

Import Libraries

```
In [1]: import seaborn as sns
import matplotlib.pyplot as plt
```

Load the Titanic dataset

```
In [3]: titanic = sns.load_dataset("titanic")
```

Display the first few rows of the dataset

```
In [4]: print(titanic.head())
```

	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

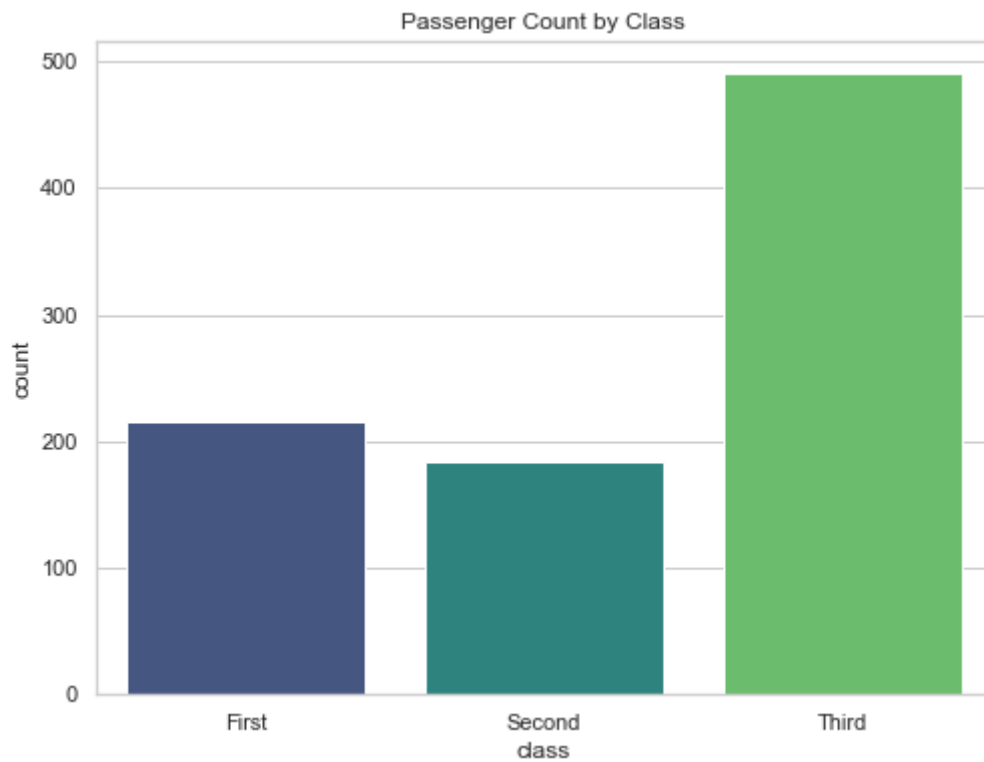
	who	adult_male	deck	embark_town	alive	alone
0	man	True	NaN	Southampton	no	False
1	woman	False	C	Cherbourg	yes	False
2	woman	False	NaN	Southampton	yes	True
3	woman	False	C	Southampton	yes	False
4	man	True	NaN	Southampton	no	True

Set the style of seaborn

```
In [5]: sns.set(style="whitegrid")
```

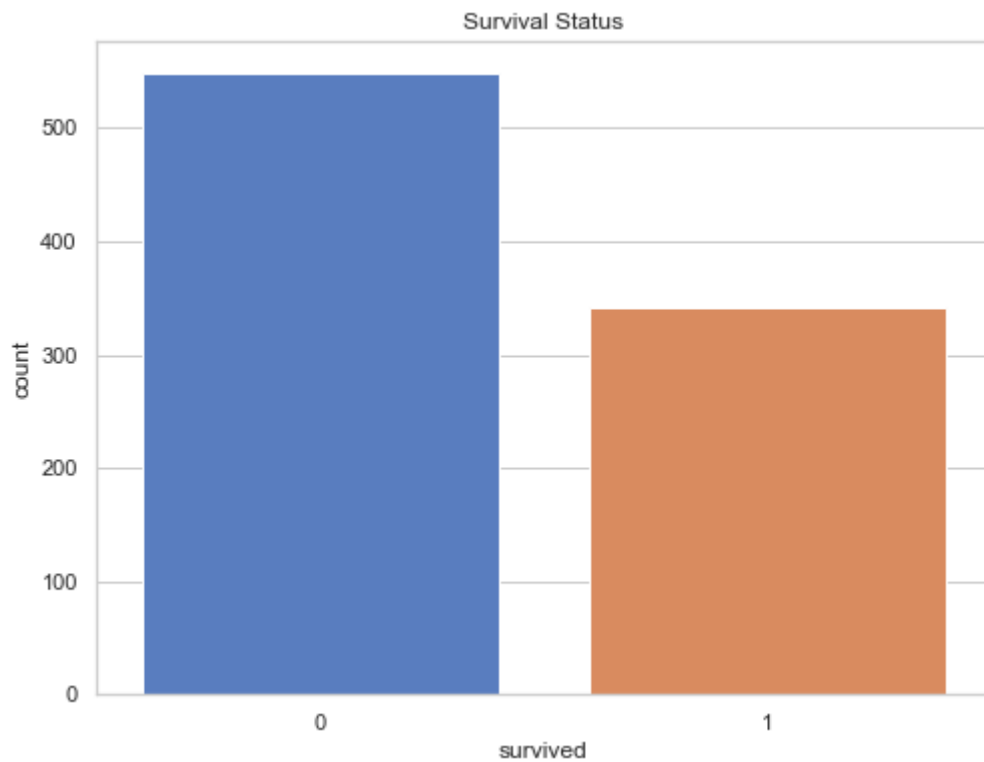
Countplot of passengers by class

```
In [6]: plt.figure(figsize=(8, 6))  
sns.countplot(x="class", data=titanic, palette="viridis")  
plt.title("Passenger Count by Class")  
plt.show()
```



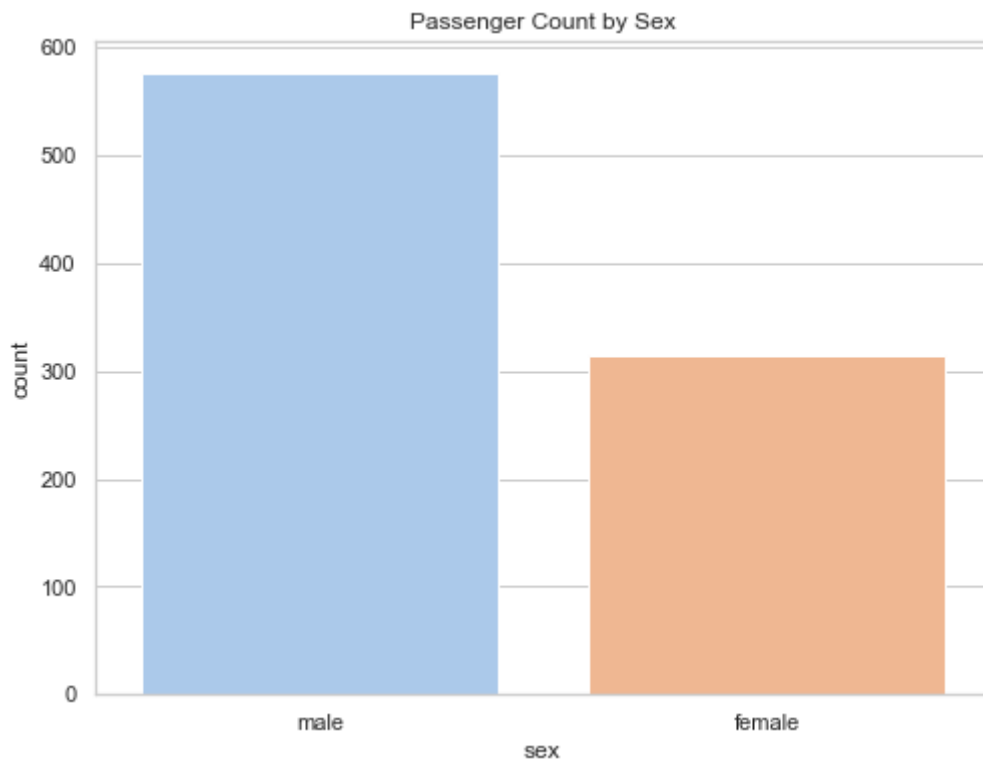
Countplot of passengers by survival status

```
In [7]: plt.figure(figsize=(8, 6))  
sns.countplot(x="survived", data=titanic, palette="muted")  
plt.title("Survival Status")  
plt.show()
```



Countplot of passengers by sex

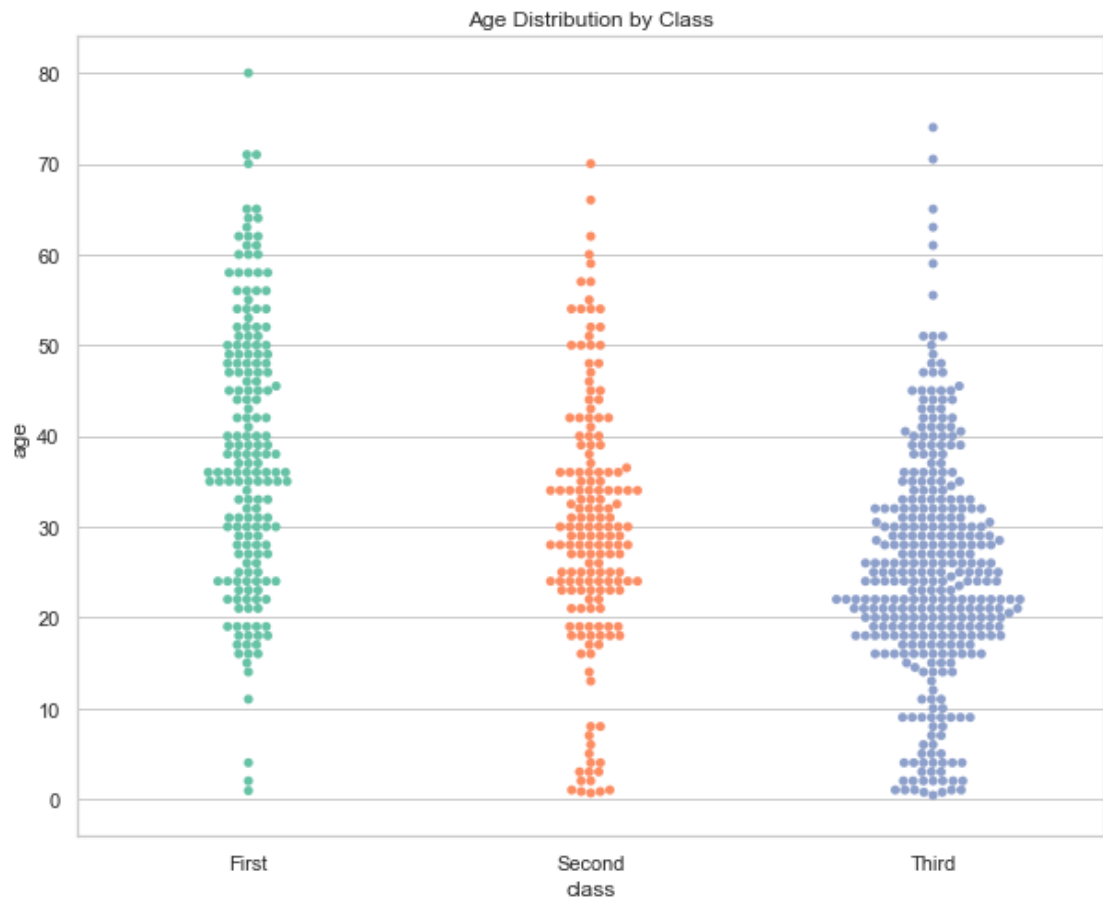
```
In [8]: plt.figure(figsize=(8, 6))  
sns.countplot(x="sex", data=titanic, palette="pastel")  
plt.title("Passenger Count by Sex")  
plt.show()
```



Swarmplot of age by class

```
In [9]: plt.figure(figsize=(10, 8))
sns.swarmplot(x="class", y="age", data=titanic, palette="Set2")
plt.title("Age Distribution by Class")
plt.show()
```

```
F:\FDriveSoftwares\programs\anaconda3\lib\site-packages\seaborn\categori
cal.py:1324: RuntimeWarning: invalid value encountered in less
  off_low = points < low_gutter
F:\FDriveSoftwares\programs\anaconda3\lib\site-packages\seaborn\categori
cal.py:1328: RuntimeWarning: invalid value encountered in greater
  off_high = points > high_gutter
```



Boxplot of fare by class

```
In [10]: plt.figure(figsize=(10, 8))  
sns.boxplot(x="class", y="fare", data=titanic, palette="Blues")  
plt.title("Fare Distribution by Class")  
plt.show()
```

