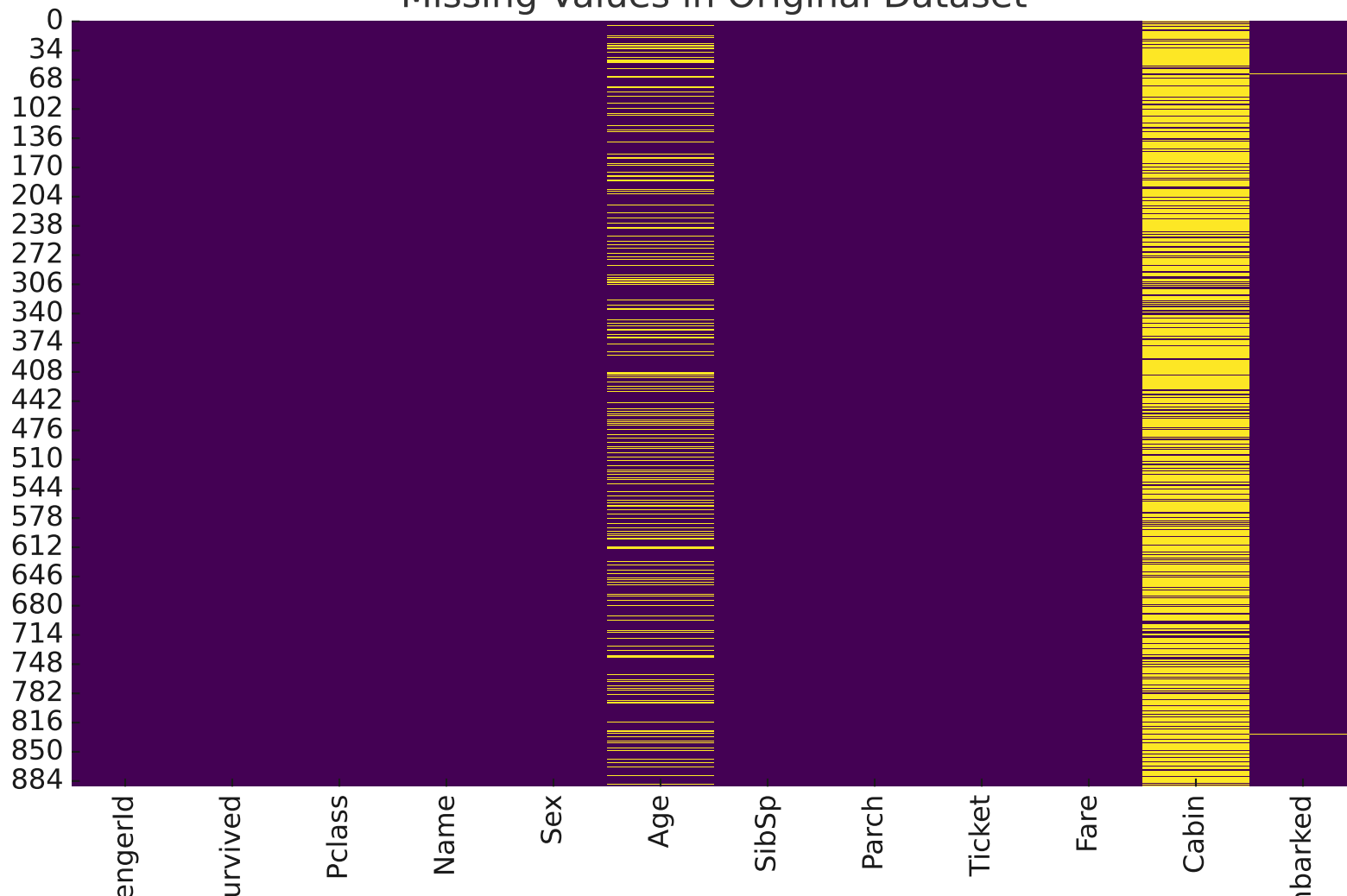


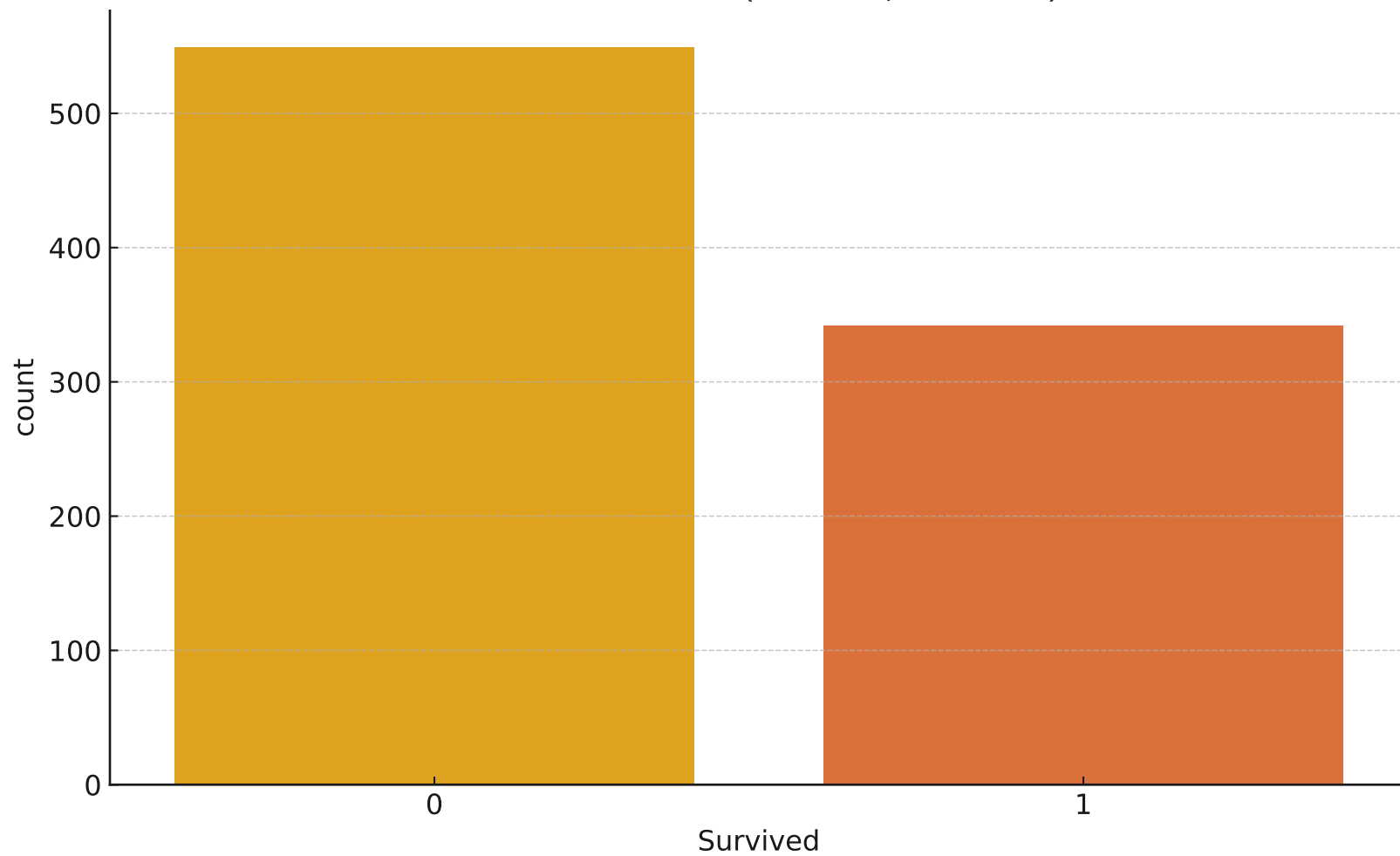
# Exploratory Data Analysis: Titanic Dataset

This report presents visual and statistical insights from the Titanic dataset using EDA techniques.

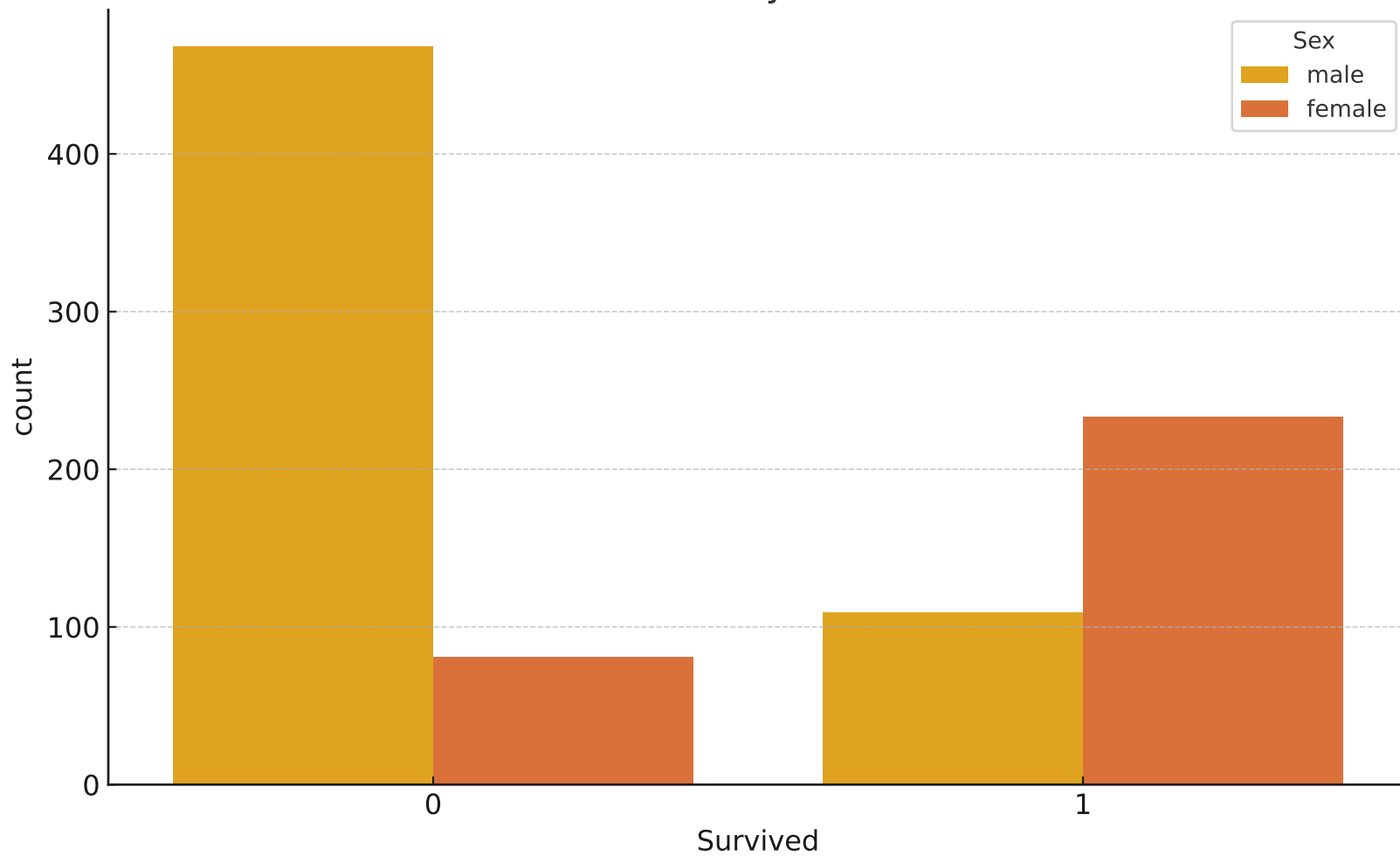
## Missing Values in Original Dataset



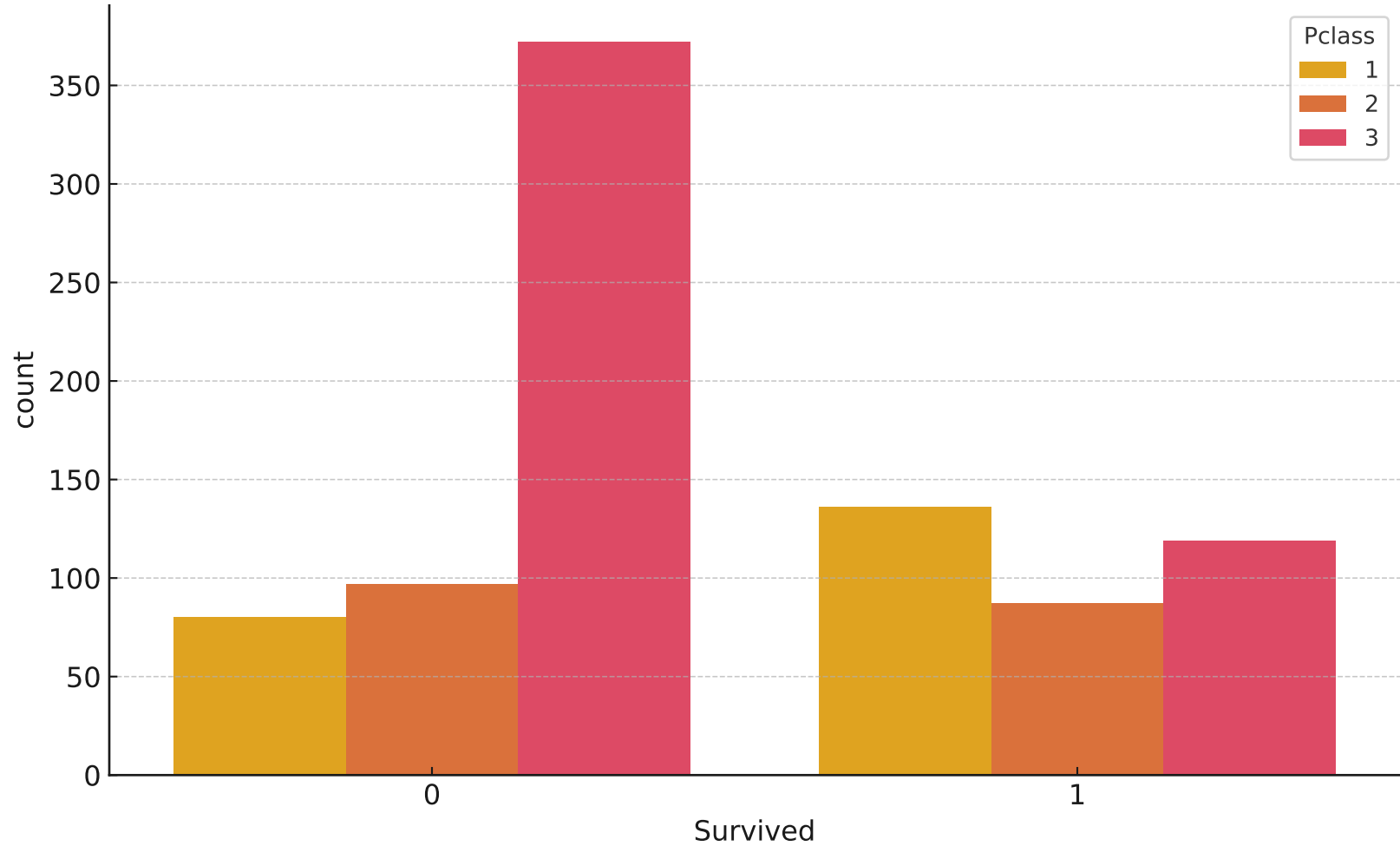
Survival Count (0 = No, 1 = Yes)



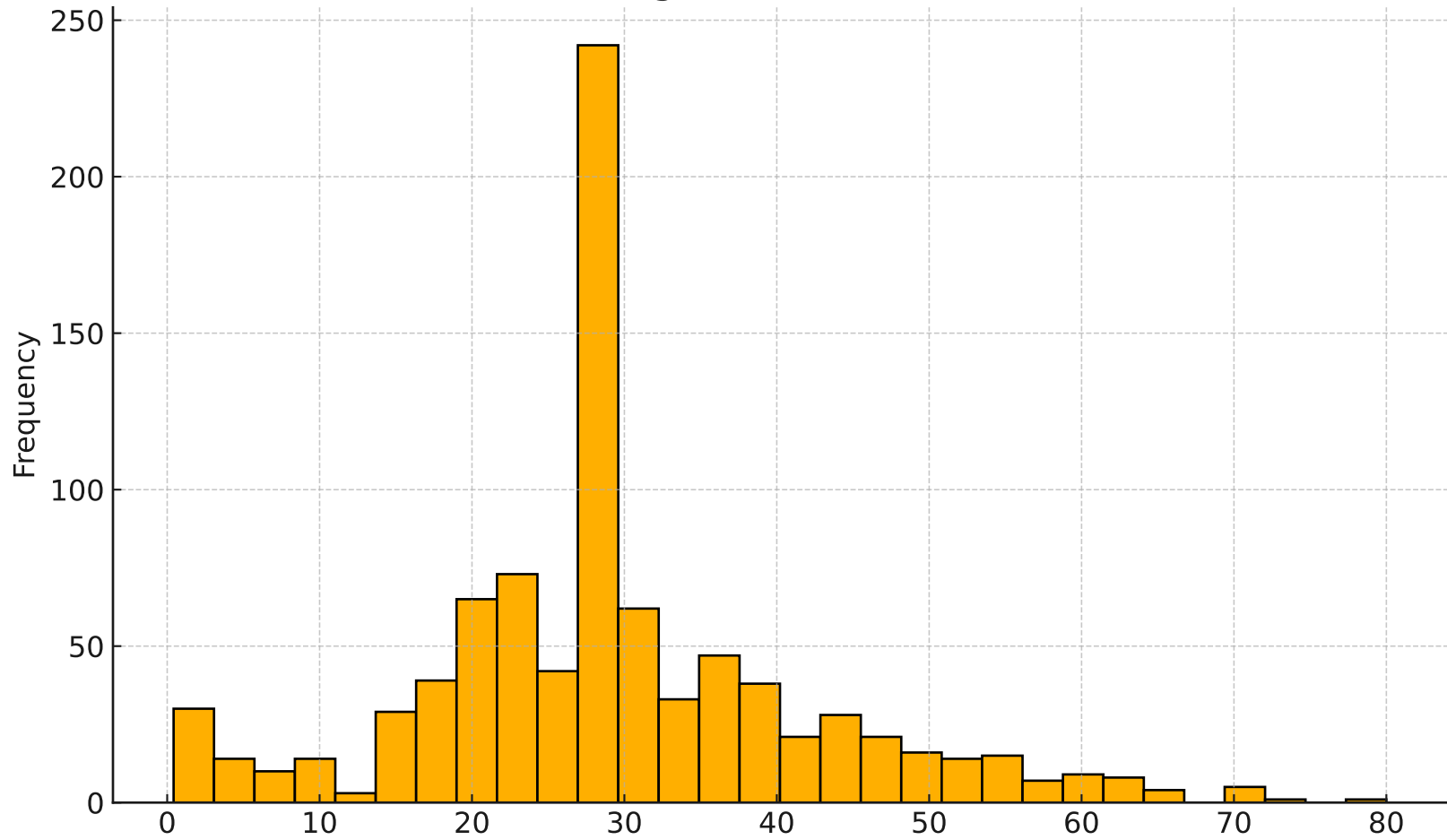
# Survival by Gender



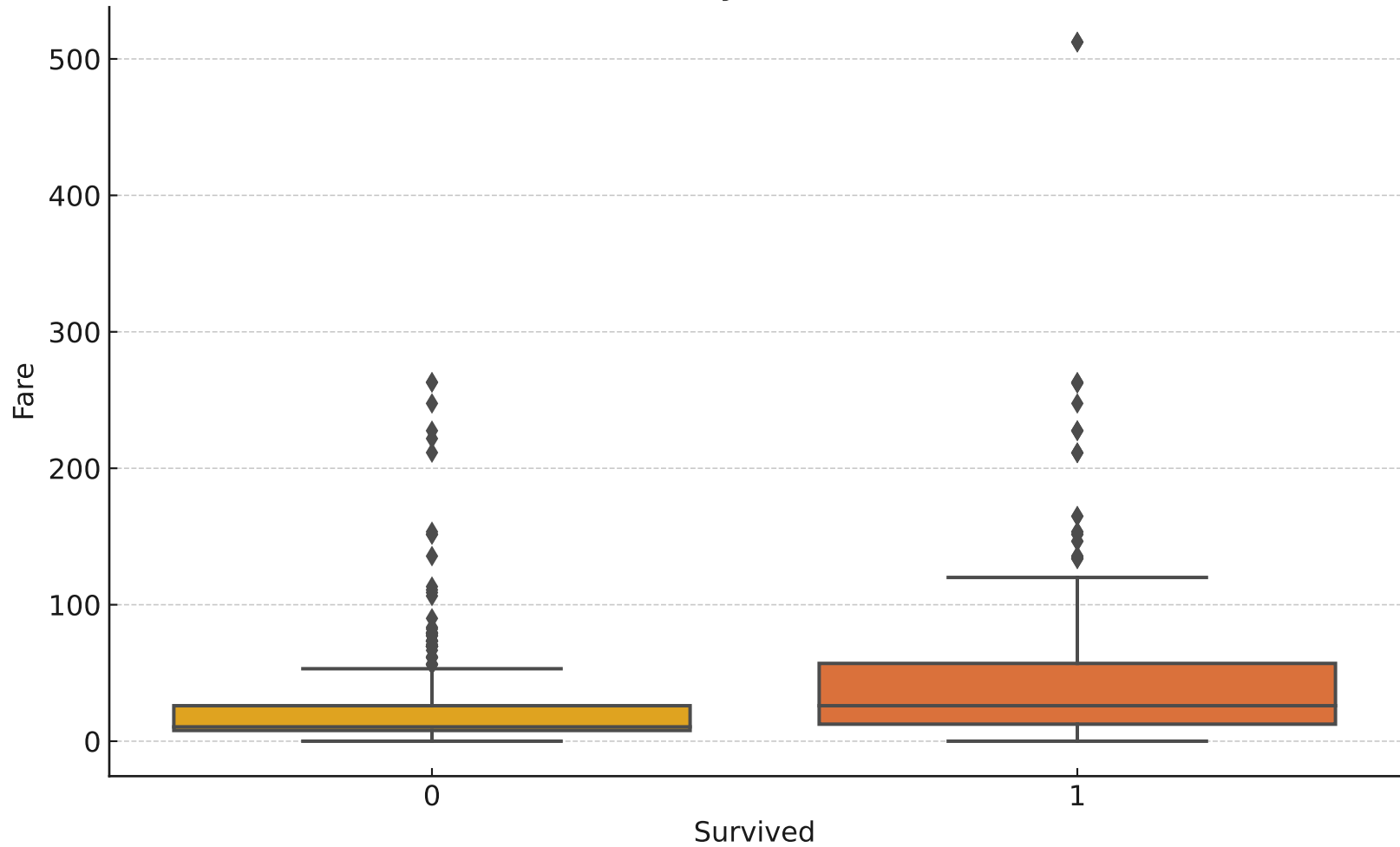
# Survival by Passenger Class



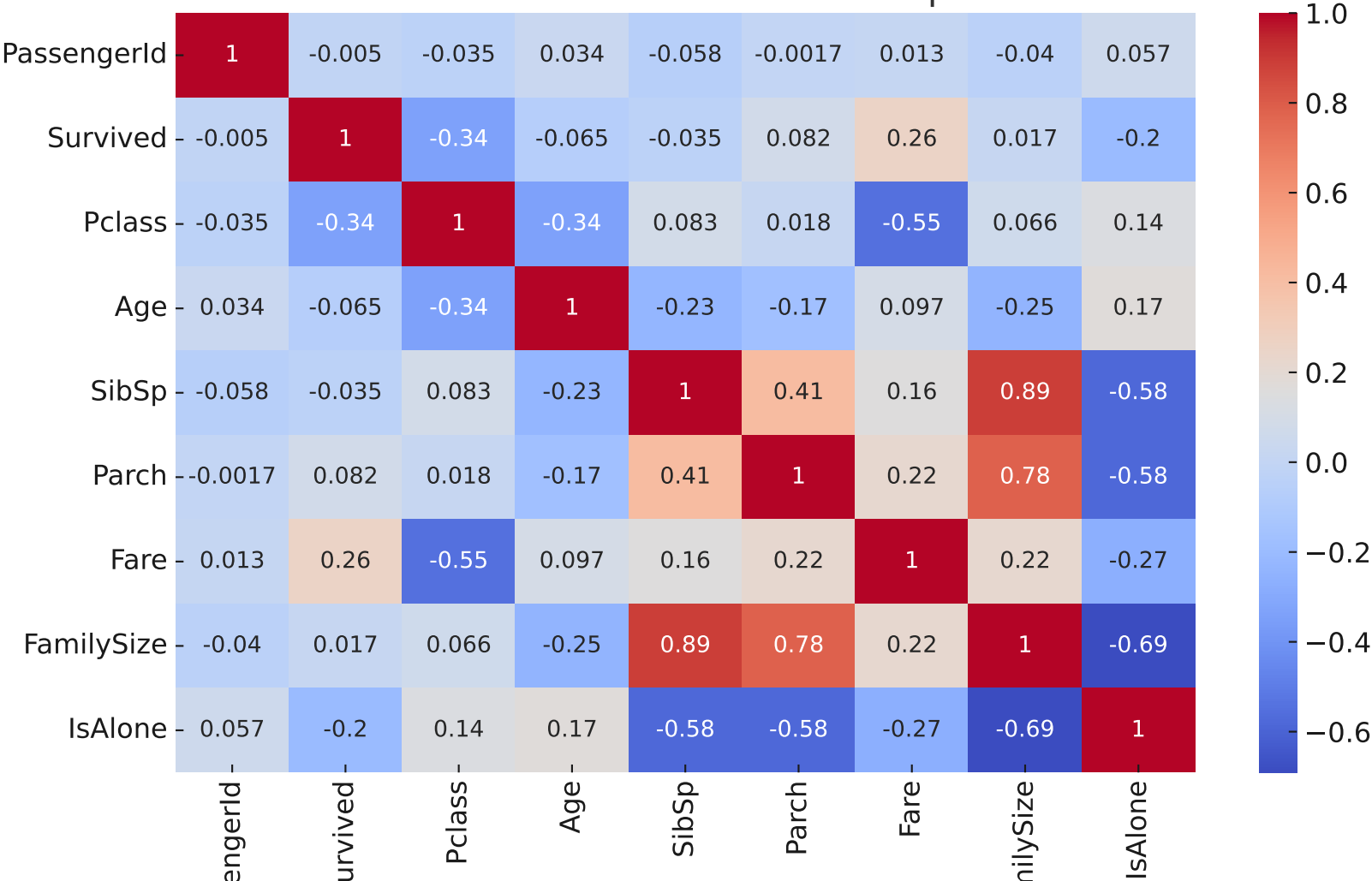
# Age Distribution



Fare by Survival



Feature Correlation Heatmap





## Summary of Insights

1. Most survivors were female, from Pclass 1 or 2.
2. Survival rate in Pclass 3 was lowest.
3. Passengers who paid higher fares had higher survival chances.
4. Age had missing values, handled using median.
5. 'Cabin' was mostly missing, so it was dropped.
6. Correlation heatmap shows Pclass and Fare correlate with survival.