	P
0	0	life	0.011404
1	0	high	0.009815
2	0	lets	0.009588
3	0	low	0.008680
4	0	thou	0.008680
5	1	better	0.005964
6	1	gon	0.005428
7	1	common	0.005160
8	1	time	0.004892
9	1	moment	0.004892
10	2	love	0.018148
11	2	world	0.014176
12	2	man	0.011308
13	2	time	0.009543
14	2	real	0.007998
15	3	clique	0.015914
16	3	god	0.009451
17	3	swerve	0.009451
18	3	black	0.007189
19	3	big	0.006543

Jay-Z

Future

Eminem

Nas

Drake

Kanye West

Using Markov Chains

Drake: 'Cuddle with the goats for someone else you left your advances god d*** chorus gods plan i had a lot...'

Nas: 'Reject me bustin off quick forever n***** i never fell nas yeah yo then we rock chorus scratches by large...'

Drake: 'A** back and wine it be on me on that you do not your advances god i know you bring...'

Nas: 'Soldiers i got to break bread with your motha****** mind outro one love you can sell some jewels in school...'

Drake: 'Outlive me all me stay up im the shine i know it like eight advances god d*** okay made yall...'

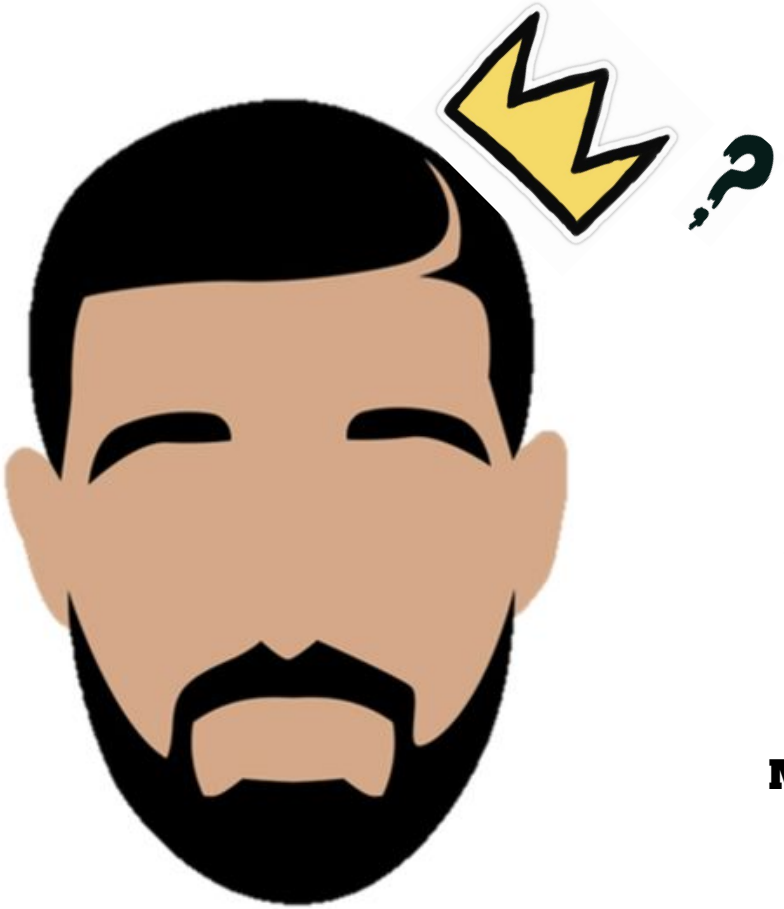
Nas: 'Alive and be famous and tried you 36 in egypt learning something deep i rock and killer coppers even though...'

Conclusion

Introspective, search within

Overall Positive, low aggression

Topics seemed be aligned with Nas



Use RNN Model over Markov Chains

Clean data better

More rap diversity

Fin.