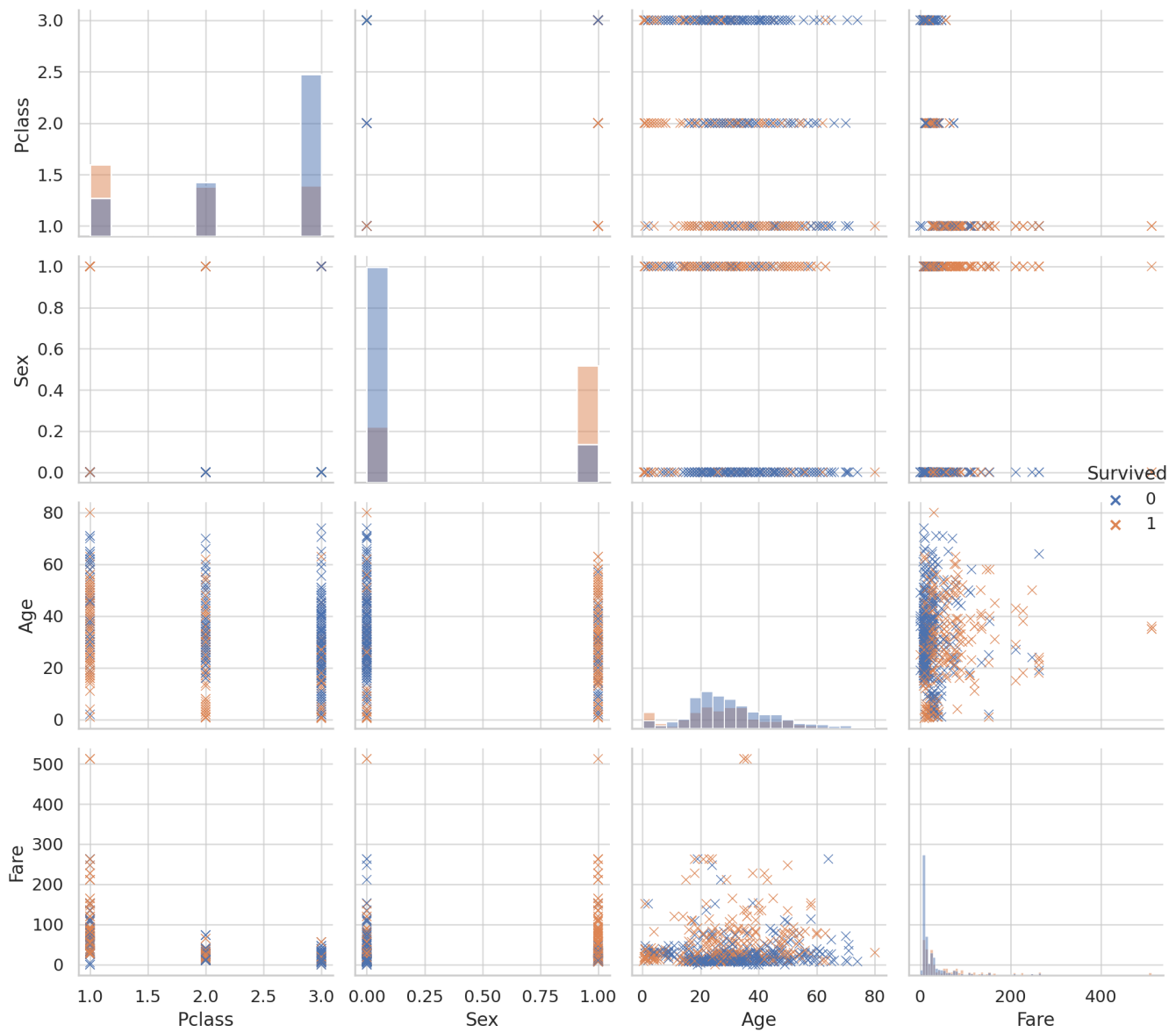


# Titanic Data Analysis Report

## 1. Pairplot (Simplified)

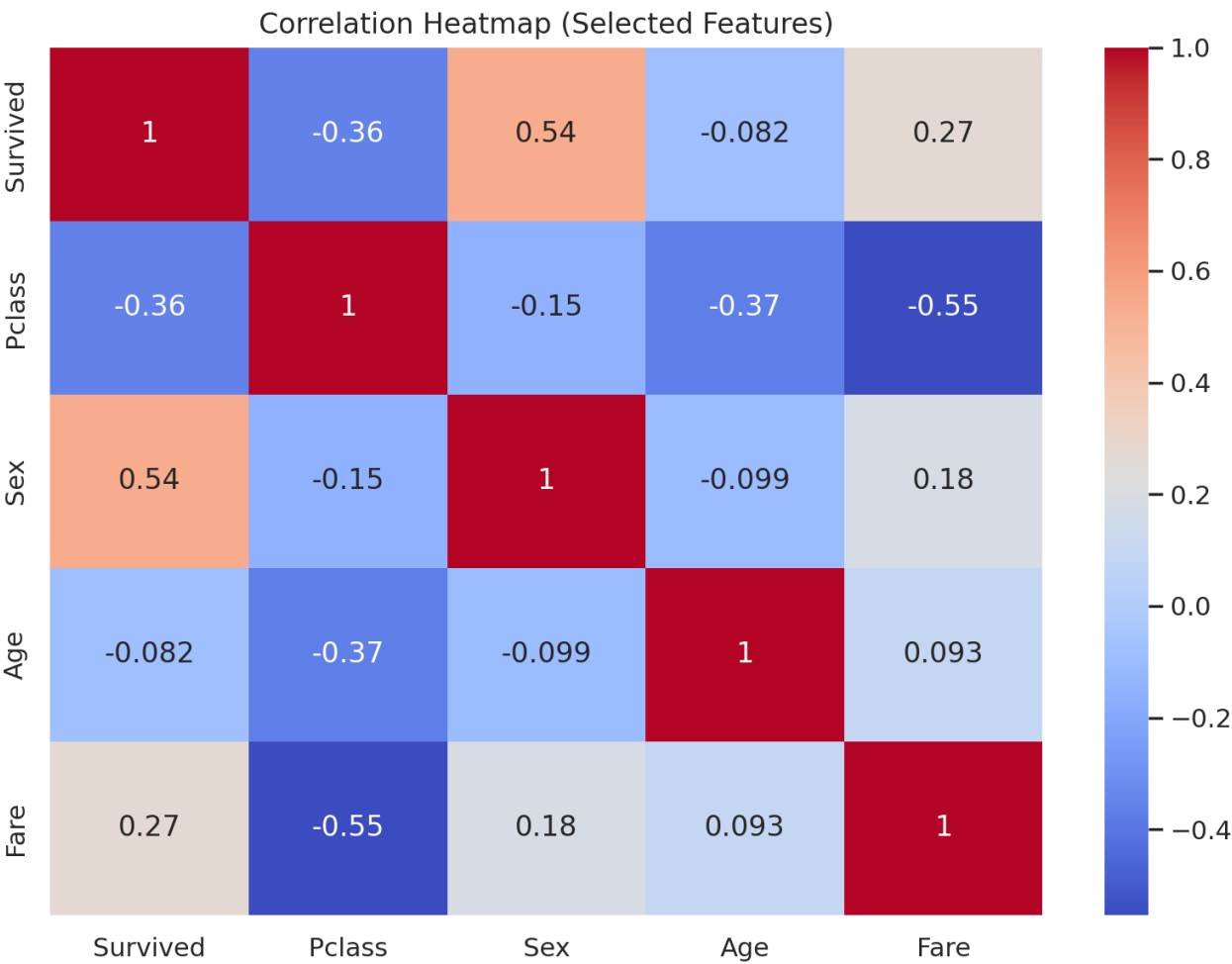


### Observations:

- Females had significantly higher survival rates.
- Passengers in higher classes (Pclass=1) were more likely to survive.
- Higher fare correlates with higher survival.
- Survivors tend to be younger and wealthier.

## 2. Correlation Heatmap (Simplified)

# Titanic Data Analysis Report



Observations:

- Survival is positively correlated with being female (Sex = 1).
- Fare shows a moderate positive correlation with survival.
- Pclass is negatively correlated, indicating lower-class passengers had lower survival chances.

Summary of Findings

- Sex is the strongest predictor of survival: Females had much higher survival rates.
- Fare and Pclass also show clear trends - higher fare and 1st class passengers survived more.
- Age had a minor effect - children and younger passengers had slightly better odds.
- Visuals confirm the narrative: women, children, and wealthier passengers were prioritized in rescue.