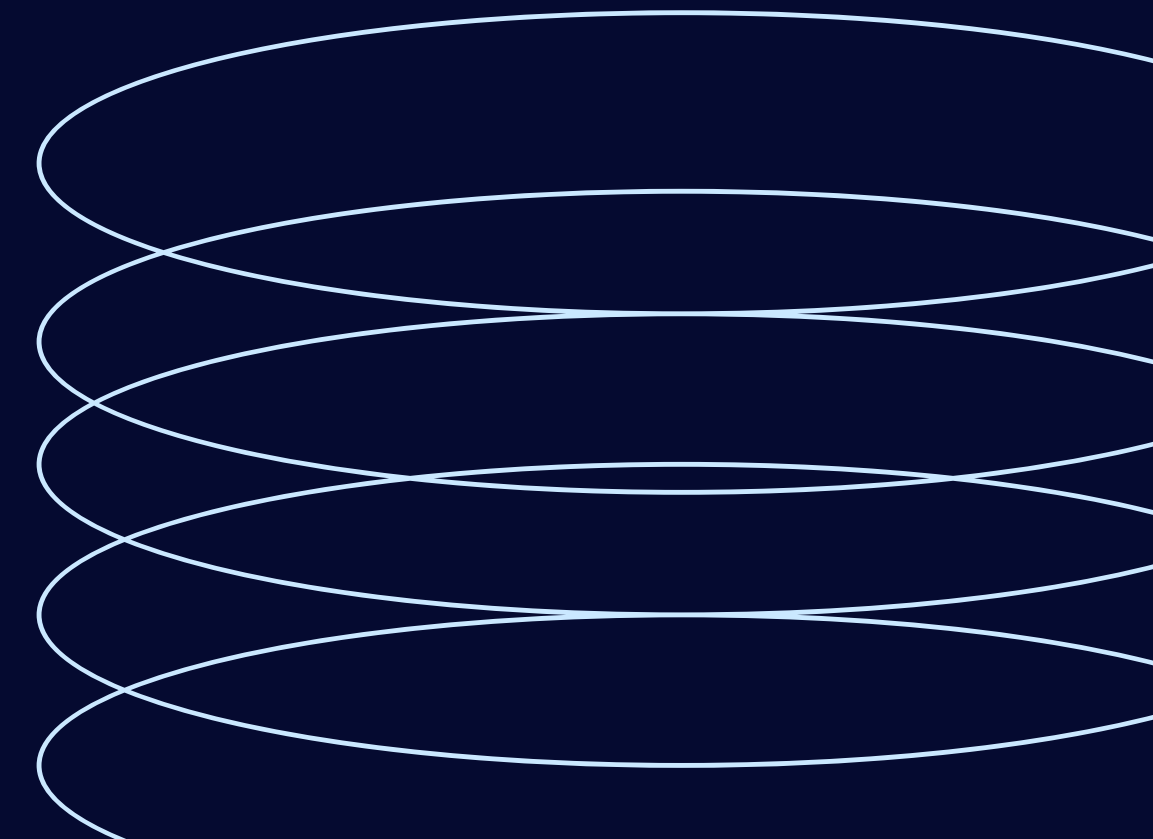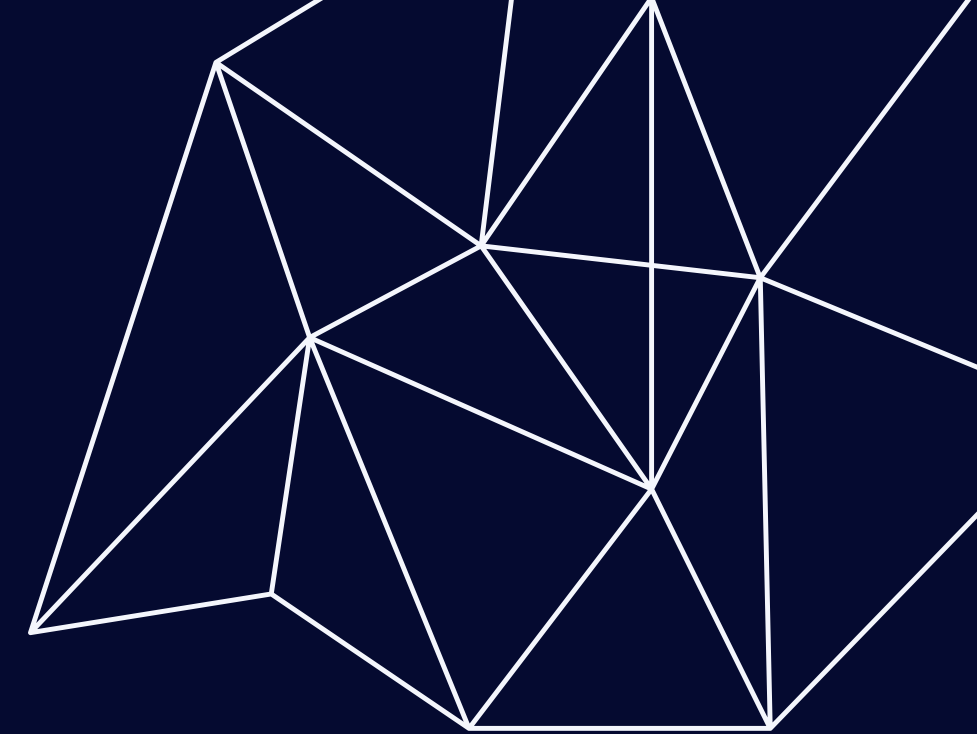# TITANIC

The data analysis of a disaster

What happened to the Titanic?

April 15th 1912

Variables in use

Survived

Whether the passenger survived or not.
No, Yes.

Pclass

Traveling class of Passengers.
Class 1, Class 2, Class 3.

Sex

Gender of Passengers. Male, Female.

Age

Age of Passengers.

Fare

Fare of the ticket the Passenger paid.

Embarked

Stores where the Passengers boarded the Titanic. Southhampton, Cheltenham and Queenstown.

Family Size

Number of Siblings/Spouses/Parents/Children on board with that particular Passenger.

Alone

Number of Passengers that travelled alone.

Exploraory Data Analysis

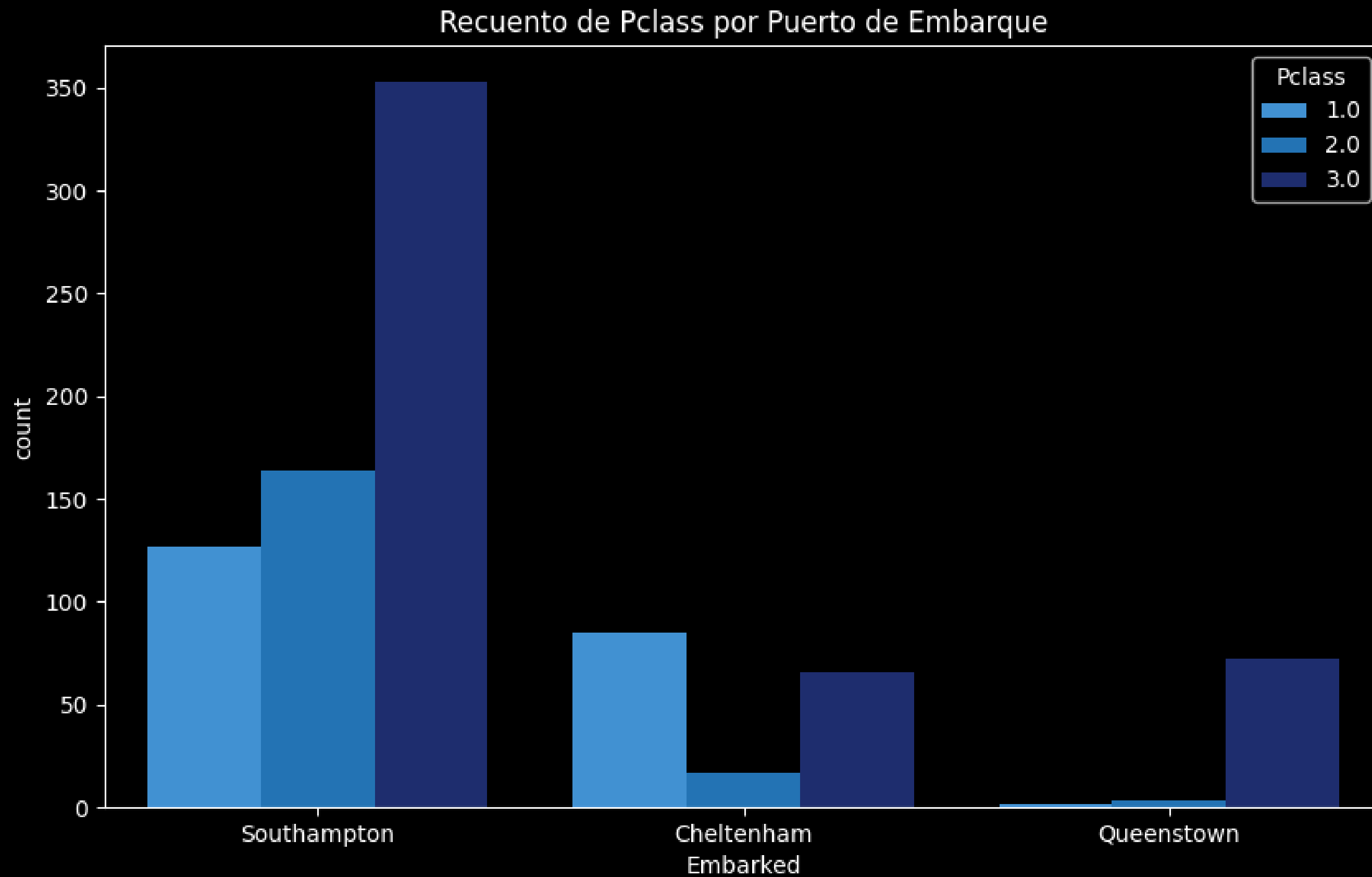# Who was traveling on the Titanic?

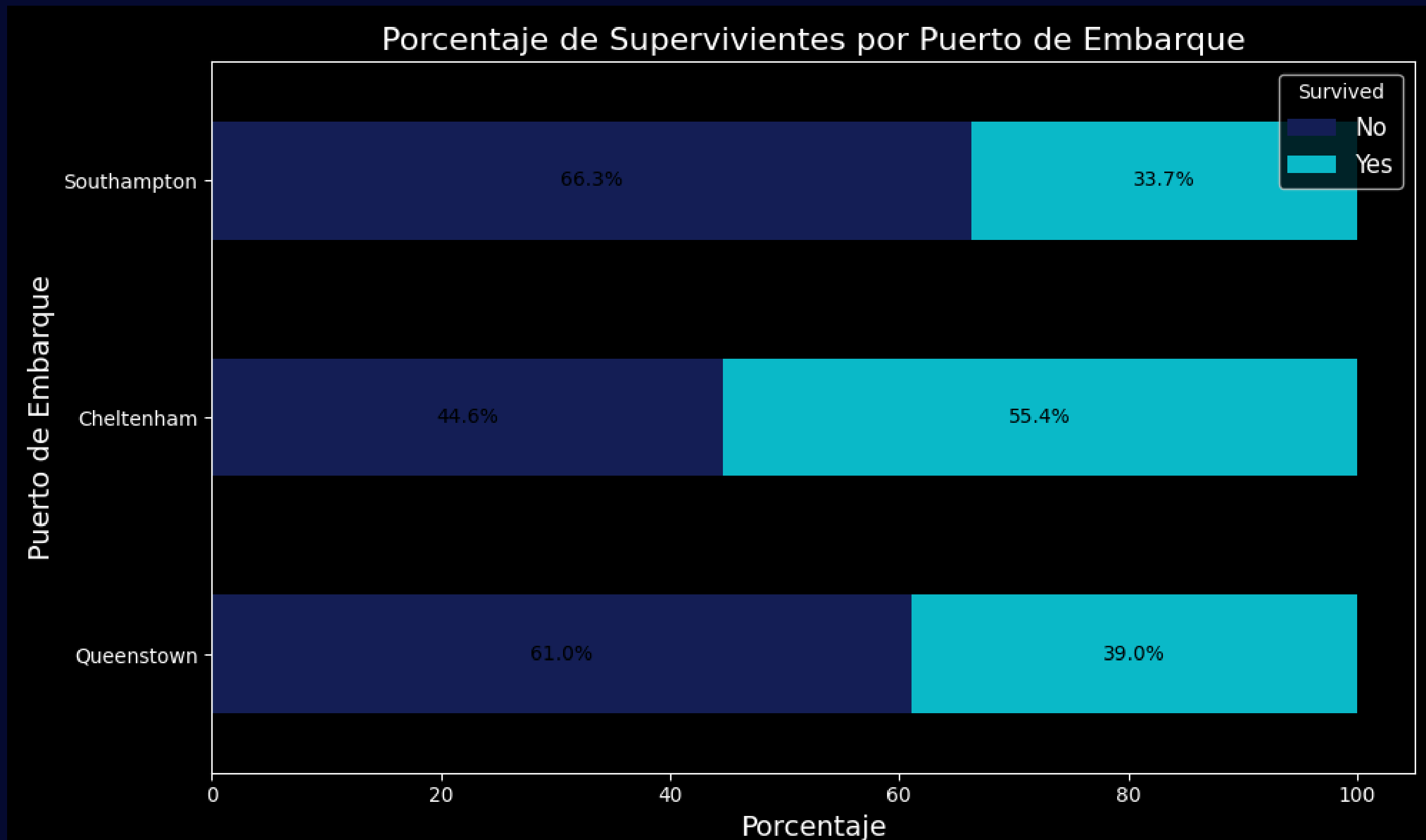**35.24%**

Female rate

29

Median Age

38.38%

Survival rate
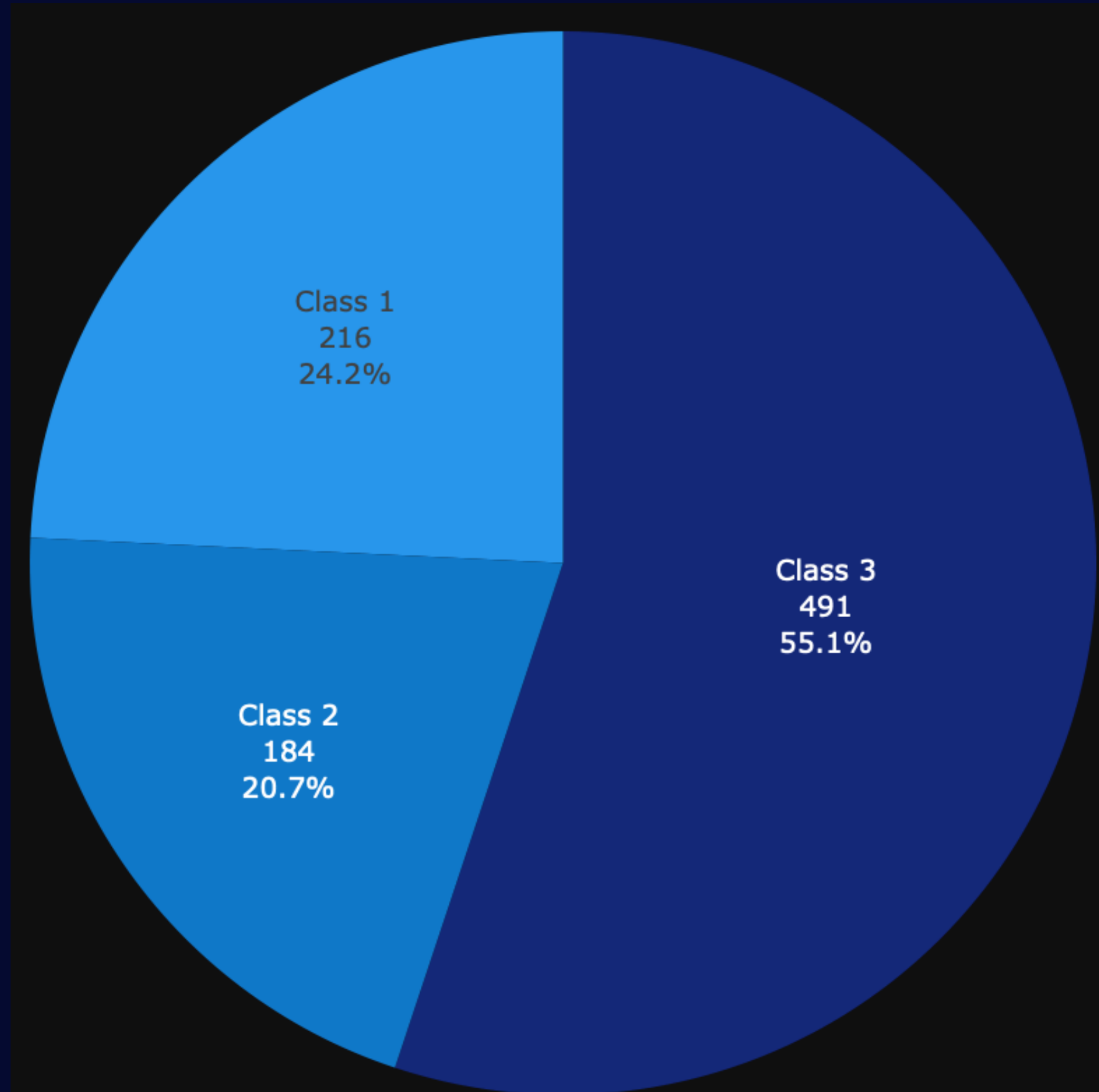
The Embarkation is related to the survival rate?

Recuento de Pclass por Puerto de Embarque

The Embarkation is related to the survival rate?
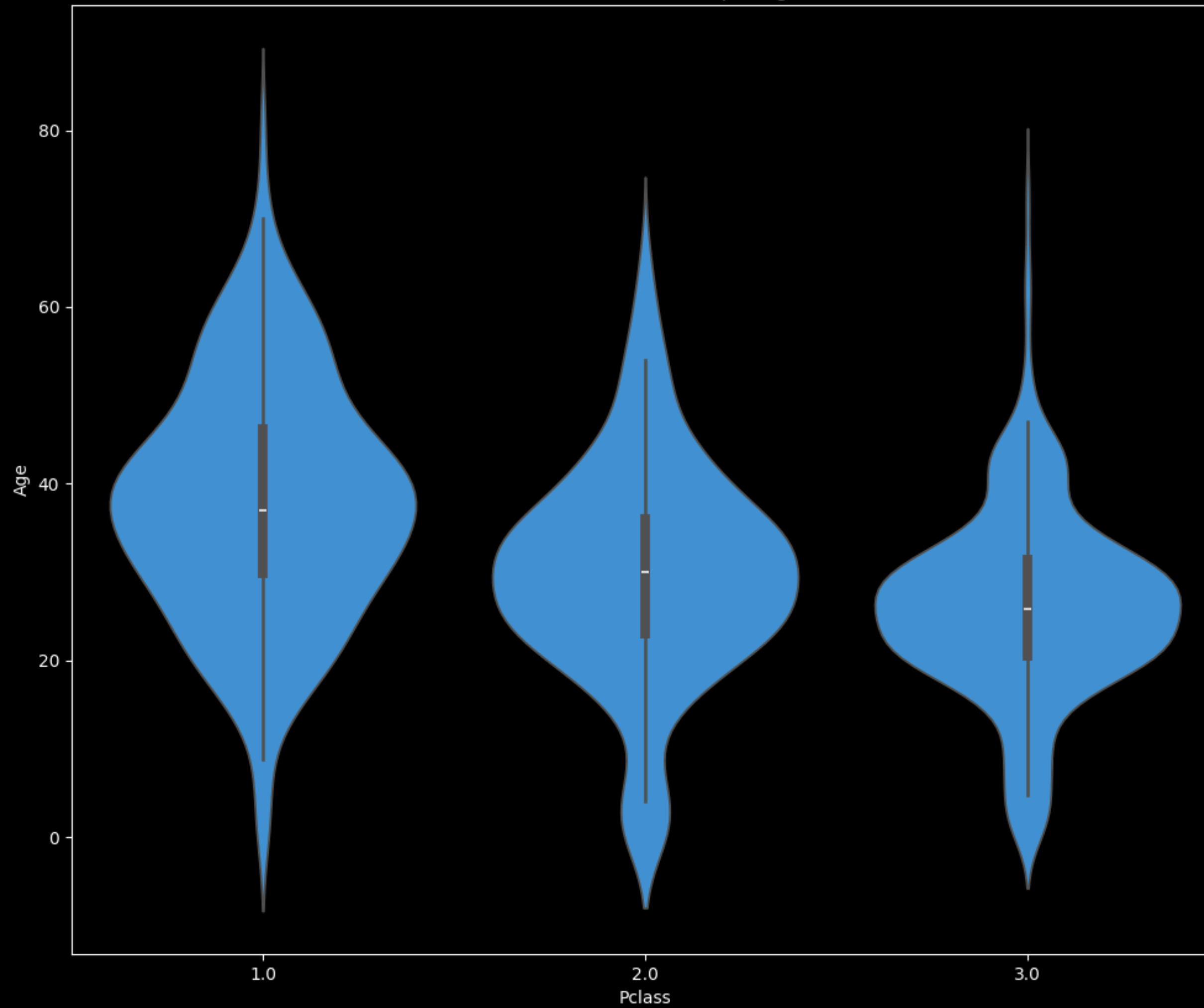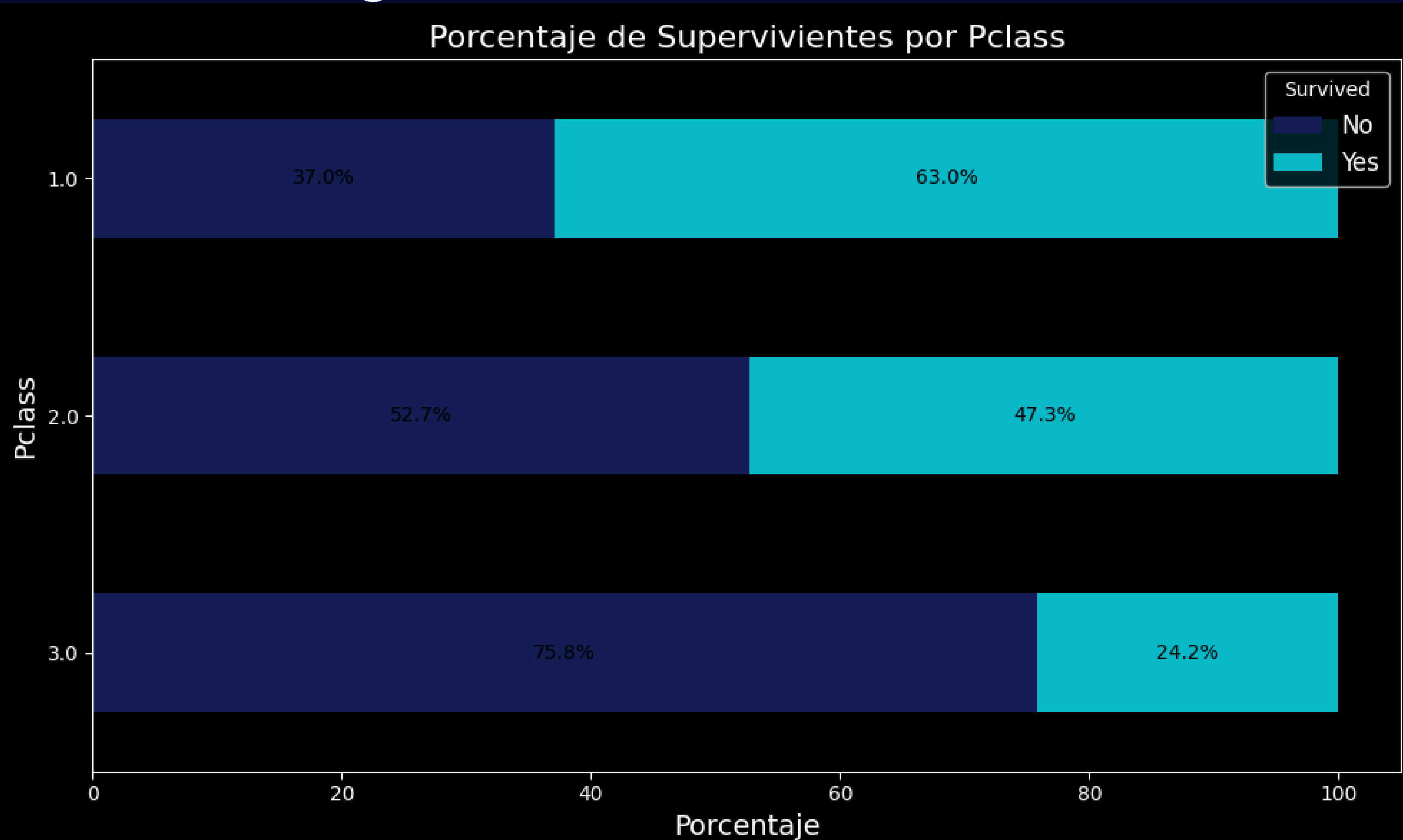

Porcentaje de Supervivientes por Puerto de Embarque

The Passenger Class is related to the Survival Rate?

Distribución de Pclass por Age

The Passenger Class is related to the Survival Rate?

Porcentaje de Supervivientes por Pclass

Survived

- No
- Yes

Pclass	No	Yes
1.0	37.0%	63.0%
2.0	52.7%	47.3%
3.0	75.8%	24.2%

Porcentaje

The Fare is related to the Survival Rate?

Relación Fare vs. Age y Pclass

Axis Y limited to 300

The Fare is related to the Survival Rate?
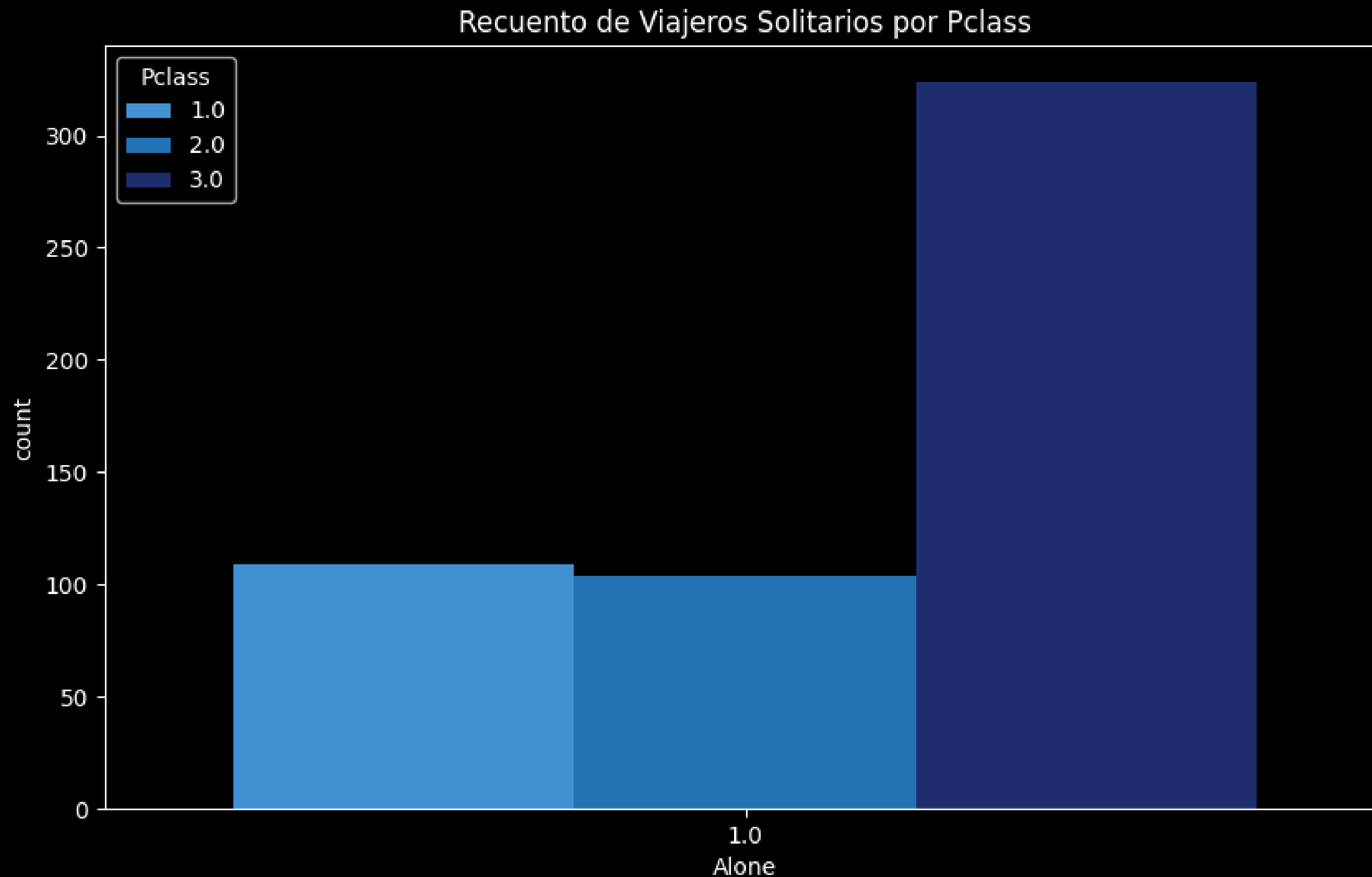

Distribución de Tarifas por Clase y Supervivencia
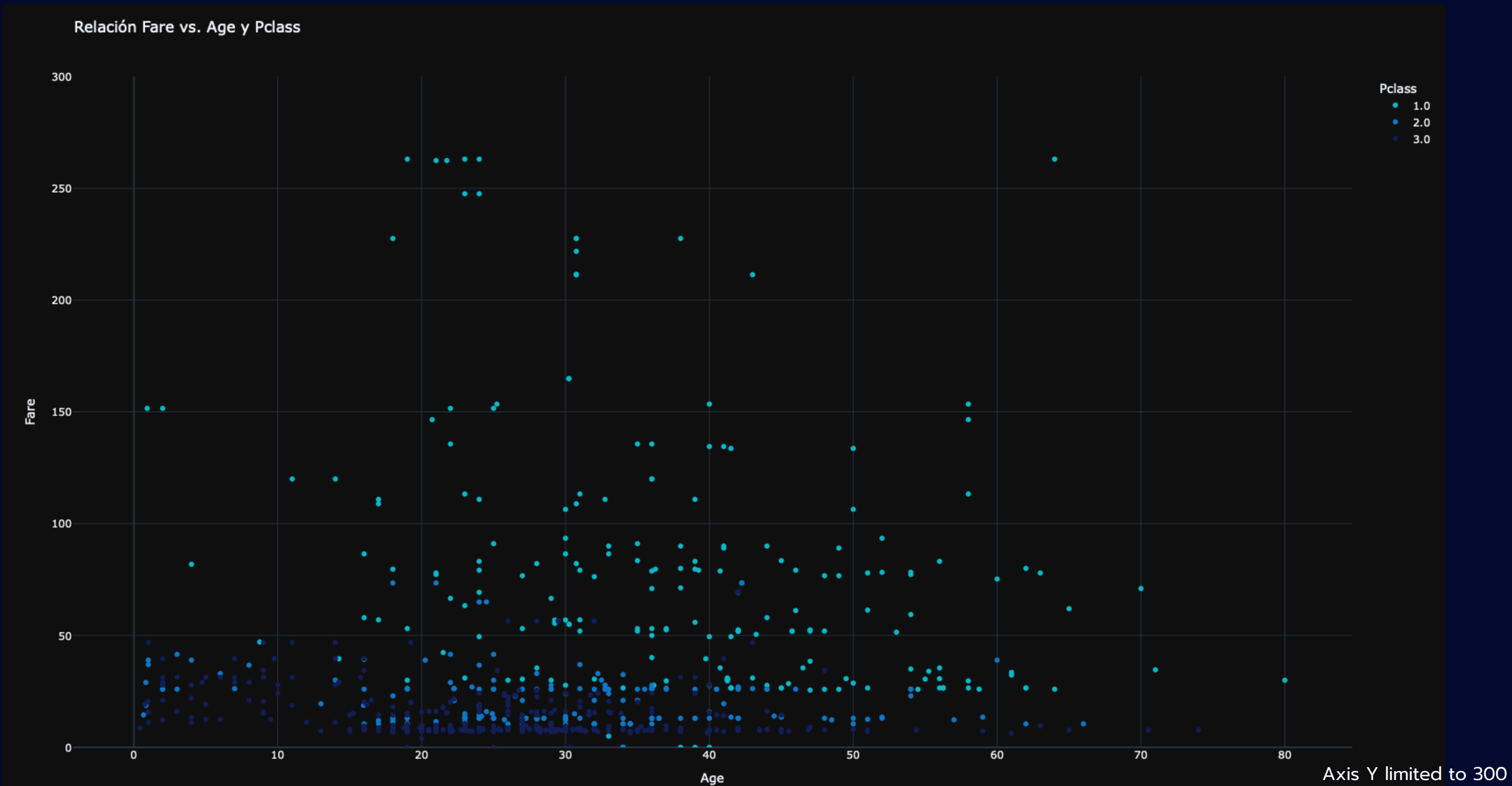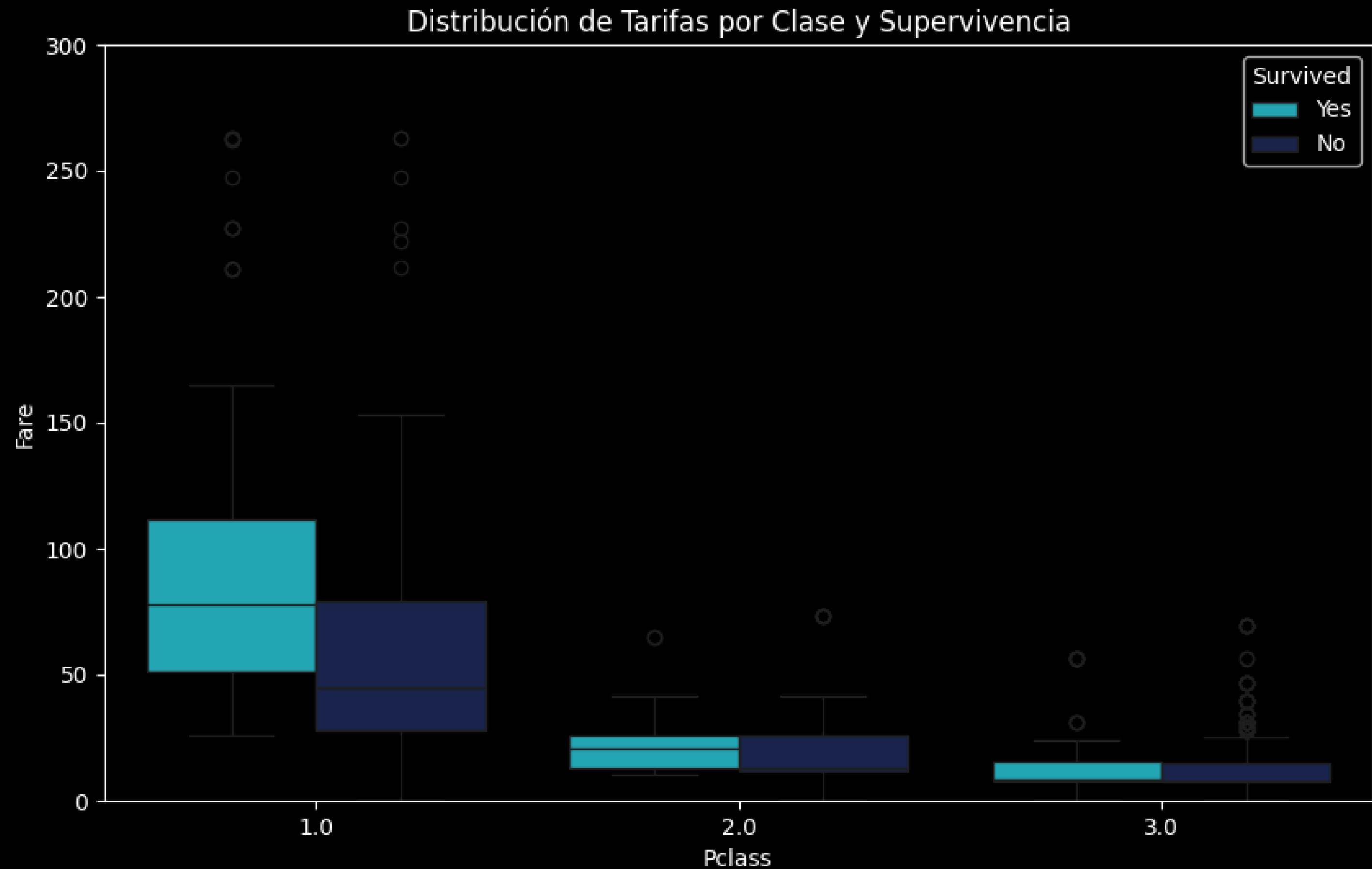
Axis Y limited to 300

The Family Size / Alone is related to the Survival Rate?

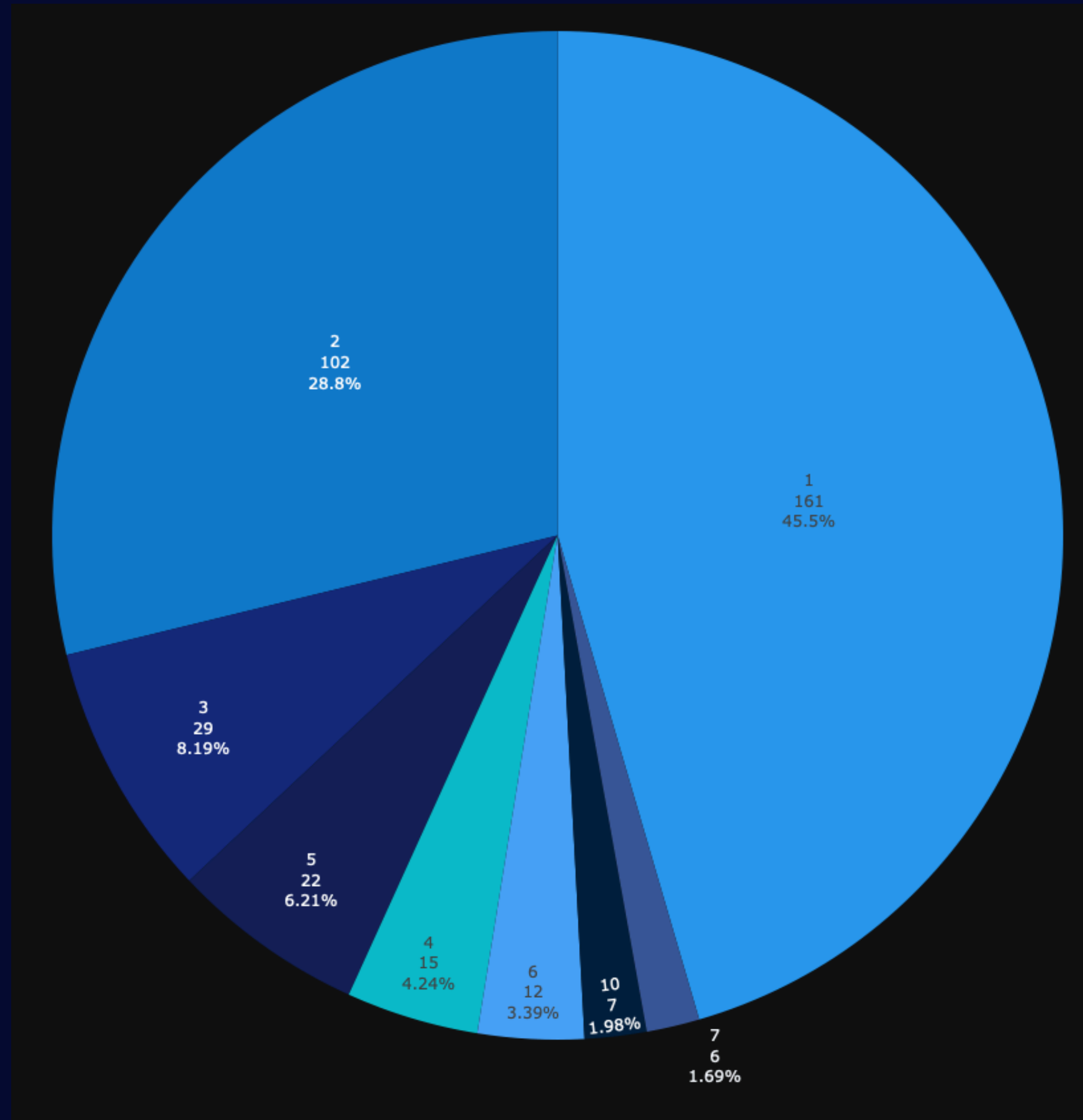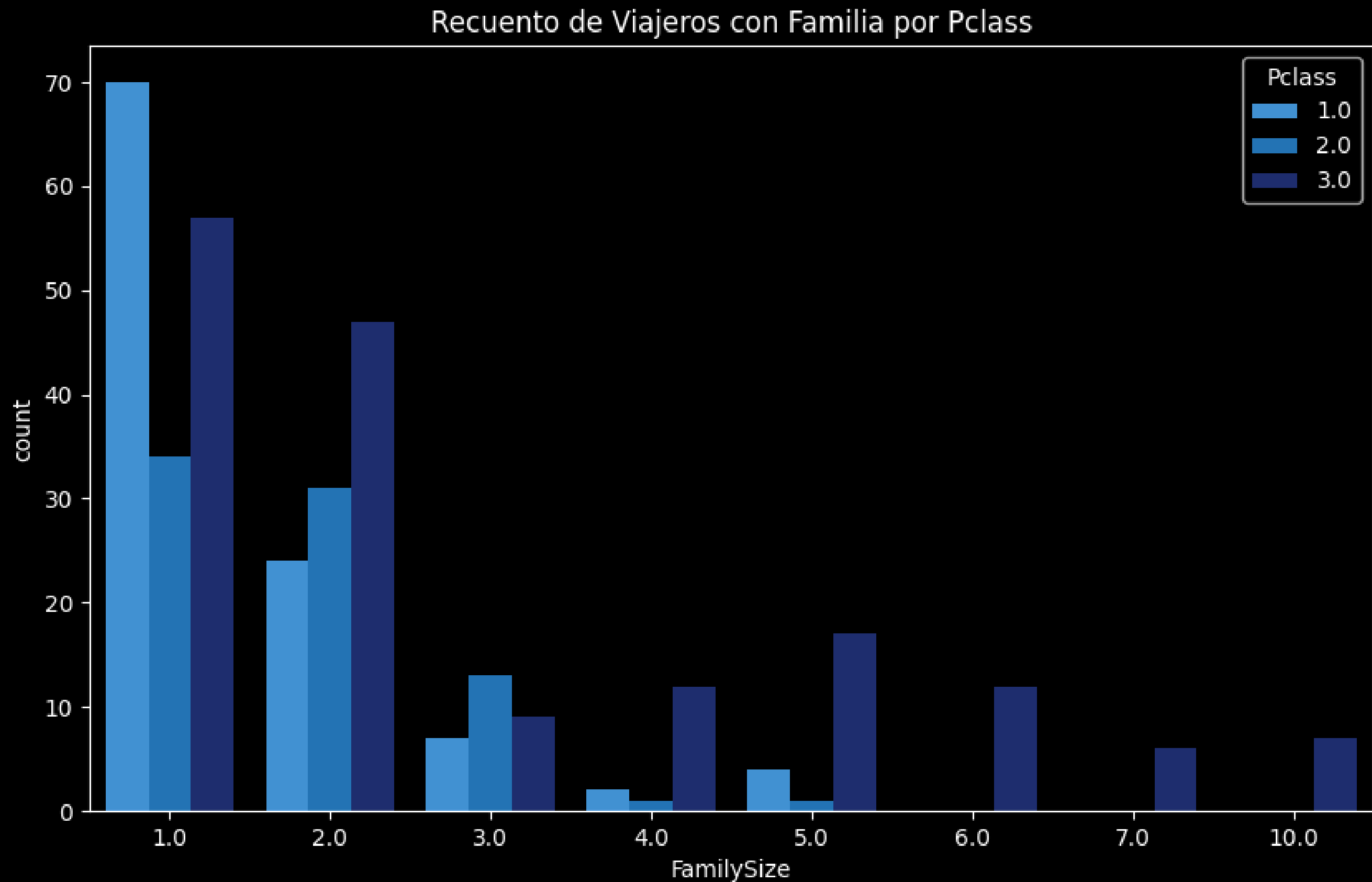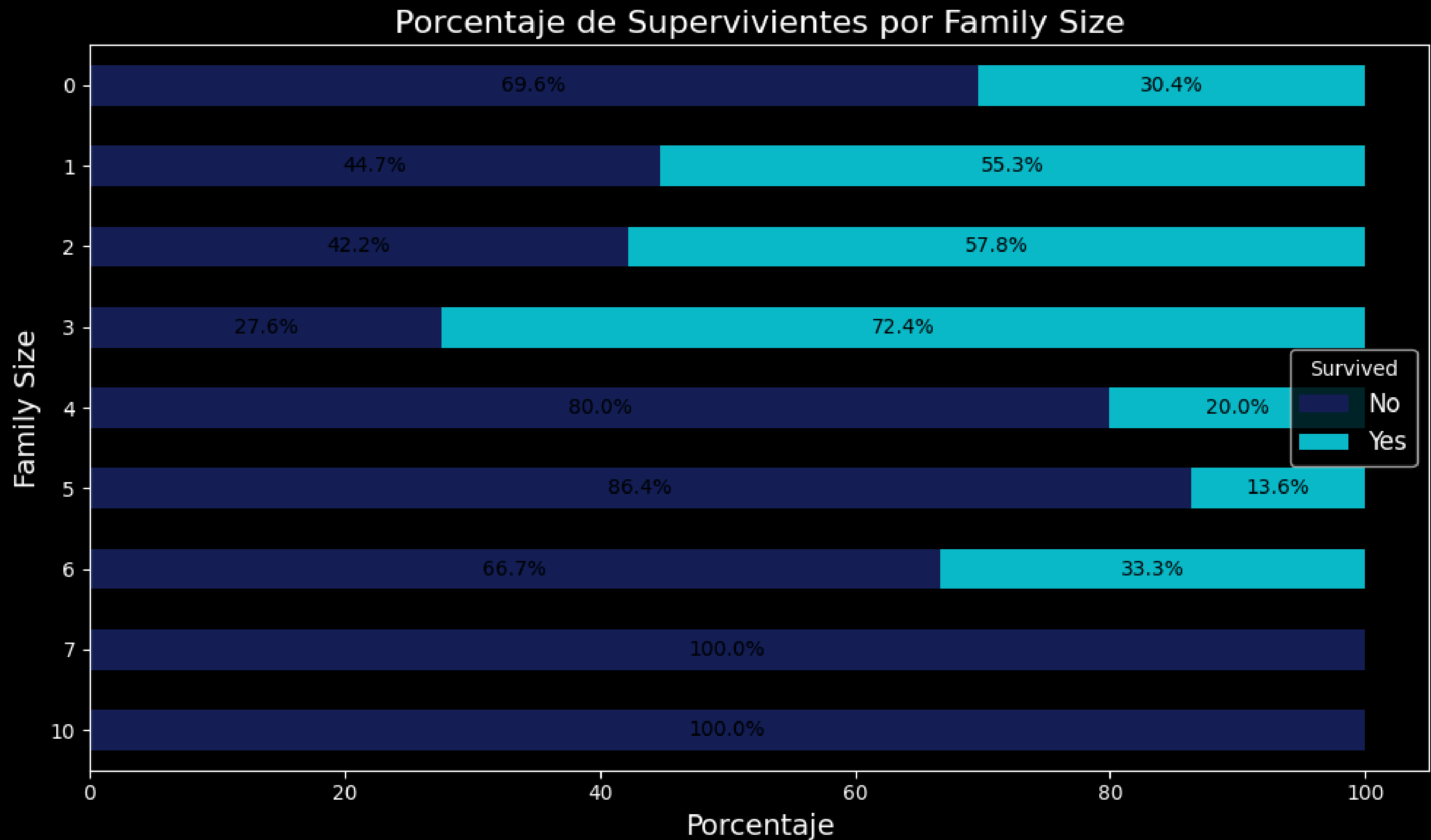## 60.27%

Alone rate

The Family Size / Alone is related to the Survival Rate?

The Family Size / Alone is related to the Survival Rate?

The Family Size / Alone is related to the Survival Rate?

Recuento de Viajeros con Familia por Pclass

The Family Size / Alone is related to the Survival Rate?

The Family Size / Alone is related to the Survival Rate?

Porcentaje de Supervivientes por Family Size

Family Size	No	Yes
0	69.6%	30.4%
1	44.7%	55.3%
2	42.2%	57.8%
3	27.6%	72.4%
4	80.0%	20.0%
5	86.4%	13.6%
6	66.7%	33.3%
7	100.0%	
10	100.0%	

Survived: No, Yes

Porcentaje

Conclusions

1 Embarked: no significant difference in the ratios

2 Pclass: higher survival rate on 1st Class

3 Fare: closely related to Pclass

4 Alone: no significant difference in the ratios

5 Family Size: small size families had higher rates

Find here the data analysis

https://github.com/condategui