

```
In [1]: import pandas as pd  
import seaborn as sns
```

```
In [2]: data = pd.read_csv(r"C:\Users\Praveen T\Downloads\Twitter_cleaned.csv")
```

```
In [3]: data
```

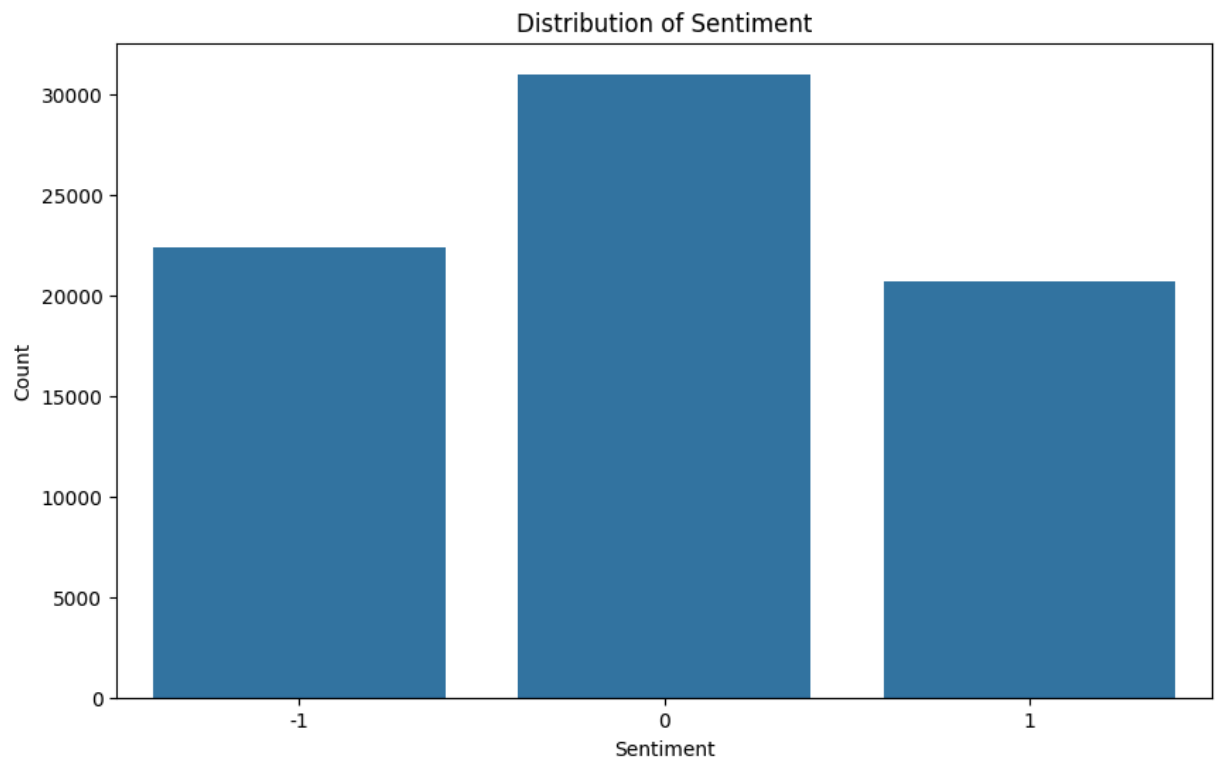
Out[3]:

	Unnamed: 0	Sentiment	Tweet_word_count	Tweet_char_count	Tweet_clean	ApexLegends	Assa
0	0	1	11	43	im getting borderland murder	0	
1	1	1	12	40	coming border kill	0	
2	2	1	10	41	im getting borderland kill	0	
3	3	1	10	42	im coming borderland murder	0	
4	4	1	12	46	im getting borderland murder	0	
...	...	...	...	...	...	...	...
73991	74677	1	26	103	realized window partition mac like year behind...	0	
73992	74678	1	23	95	realized mac window partition year behind nvid...	0	
73993	74679	1	25	101	realized window partition mac year behind nvid...	0	
73994	74680	1	32	128	realized window partition mac like year behind...	0	
73995	74681	1	25	95	like window partition mac like year behind dri...	0	

73996 rows × 36 columns

In [13]: `# Analyze the distribution of sentiment`In [14]: `import matplotlib.pyplot as plt  
import seaborn as sns  
plt.figure(figsize=(10, 6))`

```
sns.countplot(data=data, x='Sentiment')
plt.title('Distribution of Sentiment')
plt.xlabel('Sentiment')
plt.ylabel('Count')
plt.show()
```



```
In [15]: # Calculate the frequency of each topic
```

```
In [16]: topic_columns = [col for col in data.columns if col not in ['Unnamed: 0', 'Sentiment']]
topic_frequencies = data[topic_columns].sum().sort_values(ascending=False)

# Display the top topics
print(topic_frequencies)
```

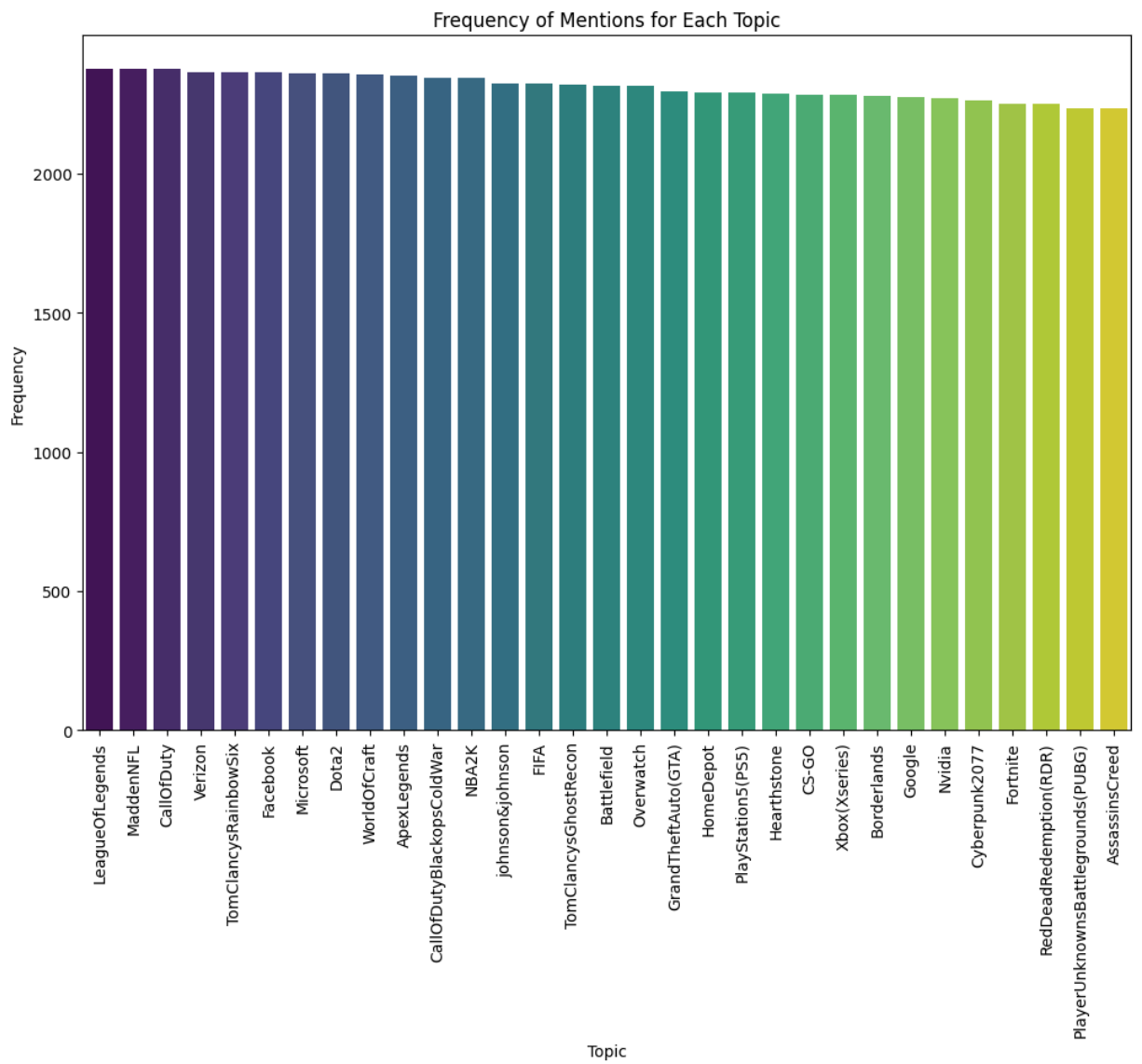
LeagueOfLegends	2377
MaddenNFL	2377
CallOfDuty	2376
Verizon	2365
TomClancysRainbowSix	2364
Facebook	2362
Microsoft	2361
Dota2	2359
WorldOfCraft	2357
ApexLegends	2353
CallOfDutyBlackopsColdWar	2343
NBA2K	2343
johnson&johnson	2324
FIFA	2324
TomClancysGhostRecon	2321
Battlefield	2316
Overwatch	2316
GrandTheftAuto(GTA)	2293
HomeDepot	2292
PlayStation5(PS5)	2291
Hearthstone	2286
CS-GO	2284
Xbox(Xseries)	2283
Borderlands	2280
Google	2274
Nvidia	2271
Cyberpunk2077	2262
Fortnite	2249
RedDeadRedemption(RDR)	2249
PlayerUnknownsBattlegrounds(PUBG)	2234
AssassinsCreed	2234
dtype: int64	

```
In [7]: # Plot the frequency of mentions for each topic
plt.figure(figsize=(12, 8))
sns.barplot(x=topic_frequencies.index, y=topic_frequencies.values, palette='viridis')
plt.title('Frequency of Mentions for Each Topic')
plt.xlabel('Topic')
plt.ylabel('Frequency')
plt.xticks(rotation=90)
plt.show()
```

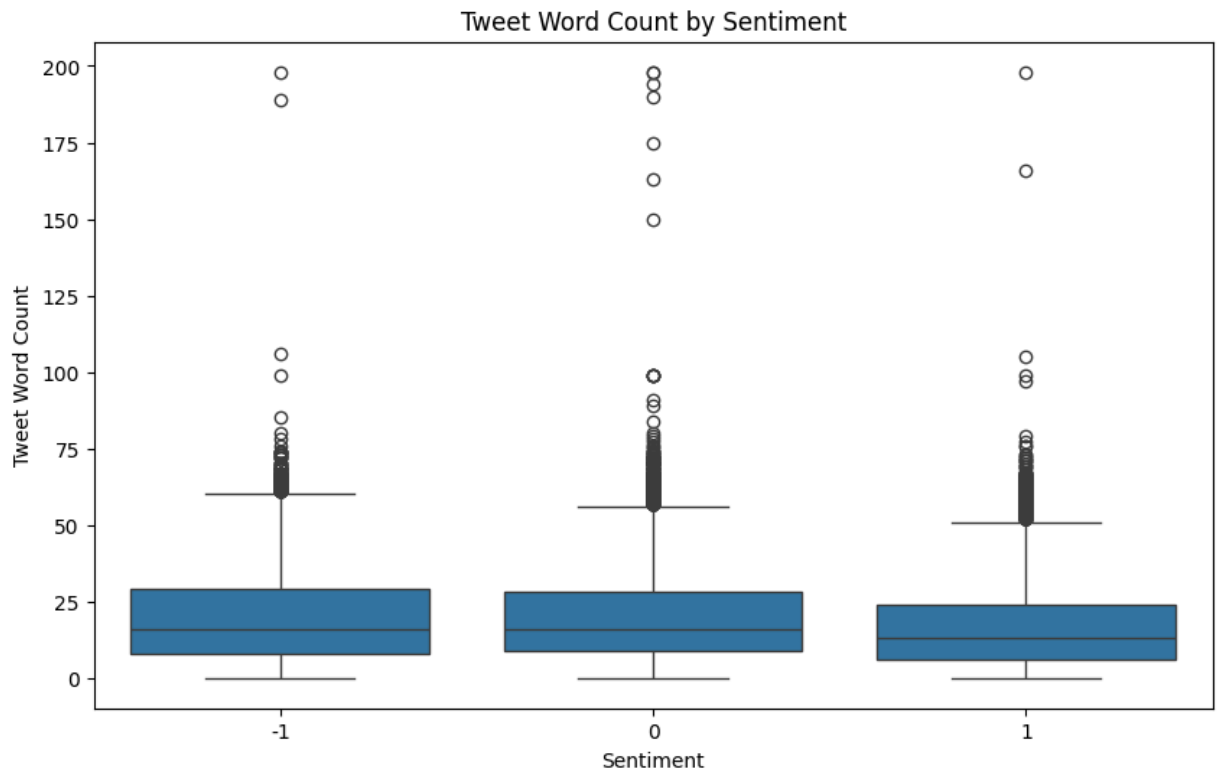
C:\Users\Praveen T\AppData\Local\Temp\ipykernel\_15984\1691019718.py:3: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

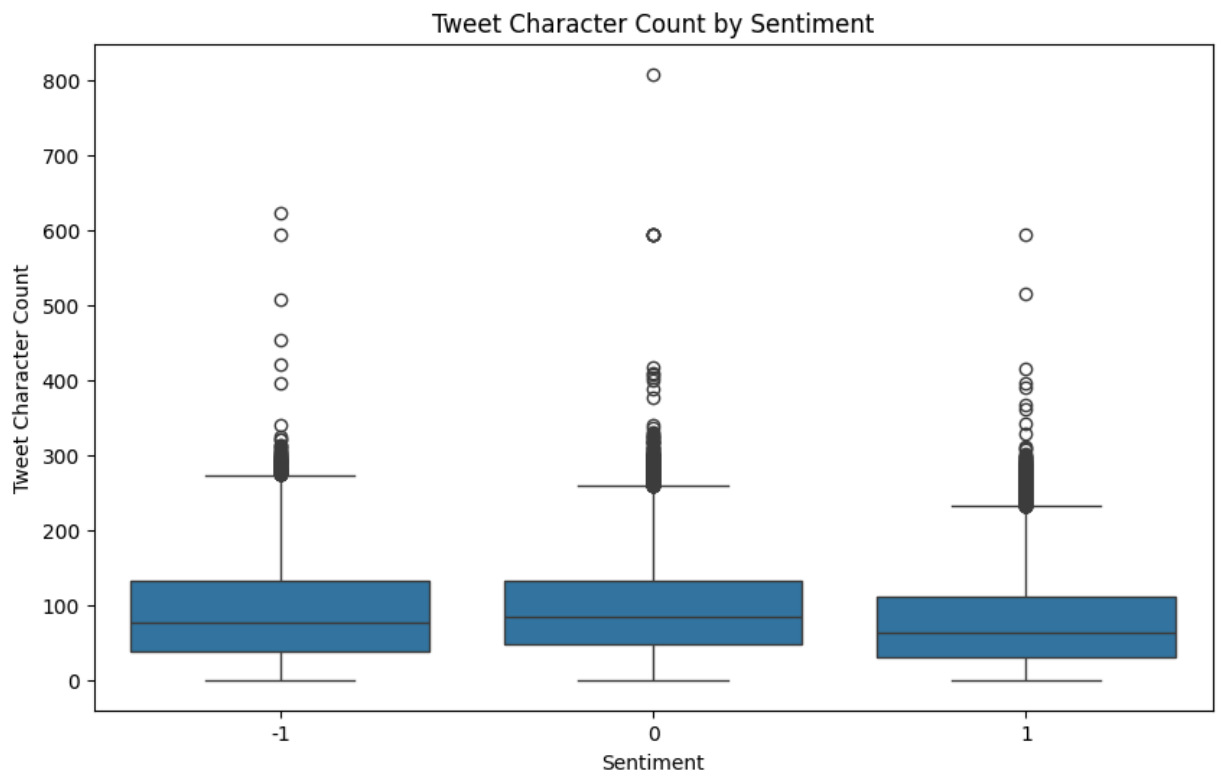
```
sns.barplot(x=topic_frequencies.index, y=topic_frequencies.values, palette='viridis')
```



```
In [10]: # Sentiment vs. Tweet word count
plt.figure(figsize=(10, 6))
sns.boxplot(data=data, x='Sentiment', y='Tweet_word_count')
plt.title('Tweet Word Count by Sentiment')
plt.xlabel('Sentiment')
plt.ylabel('Tweet Word Count')
plt.show()
```



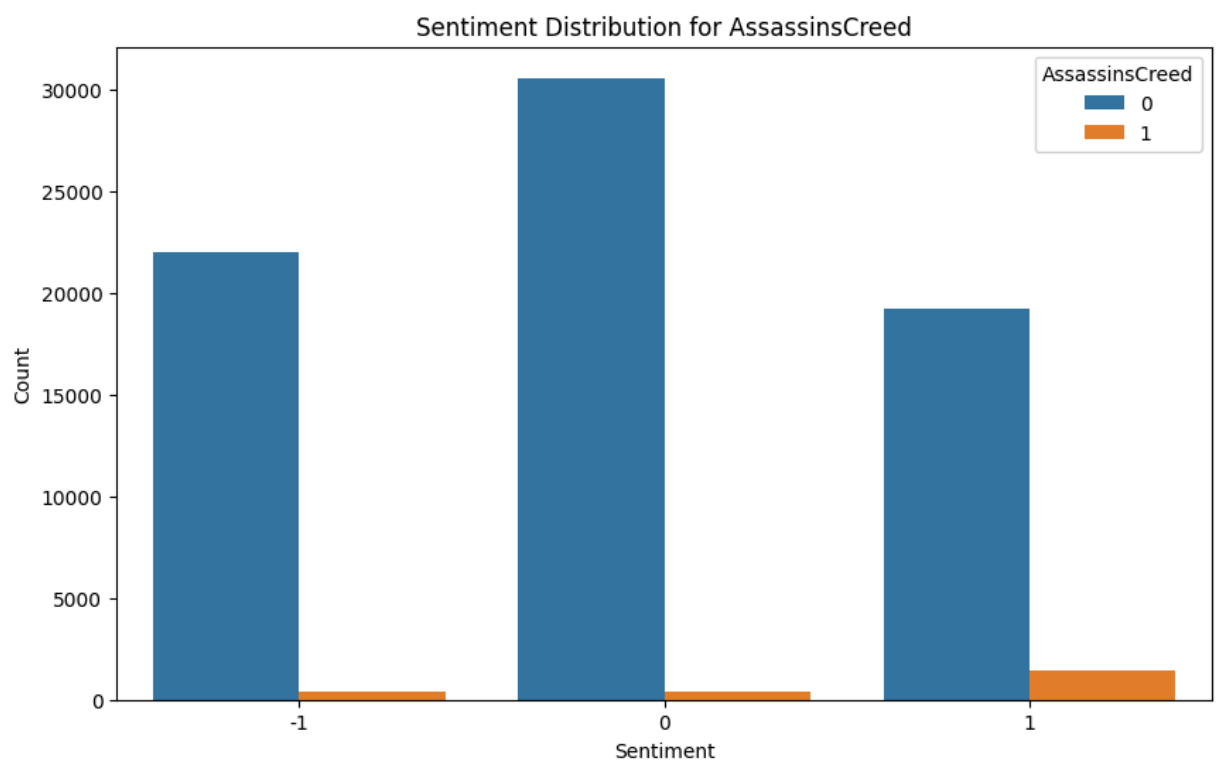
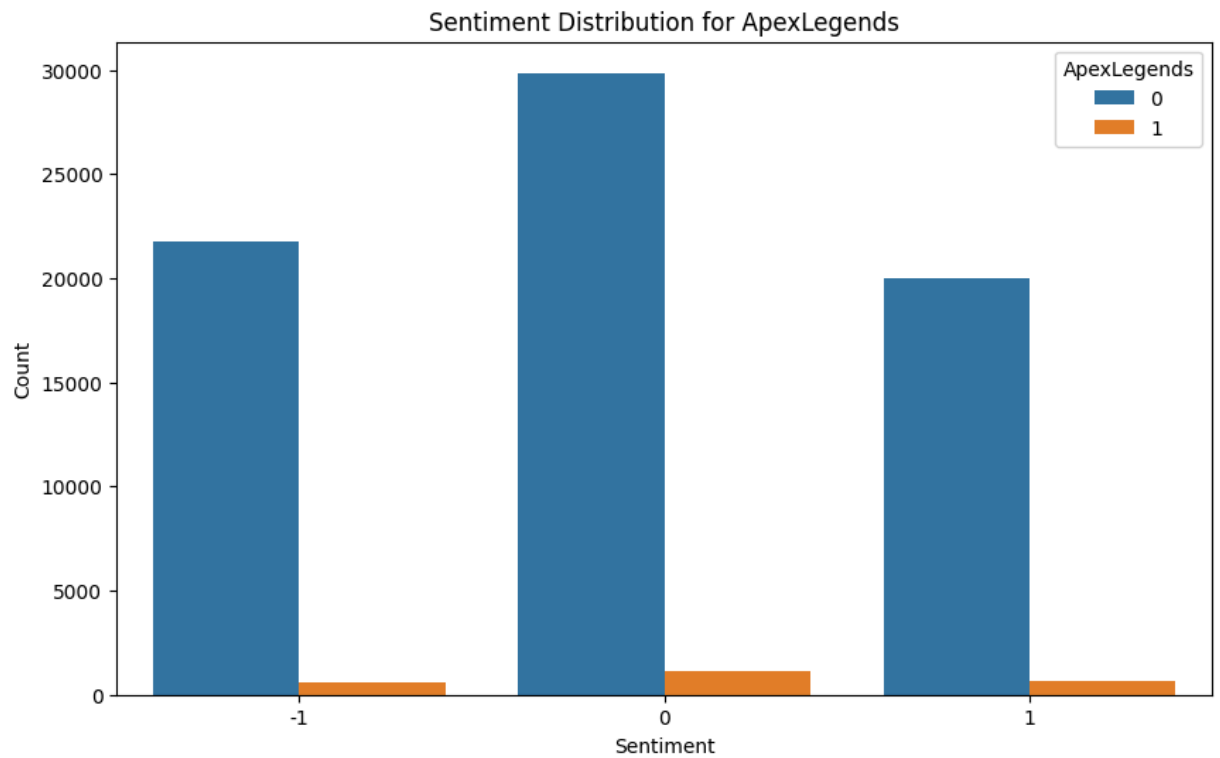
```
In [11]: # Sentiment vs. Tweet character count
plt.figure(figsize=(10, 6))
sns.boxplot(data=data, x='Sentiment', y='Tweet_char_count')
plt.title('Tweet Character Count by Sentiment')
plt.xlabel('Sentiment')
plt.ylabel('Tweet Character Count')
plt.show()
```



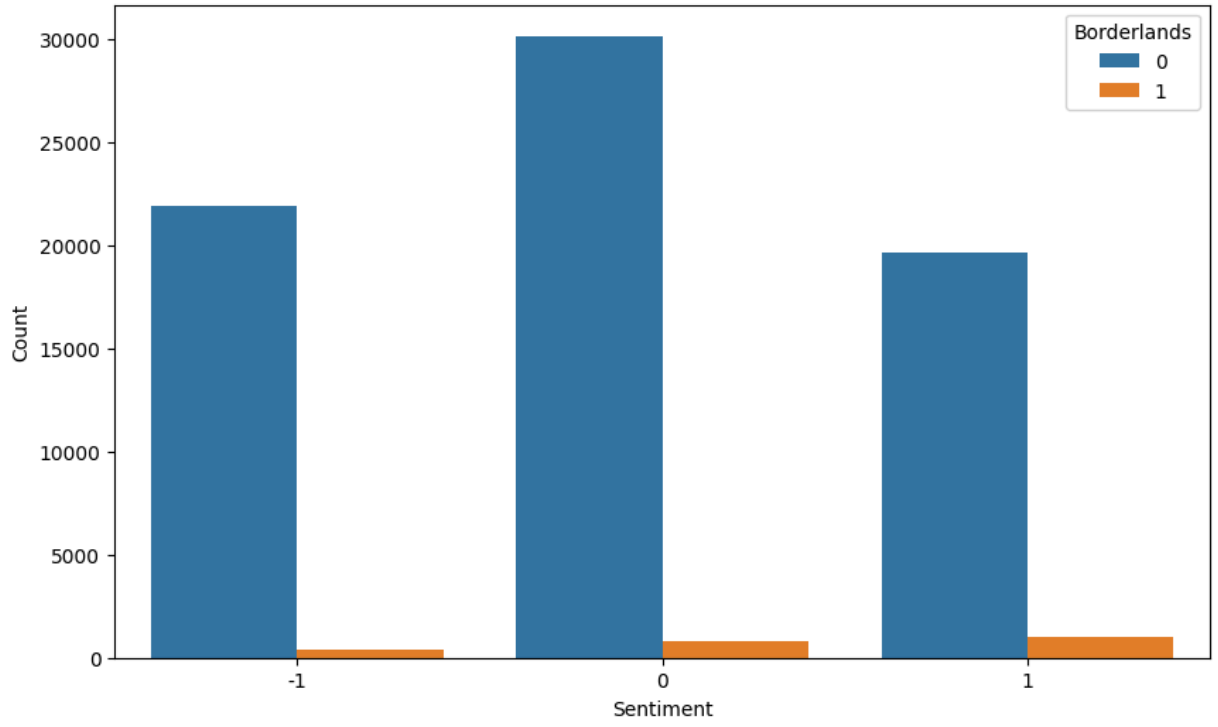
```
In [12]: # Example: Sentiment distribution for different topics/brands
topics = ['ApexLegends', 'AssassinsCreed', 'Borderlands', 'CS-GO', 'Overwatch', 'Play

for topic in topics:
    plt.figure(figsize=(10, 6))
```

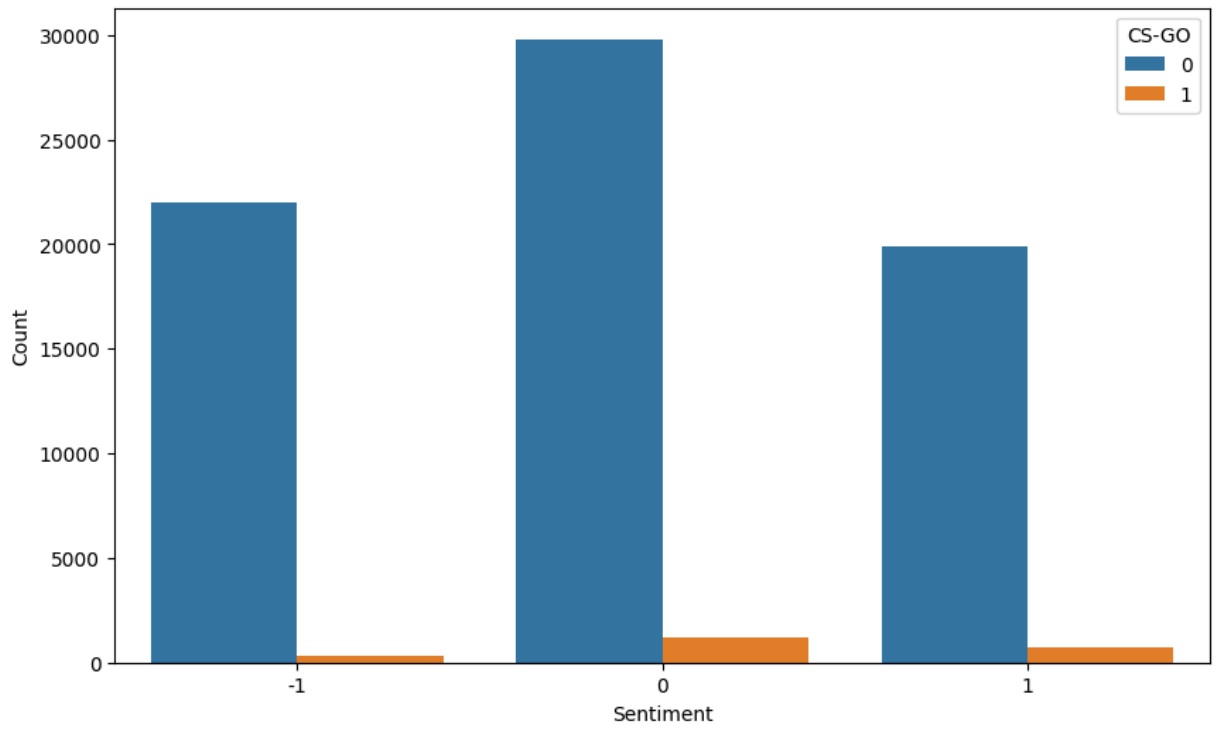
```
sns.countplot(data=data, x='Sentiment', hue=topic)
plt.title(f'Sentiment Distribution for {topic}')
plt.xlabel('Sentiment')
plt.ylabel('Count')
plt.legend(title=topic)
plt.show()
```



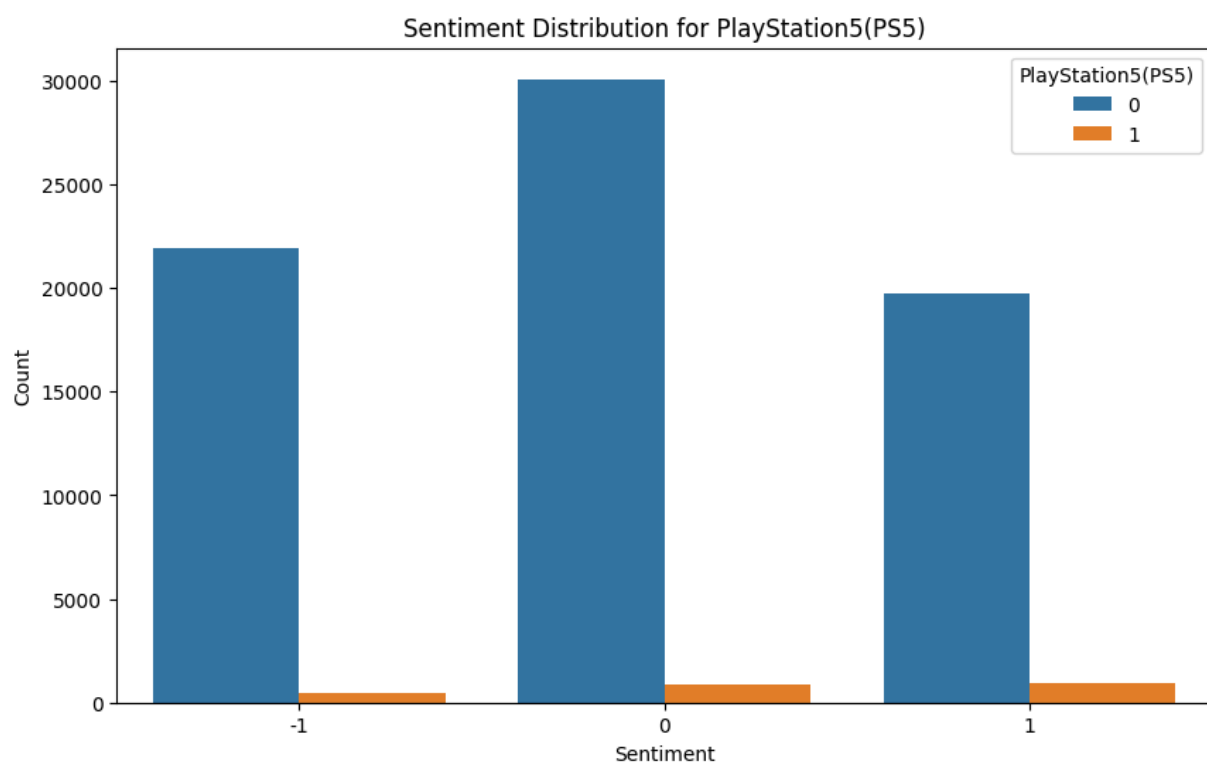
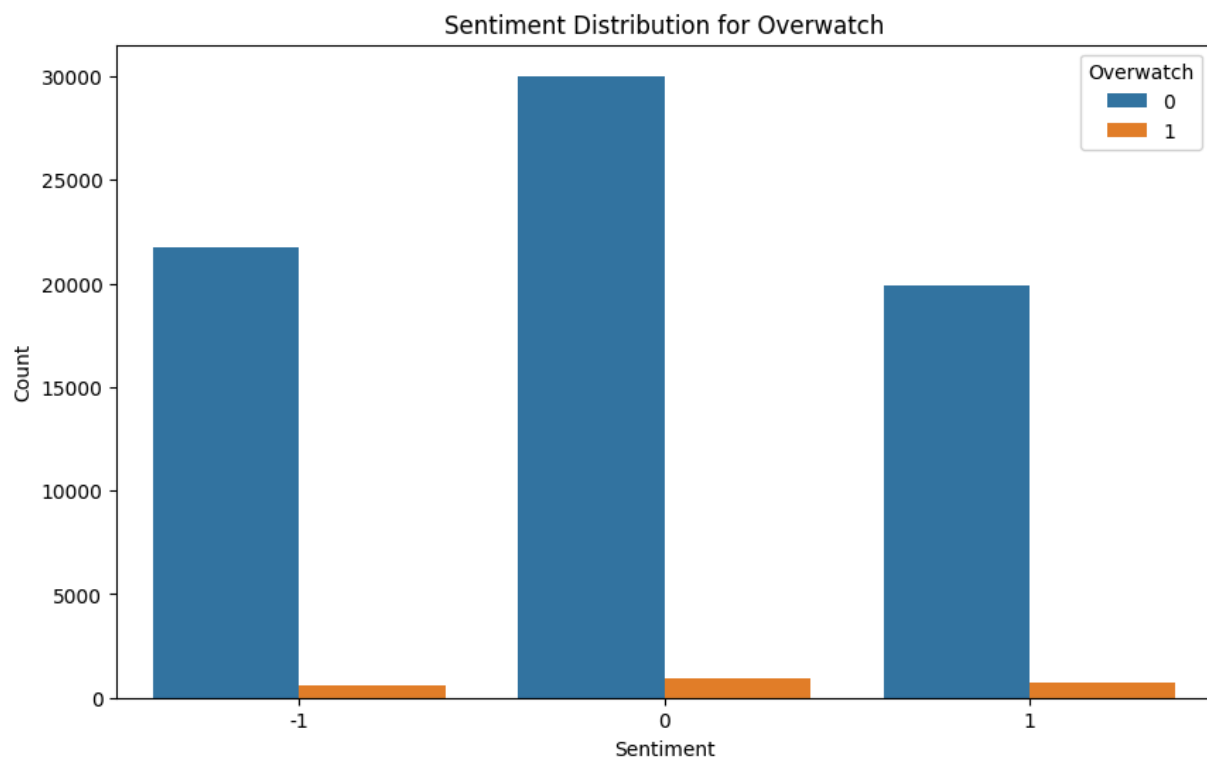
Sentiment Distribution for Borderlands

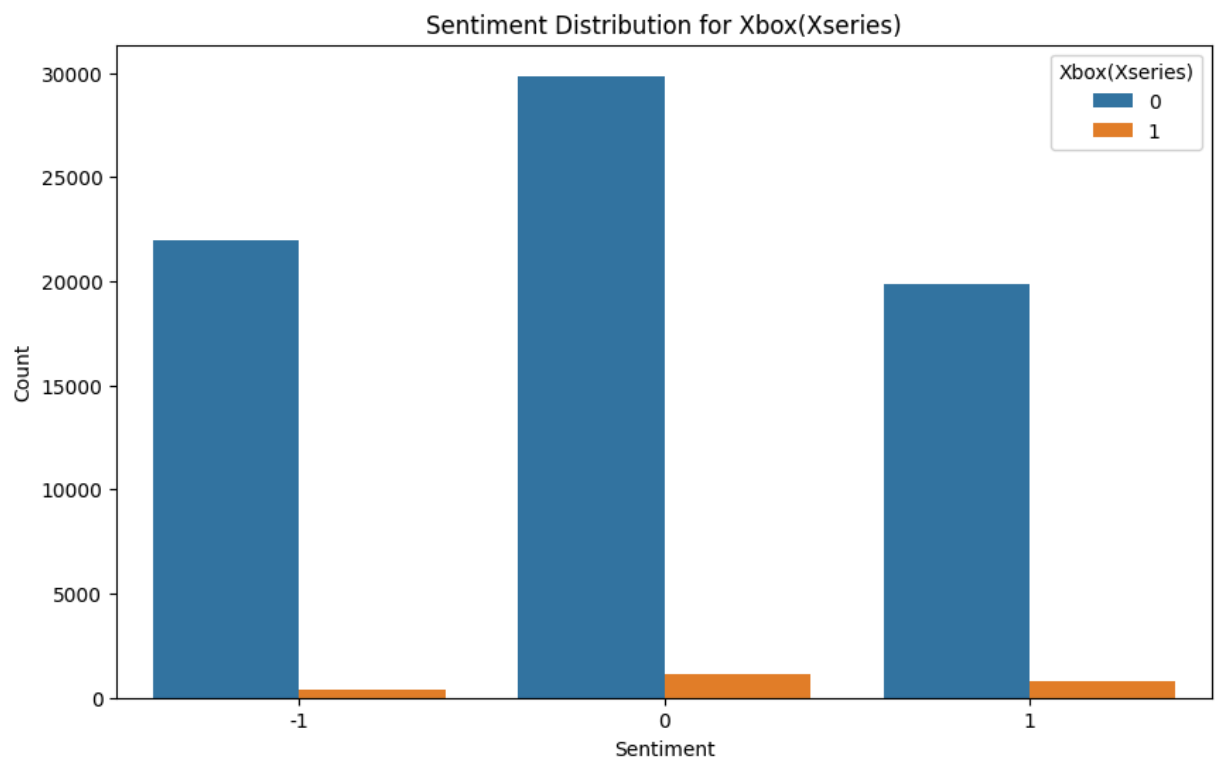


Sentiment Distribution for CS-GO









In [ ]: