In [3]:

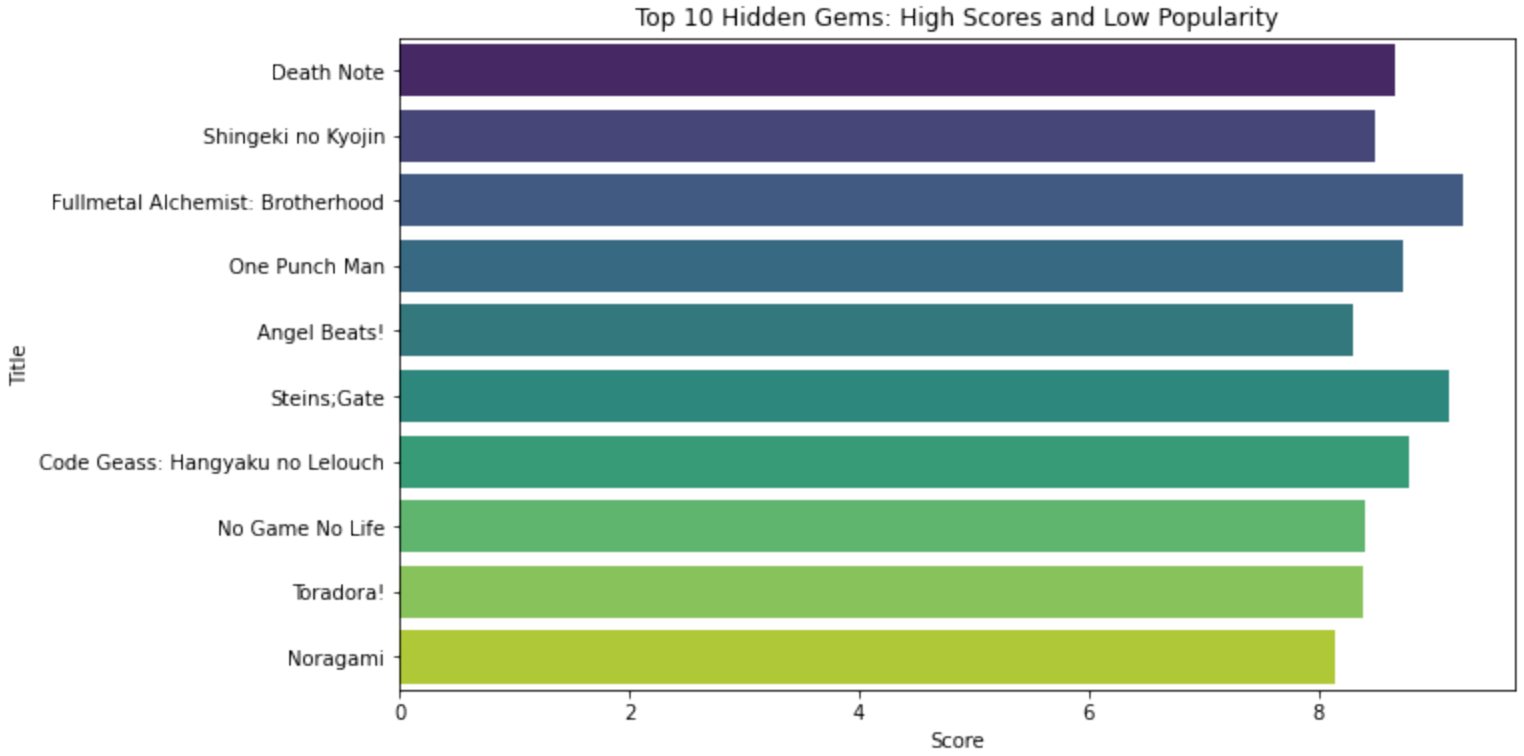
```python
import pandas as pd

# Load the data
df = pd.read_excel('animelist2clean.xlsx')

# Filter for high scores
high_score_df = df[df['score'] > 8]

# Sort by popularity (ascending)
hidden_gems_df = high_score_df.sort_values(by='popularity')

# Display the top hidden gems
print(hidden_gems_df[['title', 'score', 'popularity']].head(10))
```

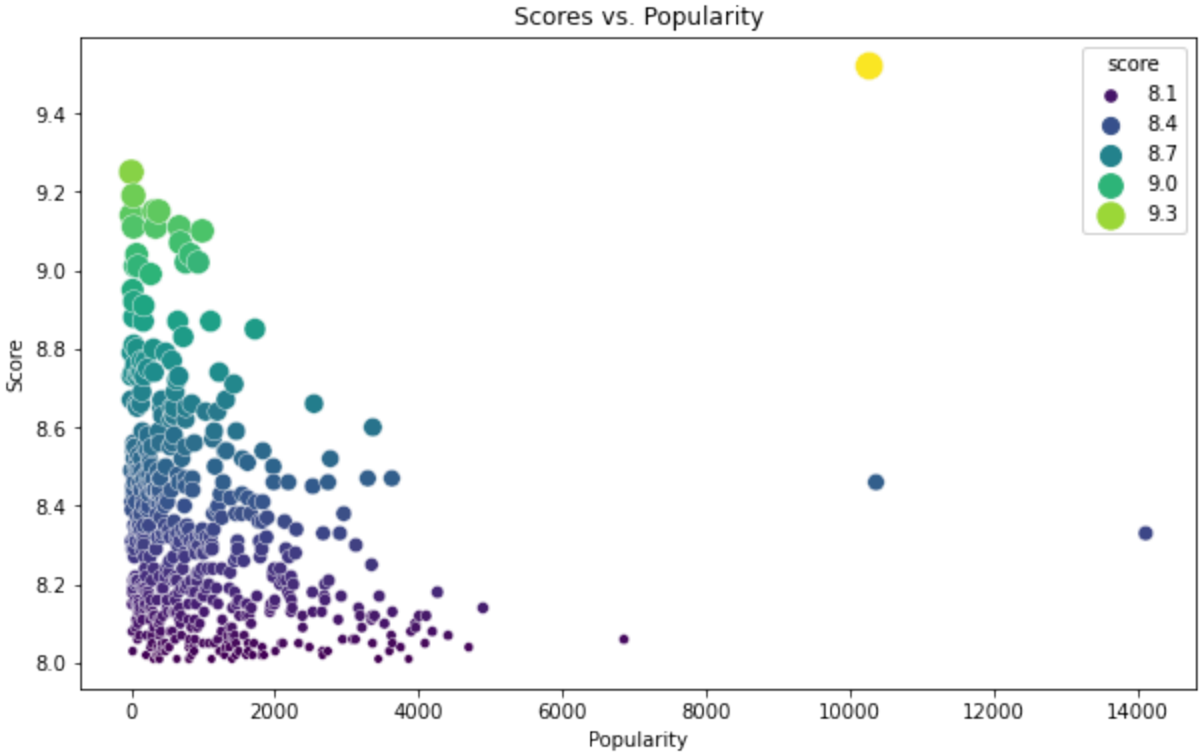
```
                              title  score  popularity
3802                     Death Note   8.67           1
3897                Shingeki no Kyojin   8.49           2
1261  Fullmetal Alchemist: Brotherhood   9.25           4
4215                     One Punch Man   8.73           5
6523                      Angel Beats!   8.31           7
1475                       Steins;Gate   9.14           8
6579   Code Geass: Hangyaku no Lelouch   8.79           9
3108                   No Game No Life   8.41          11
19                           Toradora!   8.39          13
3022                         Noragami   8.15          15
```

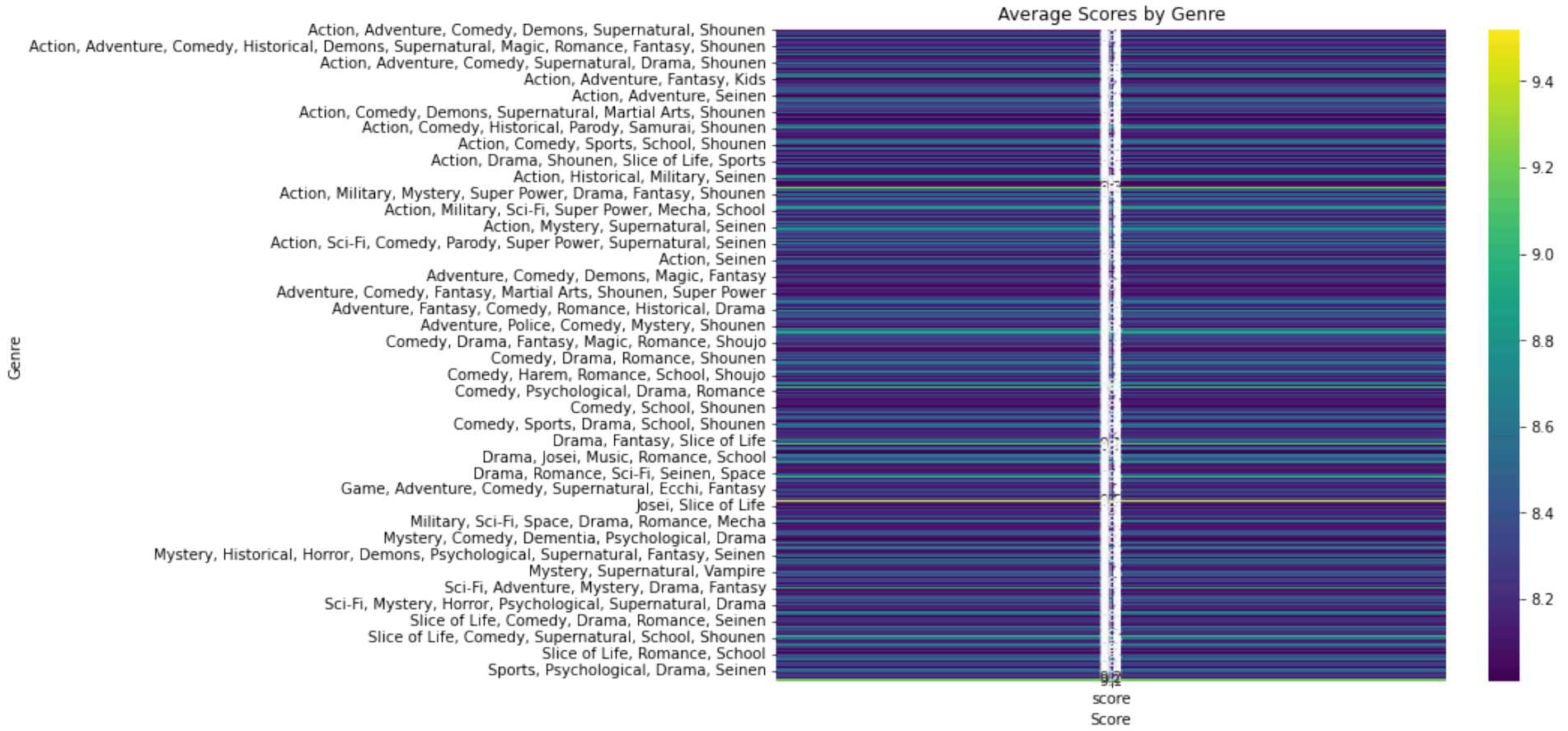
In [7]:

```python
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
#import plotly.express as px

df = pd.read_excel('animelist2clean.xlsx')

high_score_df = df[df['score'] > 8]
hidden_gems_df = high_score_df.sort_values(by='popularity')

plt.figure(figsize=(10, 6))
sns.barplot(x='score', y='title', data=hidden_gems_df.head(10), palette='viridis')
plt.title('Top 10 Hidden Gems: High Scores and Low Popularity')
plt.xlabel('Score')
plt.ylabel('Title')
plt.show()

plt.figure(figsize=(10, 6))
sns.scatterplot(x='popularity', y='score', data=hidden_gems_df, hue='score', palette='viridis', size='score', sizes=(20, 200))
plt.title('Scores vs. Popularity')
plt.xlabel('Popularity')
```

```
plt.ylabel('Score')
plt.show()

genre_scores = hidden_gems_df.pivot_table(index='genre', values='score', aggfunc='mean')
plt.figure(figsize=(10, 8))
sns.heatmap(genre_scores, annot=True, cmap='viridis')
plt.title('Average Scores by Genre')
plt.xlabel('Score')
plt.ylabel('Genre')
plt.show()

fig = px.scatter(hidden_gems_df, x='popularity', y='score', size='score', color='score', hover_name='title', title='Scores vs. Popu
fig.show()
```




Scores vs. Popularity
score
8.1
8.4
8.7
9.0
9.3
Score
9.4
9.2
9.0
8.8
8.6
8.4
8.2
8.0
0
2000
4000
6000
8000
10000
12000
14000
Popularity




```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
~\AppData\Local\Temp/ipykernel_8028/1933082552.py in <module>
     31 plt.show()
     32
---> 33 fig = px.scatter(hidden_gems_df, x='popularity', y='score', size='score', color='score', hover_name='title', title='Scores v
s. Popularity')
     34 fig.show()

NameError: name 'px' is not defined
```

In [ ]: