

# Viewership Analysis of Suits

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2024-04-29

```
```{python}
import pandas as pd
import matplotlib.pyplot as plt
from pandas.plotting import register_matplotlib_converters
register_matplotlib_converters()

got_data = [
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{"Season": 5, "Episode": 5, "Title": "Kill the Boy", "Directed_by": "Jeremy Podeswa", "Written_by": "Jeremy Podeswa"},
{"Season": 5, "Episode": 6, "Title": "Unbowed, Unbent, Unbroken", "Directed_by": "Jeremy Podeswa", "Written_by": "Jeremy Podeswa"},
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{"Season": 7, "Episode": 5, "Title": "Eastwatch", "Directed_by": "Matt Shakman", "Written_by": "George R.R. Martin",
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]

```

```

# Now we convert the list of dictionaries into a DataFrame
got_df = pd.DataFrame(got_data)

# Let's also make sure that the 'Original_air_date' column is a datetime type.
got_df['Original_air_date'] = pd.to_datetime(got_df['Original_air_date'])

# Now 'got_df' is available as a variable containing all the episodes' data.
got_df.info() # Show the DataFrame info to confirm its structure
got_df.head() # Show the first few rows as a quick check
got_df.describe()[['US_viewers_millions']]
'''

```

```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 73 entries, 0 to 72
Data columns (total 7 columns):
#   Column                Non-Null Count  Dtype
---  -
0   Season                73 non-null    int64
1   Episode               73 non-null    int64
2   Title                 73 non-null    object
3   Directed_by           73 non-null    object
4   Written_by            73 non-null    object
5   Original_air_date      73 non-null    datetime64[ns]
6   US_viewers_millions    73 non-null    float64
dtypes: datetime64[ns](1), float64(1), int64(2), object(3)
memory usage: 4.1+ KB

```

	US_viewers_millions
count	73.000000
mean	6.447808
min	2.200000
25%	3.900000
50%	6.640000
75%	7.820000
max	13.610000
std	2.827372

## Game of Thrones - A Viewership Analysis Report

*Game of Thrones* is a fantasy drama television series created by David Benioff and D. B. Weiss for HBO. It is an adaptation of *A Song of Ice and Fire*, a series of fantasy novels by George R. R. Martin. Below is the viewership analysis spanning all eight seasons.

### Summary of Viewership Statistics

*Game of Thrones* has garnered significant viewership over the years, with ratings consistently increasing as the series progressed.

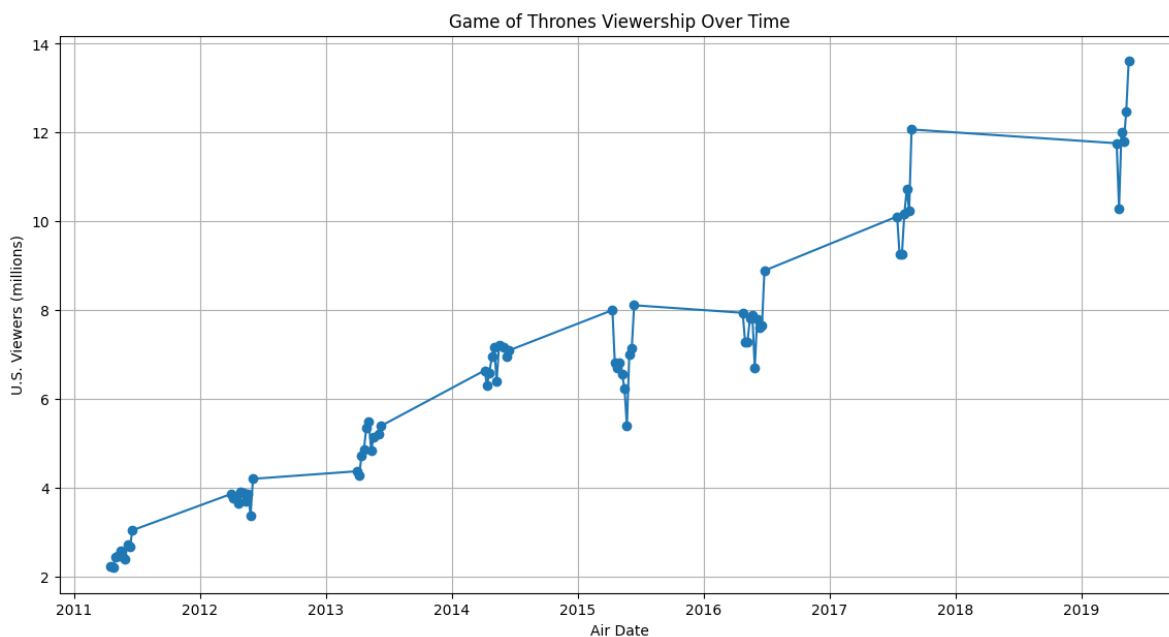
```
```{python}
got_df.describe()[['US_viewers_millions']]
```
```

|       | US_viewers_millions |
|-------|---------------------|
| count | 73.000000           |
| mean  | 6.447808            |
| min   | 2.200000            |
| 25%   | 3.900000            |
| 50%   | 6.640000            |
| 75%   | 7.820000            |
| max   | 13.610000           |
| std   | 2.827372            |

## Viewership Trend Over Time

The graph below shows the trend of viewership across all seasons of *Game of Thrones*.

```
```python
plt.figure(figsize=(14, 7))
plt.plot(got_df['Original_air_date'], got_df['US_viewers_millions'], marker='o')
plt.title('Game of Thrones Viewership Over Time')
plt.xlabel('Air Date')
plt.ylabel('U.S. Viewers (millions)')
plt.grid(True)
plt.show()
```
```

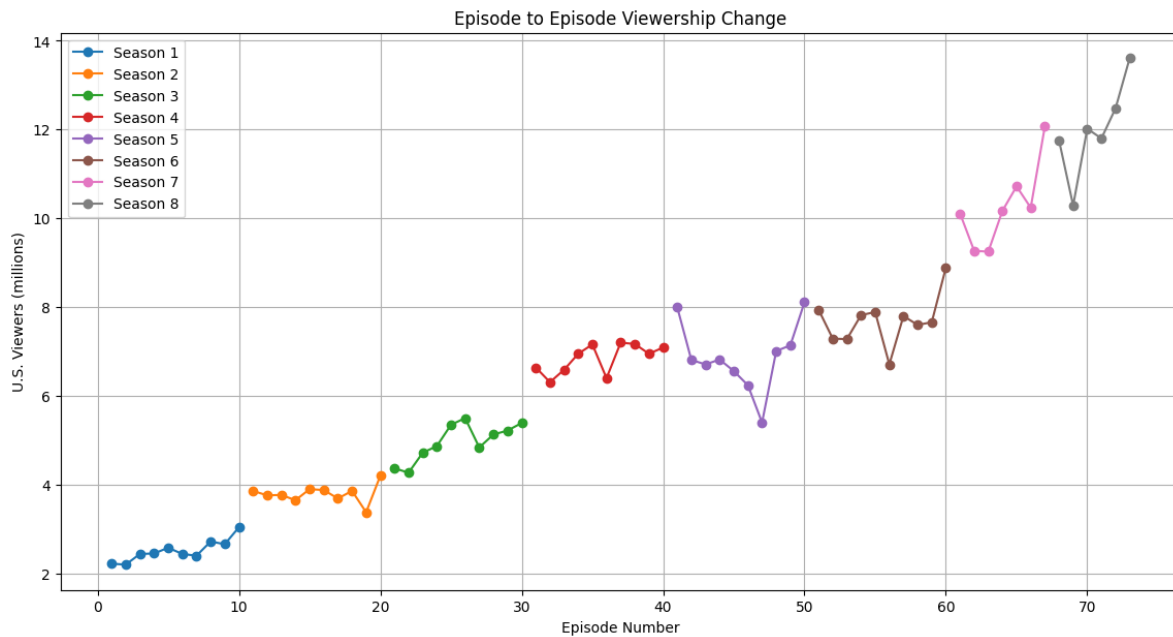


## Viewership by Episode

Let's look at how the viewership changed from episode to episode.

```
```python
fig, ax = plt.subplots(figsize=(14, 7))
got_df['Episode_Number'] = range(1, len(got_df) + 1)
for season, group in got_df.groupby('Season'):
    group.plot(x='Episode_Number', y='US_viewers_millions', ax=ax, label=f'Season {season}',
```

```
plt.title('Episode to Episode Viewership Change')
plt.xlabel('Episode Number')
plt.ylabel('U.S. Viewers (millions)')
plt.legend()
plt.grid(True)
plt.show()
'''
```



## Conclusion

The viewership for *Game of Thrones* has shown an upward trajectory, demonstrating the show's growing popularity over the years. It became a cultural icon and significantly impacted television and entertainment.

““