The Sopranos: Viewership Analysis

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```
season = "Season 2"
```

```
# Injected Parameters
season = "Season 1"
```

```python
import os
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from IPython.display import Markdown, display

df = pd.read_csv("sopranos_season_data.csv")

row = df[df["Season"] == season].iloc[0]

avg_views = row["Average_Views"]
highlight = row["Highlight"]
description = row["Description"]
```

1 Season overview:

```
display(Markdown(f"""
### {season}

**Average Viewership:** {avg_views} million
**Highlight:** {highlight}

> {description}
"""))
```

1.1 Season 1

Average Viewership: 3.5 million
Highlight: Introduction of characters and Tony's panic attacks.

Tony begins therapy and juggles mob life with family life.

Figure 1: Show logo

2 Viewership chart

```
plt.figure(figsize=(10, 6))
sns.barplot(data=df, x="Season", y="Average_Views", palette="magma")
```

```
# Highlight the current season
highlight_idx = df.index[df["Season"] == season].tolist()[0]
bar = plt.gca().patches[highlight_idx]
bar.set_edgecolor("black")
bar.set_linewidth(2)

plt.title("Average Viewership by Season")
plt.ylabel("Average Viewers (millions)")
plt.xlabel("Season")
plt.xticks(rotation=45)
plt.grid(axis="y", linestyle="--", alpha=0.5)
plt.tight_layout()
plt.show()
```

C:\Users\msliz\AppData\Local\Temp\ipykernel_2820\2182017188.py:2: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assig