### **BLM Project**

#### Abstract and introduction

In the study, our goal is to delve into protest music, using the recent BLM protests as a lens. The aim is to address key research inquiries by examining the music shared within the context of BLM, using its lyrical, musical, and extra musical elements and comparing with those of mainstream music from the same timeframe. Additionally, the experiment extends to the evolution of protest music in the United States, comparing contemporary compositions with those crafted half a century ago.

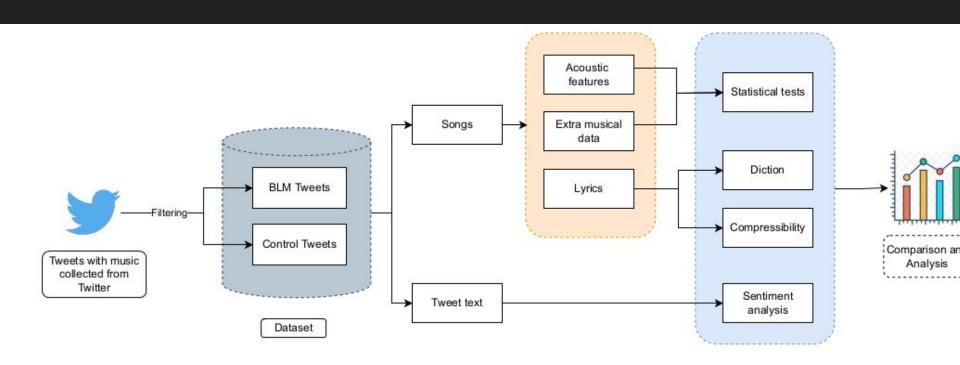


Figure 1: Flowchart describing the pipeline used for the analysis

#### **Dataset**

The dataset used for this study was created using, the tweets shared by users during a chosen time period, relevant to the Black Lives Matter protest.

- The twitter post should contain link to a spotify track, playlist, or album
- The tweet should have been made between 27th May 2020 and 27th November 2020
- The tweet should contain the BLM hashtag or some variation of the same or some keywords related to black lives matter (like #BlackLivesMatter, #blm etc)

Metric	Control	BLM
Number of tweets	14,672	12,661
Total songs (w playlists)	19,613	11,131
Single tracks	1,726	4502
Tracks with lyrics	1,398	3,727

#### Sample blm tweet

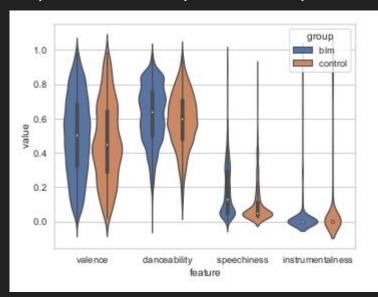


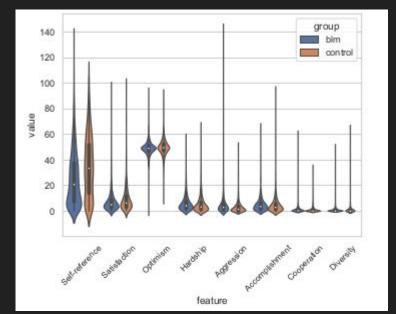
#### Results from the work

 The work identified disparities between protest music and other genres within the Black Lives Matter (BLM) movement.

Protest music exhibited distinct characteristics including higher valence, danceability, and

speechiness compared to non-protest music.





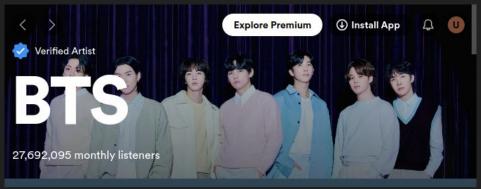
#### Results from the work

The songs shared were by lesser known artists:

Top artist in BLM dataset:

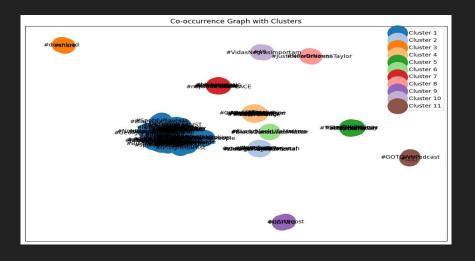


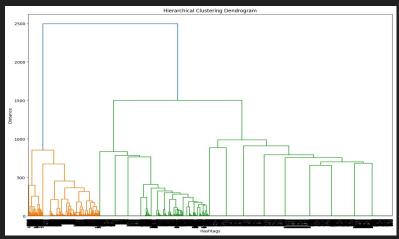
Top artist in the control dataset :



#### Work done

-> The hashtags have been clustered on the basis of co-occurences.





BayAreaRapPowerToThePeopleindiepop
Pillore indisposabase TRAP Noorland Noor

GeorgeFloydprotest

producers
recordlabels
GeorgeFloydMemorial
BreonnaTayor
yougoodbymistarjonah

Word Cloud for Cluster 2

TamikaMalloryTip
INK
EMERICAN
INK
TimeforChange
TimeforChange
Type
StylesPAnthonyHamilton Mysonne
BunBDavidBanner
TraeThaTruth
KrayZieBone
E40

TransLivesMatter
PodernFamily
Unity LGBTQ
StopTheKillings
stopthehate

share download

Word Cloud for Cluster 6

BlackQueerLivesMatter EveryBlackLifeMatters BlackTransLivesMatter alternative PINKi
hiphopmusic
hiphopmusic
icantbreathe
soulmusic

Word Cloud for Cluster 8

JusticeForBreonnaTaylor NowOrNever

Word Cloud for Cluster 11		
GOTOWNPodcast		
do romini od <u>ed</u> st		

Word Cloud for Cluster 9

rtArtBoost LGTWO Word Cloud for Cluster 10

VidasNegrasImportam

#### Clusters formed using connected components approach

Cluster 1: ['#PowerToThePeople', '#spotifypodcasts', '#fuckthepolice', '#BayAreaRap', '#listige', '#California', '#Podcast', '#SpotifyPlaylists', '#WeWillVote', '#DonToriano', '#indiepop', '#NewMusicFriday', '#Eminem', '#museboost', '#Viral', '#spotify', '#spotify', '#rapper', '#podcasts', '#podcast', '#lCantBreathe', '#protest', '#GeorgeFloydProtests', '#BlackOutTuesday', '#newmusic', '#50Djs50States', '#podcastlife', '#music', '#podcasting', '#IcTour2020', '#Rap', '#DatPiff', '#COVID19', '#IndiePopDatabase', '#spotifyplaylist', '#racism', '#NoJusticeNoPeace', '#WashYourHands', '#vivalarevolucion', '#rap', '#indie', '#AppleMusic', '#Fillmore', '#hiphop', '#SPOTIFYPLAYLIST', '#BreonnaTaylor', '#fuck', '#love', '#protests2020', '#SoundCloud', '#HipHop', '#NowPlaying', '#zombies', '#KeepingItPeel', '#NewRelease', '#producer', '#Listen', '#GeorgeFloyd', '#justiceforgeorgefloyd', '#FolloForFolloBack', '#Zombie', '#itunes', '#NewMusic', '#Rapgame', '#playlist', '#SanQuinn', '#independentartist', '#Music', '#coronavirus', '#artist', '#hiphopculture', '#np', '#Spinrilla', '#newrelease', '#youtube', '#COVID—19', '#GainyourWay', '#BlackLivesMattters', '#protests', '#SpotifyPlaylist', '#applemusic', '#unsignedartist']

Cluster 2: ['#GeorgeFloydMemorial', '#GeorgeFloydprotest', '#producers', '#BreonnaTayor', '#recordlabels', '#yougoodbymistarjonah', '#rappers', '#trump']

Cluster 3: ['#download', '#share']

Cluster 4: ['#LeeMerritt', '#BunB', '#KrayzieBone', '#TamikaMallory', '#DavidBanner', '#TraeThaTruth', '#Tip', '#Mysonne', '#INK', '#TimeforChange', '#StylesP', '#AnthonyHamilton', '#ConwaytheMachine', '#E40']

Cluster 5: ['#PodernFamily', '#StopTheKillings', '#LGBTQ', '#stopthehate', '#Unity', '#TransLivesMatter']

Cluster 6: ['#BlackTransLivesMatter', '#BlackQueerLivesMatter', '#EveryBlackLifeMatters']

Cluster 7: ['#hiphopmusic', '#icantbreathe', '#PINKi', '#soulmusic', '#AndroidEddie', '#noJUSTICEnoPEACE', '#alternative']

Cluster 8: ['#JusticeForBreonnaTaylor', '#NowOrNever']

Cluster 9: ['#rtArtBoost', '#LGTWO']

Cluster 10: ['#VidasNegrasImportam', '#48']

Cluster 11: ['#ゴタポ', '#GOTOWNPodcast']

#### Cluster 1

1. #Spotify https://t.co/ABKblKigRg Mac Jeff "Street Grind To Elevate" ft. @rapperllove #SanQuinn and #DonToriano @DynoRTs #SpotifyPlaylist #GainyourWay #Music #Listen #BayAreaRap #Fillmore #Rapgame #IG #Viral #50Djs50States #DatPiff #Spinrilla #NewMusic.

Hashtags: #Spotify #SanQuinn #DonToriano #SpotifyPlaylist #GainyourWay #Music #Listen #BayAreaRap #Fillmore #Rapgame #IG #Viral #50Djs50States #DatPiff #Spinrilla #NewMusic

2. #Spotify https://t.co/ABKblKigRg Mac Jeff "Street Grind To Elevate" ft. @rapperllove #SanQuinn and #DonToriano @DynoRTs @RexRTs #SpotifyPlaylist #GainyourWay #Music #Listen #BayAreaRap #Fillmore #Rapgame #IG #Viral #50Djs50States #DatPiff #Spinrilla #NewMusic.

Hashtags: #Spotify #SanQuinn #DonToriano #SpotifyPlaylist #GainyourWay #Music #Listen #BayAreaRap #Fillmore #Rapgame #IG #Viral #50Djs50States #DatPiff #Spinrilla #NewMusic

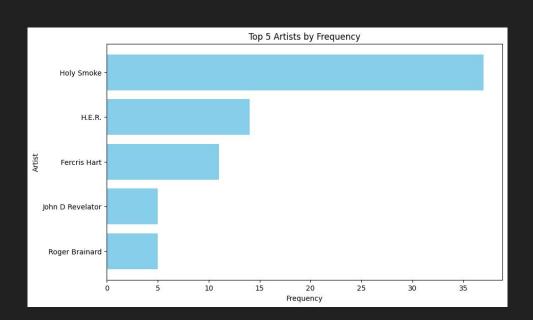
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#SpotifyPlaylist #GainyourWay #Music #Listen #BayAreaRap #Fillmore #Rapgame #IG #Viral #50Djs50States #DatPiff #Spinrilla #NewMusic.

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BayAreaRapPowerToThePeopleindiepop

Pod CastRap Boolayare Wood Country Constitution Country Constitution Country Constitution Country Country



1. 7 Why is everybody listening to Mistar Jonah • You Good ? 🤔 https://t.co/A6YGilzzmX

#GeorgeFloydprotest #GeorgeFloydMemorial #BreonnaTayor berlin #producers #recordlabels #rappers #trump #yougoodbymistarjonah RETWEET

Hashtags: #GeorgeFloydprotest #GeorgeFloydMemorial #BreonnaTayor #producers #recordlabels #rappers #trump #yougoodbymistarjonah

2. 6 Why is everybody listening to Mistar Jonah • You Good ? 🤔 https://t.co/A6YGilzzmX

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GeorgeFloydprotest

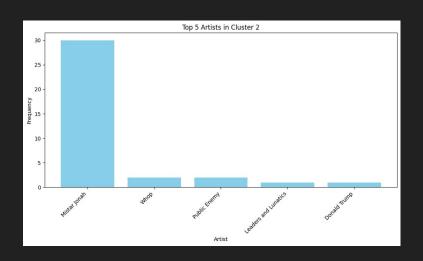
recordlabels

recordlabels

GeorgeFloydMemorial

BreonnaTayor

yougoodbymistarjonah



1. Black Lives Matter by Don Floss on Spotify #download #share #SupportSmallStreamers #SupportSmallStreams #musicwithameaning #WHYDONTWE #Fightthecowards #FightForFreedom #getthroughthistogether #GetReady #WhatDoYouThink #whataboutus #BlacklivesMaters https://t.co/LmRzv8usOL

Hashtags: #download #share

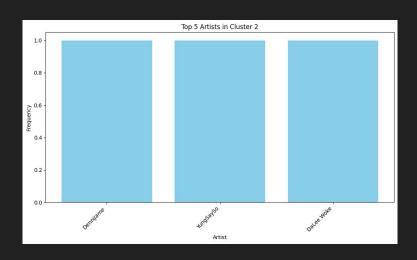
2. Black Lives Matter by Don Floss on Spotify #JusticeForGeorgeFloyd #JusticeforBreonnaTaylor #share #download S #BlacklivesMaters s Minneapolis #BlackLiveMatters https://t.co/LmRzv8usOL

Hashtags: #share #download

3. Black Lives Matter by Don Floss on Spotify #share #download #LosAngelesriots #MinneapolisUprising #NewarkProtest #NewYorkriot #AtlantaRiots #americariots #GeorgeFloydprotest S # https://t.co/LmRzv8usOL

Hashtags: #share #download

## share download



- #SalutesONSunday #TimeforChange () (feat. T.I. #Tip, #StylesP, #Mysonne, #INK, #AnthonyHamilton, #ConwaytheMachine, #KrayzieBone, #E40 E-40, #DavidBanner, #BunB, #TamikaMallory & #LeeMerritt) by #TraeThaTruthhttps://t.co/aKZEmG9jC8Hashtags: #TimeforChange #Tip #StylesP #Mysonne #INK #AnthonyHamilton #ConwaytheMachine #KrayzieBone #E40 #DavidBanner #BunB #TamikaMallory #LeeMerritt #TraeThaTruth
- 2. #WednesdayThoughts#TimeforChange () (feat. T.I. #Tip, #StylesP, #Mysonne, #INK, #AnthonyHamilton, #ConwaytheMachine, #KrayzieBone, #E40 E-40, #DavidBanner, #BunB, #TamikaMallory & #LeeMerritt) by #TraeThaTruth#SayTheirNameshttps://t.co/2Uk4HbHVJnHashtags: #TimeforChange #Tip #StylesP #Mysonne #INK #AnthonyHamilton #ConwaytheMachine #KrayzieBone #E40 #DavidBanner #BunB #TamikaMallory #LeeMerritt #TraeThaTruth

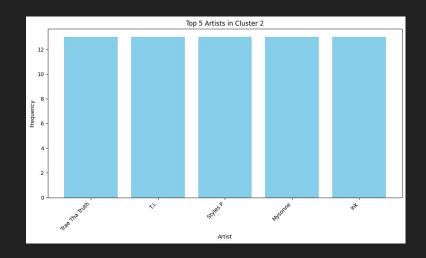
#### #NowPlaying

#TimeforChange () (feat. T.I. #Tip, #StylesP, #Mysonne, #INK, #AnthonyHamilton, #ConwaytheMachine, #KrayzieBone, #E40 E-40, #DavidBanner, #BunB, #TamikaMallory & ConwaytheMachine, #KrayzieBone, #E40 E-40, #ConwaytheMachine, #KrayzieBone, #E40 E-40, #ConwaytheMachine, #KrayzieBone, #E40 E-40, #ConwaytheMachine, #KrayzieBone, #E40 E-40, #ConwaytheMachine, #KrayzieBone, #E40 E-40, #KrayzieBone, #

https://t.co/ab0Jpbxkkr

Hashtags: #TimeforChange #Tip #StylesP #Mysonne #INK #AnthonyHamilton #ConwaytheMachine #KrayzieBone #E40 #DavidBanner #BunB #TamikaMallory #LeeMerritt #TraeThaTruth

# TamikaMalloryTip TimeforChange LeeMerrit StylesPAnthonyHamilton Mysonne Bun BlavidBanner TraeThaTruth KrayZieBone E40



Cluster 5 Top 3 Tweets:

1. Checkout the Stop The Hate series of The Real Talk Podcast. Guest Hosts: @HVHPodcast @thespirit95 @eilfmovies @cult45podcast @Christinefor24 & December 24 & December 2

#stopthehate #StopTheKillings #LGBTQ #TransLivesMatter #Unity #NBC #PodernFamily

https://t.co/LC6cZgP4ev Hashtags: #stopthehate #StopTheKillings #LGBTQ #TransLivesMatter #Unity #PodernFamily

2. Checkout the Stop The Hate series of The Real Talk Podcast. Guest Hosts: @HVHPodcast @thespirit95 @eilfmovies @cult45podcast @Christinefor24 & December 24 amp; more

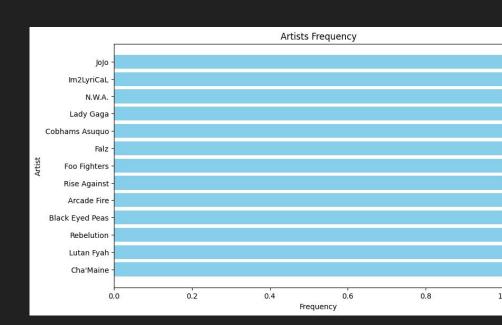
#stopthehate #StopTheKillings #LGBTQ #TransLivesMatter #Unity #ABC #PodernFamily

https://t.co/LC6cZgP4ev Hashtags: #stopthehate #StopTheKillings #LGBTQ #TransLivesMatter #Unity #PodernFamily

3. Checkout the Stop The Hate series of The Real Talk Podcast. Guest Hosts: @HVHPodcast @thespirit95 @eilfmovies @cult45podcast @Christinefor24 & Christinefor24 & Christinefor2

#stopthehate #StopTheKillings #LGBTQ #TransLivesMatter #Unity #ABC7 #PodernFamily https://t.co/LC6cZgP4ev Hashtags: #stopthehate #StopTheKillings #LGBTQ #TransLivesMatter #Unity #PodernFamily

# TransLivesMatter PodernFamily Unity LGBTQ StopTheKillings stopthehate



1. @KingJollof HANDS UP DON'T SHOOT

#BlackQueerLivesMatter #BlackTransLivesMatter #EveryBlackLifeMatters https://t.co/HZWs5fQwR1 https://t.co/RVZpPq05id https://t.co/evkA8K50bC Hashtags: #BlackQueerLivesMatter #BlackTransLivesMatter #EveryBlackLifeMatters

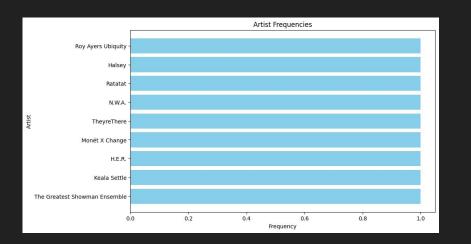
2. @BenFrankIV HANDS UP DON'T SHOOT

#BlackQueerLivesMatter #BlackTransLivesMatter #EveryBlackLifeMatters

https://t.co/HZWs5fQwR1 https://t.co/RVZpPq05id https://t.co/evkA8K50bC

Hashtags: #BlackQueerLivesMatter #BlackTransLivesMatter #EveryBlackLifeMatters

3. @VampireSilk HANDS UP DON'T SHOOT #BlackQueerLivesMatter #BlackTransLivesMatter #EveryBlackLifeMatters https://t.co/HZWs5fQwR1 https://t.co/RVZpPq05id https://t.co/evkA8K50bC Hashtags: #BlackQueerLivesMatter #BlackTransLivesMatter #EveryBlackLifeMatters



Word Cloud for Cluster 6

#### BlackQueerLivesMatter EveryBlackLifeMatters BlackTransLivesMatter

Cluster 7 Top 3 Tweets:

1. ALL LIVES cannot matter until #noJUSTICEnoPEACE #icantbreathe #PINKi + #AndroidEddie + @66notes + @benjaminoaks #hiphopmusic #soulmusic #alternativehttps://t.co/UMm9iAaYHt

Hashtags: #noJUSTICEnoPEACE #icantbreathe #PINKi #AndroidEddie #hiphopmusic #soulmusic #alternative

2. ALL LIVES cannot matter until #noJUSTICEnoPEACE #icantbreathe #PINKi + #AndroidEddie + @66notes + @benjaminoaks #hiphopmusic #soulmusic #alternative

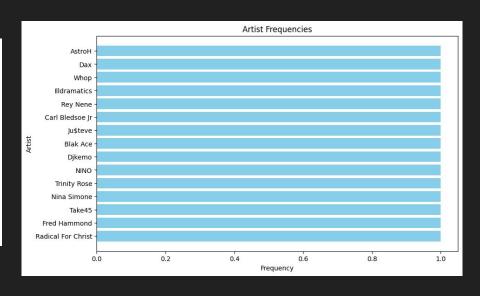
https://t.co/UMm9iAaYHt

Hashtags: #noJUSTICEnoPEACE #icantbreathe #PINKi #AndroidEddie #hiphopmusic #soulmusic #alternative

3. ALL LIVES cannot matter until #noJUSTICEnoPEACE #icantbreathe #PINKi + #AndroidEddie + @66notes + @benjaminoaks #hiphopmusic #soulmusic #alternativehttps://t.co/UMm9iAaYHt

Hashtags: #noJUSTICEnoPEACE #icantbreathe #PINKi #AndroidEddie #hiphopmusic #soulmusic #alternative

# alternative PINKi hiphopmusic hiphopmusic icantbreathe soulmusic



- 1. The time for Change and healing is upon US! We can all be apart of a better tomorrow! Listen to "Now Or Never" out now on all platforms! #NowOrNever #JusticeForBreonnaTaylor https://t.co/JQI7Sji9Na@1BANKSUNIVERSE ., Hashtags: #NowOrNever #JusticeForBreonnaTaylor
- 2. The time for Change and healing is upon US! We can all be apart of a better tomorrow! Listen to "Now Or Never" out now on all platforms! #NowOrNever #JusticeForBreonnaTaylor <a href="https://t.co/JQI7Sji9Na">https://t.co/JQI7Sji9Na</a> @1BANKSUNIVERSE.

Hashtags: #NowOrNever #JusticeForBreonnaTaylor

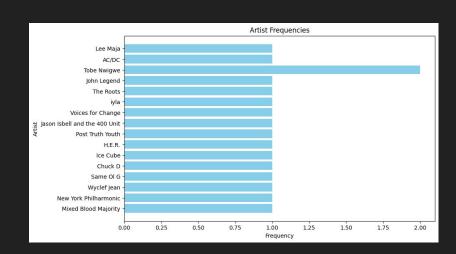
3. The time for Change and healing is upon US! We can all be apart of a better tomorrow! Listen to "Now Or Never" out now on all platforms!

#NowOrNever #JusticeForBreonnaTaylor https://t.co/JQI7Sji9Na

@1BANKSUNIVERSE Hashtags: #NowOrNever #JusticeForBreonnaTaylor

Word Cloud for Cluster 8

#### JusticeForBreonnaTaylor NowOrNever



1. WindDownTime @Velocyraptus1 #listige #spotify @YHHTMPC #indie #music #LGTWO @dorner\_martina @connectalot @Ifyouareanarti1 @my\_sphera @ITHERETWEETER1 @manni\_best @aliciagrimes71 @TwitterRetweets @Jtkwon3 @rtItBot #rtArtBoost @ultimate\_indie @OilyBeatz https://t.co/AMIAcjr0xV

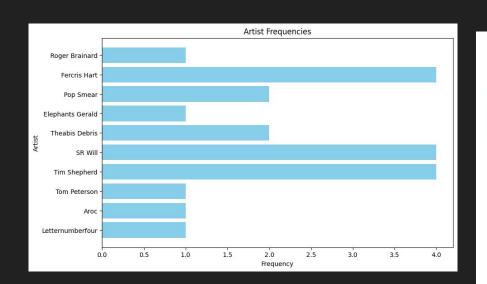
Hashtags: #LGTWO #rtArtBoost

2. IsMondayReallyBlue? @Velocyraptus1 #spotify #spotifyplaylist @YHHTMPC #indie #music #LGTWO #newmusic @Wendy\_Sokoloff @connectalot @Ifyouareanarti1 @my\_sphera @ITHERETWEETER1 @aliciagrimes71 @TwitterRetweets @Jtkwon3 @rtltBot #rtArtBoost @Sofi\_Sound https://t.co/W5pMJZmVrx

Hashtags: #LGTWO #rtArtBoost

3. HotOrCold?@Velocyraptus1 #listige #spotify @YHHTMPC #indie #music #LGTWO @dorner\_martina @connectalot @lfyouareanarti1 @my\_sphera @ITHERETWEETER1 @manni\_best @aliciagrimes71 @TwitterRetweets @Jtkwon3 @rtltBot #rtArtBoost @ultimate\_indie @OilyBeatz https://t.co/KxaGd806Sj

Hashtags: #LGTWO #rtArtBoost



Word Cloud for Cluster 9

### rtArtBoost LGTW0

Cluster 10 Top 3 Tweets:

1. Aqui está um programa para você... POR QUE OS NEGROS BRASILEIROS NÃO SE REVOLTAM? - AFETOS #48 - #VidasNegrasImportam Episódio de AFETOS por Gabi Oliveira e Karina Vieira

https://t.co/51FgHLWjMG

Hashtags: #48 #VidasNegrasImportam

2. Aqui está um programa para você... POR QUE OS NEGROS BRASILEIROS NÃO SE REVOLTAM? - AFETOS #48 - #VidasNegrasImportam Episódio de AFETOS por Gabi Oliveira e Karina Vieira

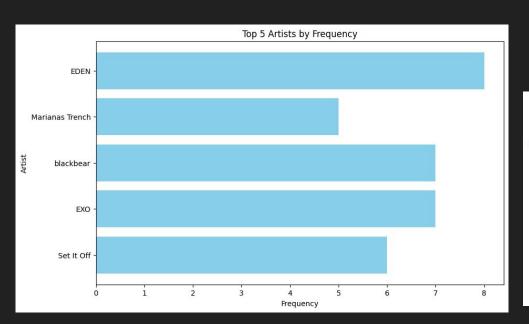
https://t.co/pi5hlh3utU

Hashtags: #48 #VidasNegrasImportam

3. Aqui está um programa para você... POR QUE OS NEGROS BRASILEIROS NÃO SE REVOLTAM? - AFETOS #48 - #VidasNegrasImportam Episódio de AFETOS por Gabi Oliveira e Karina Vieira

https://t.co/90g2U5jI41

Hashtags: #48 #VidasNegrasImportam



### VidasNegrasImportam

Word Cloud for Cluster 10

Cluster 11 Top 3 Tweets:

1. #GOTOWNPodcast #ゴタポ #13 配信中 🞧

#宇野維正さん#金寿煥さんを迎えて、を巡って、音楽の話はもちろん、そもそも差別ではなくて、作られている制度までも。色々な情報を吸収して、自分の考えをちゃんと持っていくことが必要だなあと感じます。https://t.co/vHzem8kaa7

Hashtags: #GOTOWNPodcast #ゴタポ

2. PLAYLISTも合わせて楽しんでください

ゲスト #宇野維正 さん #田辺健二 さんにも選曲していただきました。宇野さんはをテーマに、過去~最新まで。田辺さんはコロナ後のカラオケ。郷太さんはトーク後に聴きたくなる楽曲を👉 https://t.co/j7z43FvvRS

#ゴタポ #GOTOWNPodcast

Hashtags: #ゴタポ #GOTOWNPodcast

3. #13 Black Lives Matter、いま革命を起こすとき〜Guest:宇野維正、金寿煥#GOTOWNPodcast #ゴタポ 昨日、鼎談で話したスタイリスト伊賀大介君も大絶賛のポッド キャスト。僕と宇野さん、ふたりの新潮社担当編集、声の良い金さんを迎え新潮社クラブとBlack Lives Matter。https://t.co/RaZVfzxbVk

Hashtags: #GOTOWNPodcast #ゴタポ

GOTOWNPodcast







