Titanic

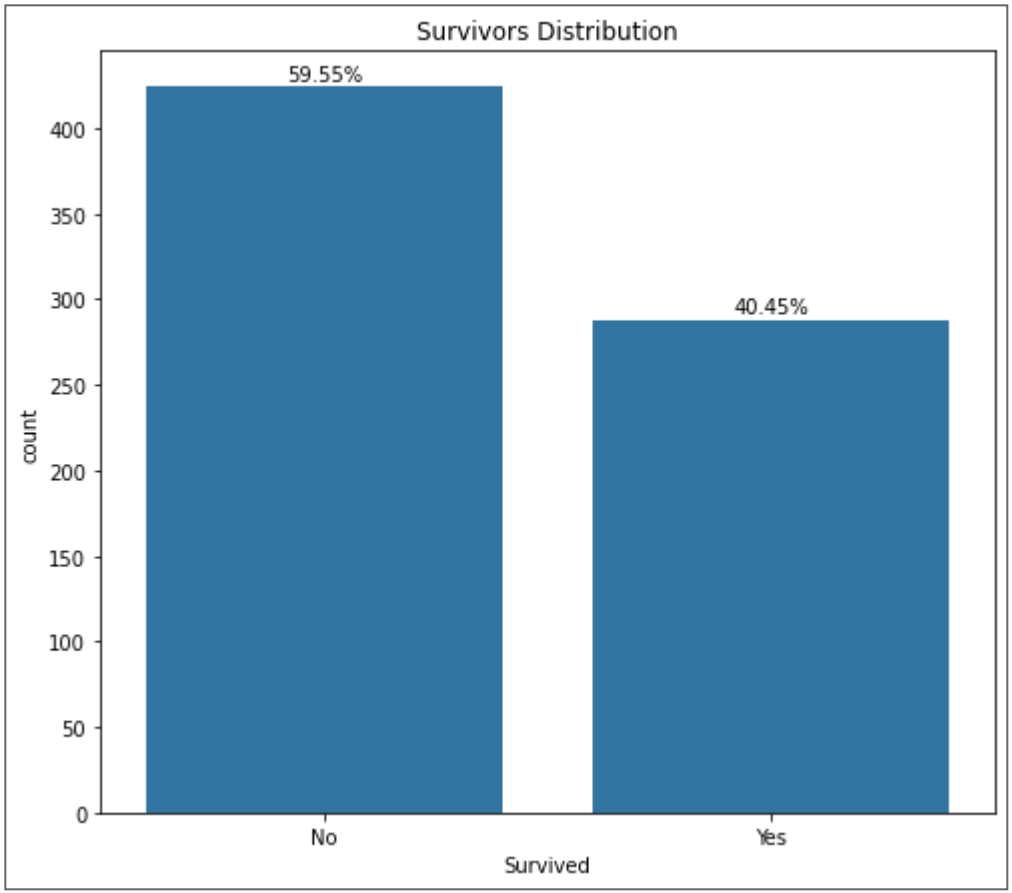
I've choose this dataset for the visualizations Project to communicate data findings. this dataset have records of the passengers who were in the Titanic backthen, it's from kaggle and it's manly for machine learning. but i find it very neat and will be good for the visualizations purpurses of this project as i manged to get intersiting qustions as listd below

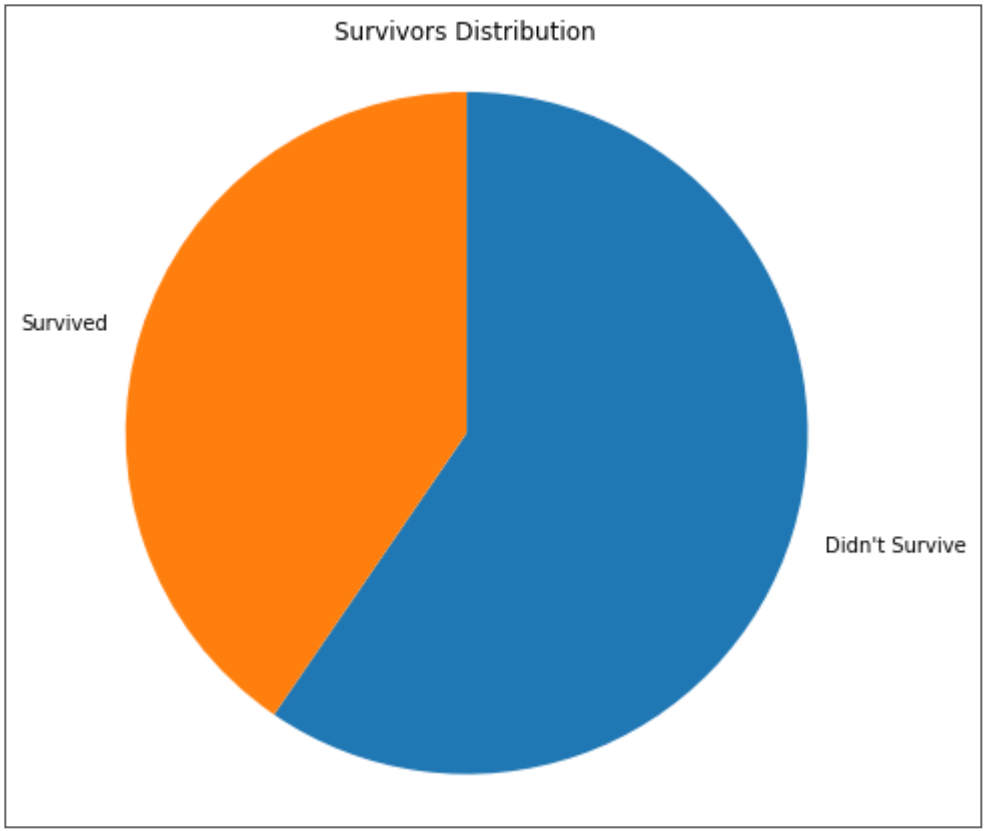
Questions

- Did most people surived or not ?
- What factors affects the chance of survivng ?
- Do higher classes have higher chances of surviving ?
- Who have more chance of survivng, men or women ?
- Do solo travellers have less chances of survivng ?
- Do yenger people have more chance of survivng ?
- Do wealthier people have more chance of surviving ?

Did most people surived or not ?

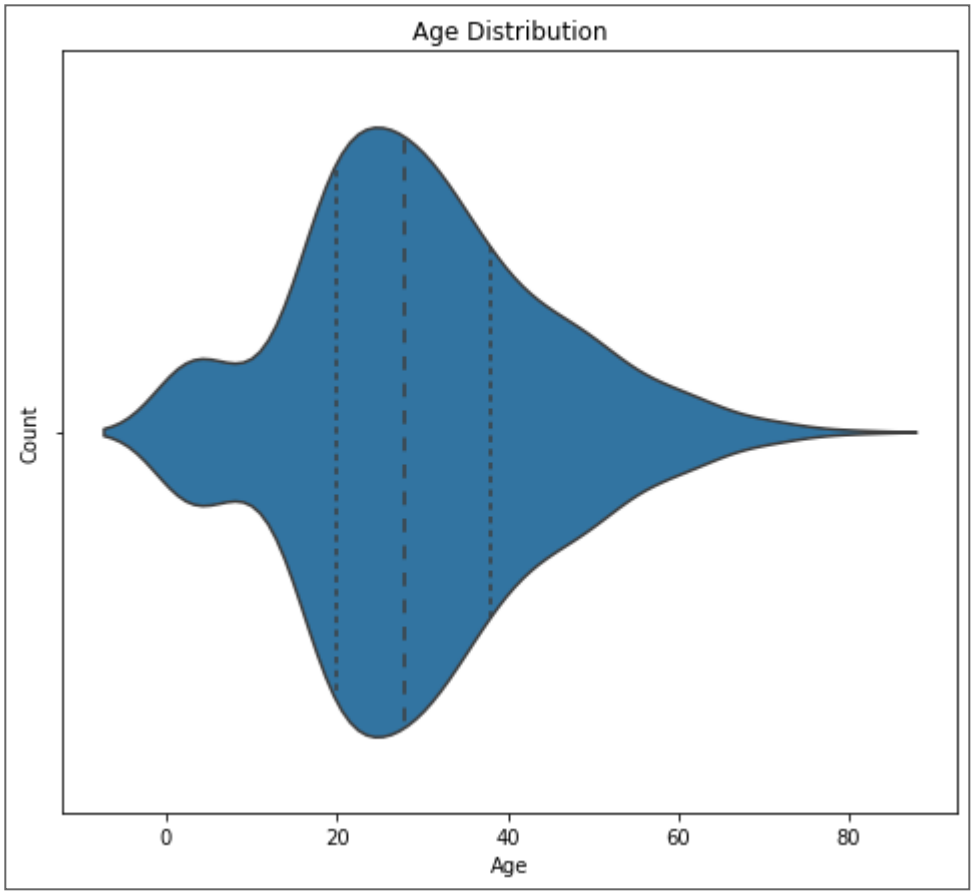
it turned out that most people didn't survived, 424 didn't and 288 did.


Survivors Distribution
59.55%
40.45%
count
0
50
100
150
200
250
300
350
400
No
Yes
Survived

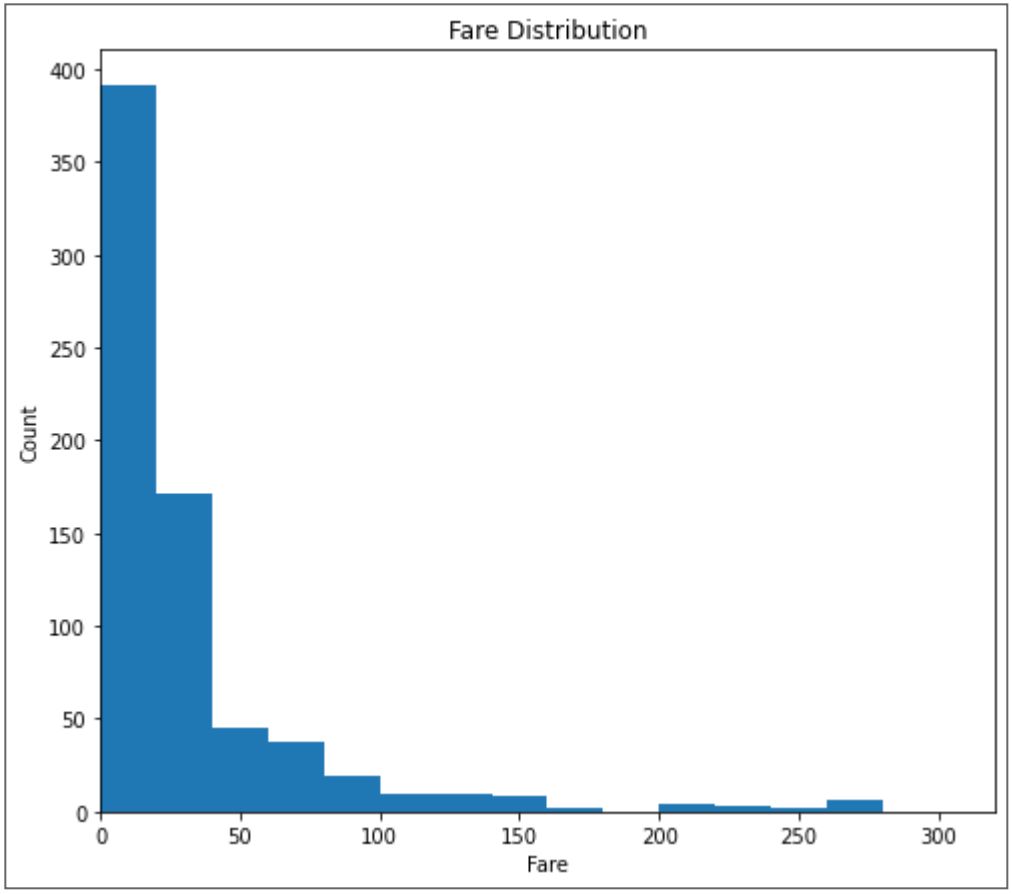

Survivors Distribution
Survived
Didn't Survive

Age Distribution

The majority are between 20 and 40


Age Distribution
Count
0
20
40
60
80
Age

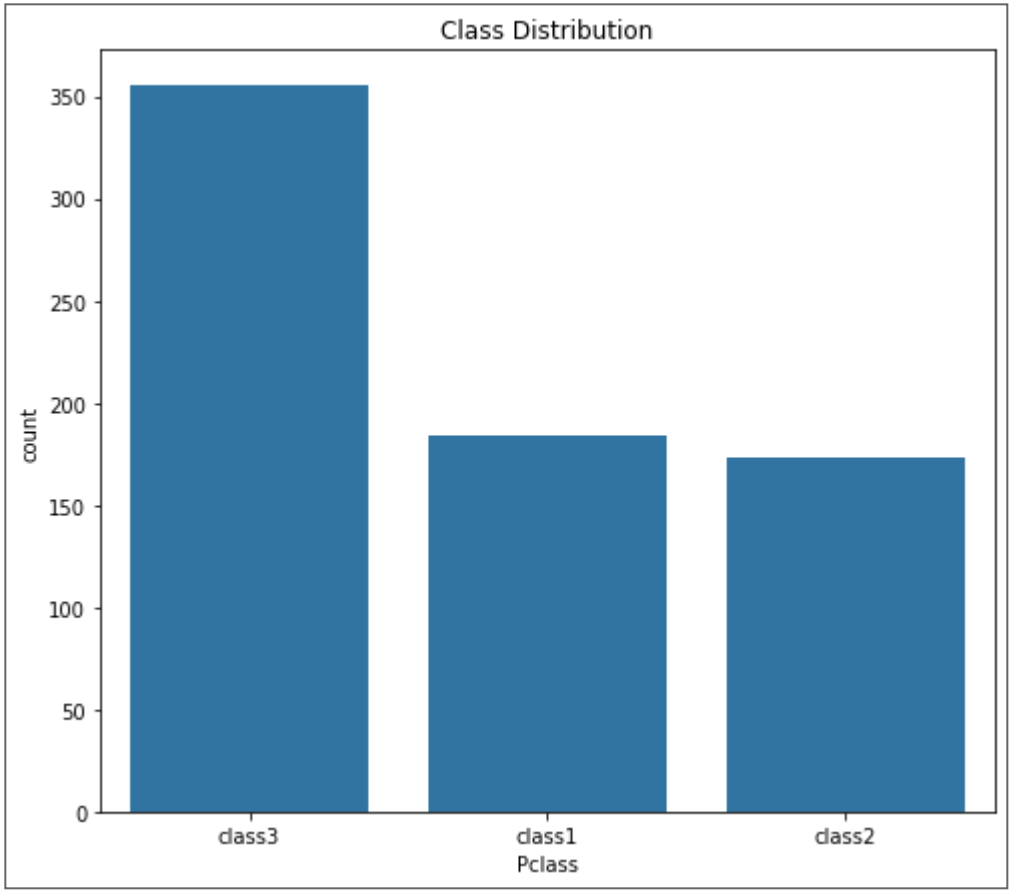
Fare Distribution


Fare Distribution
Count
Fare
0
50
100
150
200
250
300
400
350
300
250
200
150
100
50
0

The Fare data is squeed to the right and this is tipicly normal with the finance stuff. the majorty are in the left (low fare)(majority of people), and small group of people with high fare to the left.

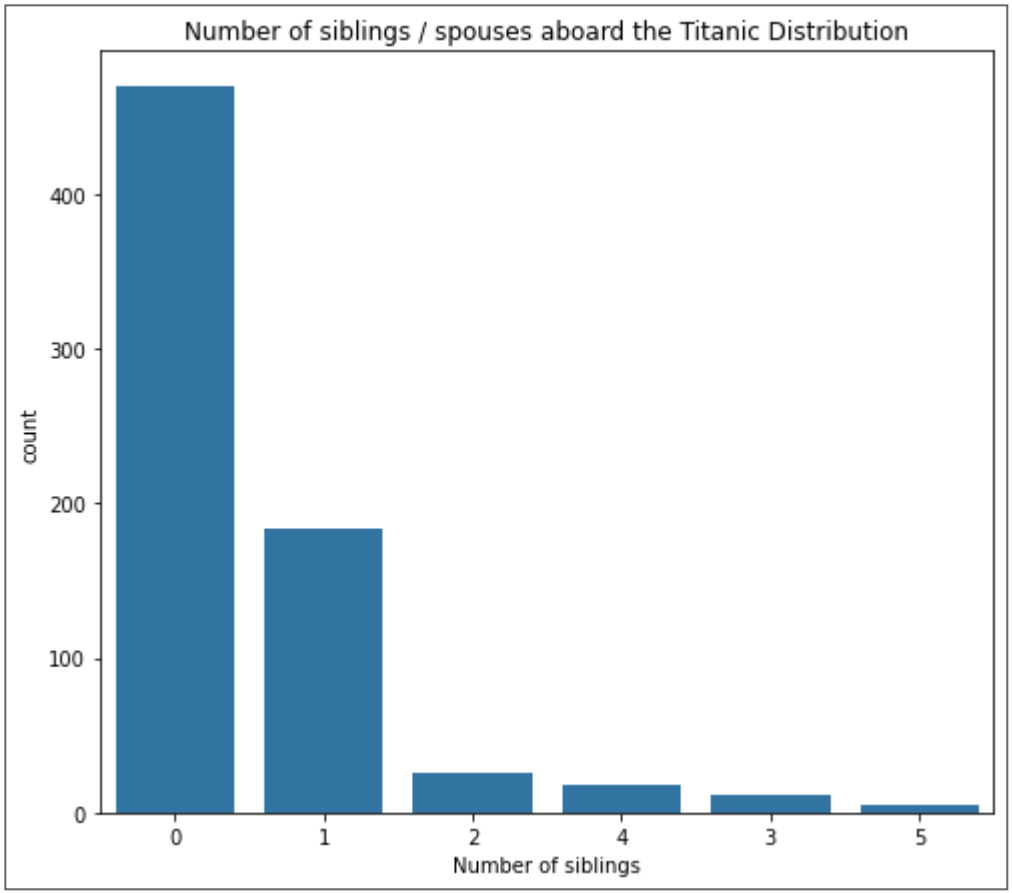
Class Distribution

Majority of people are from class 3 (expected)

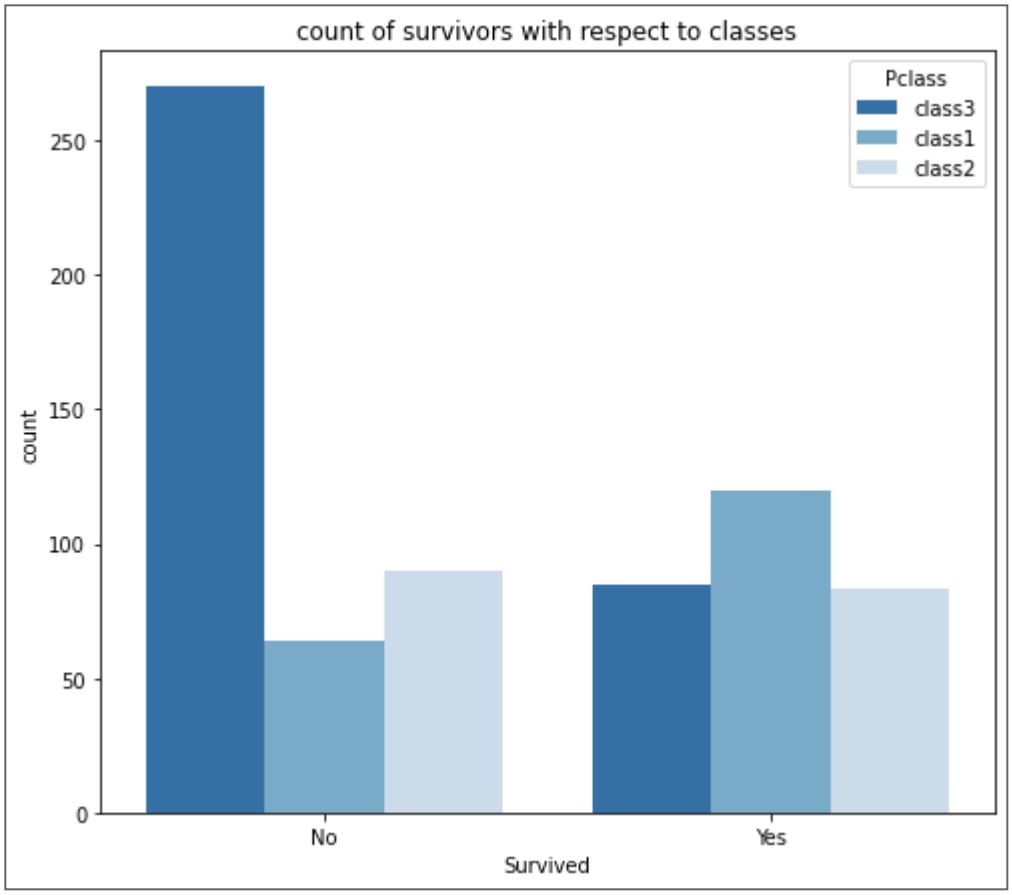

Class Distribution
count
350
300
250
200
150
100
50
0
class3
class1
class2
Pclass

Number of siblings / spouses aboard the Titanic Distribution

majority doesn't have siblings


Number of siblings / spouses aboard the Titanic Distribution
count
0
100
200
300
400
0
1
2
4
3
5
Number of siblings

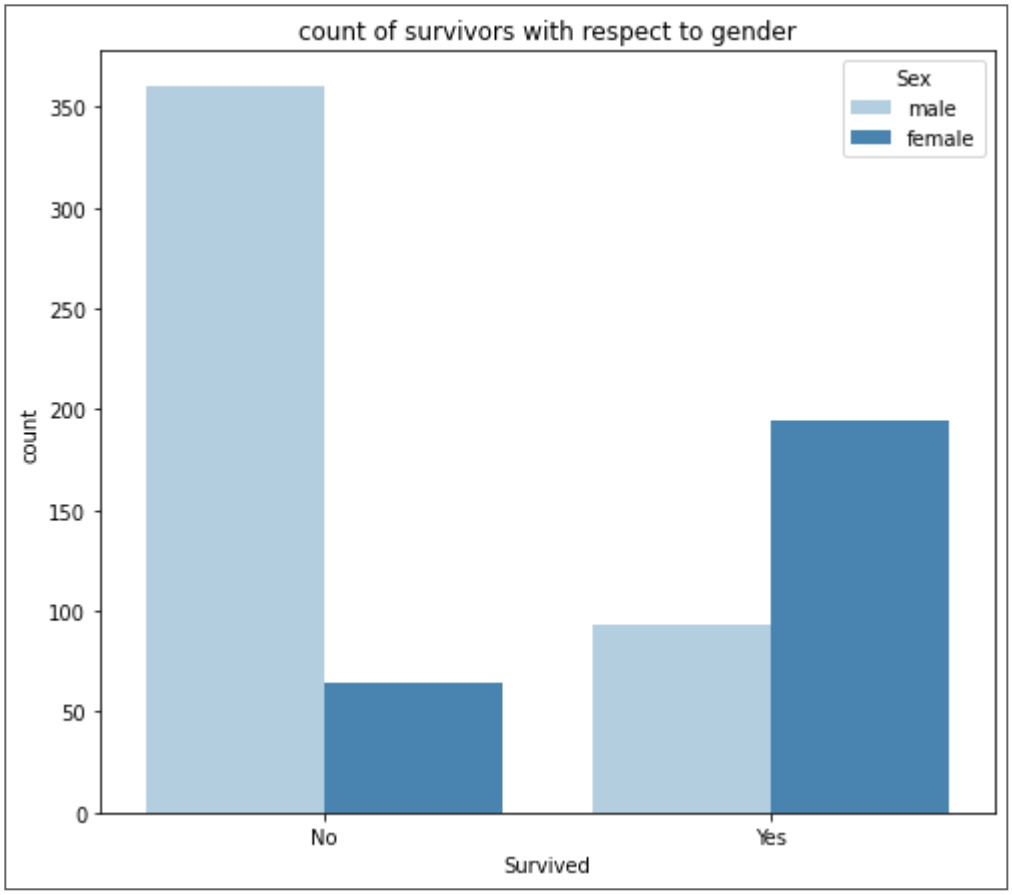
Does higher classes have higher chances of surviving ?


count of survivors with respect to classes
Pclass
class3
class1
class2
250
200
150
100
50
0
count
No
Yes
Survived

- we can see that the highst class class1 has the highst surviving rate, while the lowest class class3 has the lowest survivng rate
- majority of people in class3 didn't survived

Who have more chance of survivng, men or women ?

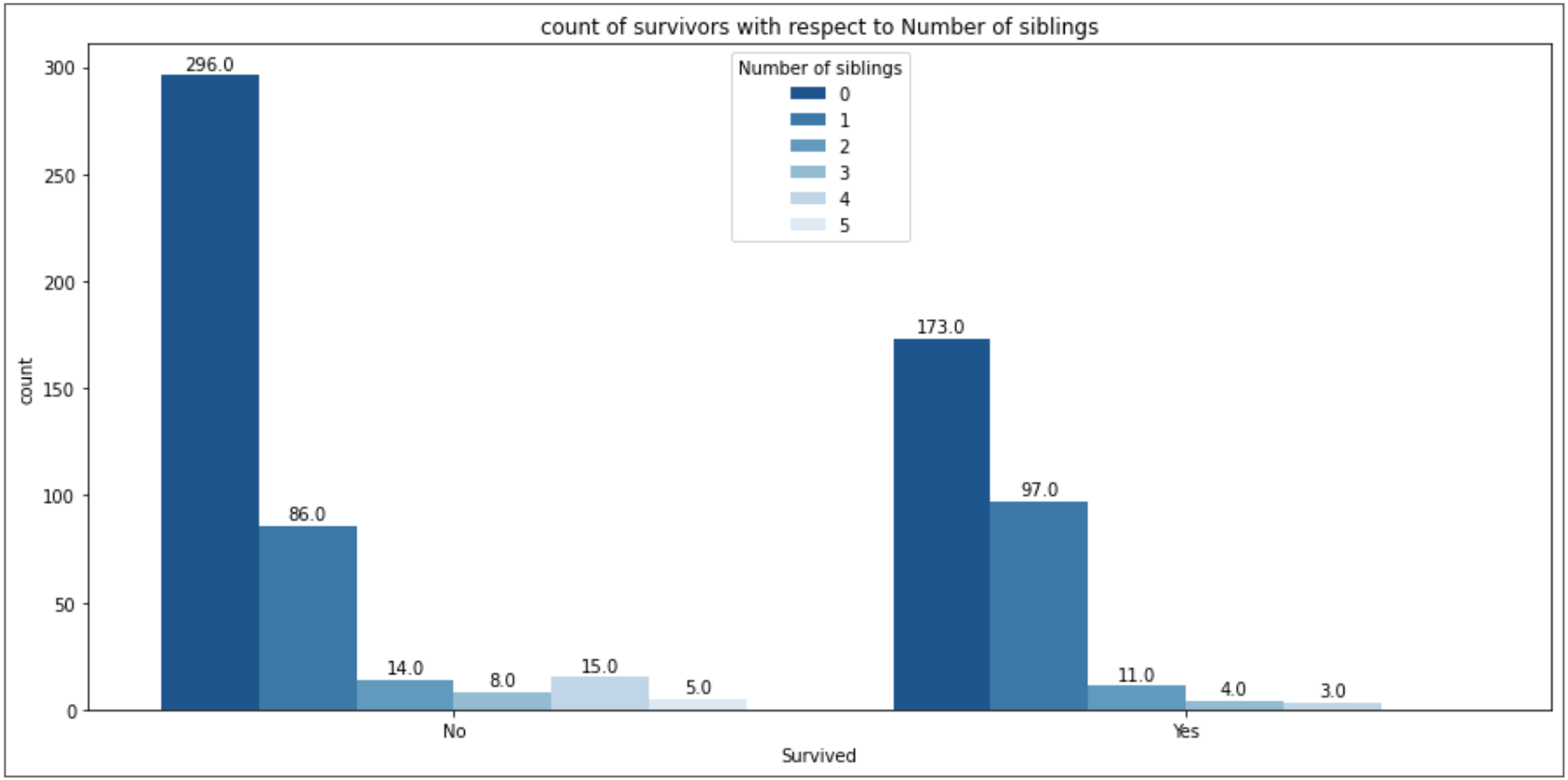
okay, this has surprised me. it seems like women have higher chance of survivng.
most men didn't make it out alive :'


count of survivors with respect to gender
Sex
male
female
350
300
250
200
150
100
50
0
count
No
Yes
Survived

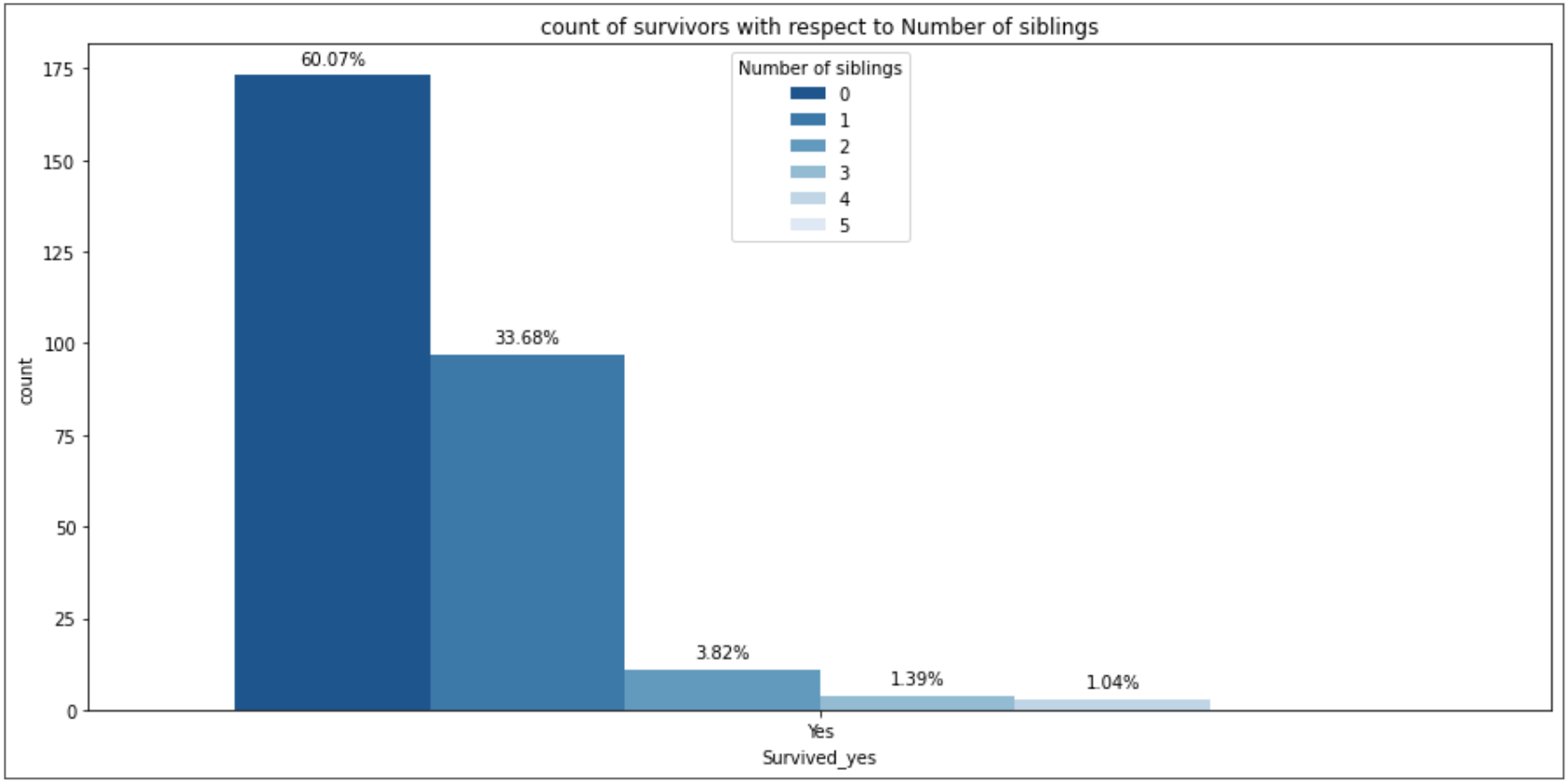
Does solo travellers have less chances of survivng ?

solo travellers have the most surviving records and not surviving too.
60% of survivors were solo travellers, 69.81% of people who didn't make it out alive were solo travellers.
but only 40.5% total survived, and 59.5% died. **so yes, solo travellers have less chances of survivng**
having family

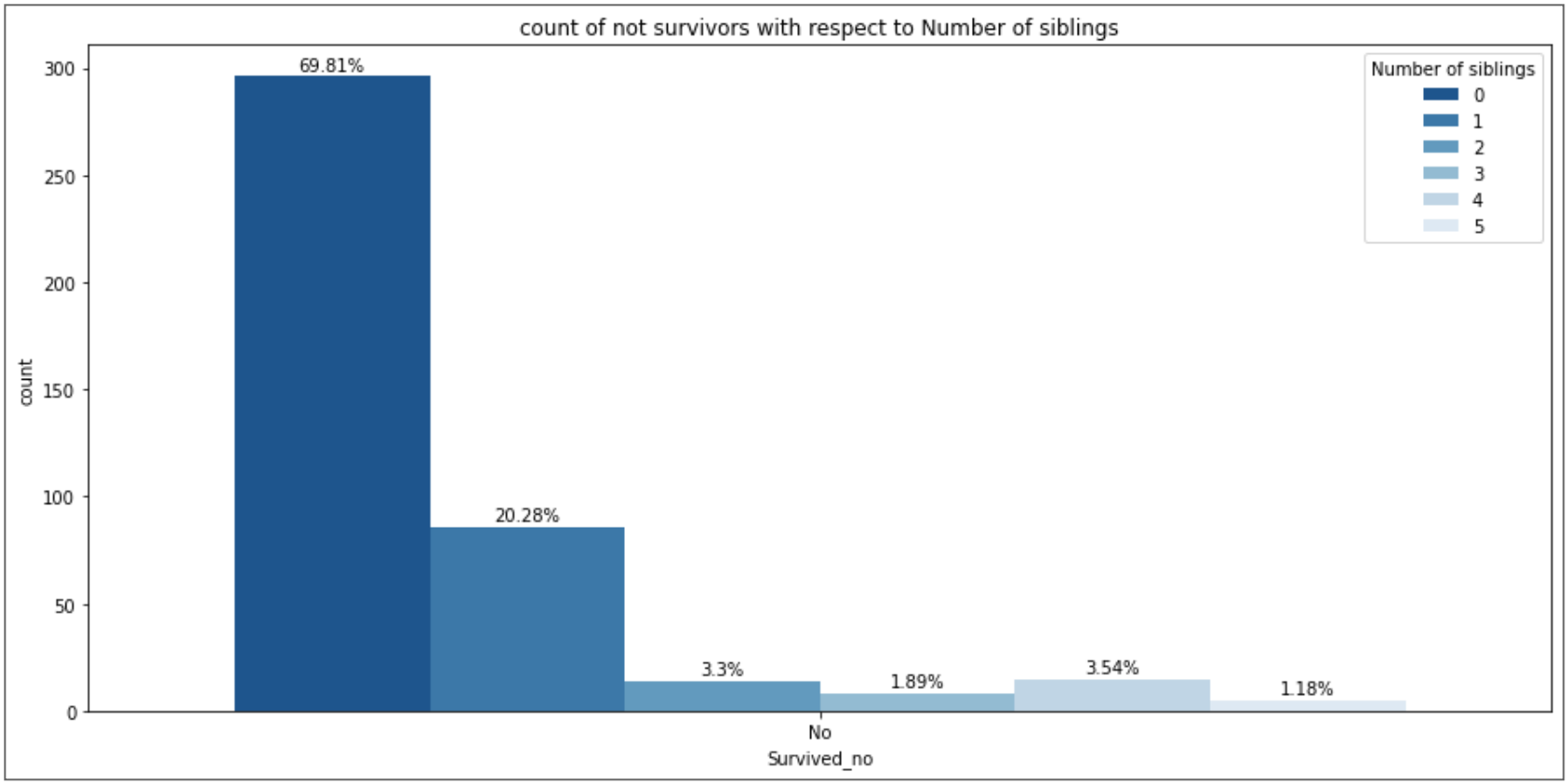
posx and posy should be finite values
posx and posy should be finite values



posx and posy should be finite values
posx and posy should be finite values



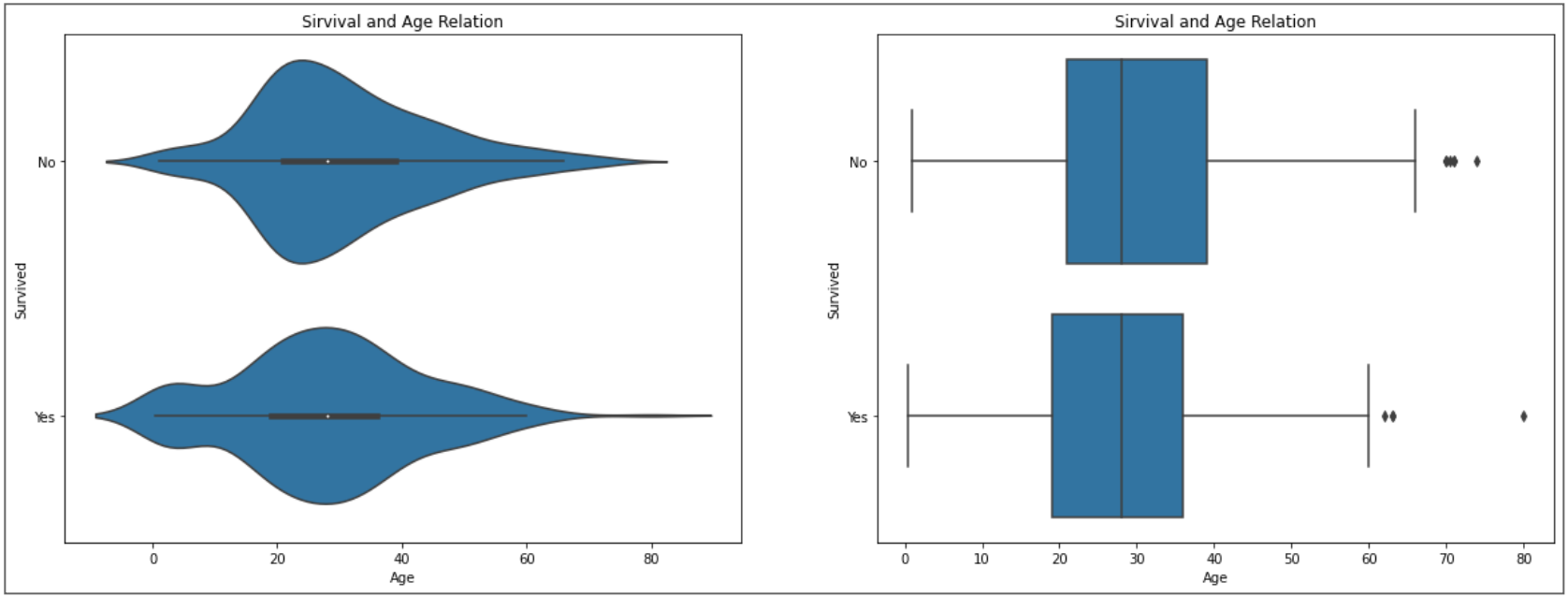
60% of survivors were solo travellers


count of not survivors with respect to Number of siblings
Number of siblings
0
1
2
3
4
5
count
300
250
200
150
100
50
0
69.81%
20.28%
3.3%
1.89%
3.54%
1.18%
No
Survived_no

we can see now that 60% of survivors were solo travellers, and 69.81% of people who didn't make it out alive were solo travellers

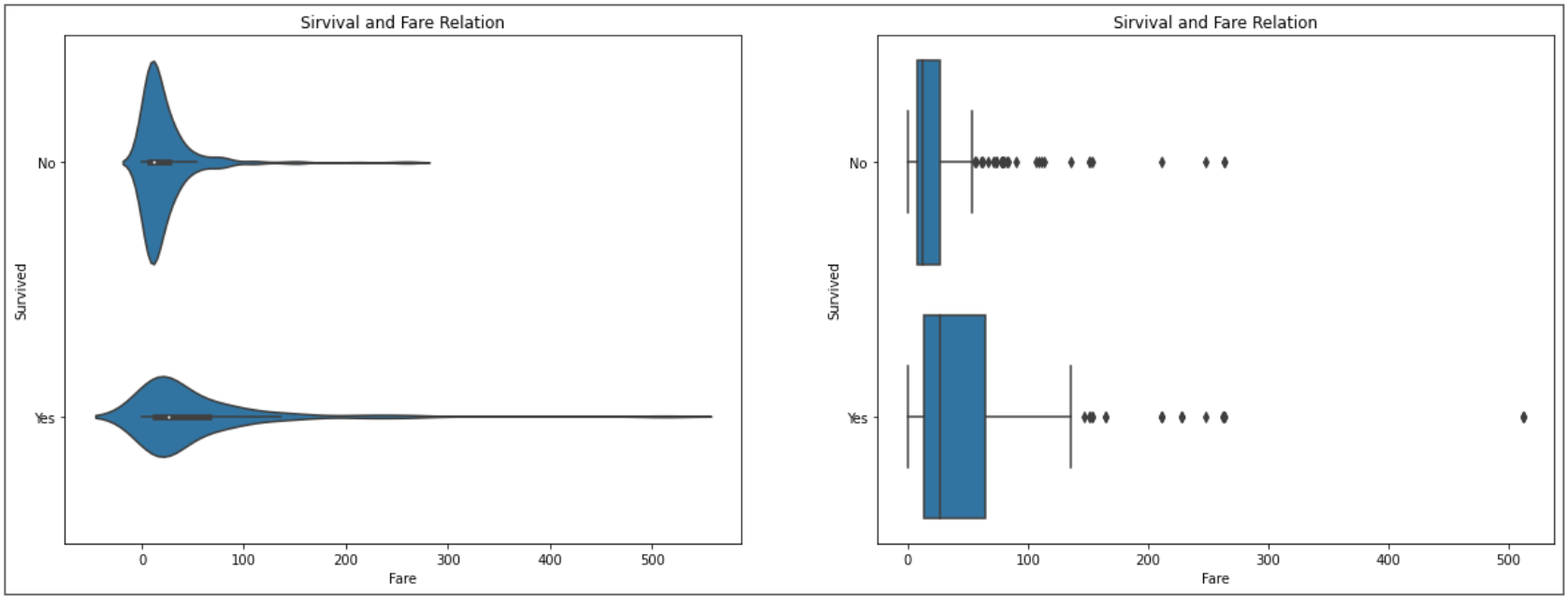
Do yenger people have more chance of survivng ?

yes

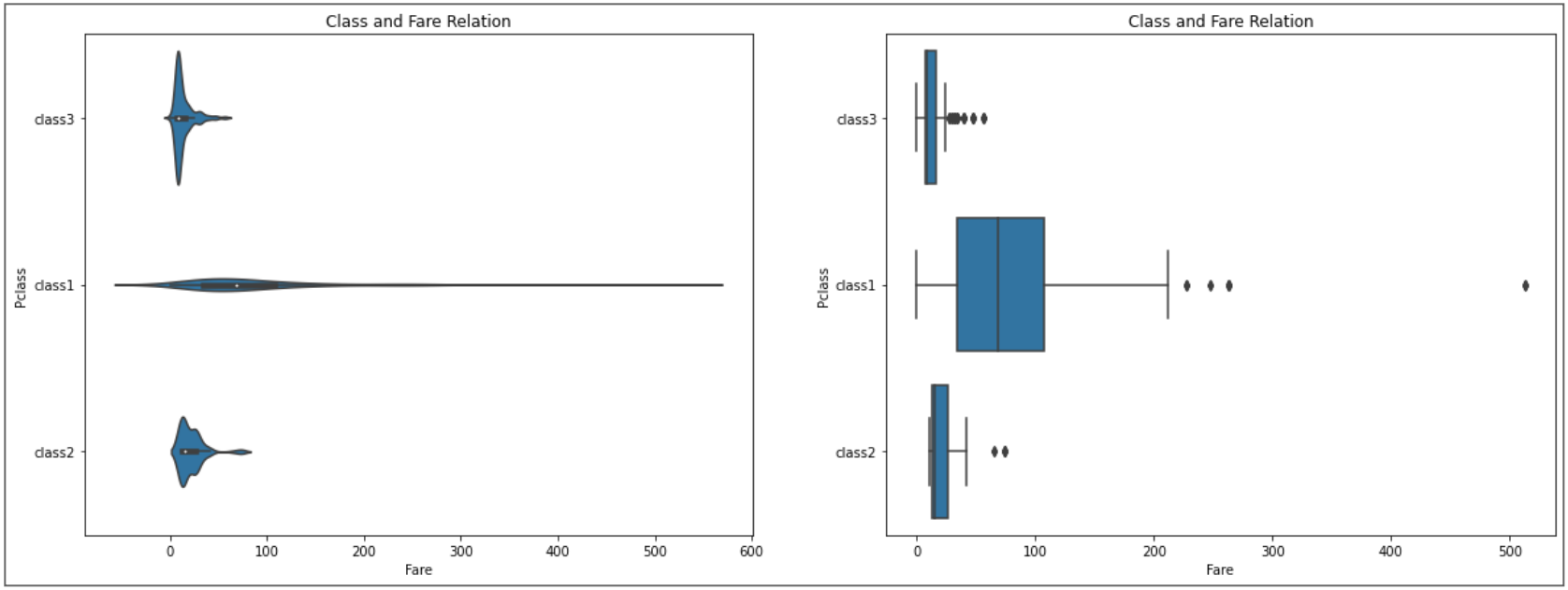

Sirvival and Age Relation
Survived
No
Yes
0
20
40
60
80
Age
Sirvival and Age Relation
Survived
No
Yes
0
10
20
30
40
50
60
70
80
Age

Do wealthier people have more chance of surviving ?

yes, as wealthier people are in higher classes

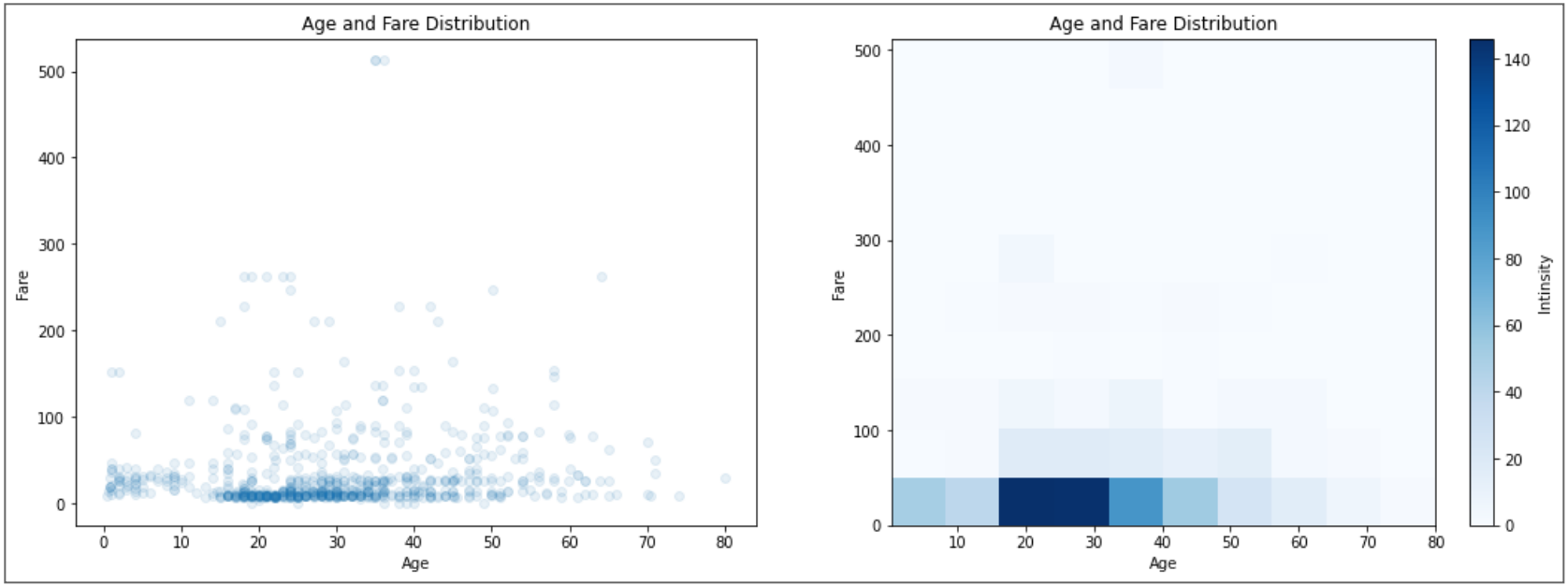

Sirvival and Fare Relation
No
Yes
Survived
0
100
200
300
400
500
Fare
Sirvival and Fare Relation
No
Yes
Survived
0
100
200
300
400
500
Fare

Yes wealthier people have more chance of surviving, as wealthier people are in higher classes


Class and Fare Relation
Pclass
class3
class1
class2
0
100
200
300
400
500
600
Fare
Class and Fare Relation
Pclass
class3
class1
class2
0
100
200
300
400
500
Fare

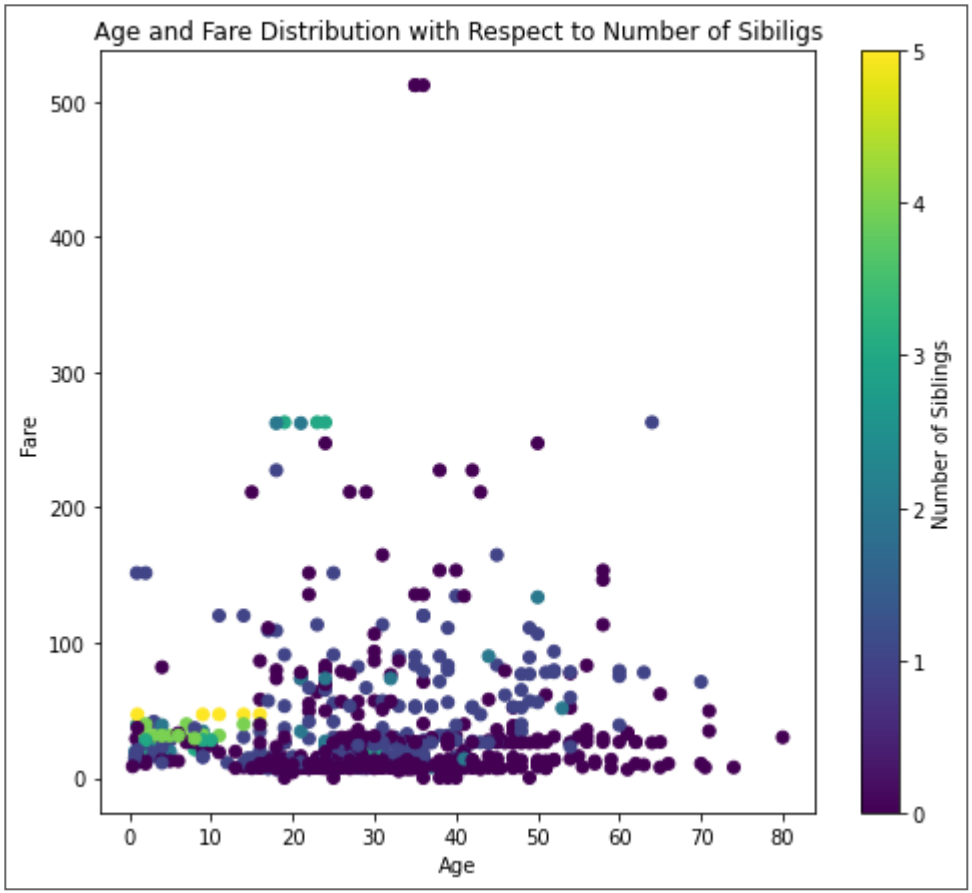
Age and Fare heat map

majority of people are with low badjet and with ages between 17 and 35


Age and Fare Distribution
Fare
Age
0
100
200
300
400
500
0
10
20
30
40
50
60
70
80
Age and Fare Distribution
Fare
Age
Intinsity
0
20
40
60
80
100
120
140

Number of Siblings with Respect to Age and Fare Distributions

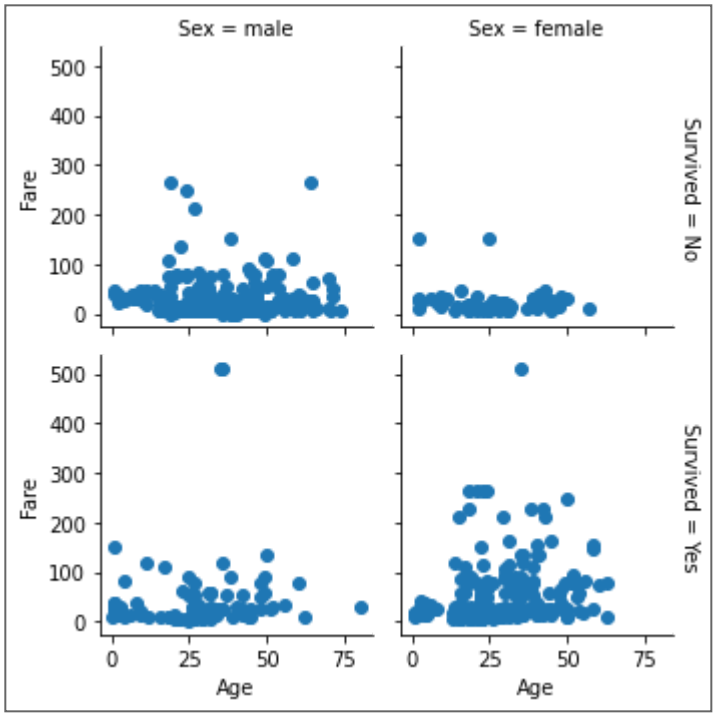
The lower the siblings number the lower the fare aproximatly


Age and Fare Distribution with Respect to Number of Sibiligs
Fare
Age
Number of Siblings
0
100
200
300
400
500
0
10
20
30
40
50
60
70
80
0
1
2
3
4
5

Age and Fare Distibution with respect to Gender and Survival

```
c:\users\eslam\appdata\local\programs\python\python37\lib\site-packages\seaborn\axisgrid.py:316: UserWarning: The `size` parameter has been renamed to `height`; please update your code.
  warnings.warn(msg, UserWarning)
```

```
<seaborn.axisgrid.FacetGrid at 0x24d6c38ba88>
```


Sex = male
Sex = female
Survived = No
Survived = Yes
Fare
Age
0
100
200
300
400
500
0
25
50
75

Most women who survived were with high fare