Sub-genre Analysis

December 6, 2019

1 Sub-genre Analysis: Analyze the subgenres of the *everynoise* network

```
[13]: # Imports
import numpy as np
import pandas as pd
import networkx as nx
import community
import ast
import matplotlib.pyplot as plt
from joblib import Parallel, delayed

import seaborn as sns

# Plotting Colors
sns.set()
sns.set_style("white")
```

1.1 Load the Data

```
2 2 orthodoxchant
3 3 tar
4 4 reggae

SIM_GENRES \
0 ['reiki', 'calminginstrumental', 'yoga', 'back...
1 ['bluesrock', 'andalusianclassical', 'chaabima...
```

^{2 [&#}x27;universitychoir', 'polishchoir', 'ukrainianc...
3 ['oud', 'persiantraditional', 'bansuri', 'tar'...

```
4 ['dancehall', 'brazilianreggae', 'skarevival',...
                                          SIM WEIGHTS \
0 ['103', '120', '101', '240', '102', '125', '11...
1 ['103', '107', '109', '100', '102', '103', '10...
2 ['102', '105', '107', '104', '106', '240', '10...
3 ['106', '120', '101', '240', '103', '113', '10...
4 ['109', '105', '114', '101', '100', '127', '11...
                                           OPP GENRES \
0 ['mahraganat', 'divahouse', 'oldschoolukhiphop...
1 ['shiverpop', 'gravewave', 'tassieindie', 'est...
2 ['sambass', 'funkybreaks', 'hardbass', 'hardco...
3 ['happyhardcore', 'aggrotech', 'nightcore', 'b...
4 ['brazilianlo-firock', 'martialindustrial', 'p...
                                          OPP_WEIGHTS \
0 ['160', '100', '121', '110', '135', '136', '12...
1 ['112', '112', '105', '102', '124', '100', '16...
2 ['107', '110', '158', '100', '119', '111', '10...
3 ['109', '107', '127', '114', '115', '120', '12...
4 ['106', '107', '155', '121', '160', '108', '14...
                                          REL ARTISTS \
O ['NoemiNucci', 'JuditheAbelsen', 'FabienneWill...
1 ['HajHusseinToulali', 'AbdelhadiBelkheyat', 'H...
2 ['LegeArtis', 'PeterMichaelides', 'CapellaGreg...
3 ['KiyarashSaket', 'YusefForutan', 'HamidMoteba...
4 ['TheItals', 'MykalRose', 'JohnnieClark', 'Asw...
                                       ARTIST_WEIGHTS \
0 ['113', '117', '106', '131', '109', '115', '11...
1 ['102', '103', '103', '108', '108', '102', '10...
2 ['114', '100', '160', '127', '115', '115', '10...
3 ['100', '100', '111', '100', '100', '100', '10...
4 ['101', '102', '100', '105', '101', '105', '10...
                                          SPOTIFY URL
0 https://open.spotify.com/user/thesoundsofspoti...
1 https://open.spotify.com/user/thesoundsofspoti...
2 https://open.spotify.com/user/thesoundsofspoti...
3 https://open.spotify.com/user/thesoundsofspoti...
```

4 https://open.spotify.com/user/thesoundsofspoti...

1.2 Construct the Weighted Graph based on Similar Genres where $|SIM_GENRES| > n$

Where n is the number of edges / connections for a genre.

1.2.1 Functions

```
[3]: '''
     df: Dataframe
     support: The minimum number of connections a node must have to be incorporated \Box
     ⇒into the set of genres
     Useful for checking the genres that have over <support> connections.
     def set_genre(df, support: int = -1):
         set genres = set()
         for idx, row in df.iterrows():
             connections = ast.literal_eval(row['SIM_GENRES'])
              # Only add the (node, edges) into the set if the number of connections \Box
      \rightarrow is greater than the support
             if len(connections) > support:
                  set_genres.add(row['GENRE'])
                  set_genres.update(connections)
         return (support, set_genres)
     111
     df: Dataframe
     support: The minimum number of connections a node must have to be incorporated \sqcup
      \hookrightarrow into the graph
     n: The number of rows to traverse on the Dataframe (only useful for testing)
     111
     def generate_G(df, support: int = -1, n: int = 5000):
         G = nx.Graph()
         for idx, row in df.iterrows():
             connections = ast.literal_eval(row['SIM_GENRES'])
             weights = ast.literal_eval(row['SIM_WEIGHTS'])
             # Only add the (node, edges) if the number of connections is greater.
      \hookrightarrow than the support
             if len(connections) > support:
                  G.add_node(row['GENRE'])
                  edges = [(row['GENRE'], connections[i], int(weights[i])) for i in_
      →range(len(connections))]
                  G.add_weighted_edges_from(edges)
              # Useful if you only need a small sample (for testing mainly)
             if idx == n:
```

```
break
return G

def plot_network(G, set_genres):
    plt.rcParams['figure.dpi'] = 300

fig, ax = plt.subplots(1, figsize = (16,9))

pos = nx.spring_layout(G)
    nx.draw_networkx_nodes(G, pos, nodelist = list(set_genres), node_size = 20, u
-alpha = 1)
    nx.draw_networkx_edges(G, pos, width = 1.0, alpha = 1, connectionstyle = u
-'arc3, rad=1')

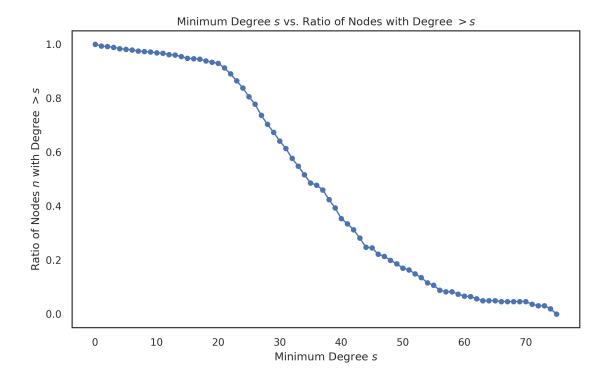
# labels = nx.draw_networkx_labels(G, pos, font_size = 3)

ax.axis('off')
    plt.show()

# fig.savefig('./images/spring_layout_subgenres.pdf', bbox_inches='tight')
```

1.2.2 What can various support sizes tell us about the everynoise network?

```
[4]: subgenre_sets = Parallel(n_jobs = -3, verbose = 2, batch_size =_u
       →'auto')(delayed(set_genre)(df_allG, i) for i in np.arange(76))
     [Parallel(n_jobs=-3)]: Using backend LokyBackend with 10 concurrent workers.
     [Parallel(n_jobs=-3)]: Done 21 tasks
                                                              5.3s
                                                | elapsed:
     [Parallel(n_jobs=-3)]: Done 76 out of 76 | elapsed:
                                                             12.8s finished
 [5]: num_connections, sub_sets = zip(*sorted(subgenre_sets, key = lambda s: s[0]))
      subgenre_lengths = np.array(list(map(len, sub_sets)))
[15]: plt.rcParams['figure.dpi'] = 300
      fig1, ax1 = plt.subplots(1, figsize = (10,6))
      ax1.plot(num_connections, subgenre_lengths / subgenre_lengths[0], '-o')
      ax1.set_xlabel(r'Minimum Degree $s$')
      ax1.set_ylabel(r'Ratio of Nodes $n$ with Degree $>s$')
      ax1.set_title(r'Minimum Degree $s$ vs. Ratio of Nodes with Degree $>s$')
      ax1.grid(False)
      plt.show()
      fig1.savefig('./images/subgenre_connections', bbox_inches='tight')
```



From the plot, we can see that as the degree s increases, and of course the ratio of nodes with degree d > s decreases monotonically. The largest change in the ratio of nodes is from about s = 20 to s = 45. There are genres that have no similar genres on *everynoise*, so there needs to be a way to account for these and not have them by their lonesome. We can use the genres it's most opposite to and make connections between that genre, and others who share similar OPP_GENRES . There are also other 'island' communities that perhaps could be connected to the main graph with that strategy as well.

```
[7]: G1 = generate_G(df_allG, 2)
partition = community.best_partition(G1)

# size = float(len(set(partition.values())))
# pos = nx.spring_layout(G1,k=1,iterations=20)

# count = 0
# for com in set(partition.values()):
# count = count + 1
# list_nodes = [nodes for nodes in partition.keys() if partition[nodes] ==____
com]

# nx.draw_networkx_nodes(G1, pos, list_nodes, node_size = 20, node_color =___
str(count / size))

# nx.draw_networkx_edges(G1, pos, edge_color = str(count / size), alpha=0.5)
# plt.show()
# # plot_network(G1, sub_sets[2])
```

2 Playlist Feature Analysis

```
[8]: play features = pd.read csv('play id to features.csv')
     play_features['genre'] = df_allG['GENRE']
     play features.head()
[8]:
                     Unnamed: 0
                                  danceability
                                                                 loudness
                                                                            mode
                                                   energy
                                                            key
        2JsqQdMbBC2hh7GjsEjKFg
                                      0.222149
                                                0.073075
                                                           4.38 -25.78303
                                                                            0.66
        2SoQc6bippmMyUTn1qditv
     1
                                      0.525410
                                                0.645390
                                                           4.22
                                                                 -9.24089
                                                                            0.72
     2 1KZMCWImik3vA17zVLJ3c3
                                      0.213119
                                                0.166708
                                                           5.39 -18.83644
                                                                            0.56
     3 1i9zTcQqWUBTgIuCgxDW3S
                                                           5.05 -12.84006
                                      0.439940
                                                0.348418
                                                                            0.71
     4 OTcXdt4sbITbwCwwFbKYyd
                                      0.789310
                                                0.518160
                                                           5.14 -10.01960
                                                                            0.53
        speechiness
                      acousticness
                                     instrumentalness
                                                        liveness
                                                                    valence
                                                                                 tempo
     0
           0.041801
                          0.922340
                                             0.899800
                                                        0.118957
                                                                   0.095634
                                                                              92.38971
     1
           0.083043
                                                                             119.71814
                          0.468130
                                             0.066672
                                                        0.282273
                                                                  0.695130
     2
           0.039690
                          0.966740
                                             0.210298
                                                        0.152561
                                                                   0.144698
                                                                             102.87562
     3
           0.055323
                          0.896280
                                             0.855150
                                                                  0.396229
                                                                             107.26951
                                                        0.141858
     4
           0.133222
                          0.148952
                                             0.111601
                                                        0.148528
                                                                  0.736290
                                                                             118.49993
        time_signature
                                       genre
     0
                   3.60
                            backgroundmusic
     1
                   3.55
                         classicmoroccanpop
     2
                   3.69
                              orthodoxchant
     3
                   3.60
                                         tar
     4
                   4.00
                                      reggae
```

3 Feature Description

According to the Spotify Web API (This is just for reference and describes the meaning of the audio features used by spotify to describe tracks)

3.1 Danceability

"Danceability describes how suitable a track is for dancing based on a combination of musical elements including tempo, rhythm stability, beat strength, and overall regularity. A value of 0.0 is least danceable and 1.0 is most danceable."

3.2 Speechiness

"Speechiness detects the presence of spoken words in a track. The more exclusively speech-like the recording (e.g. talk show, audio book, poetry), the closer to 1.0 the attribute value. Values above 0.66 describe tracks that are probably made entirely of spoken words. Values between 0.33 and 0.66 describe tracks that may contain both music and speech, either in sections or layered, including such cases as rap music. Values below 0.33 most likely represent music and other non-speech-like tracks."

3.3 Energy

"Energy is a measure from 0.0 to 1.0 and represents a perceptual measure of intensity and activity. Typically, energetic tracks feel fast, loud, and noisy. For example, death metal has high energy, while a Bach prelude scores low on the scale. Perceptual features contributing to this attribute include dynamic range, perceived loudness, timbre, onset rate, and general entropy."

3.4 Instrumentalness

"Predicts whether a track contains no vocals. "Ooh" and "aah" sounds are treated as instrumental in this context. Rap or spoken word tracks are clearly "vocal". The closer the instrumentalness value is to 1.0, the greater likelihood the track contains no vocal content. Values above 0.5 are intended to represent instrumental tracks, but confidence is higher as the value approaches 1.0."

3.5 Key

"The key the track is in. Integers map to pitches using standard Pitch Class notation . E.g. $0=C,\,1=C$ /D , 2=D, and so on."

3.6 Liveness

"Detects the presence of an audience in the recording. Higher liveness values represent an increased probability that the track was performed live. A value above 0.8 provides strong likelihood that the track is live."

3.7 Loudness

"The overall loudness of a track in decibels (dB). Loudness values are averaged across the entire track and are useful for comparing relative loudness of tracks. Loudness is the quality of a sound that is the primary psychological correlate of physical strength (amplitude). Values typical range between -60 and 0 db."

3.8 Mode

"Mode indicates the modality (major or minor) of a track, the type of scale from which its melodic content is derived. Major is represented by 1 and minor is 0."

3.9 Tempo

The overall estimated tempo of a track in beats per minute (BPM). In musical terminology, tempo is the speed or pace of a given piece and derives directly from the average beat duration.

3.10 Time Signature

"An estimated overall time signature of a track. The time signature (meter) is a notational convention to specify how many beats are in each bar (or measure)."

3.11 Valence

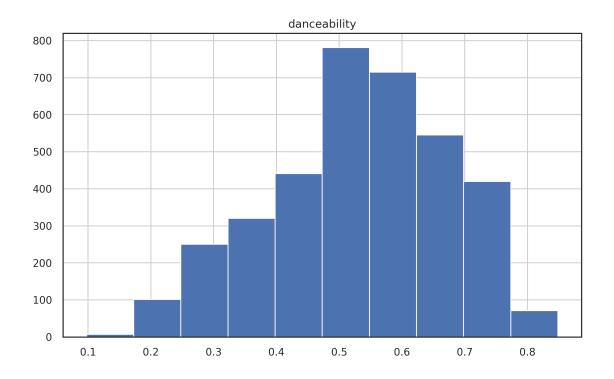
"A measure from 0.0 to 1.0 describing the musical positiveness conveyed by a track. Tracks with high valence sound more positive (e.g. happy, cheerful, euphoric), while tracks with low valence sound more negative (e.g. sad, depressed, angry)."

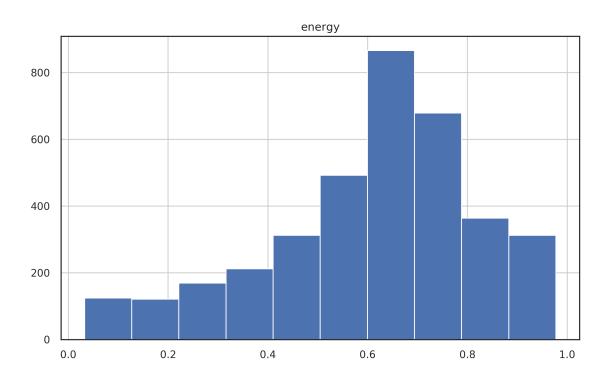
```
[17]: features = ['danceability', 'energy', 'key', 'loudness', 'mode', 'speechiness',
      [18]: play_features[play_features['danceability'] == -1]
[18]: Empty DataFrame
     Columns: [Unnamed: 0, danceability, energy, key, loudness, mode, speechiness,
     acousticness, instrumentalness, liveness, valence, tempo, time_signature, genre]
     Index: []
[19]: # -1 means the api returned some sort of error
     # we will go back later and look into this error but for now remove it because
      → it makes the graphs yucky
     play_features = play_features.drop(634)
            KeyError
                                                 Traceback (most recent call last)
            <ipython-input-19-104eb58533b3> in <module>
              1 # -1 means the api returned some sort of error
              2 # we will go back later and look into this error but for now remove_{\sqcup}
      →it because it makes the graphs yucky
        ----> 3 play_features = play_features.drop(634)
            ~/anaconda3/lib/python3.7/site-packages/pandas/core/frame.py in_

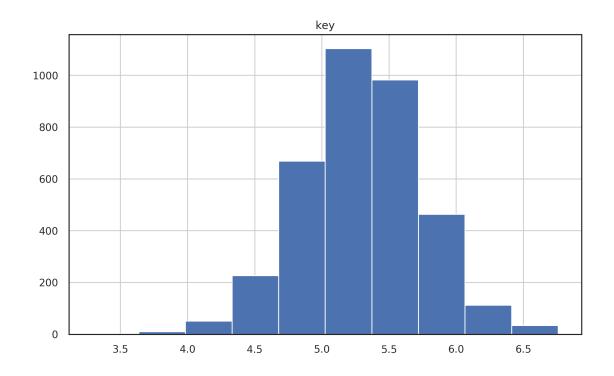
→drop(self, labels, axis, index, columns, level, inplace, errors)
           4115
                           level=level,
           4116
                           inplace=inplace,
        -> 4117
                           errors=errors,
                        )
           4118
           4119
            ~/anaconda3/lib/python3.7/site-packages/pandas/core/generic.py in_u
      →drop(self, labels, axis, index, columns, level, inplace, errors)
           3912
                        for axis, labels in axes.items():
                           if labels is not None:
           3913
```

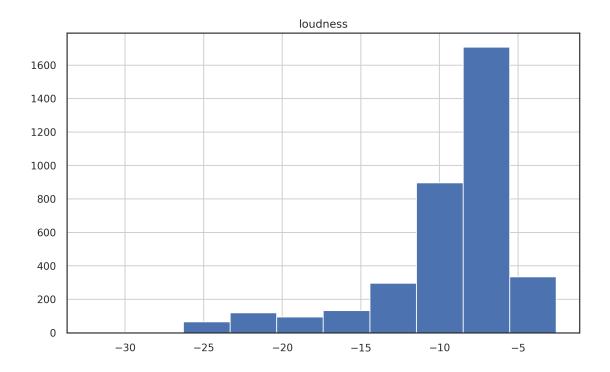
```
-> 3914
                                 obj = obj._drop_axis(labels, axis, level=level,_
      →errors=errors)
            3915
            3916
                         if inplace:
             ~/anaconda3/lib/python3.7/site-packages/pandas/core/generic.py in_
      →_drop_axis(self, labels, axis, level, errors)
            3944
                                 new_axis = axis.drop(labels, level=level,__
      →errors=errors)
            3945
                             else:
         -> 3946
                                 new_axis = axis.drop(labels, errors=errors)
                             result = self.reindex(**{axis_name: new_axis})
            3947
            3948
             ~/anaconda3/lib/python3.7/site-packages/pandas/core/indexes/base.py in_
      →drop(self, labels, errors)
            5338
                         if mask.any():
                              if errors != "ignore":
            5339
         -> 5340
                                  raise KeyError("{} not found in axis".
      →format(labels[mask]))
            5341
                              indexer = indexer[~mask]
            5342
                         return self.delete(indexer)
             KeyError: '[634] not found in axis'
[20]: for f in features:
          plt.rcParams['figure.dpi'] = 300
          fig, ax = plt.subplots(1, figsize = (10,6))
          ax.grid(False)
          if f == 'speechiness':
              play_features[f].hist(bins = 10)
          else:
              play_features[f].hist()
          plt.title(f)
          plt.show()
          fig.savefig('./images/' + 'hist' + f + '.pdf', bbox_inches = 'tight', u

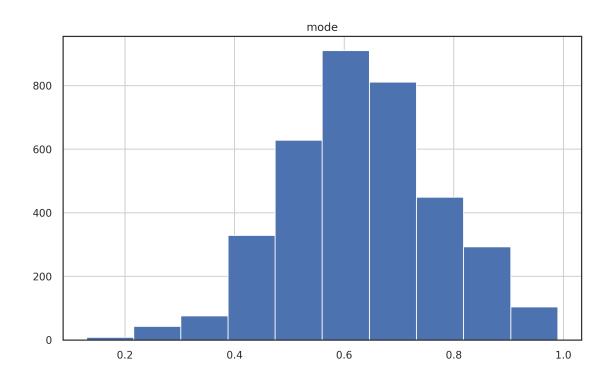
→facecolor='w', edgecolor='k')
```

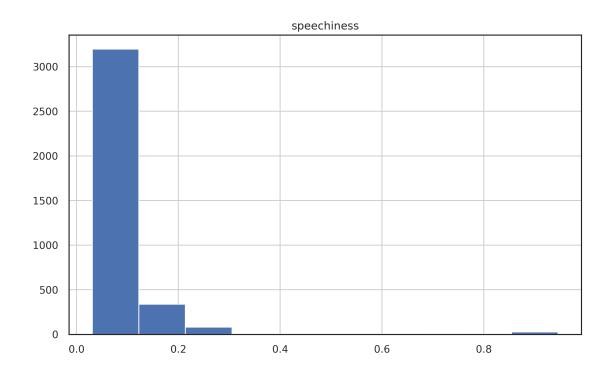


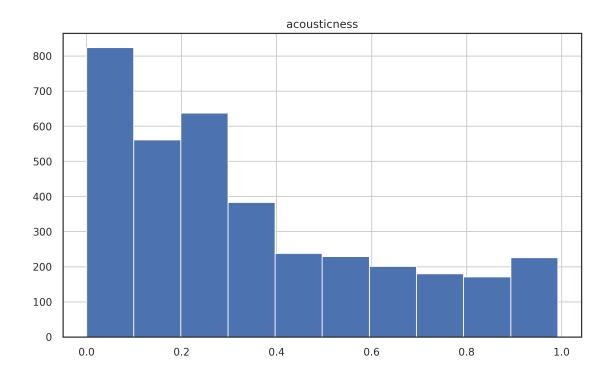


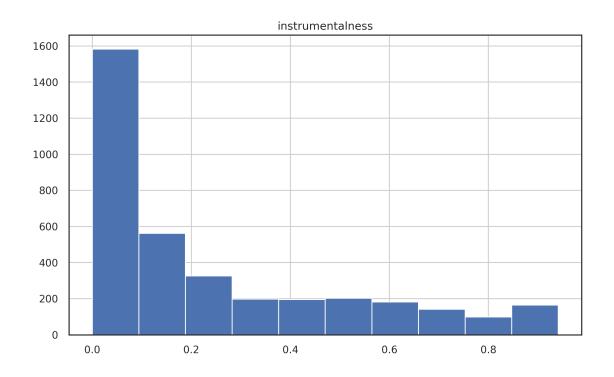


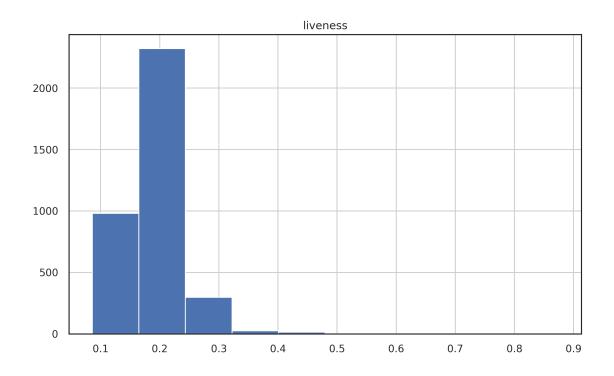


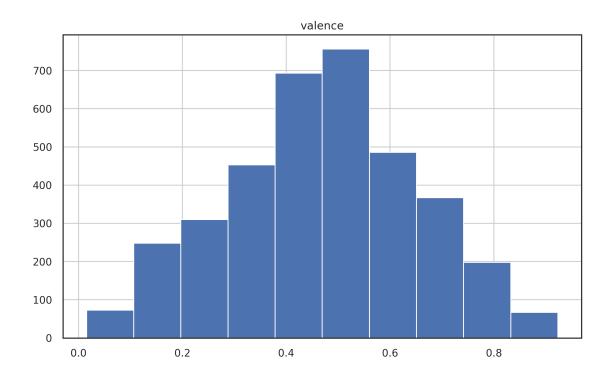


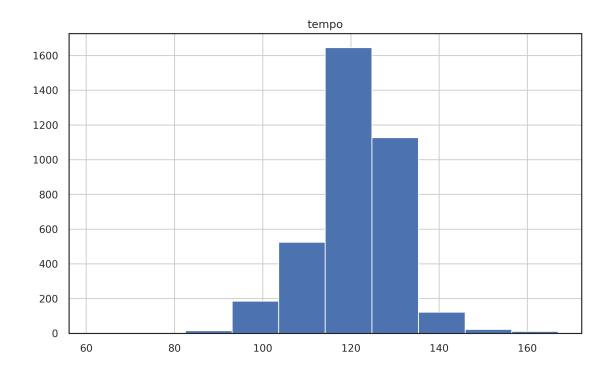


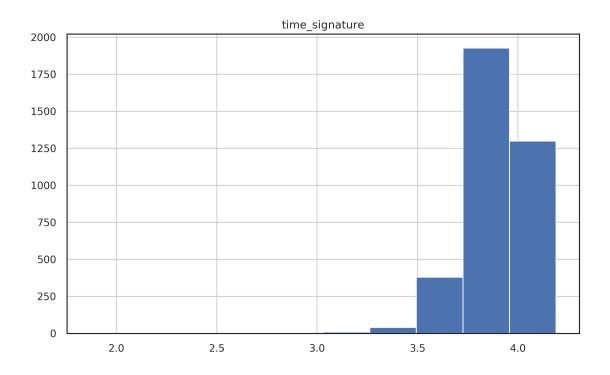








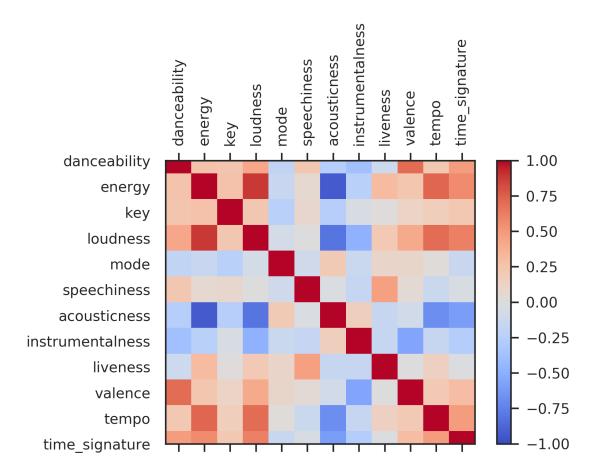




4 Feature Selection

It would appear looking at the distributions of the playlist tracks average values that a few features may be less meaningful. Looking at the above, we may find it useful to throw out time-signature, instrumentalness, speechiness, liveness, and mode, because they aren't distributed in what looks like anything meaningful.

We are planning to perform PCA or SVD to determine which features to throw out instead of solely basing it on the distributions. We will combine knowledge of the feature distribution and knowledge gained from performing PCA and SVD to decide if any features are not super useful because clustering is easier to understand with fewer features.



4]: corr						
4]:	danceability	energy	key	loudness	mode	\
danceability	1.000000	0.257257	0.236148	0.422287	-0.179728	
energy	0.257257	1.000000	0.260147	0.886939	-0.146544	
key	0.236148	0.260147	1.000000	0.224181	-0.240231	
loudness	0.422287	0.886939	0.224181	1.000000	-0.069954	
mode	-0.179728	-0.146544	-0.240231	-0.069954	1.000000	
speechiness	0.224802	0.065134	0.079451	-0.004781	-0.100162	
acousticness	-0.259331	-0.922405	-0.263718	-0.806765	0.197143	
${\tt instrumentalness}$	-0.380593	-0.240344	-0.040987	-0.478073	-0.129864	
liveness	-0.112248	0.311508	0.009864	0.205118	0.104174	
valence	0.695946	0.228866	0.120910	0.412067	0.100436	
tempo	0.211136	0.725210	0.170979	0.700895	0.018640	
time_signature	0.483703	0.562731	0.211412	0.612841	-0.146280	
	speechiness	acousticne	ess instr	umentalness	s liveness	\
danceability	0.224802	-0.2593	331	-0.380593	3 -0.112248	
energy	0.065134	-0.9224	105	-0.240344	1 0.311508	

```
0.079451
                                        -0.263718
                                                           -0.040987 0.009864
      key
      loudness
                                        -0.806765
                                                           -0.478073 0.205118
                          -0.004781
      mode
                          -0.100162
                                         0.197143
                                                           -0.129864 0.104174
      speechiness
                           1.000000
                                        -0.027193
                                                           -0.170656 0.465038
      acousticness
                          -0.027193
                                         1.000000
                                                            0.161360 -0.155478
      instrumentalness
                          -0.170656
                                                            1.000000 -0.149406
                                         0.161360
      liveness
                           0.465038
                                        -0.155478
                                                           -0.149406 1.000000
      valence
                           0.044248
                                        -0.078490
                                                           -0.555266 -0.001505
      tempo
                                        -0.685018
                                                           -0.149863 0.142094
                          -0.131915
                                                           -0.270984 -0.016979
      time_signature
                          -0.039374
                                        -0.602604
                         valence
                                            time_signature
                                     tempo
      danceability
                        0.695946
                                  0.211136
                                                  0.483703
      energy
                        0.228866
                                  0.725210
                                                  0.562731
                                                  0.211412
                        0.120910 0.170979
     key
      loudness
                        0.412067
                                  0.700895
                                                  0.612841
      mode
                                                  -0.146280
                        0.100436 0.018640
      speechiness
                        0.044248 -0.131915
                                                  -0.039374
      acousticness
                       -0.078490 -0.685018
                                                  -0.602604
      instrumentalness -0.555266 -0.149863
                                                  -0.270984
      liveness
                       -0.001505 0.142094
                                                  -0.016979
      valence
                        1.000000 0.205866
                                                  0.292388
      tempo
                        0.205866
                                  1.000000
                                                  0.481966
      time signature
                        0.292388 0.481966
                                                   1.000000
[25]: print('danceability and valence -- ',corr['danceability']['valence'])
      print('energy and tempo -- ',corr['energy']['tempo'])
      print('energy and loudness -- ',corr['energy']['loudness'])
      print('energy and acousticness -- ',corr['energy']['acousticness'])
      print('loudness and acousticness -- ',corr['loudness']['acousticness'])
     danceability and valence -- 0.6959463277241735
     energy and tempo -- 0.7252100242282989
     energy and loudness -- 0.8869393927629774
     energy and acousticness -- -0.9224048705196256
```

5 Feature Correlation

The above is a heatmap showing feature by feature correlation.

loudness and acousticness -- -0.8067651401675102

The highest positive correlation is between energy and loudness which makes intuitive sense. A song with more loudness may be a good indicator of high energy, so we may not need to consider both of these features. Also, energy is highly correlated with tempo, but since tempo and loudness aren't correlated as highly removing energy from consideration may be best.

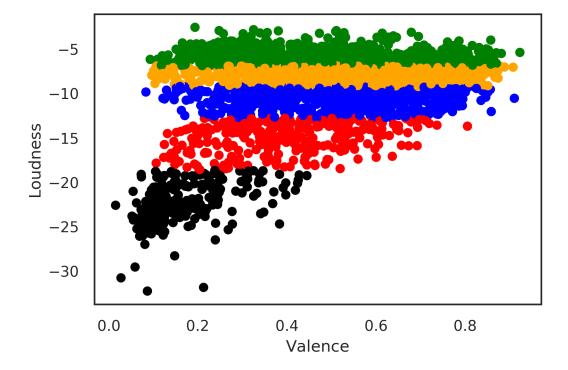
The correlation between danceability and valence means that more danceable songs tend to have

a more positive mood and less danceable songs have a sadder mood. I get it, I don't like to dance while I cry either!

The most highly negatively correlated features are energy and acousticness. This is interesting, not something I would have guessed as I don't tend to necessarily associate accoustic music inherently with low energy but it seems that something in how they measure and calculate both of these features may be similar.

Finally, we can see that acousticness may mean tracks are quiter.

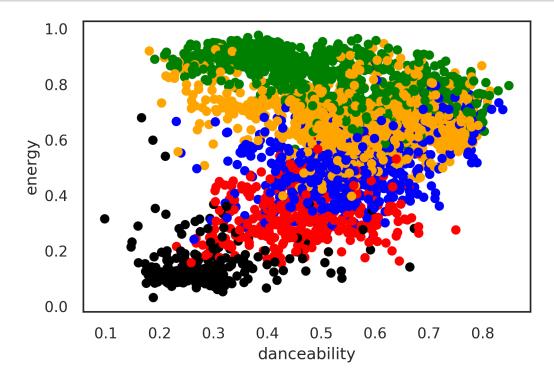
```
[26]: from sklearn.cluster import KMeans
      play_features.head()
[26]:
                     Unnamed: 0
                                 danceability
                                                                          mode
                                                 energy
                                                          key
                                                               loudness
      0 2JsqQdMbBC2hh7GjsEjKFg
                                                         4.38 -25.78303
                                     0.222149
                                               0.073075
                                                                          0.66
      1 2SoQc6bippmMyUTn1qditv
                                               0.645390 4.22
                                     0.525410
                                                               -9.24089
                                                                          0.72
      2 1KZMCWImik3vA17zVLJ3c3
                                     0.213119
                                               0.166708 5.39 -18.83644
                                                                          0.56
      3 1i9zTcQqWUBTgIuCgxDW3S
                                     0.439940
                                               0.348418
                                                         5.05 -12.84006
                                                                          0.71
      4 OTcXdt4sbITbwCwwFbKYyd
                                               0.518160 5.14 -10.01960
                                     0.789310
                                                                          0.53
                                    instrumentalness liveness
                                                                  valence
         speechiness acousticness
                                                                               tempo \
      0
            0.041801
                          0.922340
                                            0.899800 0.118957
                                                                 0.095634
                                                                            92.38971
      1
            0.083043
                                            0.066672
                                                      0.282273
                                                                 0.695130
                                                                           119.71814
                          0.468130
      2
            0.039690
                          0.966740
                                            0.210298
                                                      0.152561
                                                                 0.144698
                                                                           102.87562
      3
            0.055323
                          0.896280
                                            0.855150
                                                      0.141858
                                                                 0.396229
                                                                           107.26951
                                            0.111601 0.148528
      4
            0.133222
                          0.148952
                                                                0.736290
                                                                           118.49993
         time_signature
                                      genre
      0
                   3.60
                            backgroundmusic
      1
                   3.55
                         classicmoroccanpop
      2
                              orthodoxchant
                   3.69
      3
                   3.60
      4
                   4.00
                                     reggae
[27]: play_features.columns
[27]: Index(['Unnamed: 0', 'danceability', 'energy', 'key', 'loudness', 'mode',
             'speechiness', 'acousticness', 'instrumentalness', 'liveness',
             'valence', 'tempo', 'time signature', 'genre'],
            dtype='object')
[28]: X = play_features[['danceability', 'energy', 'key', 'loudness', 'mode',
             'speechiness', 'acousticness', 'instrumentalness']].to_numpy()
[29]: kmeans = KMeans(n_clusters=5, random_state=0).fit(X)
     sample = play_features.copy()
      sample['cluster'] = kmeans.labels_
```



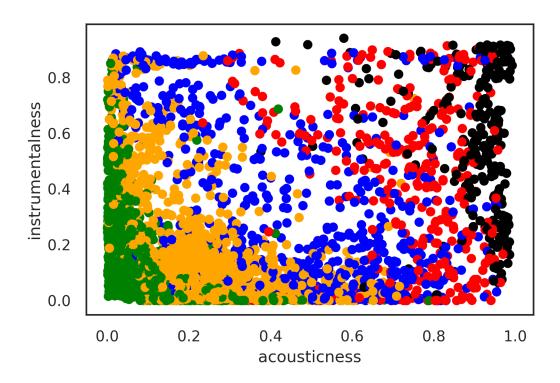
```
[32]: def plot_features(f1, f2, sample, color_map):
    colors = sample['cluster'].map(color_map)
    plt.scatter(x = sample[f1].values, y = sample[f2].values, color = colors)
    plt.xlabel(f1)
    plt.ylabel(f2)
    plt.show()
```

[33]: sample.columns

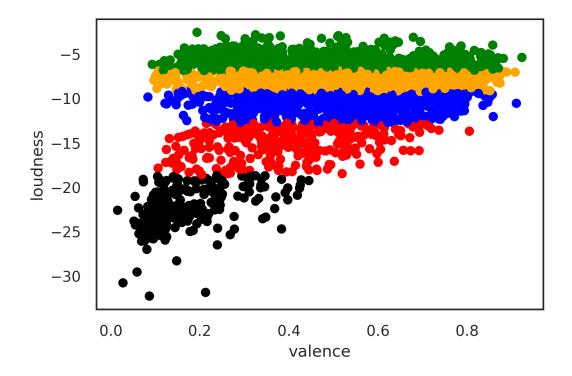
[34]: plot_features('danceability', 'energy', sample, color_map)



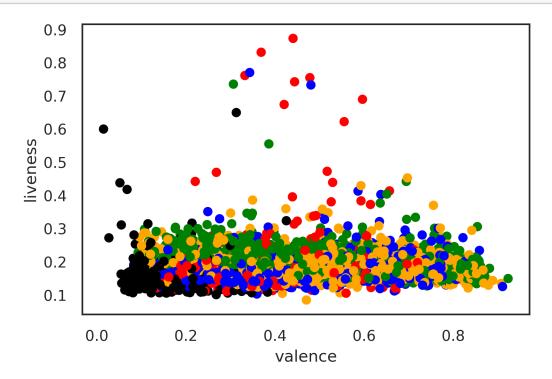
[35]: plot_features('acousticness', 'instrumentalness', sample, color_map)



[36]: plot_features('valence', 'loudness', sample, color_map)



[37]: plot_features('valence', 'liveness', sample, color_map)



```
[38]: # This import registers the 3D projection, but is otherwise unused.
from mpl_toolkits.mplot3d import Axes3D # noqa: F401 unused import
%matplotlib inline
import matplotlib.pyplot as plt

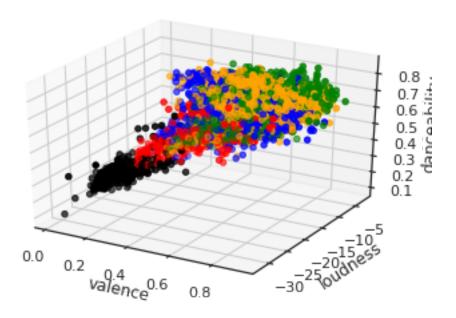
def plot_3d(f1, f2, f3, sample, colors):
    fig = plt.figure()
    ax = fig.add_subplot(111, projection='3d')

    xs = sample[f1]
    ys = sample[f2]
    zs = sample[f3]

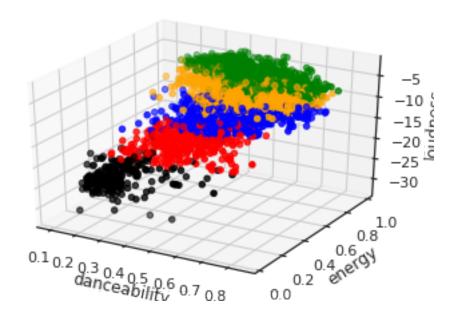
    ax.scatter(xs, ys, zs, color = colors)

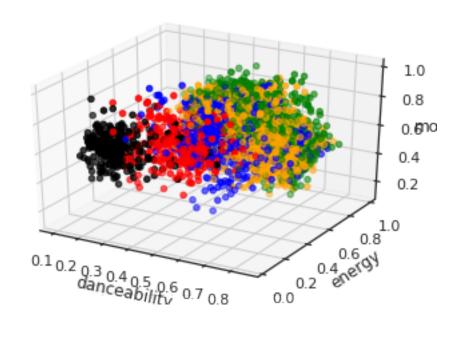
ax.set_xlabel(f1)
    ax.set_ylabel(f2)
    ax.set_zlabel(f3)
    plt.show()
```

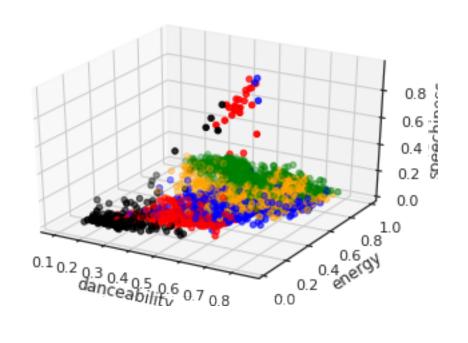
```
[39]: plot_3d('valence', 'loudness', 'danceability', sample, colors)
```

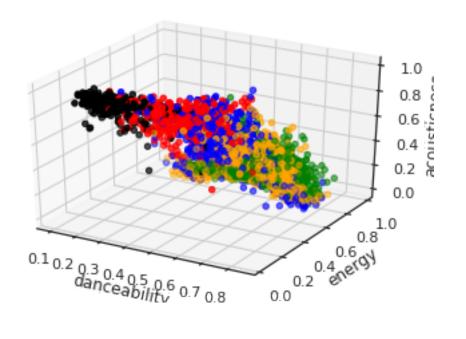


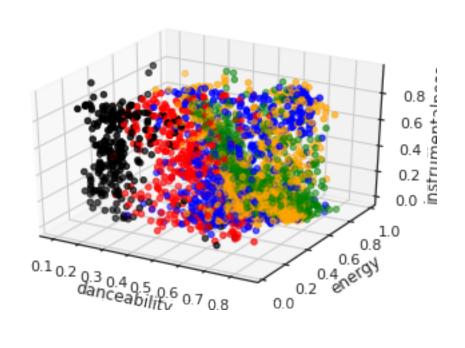
```
import itertools
i = 0
for f1,f2,f3 in itertools.combinations(features, 3):
    i += 1
    plot_3d(f1,f2,f3,sample,colors)
    if i == 10:
        break
```

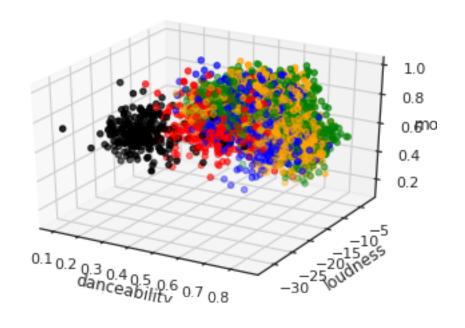


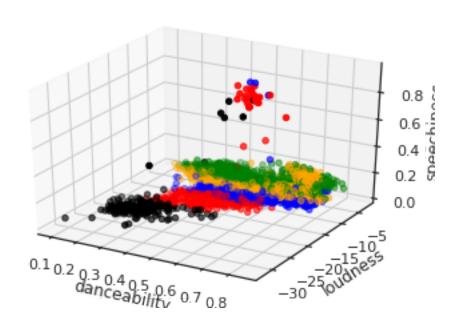


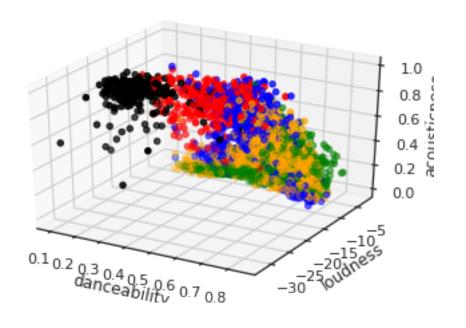


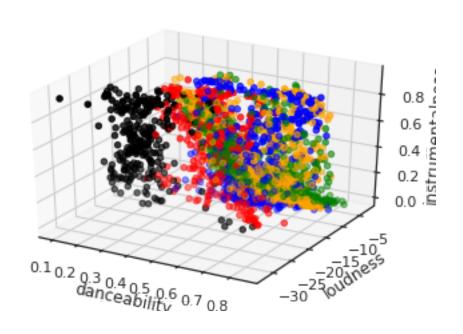


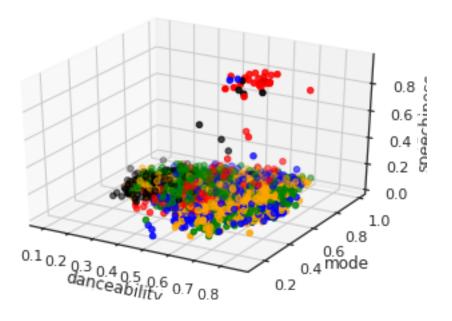












```
[46]: school_genres = pd.read_csv('school_genres.csv')
school_genres

[46]: Unnamed: 0 SCHOOL \
```

`	BOILDGE	omnamed. O		L-3
	Texas A & M University-College Station	0	0	
	The University of Texas at Austin	1	1	
	Ohio State University-Main Campus	2	2	
	University of Central Florida	3	3	
	Arizona State University-Tempe	4	4	
	···	•••		
	Northwest University	670	670	
	University of Puerto Rico-Bayamon	671	671	
	North Central University	672	672	
	Oakwood University	673	673	
	Southeastern Baptist Theological Seminary	674	674	
	GENRES \			
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	k', 'indiepop', 'pop', 'indiepoptim		1	
	diepoptimism', 'modernrock', 'indie	['pop', 'in	2	
	prap', 'rap', 'hiphop', 'electrohou		3	
	ectrohouse', 'pop', 'electronictrap	['edm', 'el	4	
	ship', 'ccm', 'worldworship', 'wors	['anthemwor	670	
	flow', 'reggaeton', 'tropical', 'la	['reggaeton	671	
	ship', 'ccm', 'worldworship', 'wors		672	
	'praise', 'gospelrb', 'indierb', 'a		673	

```
PLAYLIST LINK
           https://embed.spotify.com/?uri=spotify:playlis...
      0
      1
           https://embed.spotify.com/?uri=spotify:playlis...
           https://embed.spotify.com/?uri=spotify:playlis...
      2
      3
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      4
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      672 https://embed.spotify.com/?uri=spotify:playlis...
      673 https://embed.spotify.com/?uri=spotify:playlis...
      674 https://embed.spotify.com/?uri=spotify:playlis...
      [675 rows x 4 columns]
[42]: # Spring rank works by taking a ranking system and connecting nodes to all,
      →nodes that are below them
      G = nx.Graph()
      added nodes = set({})
      for idx, row in school genres.iterrows():
          ranking = ast.literal_eval(row['GENRES'])
          rank set = set(ranking)
          print(ranking)
          for new_top in ranking:
              print(new_top)
              if new_top not in added_nodes:
                  G.add_node(new_top)
              rank_set.remove(new_top)
              print(rank_set)
              edges = [(new_top, lower_node) for lower_node in rank_set]
              G.add_edges_from(edges)
              # Useful if you only need a small sample (for testing mainly)
          if idx == 10:
              break
     ['reddirt', 'outlawcountry', 'texascountry', 'anthemworship', 'indiecoustica',
     'rootsamericana', 'ccm', 'countryroad', 'moderncountryrock',
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     reddirt
```

674 ['ccm', 'worship', 'anthemworship', 'rootswors...

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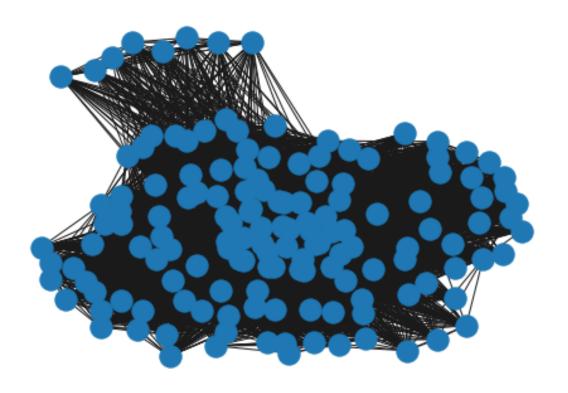
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'neosoul', 'indietronica', 'stompandholler', 'hippop',
'progressiveelectrohouse', 'urbancontemporary'}
neosoul
{'dmvrap', 'noisepop', 'oaklandindie', 'chillstep', 'phillyindie', 'chillwave',
'rb', 'canadianelectronic', 'lgbtqhiphop', 'newfrenchtouch', 'laindie',
'indietronica', 'stompandholler', 'hippop', 'progressiveelectrohouse',
'urbancontemporary'}
noisepop
{'dmvrap', 'oaklandindie', 'chillstep', 'phillyindie', 'chillwave', 'rb',
'canadianelectronic', 'lgbtqhiphop', 'newfrenchtouch', 'laindie',
'indietronica', 'stompandholler', 'hippop', 'progressiveelectrohouse',
'urbancontemporary'}
canadianelectronic
{'dmvrap', 'oaklandindie', 'chillstep', 'phillyindie', 'chillwave', 'rb',
'lgbtqhiphop', 'newfrenchtouch', 'laindie', 'indietronica', 'stompandholler',
'hippop', 'progressiveelectrohouse', 'urbancontemporary'}
chillstep
{'dmvrap', 'oaklandindie', 'phillyindie', 'chillwave', 'rb', 'lgbtqhiphop',
'newfrenchtouch', 'laindie', 'indietronica', 'stompandholler', 'hippop',
'progressiveelectrohouse', 'urbancontemporary'}
chillwave
{'dmvrap', 'oaklandindie', 'phillyindie', 'rb', 'lgbtqhiphop', 'newfrenchtouch',
'laindie', 'indietronica', 'stompandholler', 'hippop',
'progressiveelectrohouse', 'urbancontemporary'}
dmvrap
{'oaklandindie', 'phillyindie', 'rb', 'lgbtqhiphop', 'newfrenchtouch',
'laindie', 'indietronica', 'stompandholler', 'hippop',
'progressiveelectrohouse', 'urbancontemporary'}
hippop
{'oaklandindie', 'phillyindie', 'rb', 'lgbtqhiphop', 'newfrenchtouch',
'laindie', 'indietronica', 'stompandholler', 'progressiveelectrohouse',
'urbancontemporary'}
indietronica
{'oaklandindie', 'phillyindie', 'rb', 'lgbtqhiphop', 'newfrenchtouch',
'laindie', 'stompandholler', 'progressiveelectrohouse', 'urbancontemporary'}
laindie
```

```
{'oaklandindie', 'phillyindie', 'rb', 'lgbtqhiphop', 'newfrenchtouch',
'stompandholler', 'progressiveelectrohouse', 'urbancontemporary'}
lgbtqhiphop
{'oaklandindie', 'phillyindie', 'rb', 'newfrenchtouch', 'stompandholler',
'progressiveelectrohouse', 'urbancontemporary'}
newfrenchtouch
{'oaklandindie', 'phillyindie', 'rb', 'stompandholler',
'progressiveelectrohouse', 'urbancontemporary'}
oaklandindie
{'phillyindie', 'rb', 'stompandholler', 'progressiveelectrohouse',
'urbancontemporary'}
phillyindie
{'rb', 'stompandholler', 'progressiveelectrohouse', 'urbancontemporary'}
progressiveelectrohouse
{'rb', 'stompandholler', 'urbancontemporary'}
rb
{'stompandholler', 'urbancontemporary'}
stompandholler
{'urbancontemporary'}
urbancontemporary
set()
```

[43]: nx.draw(G)



```
[47]: school_genres.head()
      def top_n_genres(row):
          ranking = ast.literal_eval(row)
          top = ranking[:5]
          return [str(g) for g in top]
      school_genres['TOP_5'] = school_genres['GENRES'].map(top_n_genres)
[48]: # play_features = play_features.set_index('qenre')
      school = school_genres.iloc[0]
      school
[48]: Unnamed: 0
      SCHOOL
                                  Texas A & M University-College Station
      GENRES
                       ['reddirt', 'outlawcountry', 'texascountry', '...
                       https://embed.spotify.com/?uri=spotify:playlis...
      PLAYLIST_LINK
                       [reddirt, outlawcountry, texascountry, anthemw...
      TOP_5
      Name: 0, dtype: object
[49]: import plotly.graph_objects as go
      features = ['danceability', 'energy', 'loudness', 'mode', 'speechiness', _
       →'acousticness', 'instrumentalness']
      fig = go.Figure()
      top_genres = school['TOP_5']
      print(top_genres)
      for genre in top_genres:
          g_feat = play_features[features].loc[genre]
          print(g_feat)
          fig.add_trace(go.Scatterpolar(
                r=g_feat,
                theta=features,
                fill='toself',
                name='Product A'
          ))
      # fig.update layout(
         polar=dict(
            radialaxis=dict(
             visible=True,
      #
             range=[0, 5]
            )),
          showlegend=False
      # )
```

```
fig.show()
['reddirt', 'outlawcountry', 'texascountry', 'anthemworship', 'indiecoustica']
       KeyError
                                             Traceback (most recent call last)
       ~/anaconda3/lib/python3.7/site-packages/pandas/core/indexes/base.py in_
2896
                       try:
   -> 2897
                          return self._engine.get_loc(key)
      2898
                       except KeyError:
       pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_loc()
       pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_loc()
       pandas/_libs/index_class_helper.pxi in pandas._libs.index.Int64Engine.
→_check_type()
       KeyError: 'reddirt'
   During handling of the above exception, another exception occurred:
       KeyError
                                             Traceback (most recent call last)
       <ipython-input-49-33abb39578c1> in <module>
         8 print(top_genres)
         9 for genre in top_genres:
               g_feat = play_features[features].loc[genre]
   ---> 10
        11
               print(g_feat)
               fig.add_trace(go.Scatterpolar(
        12
       ~/anaconda3/lib/python3.7/site-packages/pandas/core/indexing.py in_
→__getitem__(self, key)
      1422
                       maybe_callable = com.apply_if_callable(key, self.obj)
      1423
                       return self._getitem_axis(maybe_callable, axis=axis)
   -> 1424
      1425
```

```
def _is_scalar_access(self, key: Tuple):
       ~/anaconda3/lib/python3.7/site-packages/pandas/core/indexing.py in_
→_getitem_axis(self, key, axis)
                   # fall thru to straight lookup
      1848
                   self._validate_key(key, axis)
      1849
  -> 1850
                   return self._get_label(key, axis=axis)
      1851
      1852
       ~/anaconda3/lib/python3.7/site-packages/pandas/core/indexing.py in_
→_get_label(self, label, axis)
       158
                       raise IndexingError("no slices here, handle elsewhere")
       159
   --> 160
                   return self.obj._xs(label, axis=axis)
       161
       162
               def _get_loc(self, key: int, axis: int):
       ~/anaconda3/lib/python3.7/site-packages/pandas/core/generic.py in_
→xs(self, key, axis, level, drop_level)
                       loc, new_index = self.index.get_loc_level(key,__
→drop level=drop level)
      3736
                   else:
  -> 3737
                       loc = self.index.get_loc(key)
      3738
      3739
                       if isinstance(loc, np.ndarray):
       ~/anaconda3/lib/python3.7/site-packages/pandas/core/indexes/base.py in_

→get_loc(self, key, method, tolerance)
      2897
                           return self._engine.get_loc(key)
      2898
                       except KeyError:
   -> 2899
                           return self._engine.get_loc(self.
→_maybe_cast_indexer(key))
                   indexer = self.get_indexer([key], method=method,__
→tolerance=tolerance)
      2901
                   if indexer.ndim > 1 or indexer.size > 1:
       pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_loc()
       pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_loc()
```

1426

```
pandas/_libs/index_class_helper.pxi in pandas._libs.index.Int64Engine. 
  \begin{tabular}{l} \begin{tabula
```

KeyError: 'reddirt'

6 Work still to be done

- GMM for playlist feature data
- PCA and SVD, remove some features from playlist features
- SpringRank Hamiltonian on school genres to find most popular genres across colleges in US
- compare clustering to community detection algorithms
- · lots of analysis
- possibly take subsets of most commonly known/popular genres to get more intuitive understanding of what the algorithms are doing

7 Preliminary Analysis

We loaded the data from the website *everynoise* and we have analyzed the how using the degree as a support will give us various subsets of the network at hand. This is good for getting a look at the degree distribution of the network. In addition to this we also gathered the intrinsic song / playlist data via the Spotify API, and calculated average values for each subgenre for all 12 features. Then we constructed histograms for the distribution of frequencies for various values of the features. Next we found used the correlation map to find features that are highly correlated with each other. Afterwords we plotted K-Means with 5 clusters (arbitrary decision) against several combinations of 2 various features. Next we plotted point clouds with respect to the three axes, so we have $\binom{12}{3}$ plots (Obviously we are not going to use all of these). We also gathered data for the top genres across 675 universities in the United States, and attempted to incorporate spring rank on them.

Next steps include using Gaussian Mixture Models on playlist data to also find potential communities. In addition to this PCA or some other form of dimensionality reduction (SVD) will be useful to compress all of these subgenres into their most significant directions in order to more easily visualize the latent structure that is there. For the top genres across the US, we need to finish up Spring Rank Hamiltonian in order to find the top 100 genres across U.S. Schools. With these top 100 genres we can then run K-Means (or GMM) to find communities, and also construct graphs where the only nodes are those top 100 genres.

[]: