

```
In [6]: import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt

# Load Titanic dataset from your CSV
df = pd.read_csv('titanic_sample.csv') # <-- now saved to 'df'

# Set Seaborn style
sns.set(style="whitegrid")

# Show basic structure
print(df.head())

# --- VISUALIZATION 1 ---
# Survival Count (Categorical Distribution)
plt.figure(figsize=(7, 5))
sns.countplot(x='survived', palette='Set2', data=df)
plt.title("Survival Count (0 = No, 1 = Yes)")
plt.xlabel("Survived")
plt.ylabel("Passenger Count")
plt.show()

# --- VISUALIZATION 2 ---
# Age Distribution by Gender
plt.figure(figsize=(8, 6))
sns.histplot(data=df, x='age', hue='sex', kde=True, bins=30)
plt.title("Age Distribution by Gender")
plt.xlabel("Age")
plt.ylabel("Count")
plt.show()

# --- VISUALIZATION 3 ---
# Survival by Passenger Class and Gender
# Note: Using catplot as a figure requires it to be assigned
g = sns.catplot(x='pclass', hue='sex', col='survived', data=df, kind='count', palette='pastel')
g.fig.subplots_adjust(top=0.8)
g.fig.suptitle("Survival by Class and Gender", fontsize=16)
plt.show()
```

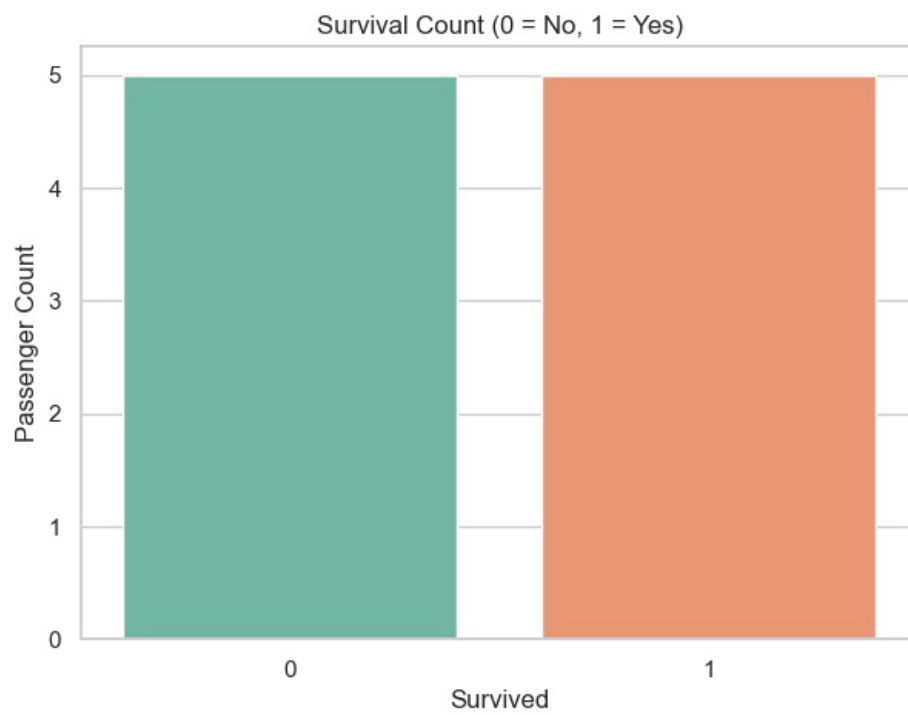
	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	\
0	0	3	male	22.0	1	0	7.2500	S	Third	
1	1	1	female	38.0	1	0	71.2833	C	First	
2	1	3	female	26.0	0	0	7.9250	S	Third	
3	1	1	female	35.0	1	0	53.1000	S	First	
4	0	3	male	35.0	0	0	8.0500	S	Third	

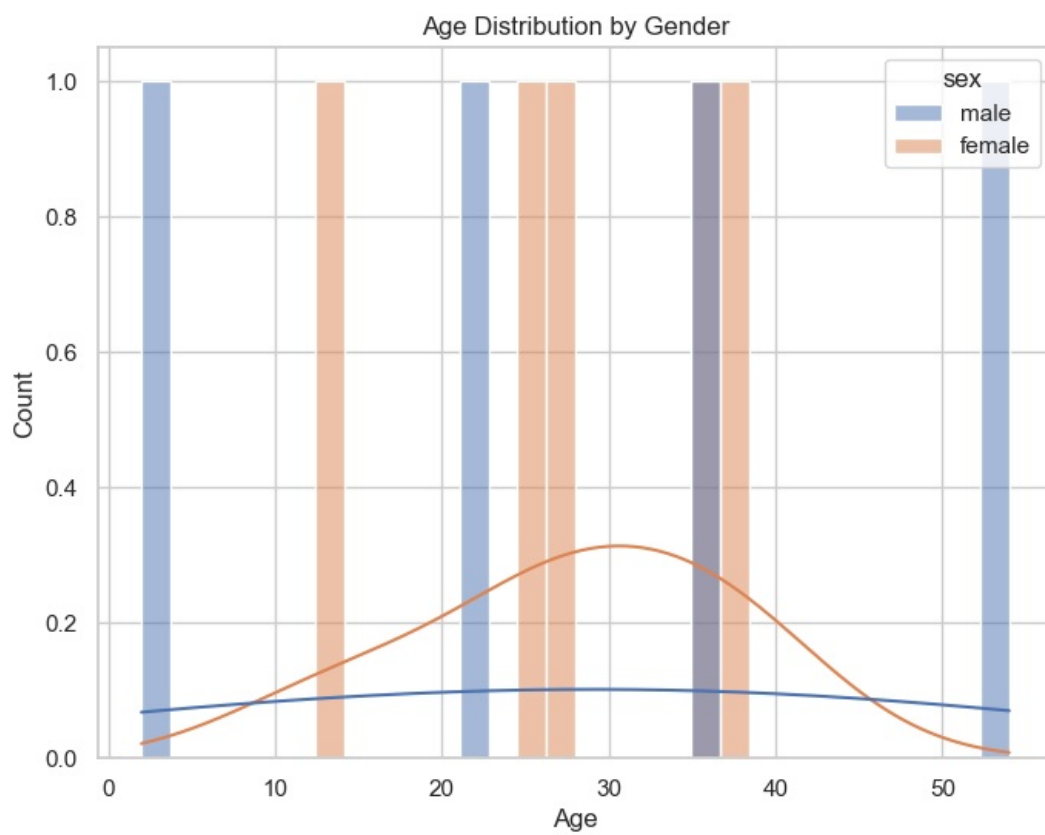
	who	adult_male	deck	embark_town	alive	alone
0	man	True	NaN	Southampton	no	False
1	woman	False	C	Cherbourg	yes	False
2	woman	False	NaN	Southampton	yes	True
3	woman	False	C	Southampton	yes	False
4	man	True	NaN	Southampton	no	True

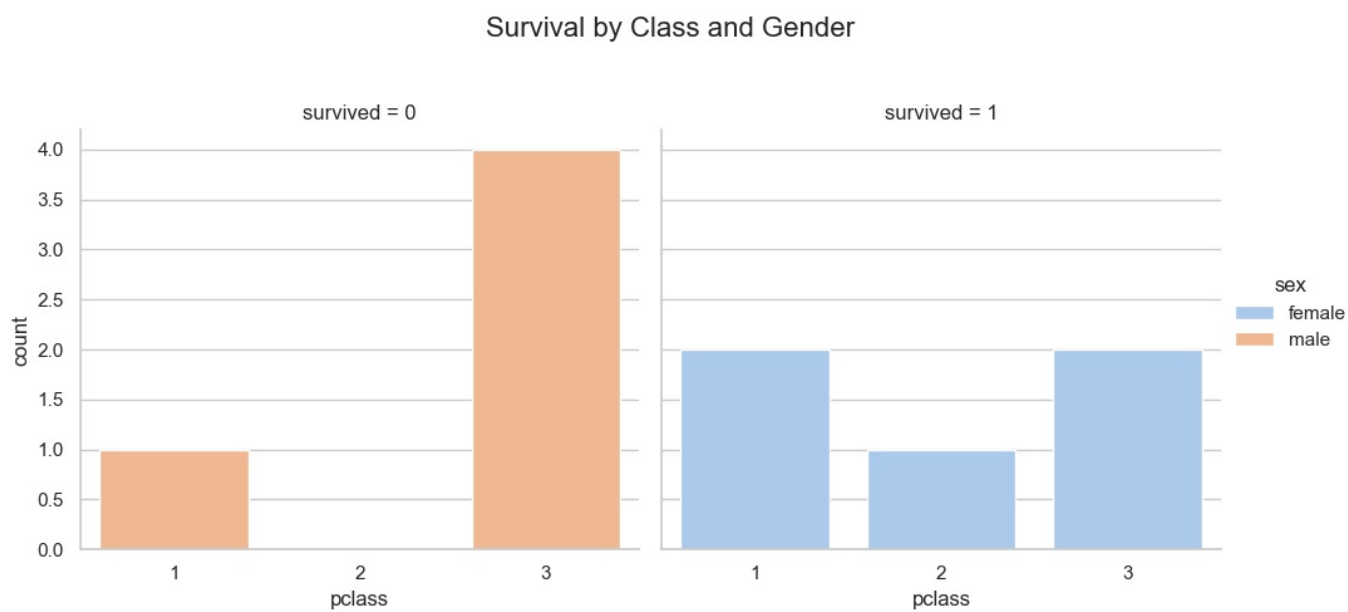
C:\Users\ELCOT\AppData\Local\Temp\ipykernel_12880\2330306851.py:17: FutureWarning:

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.countplot(x='survived', palette='Set2', data=df)
```







In []:

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