Game of Thrones

Description

Game of Thrones is an American 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, the first of which is *A Game of Thrones*. The show was shot in
the United Kingdom, Canada, Croatia, Iceland, Malta, Morocco, and Spain. It premiered on
HBO in the United States on April 17, 2011, and concluded on May 19, 2019, with 73 episodes
broadcast over eight seasons.

Set on the fictional continents of *Westeros* and *Essos*, *Game of Thrones* has a large ensemble
cast and follows several story arcs throughout the course of the show. The first major arc
concerns the *Iron Throne* of the *Seven Kingdoms* of *Westeros* through a web of political conflicts
among the noble families either vying to claim the throne or fighting for independence from
whoever sits on it. The second focuses on the last descendant of the realm's deposed ruling
dynasty, who has been exiled to *Essos* and is plotting to return and reclaim the throne. The
third follows the Night's Watch, a military order defending the realm against threats from
beyond *Westeros*'s northern border.

Basic descriptive statistics of the series viewership

```python
import pandas as pd
data = pd.read_csv('data/viewership.csv')
print(f'Average viewers per episode, in millions: {data["viewers"].mean():.2f}')
print(f'Std. deviation of viewers per episode, in millions: {data["viewers"].std():.2f}')
```

```
Average viewers per episode, in millions: 6.45
Std. deviation of viewers per episode, in millions: 2.83
```
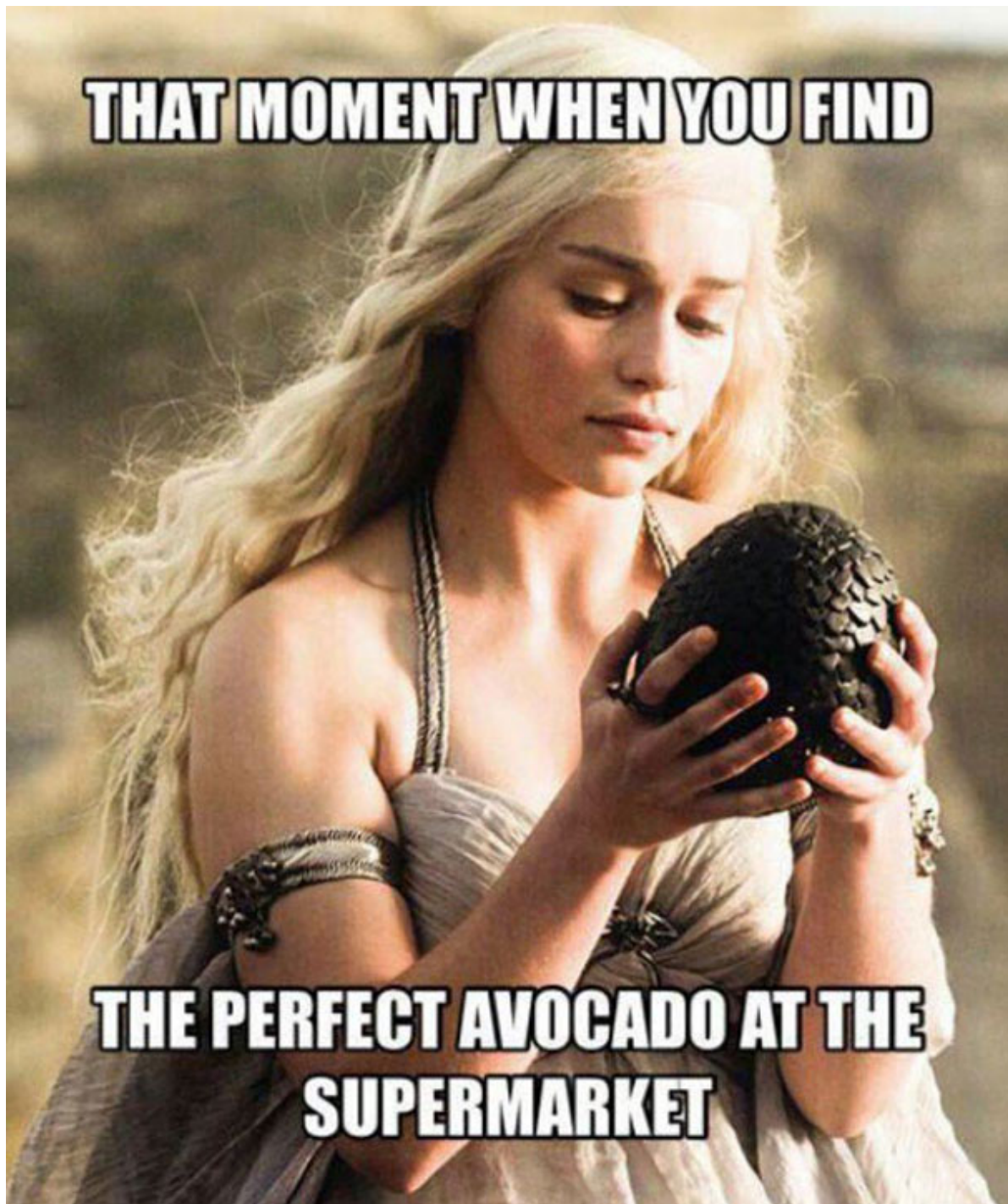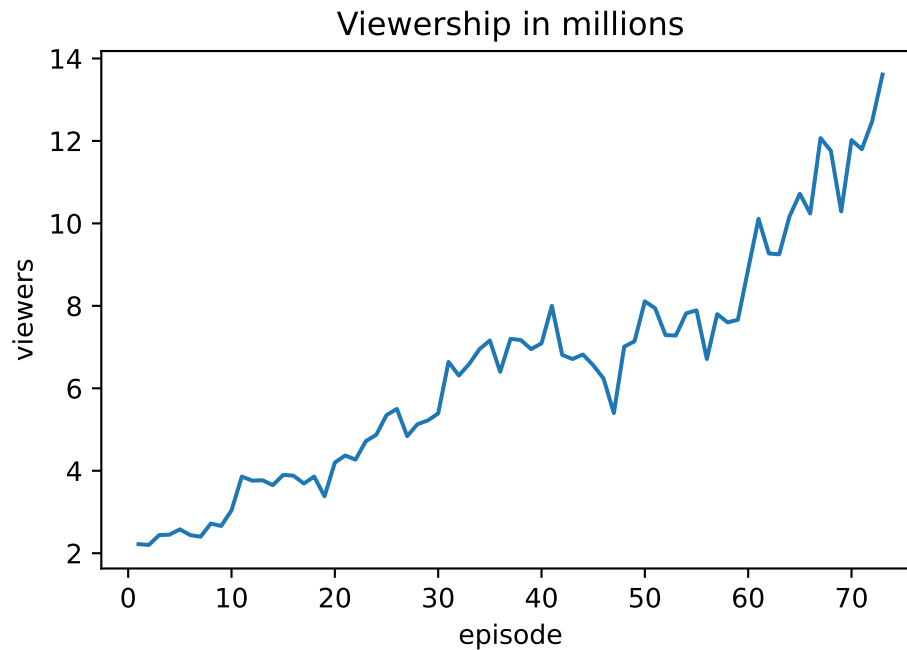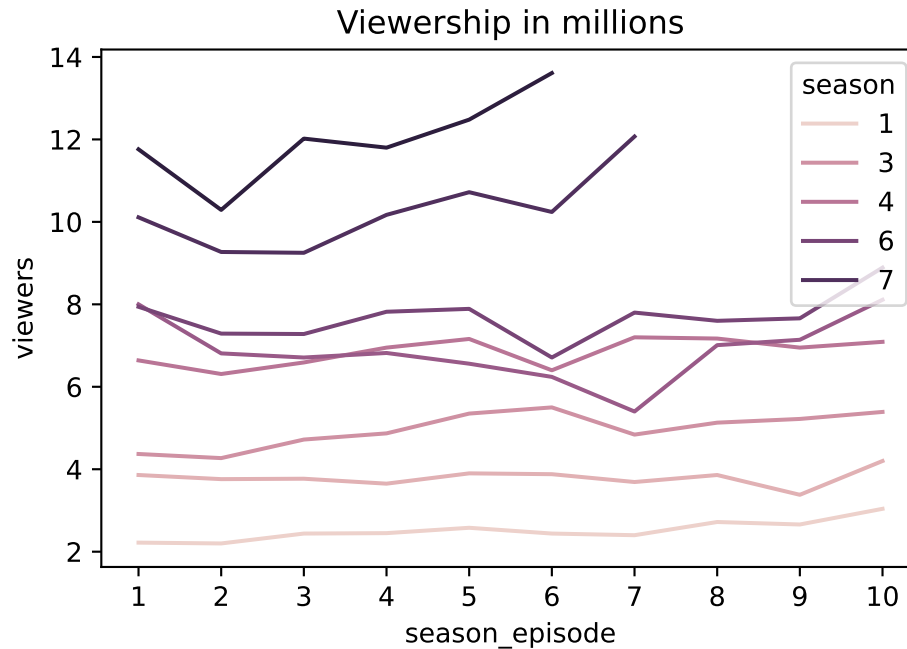
Series viewership over time

Figure 1: *Game of Thrones* scene

```
import seaborn as sns
import matplotlib.pyplot as plt
sns.lineplot(data=data, x='episode', y='viewers').set_title('Viewership in millions')
plt.show()
```


Season by season comparison of viewership

```
data['season_episode'] = data.groupby('season')['episode'].rank(method='first', ascending=
sns.lineplot(data=data, x='season_episode', y='viewers', hue='season', )
plt.title('Viewership in millions')
plt.xticks(range(1, 11))
plt.show()
```

Viewership in millions

```
from IPython.display import Markdown
data_grp = data.groupby('season')['viewers'].sum()
season1 = round(data_grp.iloc[0],1)
season8 = round(data_grp.iloc[-1],1)

display(Markdown(f"""
Viewership of Game of Thrones has grown substantially over time. Total viewers per season
"""
))
```

Viewership of Game of Thrones has grown substantially over time. Total viewers per season increased from 25.2 to 72.0 millions over the course of 8 seasons.