

'1974 A.D', '1nonly', '1takejay', '2 Chainz', '2013 Loud Speakers', '22Gz', '24kGoldn', '2Pac',			
'3 Doors Down', '3MFrench', '50 Cent', '53 Thieves', '6ix9ine', '88GLAM', '88rising', '92914', 'A Boogie Wit da Hoodie 'A\$AP Ferg', 'A\$AP Mob', 'A\$AP Rocky', 'AC/DC',	•		
'ADP', 'AFKAP', 'AJ Tracey', 'AM', 'AUDREY NUNA', 'AURORA', 'Aaliyah', 'Aaron Rimbui', 'Abra Cadabra', 'Absofacto', 'Adekunle Gold', 'Adele', 'Aftertheparty', 'Afterthought',			
'Aitch', 'Akon', 'Alabama Shakes', 'Alex Isley', 'Ali Gatie', 'Alice Longyu Gao', 'Alicia Keys', 'Alina Baraz', 'Alka Yagnik', 'Almondmilkhunni', 'AlunaGeorge', 'Ama Lou', 'Amaal Mallik', 'Amber Mark',			
'Ambjaay', 'Aminé', 'Amrit Gurung', 'Amy Winehouse', 'Andazification', 'Anderson .Paak', 'Andy Mineo', 'Antônio Carlos Jobim', 'Anuel AA', 'Apluus Enterprises', 'Apoc Krysis', 'Apollo1027', 'Arctic Monkeys', 'Argent',			
'Ari Lennox', 'Ariana Grande', 'Aries', 'Arijit Singh', 'Arin Ray', 'Arizona Zervas', 'Ashanti', 'Ashnikko', 'Asian Doll', 'Audrey Mika', 'Avelino', 'Avicii', 'Ay Em', 'Ayanis',			
'Ayo Britain', 'Aystar', 'Ayush Gauchan', 'AzChike', 'B Young', 'B-8eight', 'B.o.B', 'BERWYN', 'BIA', 'BIGBABYGUCCI', 'BRKN', 'BROCKHAMPTON', 'BRS Kash', 'Baba G Society',			
'Baby Bash', 'Baby Keem', 'Bad Bunny', 'Badshah', 'Bahamas', 'Baka Not Nice', 'Bali Baby', 'Bankrol Hayden', 'Bankroll Freddie', 'Barbara Lewis', 'Bas', 'Bazzi', 'Bea Miller', 'Beach House',			
'Beast Coast', 'Becky G', 'Beenie Man', 'Belly', 'Belly Squad', 'Benny The Butcher', 'Berna', 'Berner', 'Beyoncé', 'Big K.R.I.T.', 'Big Pun', 'Big Sean', 'Big Zuu', 'Bikhs',			
'Billie Eilish', 'Billie Holiday', 'Bipul Chettri', 'Birdy', 'Blac Youngsta', 'Black Eyed Peas', 'Blade Brown', 'Bladee', 'Blanco', 'Blizz Vito', 'BlocBoy JB', 'Blu', 'Blue Ivy',			
'Blue Wednesday', 'BlueBucksClan', 'Blueface', 'Bluesss', 'Blxst', 'Bob Marley & The Waile 'Bobby Helms', 'Bobby Shmurda', 'Bon Jovi', 'Boom Clap Bachelors', 'Boosie Badazz', 'Boyce Avenue', 'Bratia Stereo', 'Bratty',	es',		
'Brenda Lee', 'Brent Faiyaz', 'Brianna Perry', 'Bruce Hornsby', 'Bruno Mars', 'Bryan Adams', 'Bryson Tiller', 'Bullet For My Valentin 'Bun B', 'Burna Boy', 'Busta Rhymes', 'CJ', 'CUT_',	>' ,		
'Calboy', 'Caleon Fox', 'Calpurnia', 'Calvin Harris', 'Camila Cabello', 'Cardi B', 'Carla Bruni', 'Carlito Lagangzz', 'Carlos Rivera', 'Carnage', 'Casanova', 'Cassie', 'Cautious Clay', 'Central Cee',			
'Chance the Rapper', 'Chantel Jeffries', 'Charlotte Day Wilson', 'Charlotte Lawrence', 'Che Ecru', 'Che Lingo', 'Cheat Codes', 'Chedda Da Connect', 'Chief Keef', 'Childish Gambino', 'Childish Major', 'Chinese Kitty', 'Chirag Khadka',			
'Chloe x Halle', 'Choker', 'Choppy Chan', 'Chris Brown', 'Christina Aguilera', 'Ciara', 'Cigarettes After Sex', 'City Girls', 'Clairo', 'Classics IV', 'Claude Debussy', 'Cleo Sol', 'Coca Vango', 'Coi Leray',			
'Col3trane', 'Collie Buddz', 'Comethazine', 'Common', 'Conan Gray', 'Conradfrmdaaves', 'Conway the Machine', 'Coolio', 'Cousin Stizz', 'Cradle Of Filth', 'Cruel Santino', 'Cuban Doll', 'Cuco', 'Curly Savv',			
'Curren\$y', 'Curtis Waters', 'Cyn', 'Cyndi Lauper', 'D Double E', 'D Power Diesle', "D'Angelo", 'D-Block Europe', 'D-Nice', 'D. Savage', 'D3szn', 'DCX', 'DDG', 'DIVINE',			
'DJ Khaled', 'DJ Scheme', 'DJ Snake', 'DUSTY LOCANE', 'Da Beatfreakz', 'DaBaby', 'DaVido', 'Dadju', 'Dalai Lama', "Dan Carlin's Hardcore 'Danger Incorporated', 'DaniLeigh', 'Daniel Caesar', 'Daniela Andrade',	History",		
'Darkoo', 'Daryl Hall & John Oate 'Dave', 'Daveed Diggs', 'David Guetta', 'Dayvi', "Deante' Hitchcock", 'Demun Jones', 'Desiigner', "Destiny's Child", 'Devin Dawson', 'DigDat', 'Digga D',	;',		
'Dillan Witherow', 'Diplo', 'Dire Straits', 'Doja Cat', 'Dolly Parton', 'Dom Kennedy', 'Dominic Fike', 'Don Toliver', 'Dontcry', 'Dr. Bobby Banner, MPC' 'Drake', 'Drakeo the Ruler', 'Drako', "Dre'es",			
"Dre'es", 'Dreamville', 'Dreezy', 'Dua Lipa', 'Dua Saleh', 'Duckwrth', 'Duke Dumont', 'Duvy', 'E-40', 'EARTHGANG', 'ENNY', 'Eagles', 'Eartha Kitt', 'Ed Sheeran',			
'Ella Fitzgerald', 'Ella Mai', 'Elvis Presley', 'Emily Watts', 'Eminem', 'Emotional Oranges', 'Eric Bellinger', 'Erica Banks', 'Erykah Badu', 'Eryn Allen Kane', 'Estelle', 'Etta Bond', 'EyeOnEyez',			
'Eyez', 'FIL BO RIVA', 'FKA twigs', 'FUR', 'Fabolous', 'Famous Dex', 'Far East Movement', 'Farhan Akhtar', 'Farruko', 'Fat Joe', 'Felly', 'Feng Suave', 'Fergie', 'Fetty Wap',			
'Fiona Apple', 'Five Foreign', 'Fivio Foreign', 'Fleetwood Mac', 'Flipp Dinero', 'Flo Milli', 'Flying Lotus', 'Foogiano', 'Frank Ocean', 'Freddie Gibbs', 'Fredo', 'Free Nationals', 'French Montana',			
'Frenetik', 'Frisco', 'Fugees', 'Futuristic', 'G Herbo', 'G-Eazy', 'G4 Boyz', 'GeeYou', 'Gesaffelstein', 'Ghetts', 'Ghost Killer Track', 'Giggs', "Gilbert O'Sullivan",			
'Giveon', 'Glass Animals', 'GoldLink', 'Good Gas', 'Gotye', 'Greentea Peng', 'Grimes', 'Gryffin', 'Guapdad 4000', 'Gucci Mane', 'Guided Meditation Maes 'GuiltyBeatz', 'Gully',	ero',		
"Guns N' Roses", 'Guvna B', 'Gyanu Rana', 'Gym Class Heroes', 'H.E.R.', 'Haiyti', 'Half Pint', 'Hardy Caprio', 'Harriette', 'Harry Styles', 'Headie One', 'Hey Violet', 'Hoobastank', 'Hooverphonic',			
'Hope Tala', 'Hot Chip', 'Houdini', 'Hozier', 'IAMDDB', 'Iamdoechii', 'Iamlevibloom', 'Iamsu!', 'Idina Menzel', 'Imran Khan', 'India.Arie', 'Internet Money', 'Iron Maiden', 'Isaiah Rashad',			
'Ivorian Doll', 'J Balvin', 'J Hus', 'J. Cole', 'J.I the Prince of N.Y' 'J.Robb', 'JACKBOYS', 'JAY-Z', 'JAY1', 'JB Scofield', 'JID', 'JJ', 'Jack Harlow', 'Jacquees',			
'Jaden', 'Jae Trill', 'Jai Paul', 'Jake Gusto', 'Jakob Ahlbom', 'James Blake', 'James Vincent McMorrow 'Jamila Woods', 'Jarline', 'Jason Dhakal', 'Jay Electronica', 'Jay Rock', 'JayDaYoungan', 'Jazmine Sullivan',	•		
'Jeet Gannguli', 'Jeezy', 'Jekalyn Carr', 'Jelani Ameer', 'Jen Awad', 'Jenevieve', 'Jennifer Lopez', 'Jeremih', 'Jermaine Dupri', 'Jerreau', 'Jerry Byrd', 'Jesse', 'Jessie Reyez', 'Jesus Honcho',			
'Jhené Aiko', 'Jimmy the Human', 'Jme', 'Joe Moses', 'Joey Bada\$\$', 'Joey Trap', 'John Legend', 'John Petrucci', 'Johnny Stimson', 'Joji', 'Jorja Smith', 'Joy Crookes', 'Joyce Wrice',			
'Joyner Lucas', 'Jucee Froot', 'Juice Menace', 'Juice WRLD', 'Juniore', 'Jurnee Smollett-Bell', 'Justin Bieber', 'Justin Timberlake', 'Justine Skye', 'Jye', 'K CAMP', 'K\$upreme', 'K-Trap', 'K27', 'KAROL G', 'KAYZB', 'KAYTRANADA', 'KIDS SEE GHOSTS', 'KILLY', 'KOLATERAL',			
'KR\$NA', 'KSI', 'KYLE', 'Kaash Paige', 'Kacey Musgraves', 'Kaecee', 'Kalan.FrFr', 'Kali Prasad Baskota', 'Kali Uchis', 'Kamaiyah', 'Kamael.', 'Kanye West', 'Kap G', 'Kari Faux',			
'Karma Band', 'Kash Doll', 'Katy Perry', 'Kayzo', 'Kehlani', 'Kelis', 'KenTheMan', 'Kendrick Lamar', 'Kenny Allstar', 'Kenzie Smith Piano', 'Kevin Abstract', 'Kevin Gates', 'Key Glock',			
'Keyshia Cole', 'Khalid', 'Kiana Ledé', 'Kid Cudi', 'King Combs', 'King Princess', 'Knucks', 'Knxwledge', 'Kodak Black', 'Koffee', 'Kossisko', 'Krept & Konan', 'Kris Wu',			
'Kris Yute', 'KwolleM', 'Kyle Dion', 'LOkey Wavey', 'LD', 'LIL Rock Look', 'LION BABE', 'LO LA', 'LUCKI', 'Labrinth', 'Lady A', 'Lady Gaga', 'Lana Del Rey', 'Lancey Foux',			
'Larry June', 'Lava La Rue', 'Leikeli47', 'Leona Lewis', 'Lethal Bizzle', 'Leven Kali', 'LightSkinKeisha', 'Lil Buddha', 'Lil Donald', 'Lil Durk', 'Lil Gnar', 'Lil Gotit', 'Lil Keed',			
'Lil Milly', 'Lil Mosey', 'Lil Nas X', 'Lil Peep', 'Lil Pump', 'Lil Skies', 'Lil Tecca', 'Lil Tjay', 'Lil Wayne', 'Lil Yachty', 'Linkin Park', 'Little Dragon',			
'Little Eva', 'Little Simz', 'Lizzo', 'Logic', 'Logicminds', 'Loka', 'Lonny X', 'Lorde', 'Loski', 'Louis The Child', 'Lucky Daye', 'Lucy Park', 'Ludacris', 'Ludwig van Beethoven',			
'Lykke Li', 'M Huncho', "M'Way", 'M1llionz', 'M24', 'MARINA', 'MC Kevin o Chris', 'MC STAN', 'MC Solaar', 'MEDIKAL', 'MF DOOM', 'MIKE', 'MIST', 'M03',			
'Mabel', 'Mac DeMarco', 'Mac Miller', 'MadeinTYO', 'Madonna', 'Mae Muller', 'Mahalia', 'Majid Jordan', 'Major Lazer', 'Maluma', 'Manas Ghale', 'Manga Saint Hilare', 'Manny Norté',			
'Marci Phonix', 'Marcos Valle', 'Mariah Carey', 'Mariah the Scientist', 'Marlon Craft', 'Marshmello', 'Marsicans', 'Masego', 'Masked Wolf', 'Mastermind', 'Masters of Binaurality 'Matoma', 'Matt Champion', 'Maverick Sabre',	',		
'Maxo Kream', 'Meek Mill', 'Megan Thee Stallion', 'Melii', 'Melody Gardot', 'Memphis Bleek', 'Mensa', 'Mereba', 'Metallica', 'Metro Boomin', 'Mffdave', 'Michael Bublé', 'Mickey Avalon', 'Miguel',			
'Mike Posner', 'Mila J', 'Miley Cyrus', 'Miraa May', 'Missy Elliott', 'Mitski', 'MoStack', 'MoThoro', 'Moko', 'Money Man', 'Moneybagg Yo', 'Monique Lawz', 'Morgan James',			
'Morrisson', 'Mos Def', 'Mozzy', 'Mr Eazi', 'Ms. Lauryn Hill', 'Mulatto', "Mumbai's Finest", 'Mustard', 'My Chemical Romance', 'My Life', 'NAV', 'NGHTMRE', 'NIKI', 'NLE Choppa',			
'NSG', 'NYC Menace', 'Nafe Smallz', 'Nahir', 'Najja Iman', 'Nancy Whang', 'Nao', 'Nas', 'Nasty Ninja', 'Nebu Kiniza', 'Neetesh Jung Kunwar', 'Nelly', 'Nepsydaz', 'Nia Sultana',			
'Nicki Minaj', 'Nines', 'Nipsey Hussle', 'No Fatigue', 'Noah Cyrus', 'Noga Erez', 'Noname', 'Normani', 'NorthSideBenji', 'Not3s', 'O.T. Genasis', 'ODIE', 'OFB', 'OG Mano',			
'OG Ron C', 'OJ Da Juiceman', 'OMB Bloodbath', 'OMB Peezy', 'Octavian', 'Odd Future', 'Of Monsters and Men', 'Offset', "Olivia O'Brien", 'Olivia Rodrigo', 'Omah Lay', 'Omar Apollo', 'Omarion',			
'One Acen', 'Orion Sun', 'Osibih', 'Oumou Sangaré', 'Ozuna', 'PACkman', 'PARADISE RISING', 'PARTYNEXTDOOR', 'PA Salieu', 'Paramore', 'Pardison Fontaine', 'Paris Shadows', 'Peach Pit', 'Phiroj Shyangden',			
'Phish', 'Phony Ppl', 'Phora', 'Pia Mia', 'Piero Umiliani', 'Pink Floyd', 'Pink Martini', 'Pink Sweat\$', 'Pi'erre Bourne', 'Pkltheshaboy', 'Playboi Carti', 'PnB Rock', 'Polo G', 'Pooh Shiesty',			
'Popcaan', 'Popp Hunna', 'Post Malone', 'Potter Payper', 'Pouya', 'Preservation Hall Jazz 'Princess Nokia', 'Pritam', 'Pusha T', 'QARAN', 'Quality Control', 'Quando Rondo', 'Quavo',	Band',		
'Queen', 'Queen Key', 'Queens of the Stone Ag 'Quin Nfn', 'Quinn XCII', 'REASON', 'RIMON', 'RINI', 'RNZ: Voice of the Iceb 'ROSALÍA', 'Rae Sremmurd', 'Raftaar', 'Rah Swish', 'Raku-Nu',			
'Ramirez', 'Ramz', 'Ranveer Singh', 'Ray LaMontagne', 'Reese LAFLARE', 'Rejjie Snow', 'Relaxing Tibetan Singi 'Rema', 'Remo Drive', 'Resse Raway', 'Rett Madison', 'Rex Orange County', 'Rich Gang', 'Rich Homie Quan',	ng Bowls',		
'Rich Homie Quan', 'Rich The Kid', 'Rick Ross', 'Rico Nasty', 'Rihanna', 'Rina Sawayama', 'RisklTaker360', 'Rita Ora', 'River Tiber', 'Rob Markman', 'Rod Wave', 'Roddy Ricch', 'Rohit John Chettri', 'Rohit Shakya',			
'Ron Suno', 'Roy Ayers Ubiquity', 'Roy Woods', 'Russ', 'Rvssian', 'Ryan Trey', 'SAINt JHN', 'SAYGRACE', 'SL', 'SLANDER', 'SYML', 'SZA', 'Saaff', 'Saba',			
'Saaff', 'Saba', 'Sabrina Claudio', 'Sachin-Jigar', 'SahBabii', 'Sally Sossa', 'Sam Smith', 'Sampa the Great', 'Saweetie', 'ScHoolboy Q', 'Scrim', 'Sean Kingston', 'Sean Paul', 'Selena Gomez', 'Serena Isioma', 'Shaggy',			
'Shaggy', 'Shashwot Khadka', 'Sheck Wes', 'Sheff G', 'Shetalké', 'Shordie Shordie', 'Shoreline Mafia', 'Shygirl', 'SiR', 'Sidhu Moose Wala', 'Simon Jefferis', 'SimxSantana', 'Sin Squad (SS)', 'Sinead Harnett',			
'Sinead Harnett', 'Sister Nancy', 'Skepta', 'Ski Mask The Slump God 'Skiibii', 'Skip Marley', 'Skizzy Mars', 'Skrillex', 'Sleepy Hallow', 'Slum Village', 'Small Doses with Amand 'Smiley', 'Smily', 'Smino',			

'SpotemGottem',

'Spotify',
'Stan Getz',
'StaySolidRocky',
'Steel Banglez',
'Stefflon Don',
'Steve Chana',
'Steve Lacy',
'Steve Tyrell',
'Stevie Nicks',
'Still Woozy',
'Stormzy',

In [41]: new_discoveries_music

'\$teven Cannon',
'\$uicideboy\$',
'03 Greedo',
'070 Shake',
'100 gecs',

Out[41]: ['\$NOT',

'VTEN', 'Valee', 'Vedo', 'Vegedream', 'Vek', 'Victor Internet', 'Victoria Monét', 'Vince Staples', 'Vishal-Shekhar', 'WESTSIDE BOOGIE', 'WILLOW', 'WSJ Minute Briefing', 'Waka Flocka Flame', 'Wale', 'Wavy Navy Pooh', 'Welcome to Night Vale', 'Wet', 'Whitney Houston', 'Wifisfuneral', 'Wiz Khalifa', 'WizKid', 'Wolftyla', 'XXXTENTACION', 'Xii4', 'Y2K', 'YBN Nahmir', 'YFN Lucci', 'YG', 'YK Osiris', 'YN Jay', 'YNW Melly', 'YSN Flow', 'Yabesh Thapa', 'Yama Buddha', 'Yebba', 'Yella Beezy', 'Yellow Claw', 'Yo Gotti', 'Yodda', 'Young Dolph', 'Young M.A', 'Young Money', 'Young Nudy', 'Young Stoner Life', 'Young T & Bugsey', 'Young Thug', 'YoungBoy Never Broke Again', 'Youngn Lipz', 'Youngs Teflon', 'Yung Baby Tate', 'Yung Bae', 'Yung Bans', 'Yung Bleu', 'Yung Fume', 'Yung Tory', 'Yungeen Ace', . . .] quarantine[quarantine.artist name.isin(new discoveries music)]\ In [42]: .groupby(by='artist name', as index=False)['ms played'].agg(sum).sort values(by='ms played', ascending = **False**) .head(10) Out[42]: artist_name ms_played 174509303 Drake 273 84831773 UMI 936 76911371 429 Jhené Aiko The Weeknd 58734006 895 55299393 922 Travis Scott Sushant KC 39922733 848 Young Thug 38314030 989 270 Don Toliver 35341221 Summer Walker 32390539 846 SAINt JHN 32103038 771 In [43]: new pods = [artist for artist in qtine pods if artist not in regular pods] len (new_pods) Out[43]: 55 quarantine In [44]: Out[44]: track_name ms_played artist_name end_time Week Type 112725 2020-05-09 00:00:00 2020/05/04 - 2020/05/10 rum.gold Save You Music 3 XXXTENTACION Everybody Dies In Their Nightmares 95466 2020-05-09 00:02:00 2020/05/04 - 2020/05/10 Music Clairo Pretty Girl 98432 2020-05-09 00:04:00 2020/05/04 - 2020/05/10 Music 11 12 girl in red we fell in love in october 68071 2020-05-09 00:05:00 2020/05/04 - 2020/05/10 Music 85860 2020-05-09 00:06:00 2020/05/04 - 2020/05/10 Music 13 Cuco Lover Is a Day ••• Sushant KC Sathi 215073 2021-05-09 22:48:00 2021/05/03 - 2021/05/09 Music 6896 6897 Sushant KC 224396 2021-05-09 22:52:00 2021/05/03 - 2021/05/09 Satayera 6898 Sushant KC Mausam 199466 2021-05-09 22:55:00 2021/05/03 - 2021/05/09 Music 373366 2021-05-09 23:02:00 2021/05/03 - 2021/05/09 Sushant KC 6899 Satayera Music Sushant KC Mausam 161535 2021-05-09 23:04:00 2021/05/03 - 2021/05/09 Music 6900 17352 rows × 6 columns In [45]: quarantine.head() Out[45]: artist_name end_time Week track_name ms_played Type rum.gold Save You 112725 2020-05-09 00:00:00 2020/05/04 - 2020/05/10 Music 3 XXXTENTACION Everybody Dies In Their Nightmares 95466 2020-05-09 00:02:00 2020/05/04 - 2020/05/10 Music 98432 2020-05-09 00:04:00 2020/05/04 - 2020/05/10 Music Clairo Pretty Girl 11 girl in red we fell in love in october 68071 2020-05-09 00:05:00 2020/05/04 - 2020/05/10 Music 12 Cuco Lover Is a Day 85860 2020-05-09 00:06:00 2020/05/04 - 2020/05/10 Music 13 In [46]: group_type = quarantine.groupby(by='Type', as_index=False)['ms_played'].agg(sum) group_type Out[46]: Type ms_played Music 2349789563 1 Podcast 663977974 In [47]: labels = 'Music', 'Podcast' sizes = [2349789563, 663977974]explode = (0, 0.1) # only "explode" the 2nd slice (i.e. 'Podcast') fig1, ax1 = plt.subplots() ax1.pie(sizes, explode=explode, labels=labels, autopct='%1.1f%%', shadow=True, startangle=90) ax1.axis('equal') # Equal aspect ratio ensures that pie is drawn as a circle. plt.show() Podcast 78.0% Music In [48]: #Popularity of artist based on the number of times their songs were clicked and played most_played_artists_by_count = streamingHistory.groupby(by='artist_name')['track_name'].count().sort_va lues(ascending=False)[:10] print('The most popular artists by number of times their songs were played were: $\n\$ '.format(most_pl ayed_artists_by_count)) The most popular artists by number of times their songs were played were: artist name Drake 961 UMI 600 Jhené Aiko 463 Pop Smoke 411 Raveena 379 6LACK 323 Lil Baby 308 297 Travis Scott The Weeknd 293 235 Summer Walker Name: track_name, dtype: int64 In [49]: colors = ['RGB(103, 0, 31)','RGB(178, 24, 43)','RGB(214, 96, 77)','RGB(244, 165, 130)','RGB(253, 219, 1 99)', 'RGB(247, 247, 247)', 'RGB(209, 229, 240)', 'RGB(146, 197, 222)', 'RGB(67, 147, 195)', 'RGB(33, 1 02, 172)', 'RGB(5, 48, 97)'] layout = go.Layout(title='Popularity Of Artists By Number Of Times Their Song Was Played', yaxis= dict(title="Number of Times Played", gridcolor='rgb(255, 255, 255)', zerolinewidth=1, ticklen=5, gridwidth=2, titlefont=dict(size=15)), xaxis=dict(title="Artist Name")) fig = go.Figure(data=[go.Bar(x=most_played_artists_by_count.index, y=most played_artists_by_count, textposition='auto', opacity=1, marker color=colors)]) fig.show() 1000 800 600 400 200 The Weekna Jhené Aiko Summer Walker Pop Smoke Travis Scott Lil Baby Drake UMI Raveena 6LACK In [50]: sum(quarantine['ms played'])/60000 Out[50]: 50229.45895 In [51]: quarantine music = quarantine[quarantine.Type.isin(['Music'])] In [52]: artists = quarantine_music.groupby(['artist_name'], as_index=False)['ms_played'].agg(sum).\ sort_values(by=['ms_played'], ascending=False).head(10) In [53]: import seaborn as sns sns.set(rc={'figure.figsize':(16,10)}) sns.set(style="whitegrid") sns.set(font scale=1.5) g = sns.barplot(x="artist_name", y="ms_played", data=artists) g.set title('Top Streamed Artists') g.set_xticklabels(g.get_xticklabels(),rotation=30) Out[53]: [Text(0, 0, 'Drake'), Text(0, 0, 'UMI'), Text(0, 0, 'Jhené Aiko'), Text(0, 0, 'The Weeknd'), Text(0, 0, 'Travis Scott'), Text(0, 0, 'Sushant KC'), Text(0, 0, 'Young Thug'), Text(0, 0, 'Don Toliver'), Text(0, 0, 'Summer Walker'), Text(0, 0, 'SAINt JHN')] Top Streamed Artists 1e8 1.75 1.50 1.25 ms_played 0.75 0.50 0.25 0.00 The Weekind Sushant KC Travis Scott Young Thug Don Toliver SAINTIHN Jhené Aiko Summer Walker NNI Drake artist_name In [54]: artist = streamingHistory0.append(streamingHistory1).append(streamingHistory2) artist['minutes_played'] = artist.ms_played.divide(60000) artist.drop('ms_played', axis=1, inplace=True) artist.drop('end_time', axis=1, inplace=True) artist.head() Out[54]: artist_name track_name minutes_played Alessia Cara Out Of Love 0.048700 0 Save You 1.878750 1 rum.gold Lewis Capaldi 0.099033 3 XXXTENTACION Everybody Dies In Their Nightmares 1.591100 Calum Scott Dancing On My Own 0.010300 artist 1 = artist.drop duplicates(subset = ["track name"]) artist_1.drop('minutes_played', axis=1, inplace=True) artist 1 /opt/anaconda3/lib/python3.8/site-packages/pandas/core/frame.py:3990: SettingWithCopyWarning: A value is trying to be set on a copy of a slice from a DataFrame See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexin g.html#returning-a-view-versus-a-copy Out[55]: artist_name track_name Out Of Love Alessia Cara 0 rum.gold Save You 1 Lewis Capaldi Bruises XXXTENTACION **Everybody Dies In Their Nightmares** Calum Scott Dancing On My Own 6434 Curren\$y The Count (feat. Wiz Khalifa) Slide (with Gunna) 6588 Coi Leray Coi Leray I Like It (feat. Kiana Lede & Sevyn Streeter) 6589 6696 D-Block Europe Ferrari Horses 6697 Ghost Killer Track Tonight (feat. D-Block Europe & OBOY) 5839 rows × 2 columns In [56]: artist_1 = artist_1.groupby(['artist_name'], as_index = False).count() artist 1 Out [56]: artist_name track_name 0 \$NOT 3 1 \$teven Cannon uicideboy 3 03 Greedo 4 070 Shake will hyde 1461 will.i.am 1462

'Stunna 4 Vegas',

'Summer Walker', 'Surf Curse', 'Sushant KC', 'Swae Lee', 'Swifta Beater',

'Sérgio Mendes',

'TOKYO'S REVENGE',

'Sublime',

'Sybyr',

'T.I.', 'T9ine', 'TEK.LUN', 'THE SCOTTS', 'TJ Porter',

'TLC',

'TWENTY88', 'Tainy', 'Takeoff', 'Takeover', 'Tame Impala', 'Tanishk Bagchi',

'Tay2xs',

'Teeway', 'Tekno', 'Temani',

'Thalia', 'The 1975', 'The Axe',

'The Eddy', 'The Game',

'The Plug', 'The Shacks', 'The Smiths', 'The Strokes', 'The Uglyz',

'The Weeknd', 'Therapy Chat', 'Thundercat', 'TiaCorine', 'Tiagz',

'Tierra Whack', 'Tiger Goods', 'Tinashe', 'Tinie Tempah',

'Tion Wayne', 'Tiwa Savage', 'Tizzy Stackz', 'Tokyo Jetz', 'Tom Misch', 'Tom Zanetti', 'Tommy B', 'Tomppabeats',

'Tink',

'Toosii' 'Topic', 'Tora-i', 'Tory Lanez', 'Tove Lo', 'Towerz', 'Tr4gic',

'Trae Tha Truth', 'Travis Scott', 'Tray Tray', 'Trevor Daniel', 'Trey Songz', 'Trippie Redd', 'Trizzac', 'Troy Ave', 'Turbo',

'Ty Dolla \$ign',

'Tyler, The Creator',

'Unknown Artist', 'Unknown T', 'UnoTheActivist',

'Urgent Care with Joel Kim Booster + Mitra Jouhari',

'TyDaGod', 'Tyga',

'UKNWN', 'UMI', 'Ufo361', 'Uk Drill',

'Usher',

'Tyla Yaweh',

'Taylor Swift', 'Tee Grizzley', 'Teedra Moses',

'Teyana Taylor',

'The Blackbyrds', 'The Carters',

'The Chainsmokers', 'The Cranberries',

'The Honest Guys', 'The Internet', 'The King Cody', 'The Kudu',

'The Lumineers',

'The Notorious B.I.G.',

'The Walden Brothers',

'Tibetan Singing Bowls',

1463 young lama 2 1464 zenorachi Édith Piaf 1465 1466 rows × 2 columns In [57]: artist_1 = artist_1.rename(columns={"track_name": "unique_songs"}) artist 1.head() Out[57]: \$NOT 3 \$teven Cannon 1 uicideboy 2 3 03 Greedo 4 070 Shake In [58]: time = artist.groupby(['artist_name'], as_index=False).sum() time.head() Out[58]: artist_name minutes_played 14.770700 \$NOT 0 \$teven Cannon 3.151233 uicideboy 0.857233 3 03 Greedo 15.945000 070 Shake 3.586833 In [59]: #Top 10 Artist top artist = pd.merge(artist 1, time, on='artist name') top_artist = top_artist.sort_values(by='unique_songs', ascending=False).head(10) top_artist Out[59]: artist_name unique_songs minutes_played 391 Drake 160 2925.390167 475 Future 80 519.657750 983.892767 The Weeknd 75 1289 NAV 67 388.434050 890 Pop Smoke 1054.344450 1005 64 12 21 Savage 64 162.901417

433.674817

267.742200

1289.407400

925.225517

The Weekna

NAV

song = streamingHistory0.append(streamingHistory1).append(streamingHistory2)

track_name

Out Of Love

Save You

Dancing On My Own 2020-05-09 00:02

Sathi

by Songs', size="unique songs", color discrete sequence=px.colors.sequential.RdBu)

fig = px.scatter(top_artist, x="artist_name", y="minutes_played", title='Top 10 of Most Played Artists

Lana Del Rey

0.048700

1.878750

0.099033

1.591100

0.010300

3.584550

3.739933

Lil Uzi Vert

Jhené Aiko

Travis Scott

21 Savage

end_time minutes_played

Pop Smoke

artist_name

2020-05-09 00:00

2020-05-09 00:00

2021-05-09 22:48

Bruises 2020-05-09 00:02

Satayera 2021-05-09 22:52

63

63

54

Top 10 of Most Played Artists by Songs

Lana Del Rey

Lil Uzi Vert

Jhené Aiko

Travis Scott

739

768

622

1325

fig.show()

3000

2500

2000

1500

1000

500

#Most listened to song

artist_name

Alessia Cara

Lewis Capaldi

Calum Scott

Sushant KC

Sushant KC

rum.gold

0

6896

6897

Drake

Future

song['minutes played'] = song.ms played.divide(60000)

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song.drop('ms played', axis=1, inplace=True)

In [60]:

In [61]:

Out[61]:

Out[66]:

artist_name

H3 Podcast

Raveena

Future

Alex Rose

Sushant KC

Sushant KC

GRM Daily

Raveena

Raveena

92914

Drake

Song Listened to the Most

Glock Six Bonus

Jen Awad

Travis Scott

300

200

100

#Top 50 Songs

artist_name

Alessia Cara

Lewis Capaldi

Calum Scott

Sushant KC

Sushant KC

Sushant KC

Sushant KC

Sushant KC

26901 rows × 4 columns

rum.gold

top 50

1

6896 6897

6898

6899

6900

minutes_played

fig.show()

0

1

3

5

6

9

10

11

12

13

14

15

In [67]:

In [68]:

Out[68]:

SZA

6LACK

Mausam 2021-05-09 22:55 Sushant KC 3.324433 6898 Satayera 2021-05-09 23:02 6899 Sushant KC 6.222767 6900 Sushant KC Mausam 2021-05-09 23:04 2.692250 26901 rows × 4 columns In [62]: song = song.groupby(['track name'], as index=False).sum() song = song.sort values(by='minutes played', ascending=False) song Out[62]: track name minutes played 1979 Good Days 309.695083 Glock Six - Bonus 224.378750 1932 5182 Trisha & Ethan Do Oddly Satisfying Trends - Fr... 207.515317 2167 Headaches 201.739267 Jake Paul, Wendy Williams, Bhad Bhabie & Dr. P... 2545 197.453467 ••• No cap 2 0.000000 3482 Enna Sona (From "OK Jaanu") 1533 0.000000 1532 Enna Sona 0.000000 Now & Forever 0.000000 3516 715 Black Joe Dirt 0.000000 5839 rows × 2 columns In [63]: song_artist = streamingHistory0.append(streamingHistory1).append(streamingHistory2) song artist = song artist.sort values(by='track name', ascending=False) song_artist.drop('end_time', axis=1, inplace=True) song_artist.drop('ms_played', axis=1, inplace=True) song_artist.head(10) Out[63]: track name artist_name दुनिया के सपने 1563 Raku-Nu 3504 Bad Bunny ¿Quien Tu Eres? 1183 **Bad Bunny** ¿Quien Tu Eres? ¿Quien Tu Eres? 9519 **Bad Bunny** 4962 Bad Bunny ¿Quien Tu Eres? Bad Bunny ¿Quien Tu Eres? 6693 2061 Bad Bunny ¿Quien Tu Eres? ¿Quien Tu Eres? 6249 Bad Bunny 6065 **Bad Bunny** ¿Quien Tu Eres? 2124 Bad Bunny ¿Quien Tu Eres? song_artist = song_artist.drop_duplicates(subset = ["track_name"]) In [64]: song_artist Out[64]: artist_name track_name दुनिया के सपने 1563 Raku-Nu 3504 Bad Bunny ¿Quien Tu Eres? Kali Uchis ¡aquí yo mando! 5614 duendita 4415 yaya my favorite worldstar money (interlude) 8570 Joji 4020 The Joe Rogan Experience #1491 - Bill Burr The Joe Rogan Experience 3100 #1490 - Jimmy O. Yang

"BOP" CJ 3986 8839 Trippie Redd 7072 The Psychology Podcast with Scott Barry Kaufman Steven Hayes || Liberate Your Mind 5839 rows × 2 columns song = pd.merge(song artist, song, on='track name') In [65]: song = song.sort values(by='minutes played', ascending=False) song Out[65]: artist_name track_name minutes_played SZA Good Days 309.695083 3859 **6LACK** Glock Six - Bonus 224.378750 3906

656 H3 Podcast Trisha & Ethan Do Oddly Satisfying Trends - Fr... 207.515317 Raveena Headaches 3671 201.739267 3293 H3 Podcast Jake Paul, Wendy Williams, Bhad Bhabie & Dr. P... 197.453467 4533 Diamonds All on My Wrist **PUP** DVP 0.000000 4634 Adil **BANTER** 0.000000 5384 **BROCKHAMPTON** 5385 BANKROLL (feat. A AP Rocky & A AP Ferg) 0.000000 Malachi X 0.000000 All About The Money (feat. Malachi X) 5532 5839 rows × 3 columns In [66]: song = song.sort values(by='minutes played', ascending=False).head(16) song.reset index(inplace = True, drop = True)

track_name minutes_played

309.695083

224.378750

207.515317

201.739267

197.453467

184.761733

169.738067

169.697950

162.783183

160.472450

160.305100

159.562217

157.316367

154.523783

145.799017

134.895617

artist_name

Moving Naughty (feat. Aitch & B Young)

SZA 6LACK

H3 Podcast Raveena

Future

Alex Rose Sushant KC

fig = px.bar(song, x="track name", y="minutes played", title = 'Song Listened to the Most', color = "ar

Good Days

Headaches

Darte Remix

Satayera

Mausam

If Only

Honey

Okinawa

From Time

CAN'T SAY

Tsunami

Trisha & Feadaches Six Bonus Do Oddly Williams Bhad Bhabie & Dr. Phil Frenemies * 30 After Dark * 31

track_name

Out Of Love 2020-05-09 00:00

Dancing On My Own 2020-05-09 00:02

Save You 2020-05-09 00:00

Bruises 2020-05-09 00:02

Sathi 2021-05-09 22:48

Satayera 2021-05-09 22:52

Mausam 2021-05-09 22:55

Satayera 2021-05-09 23:02

Mausam 2021-05-09 23:04

end_time minutes_played

0.048700

1.878750

0.099033

1.591100

0.010300

3.584550

3.739933

3.324433

6.222767

2.692250

top_50 = streamingHistory0.append(streamingHistory1).append(streamingHistory2)

track_name

top_50['minutes_played'] = top_50.ms_played.divide(60000)

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top_50.drop('ms_played', axis=1, inplace=True)

Glock Six - Bonus

Solitaires (feat. Travis Scott)

Moving Naughty (feat. Aitch & B Young)

tist name", color discrete sequence=px.colors.sequential.RdBu)

Trisha & Ethan Do Oddly Satisfying Trends - Fr...

H3 Podcast Jake Paul, Wendy Williams, Bhad Bhabie & Dr. P...

