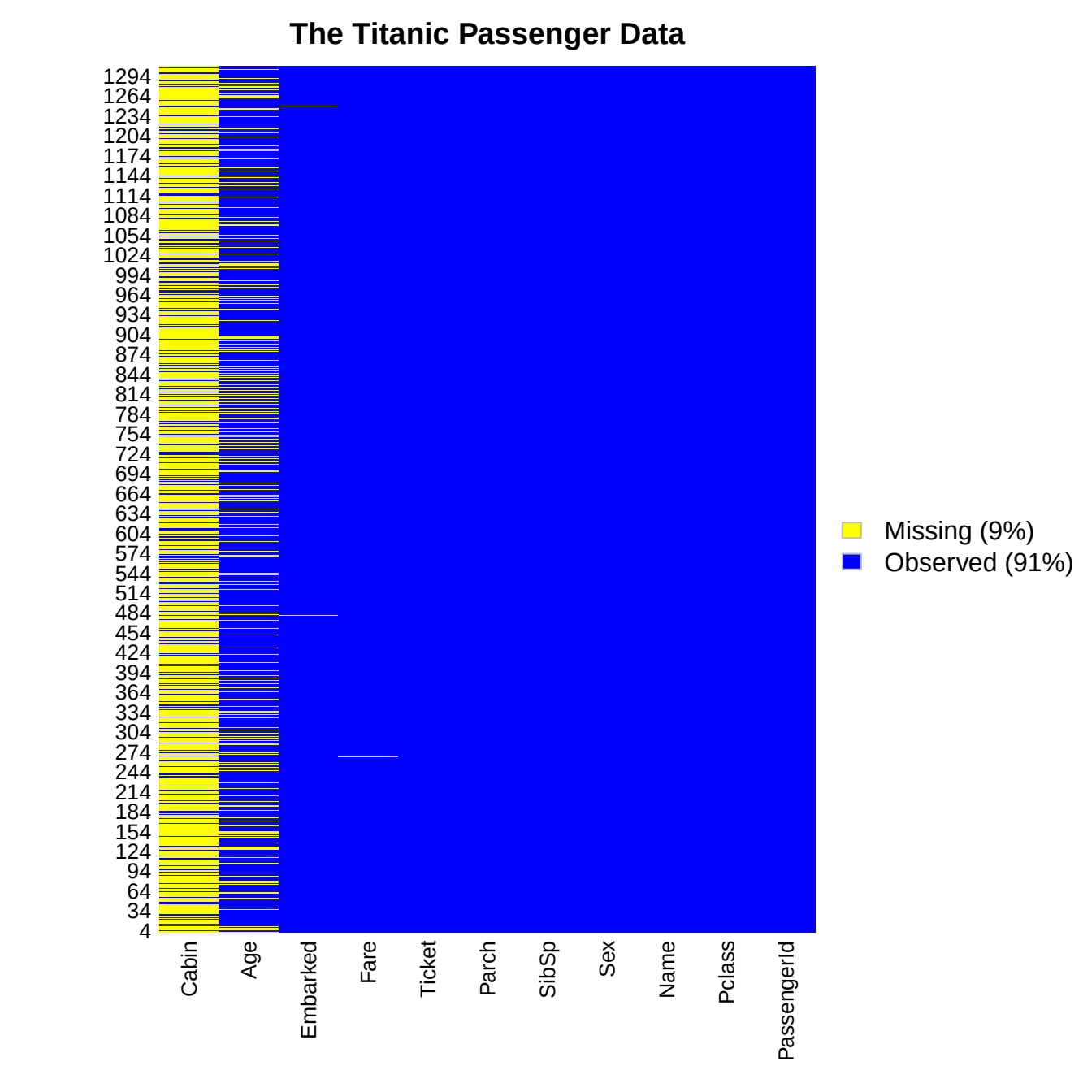
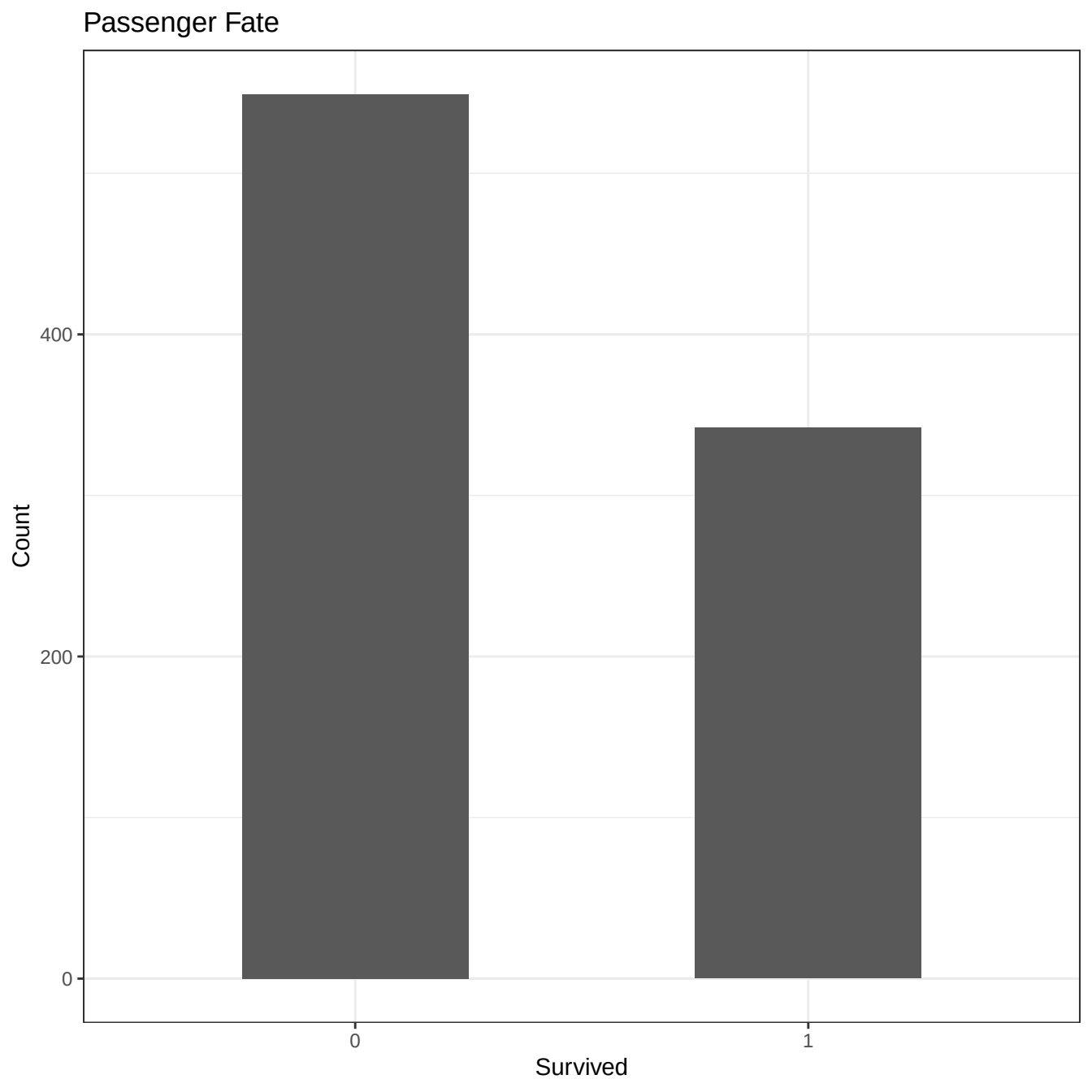
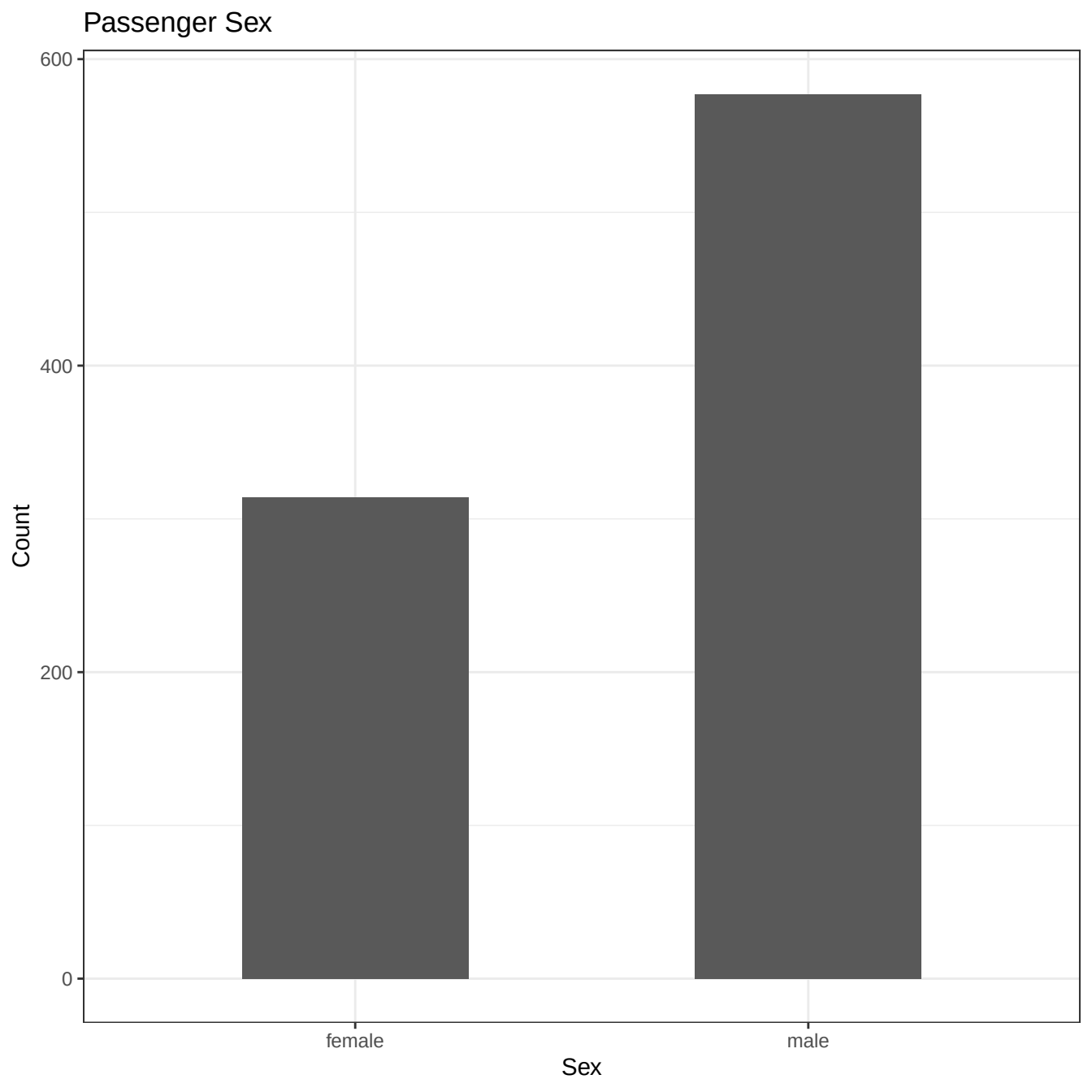
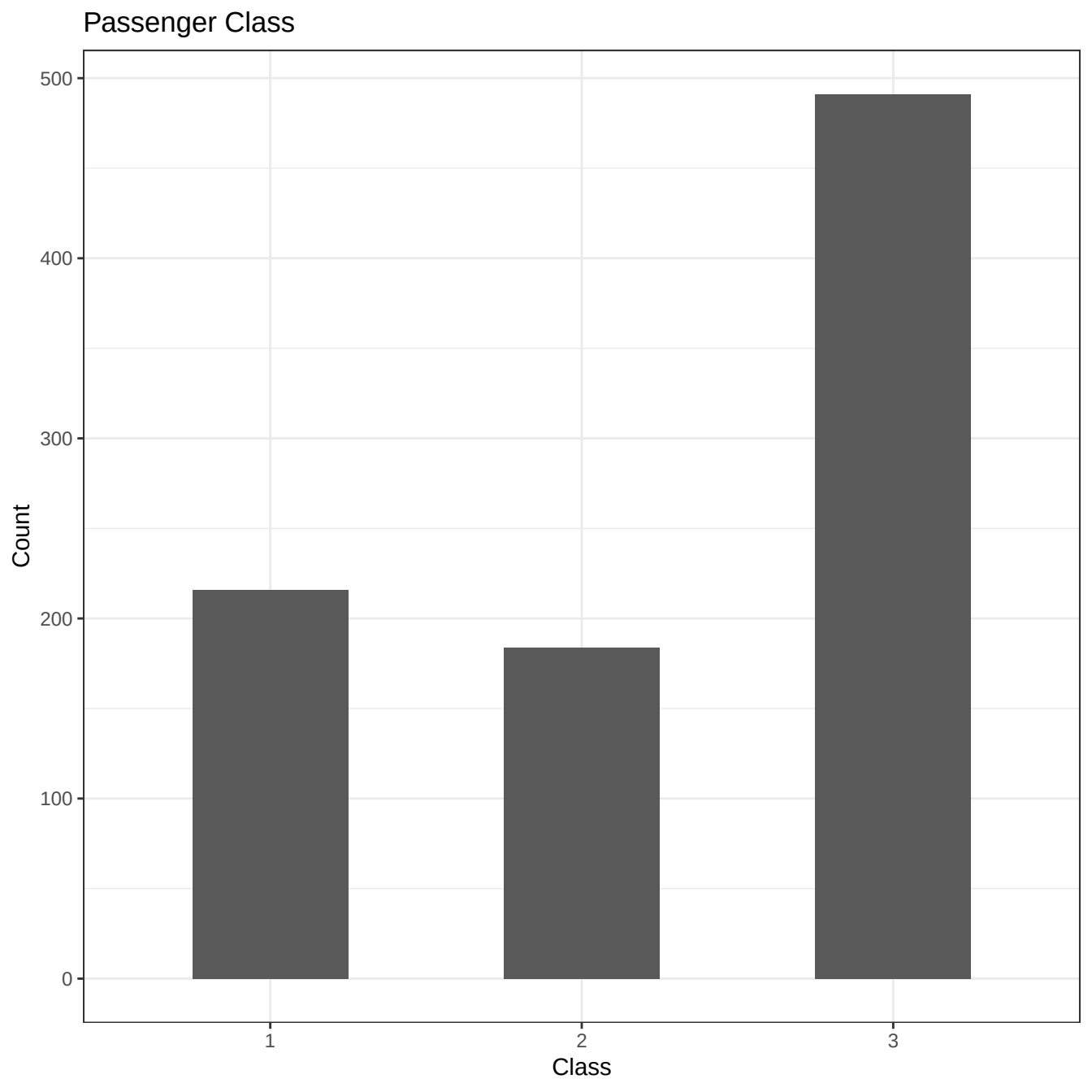
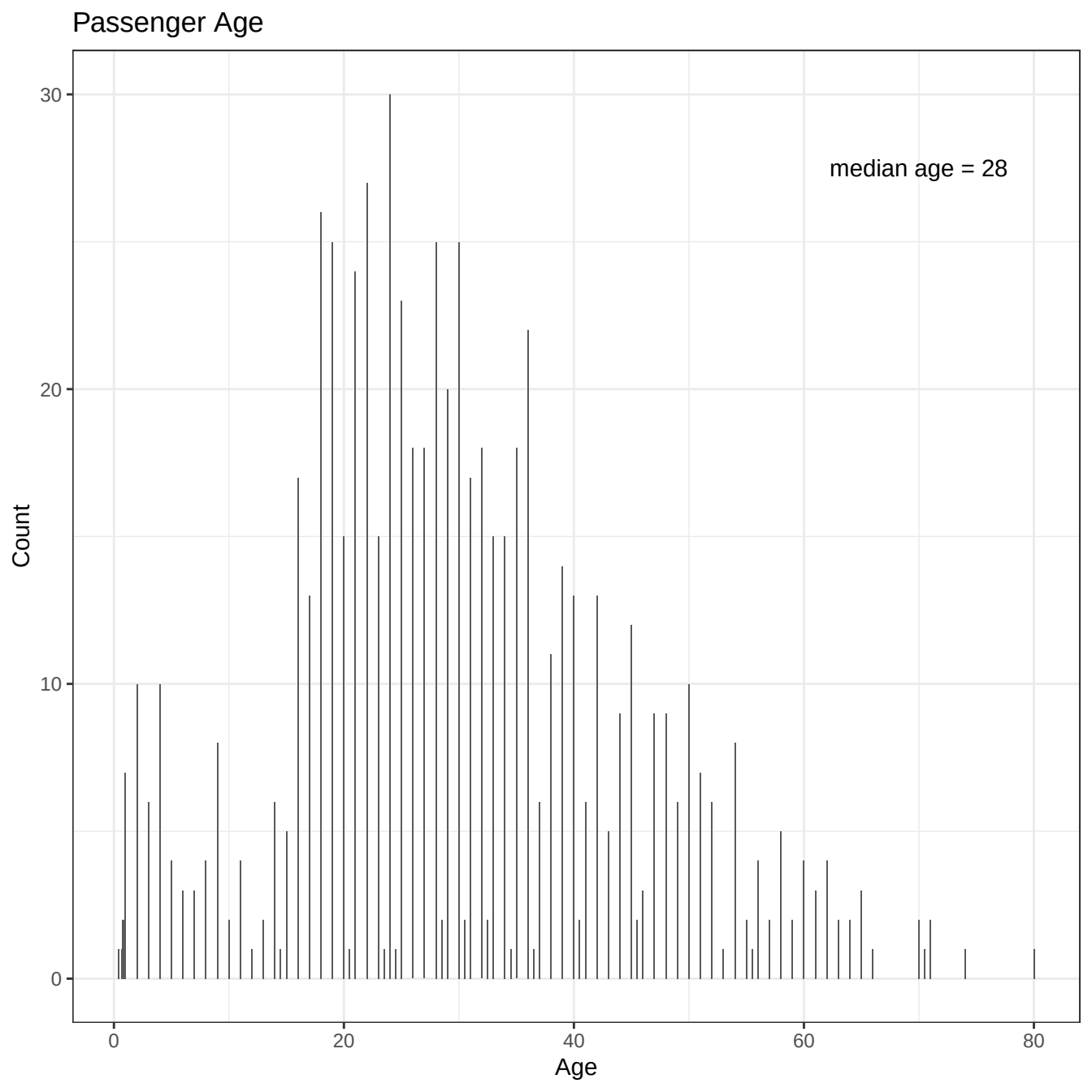
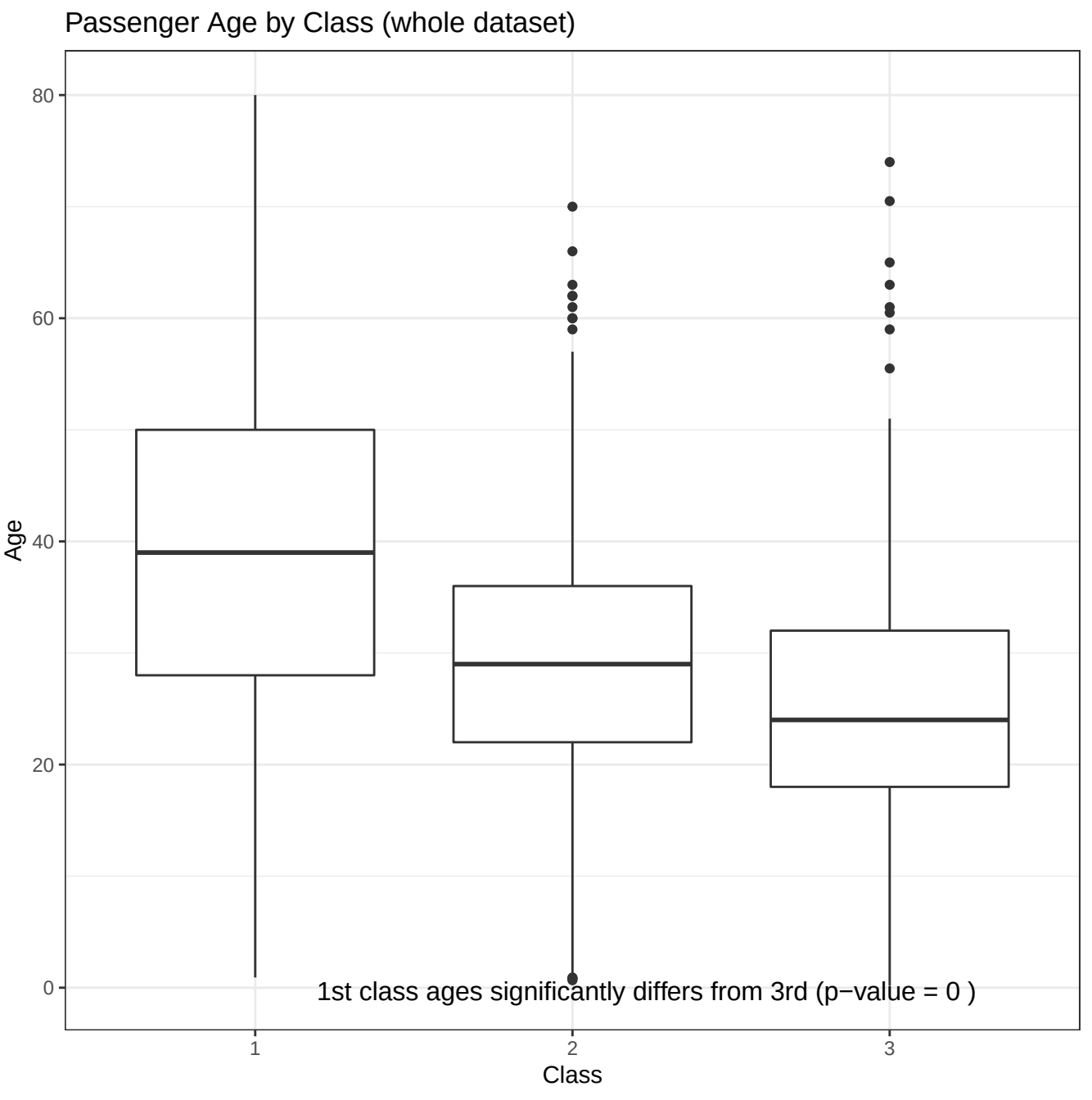

The Titanic Passenger Data
1294
1264
1234
1204
1174
1144
1114
1084
1054
1024
994
964
934
904
874
844
814
784
754
724
694
664
634
604
574
544
514
484
454
424
394
364
334
304
274
244
214
184
154
124
94
64
34
4
Cabin
Age
Embarked
Fare
Ticket
Parch
SibSp
Sex
Name
Pclass
PassengerId
Missing (9%)
Observed (91%)

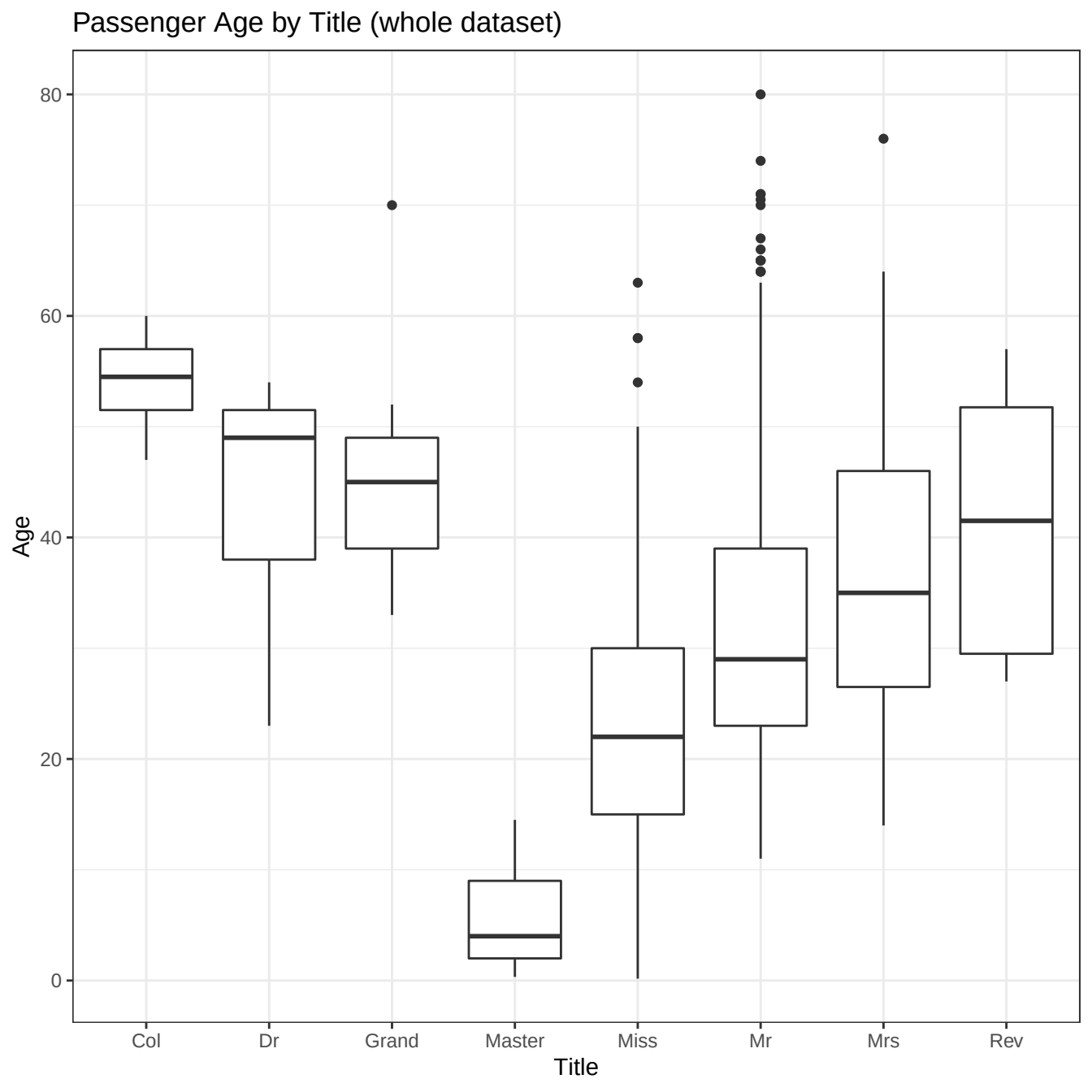

Passenger Fate
Count
400
200
0
0
1
Survived

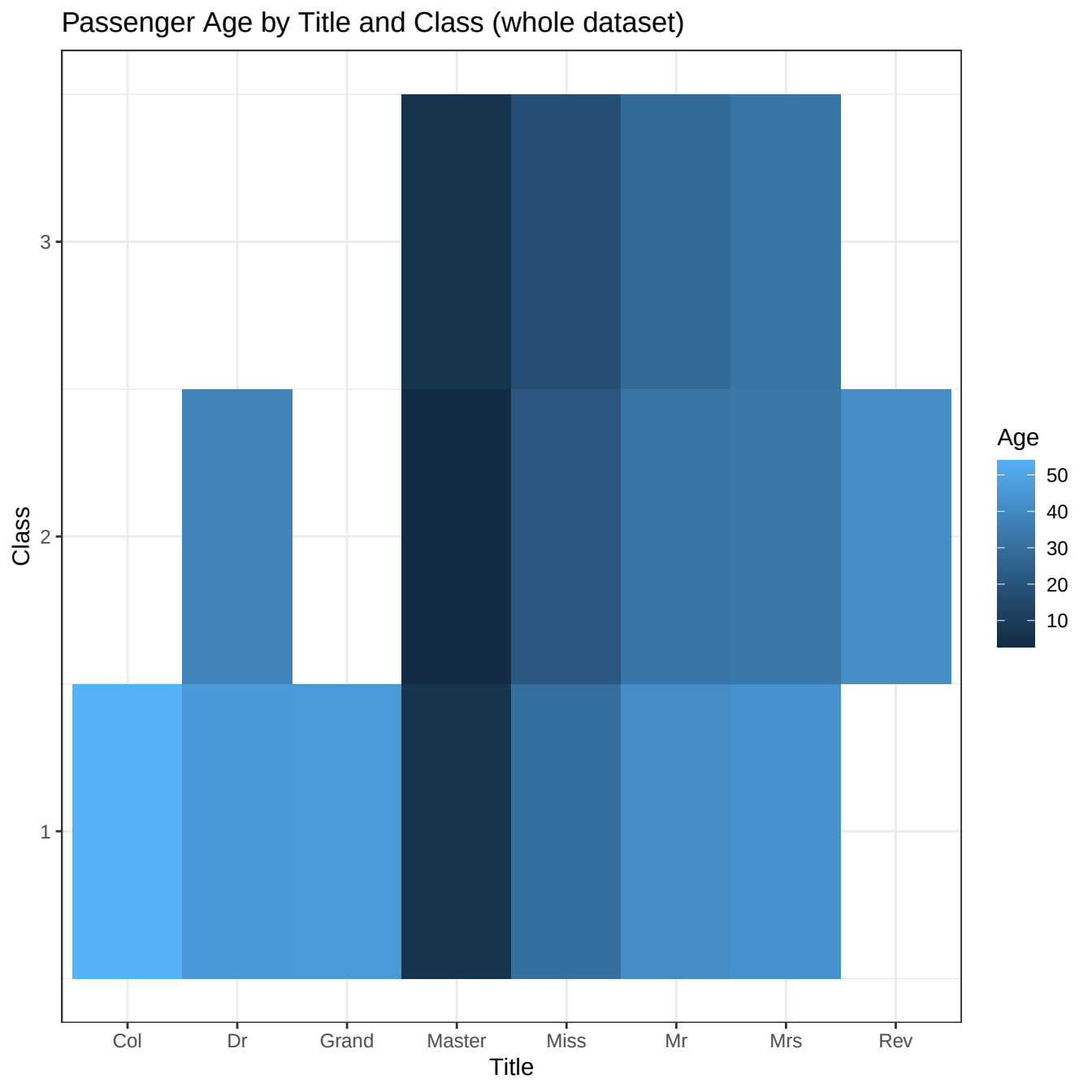

Passenger Sex
600
400
200
0
Count
female
male
Sex

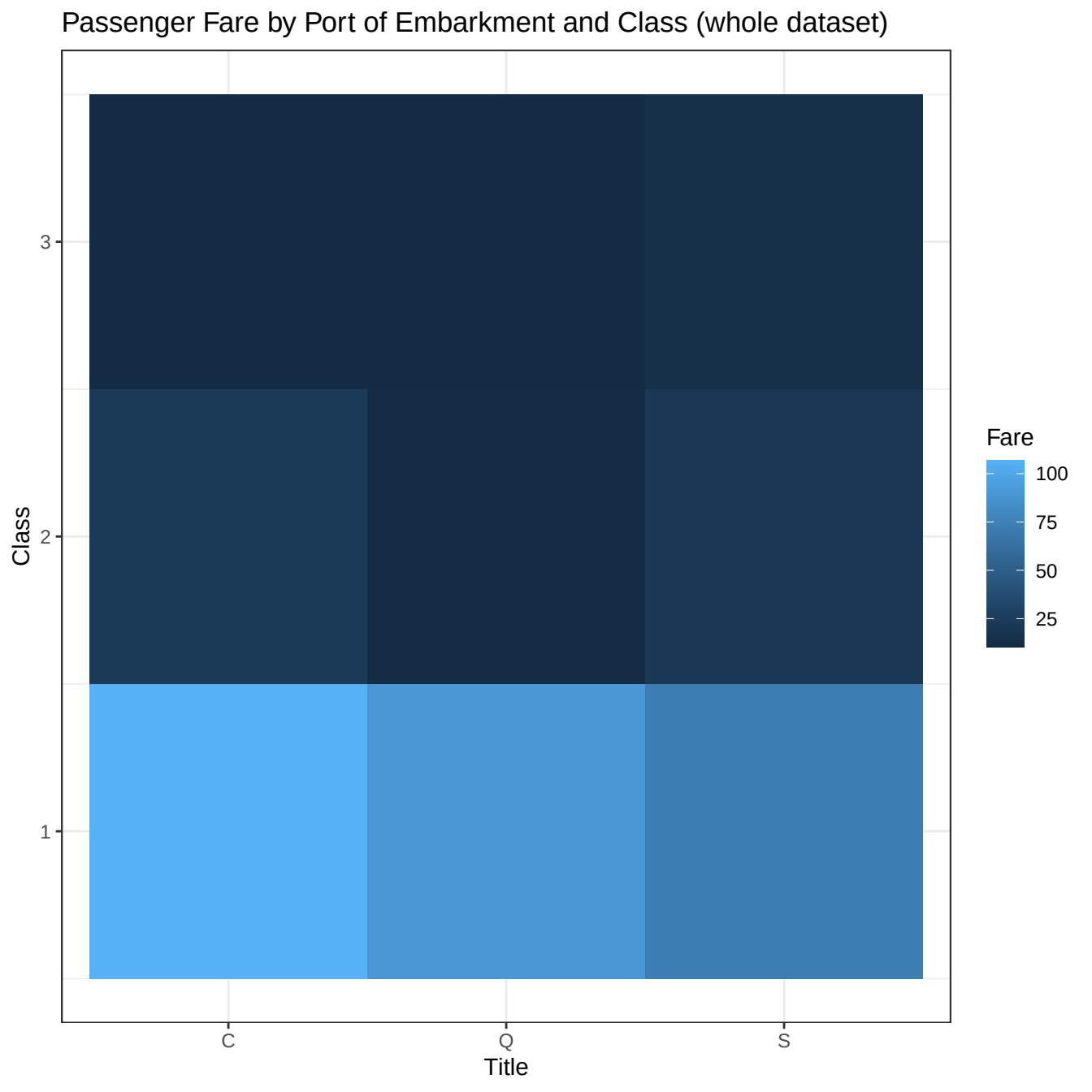

Passenger Class
500
400
300
200
100
0
Count
1
2
3
Class

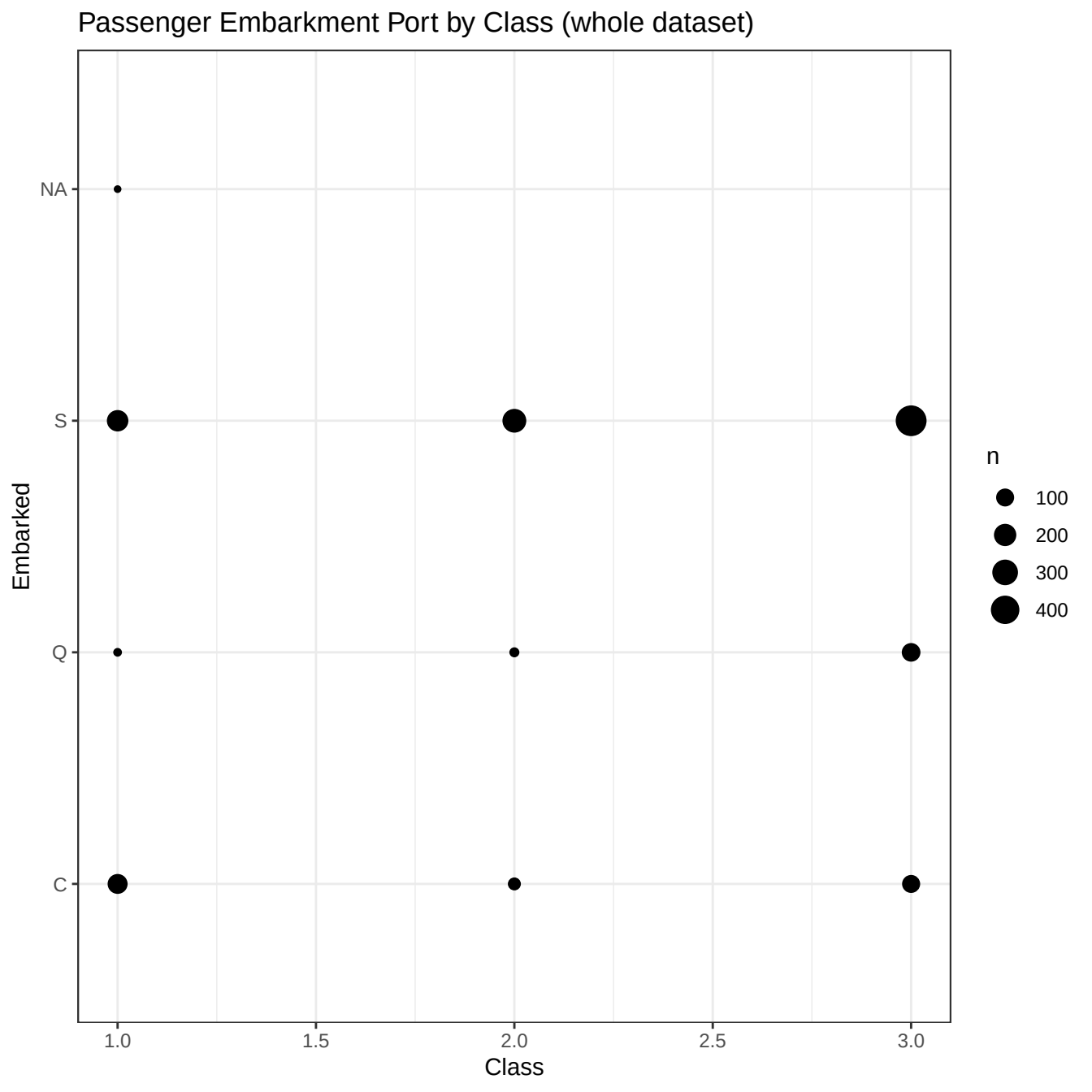

Passenger Age
median age = 28
Count
Age
0
10
20
30
0
20
40
60
80

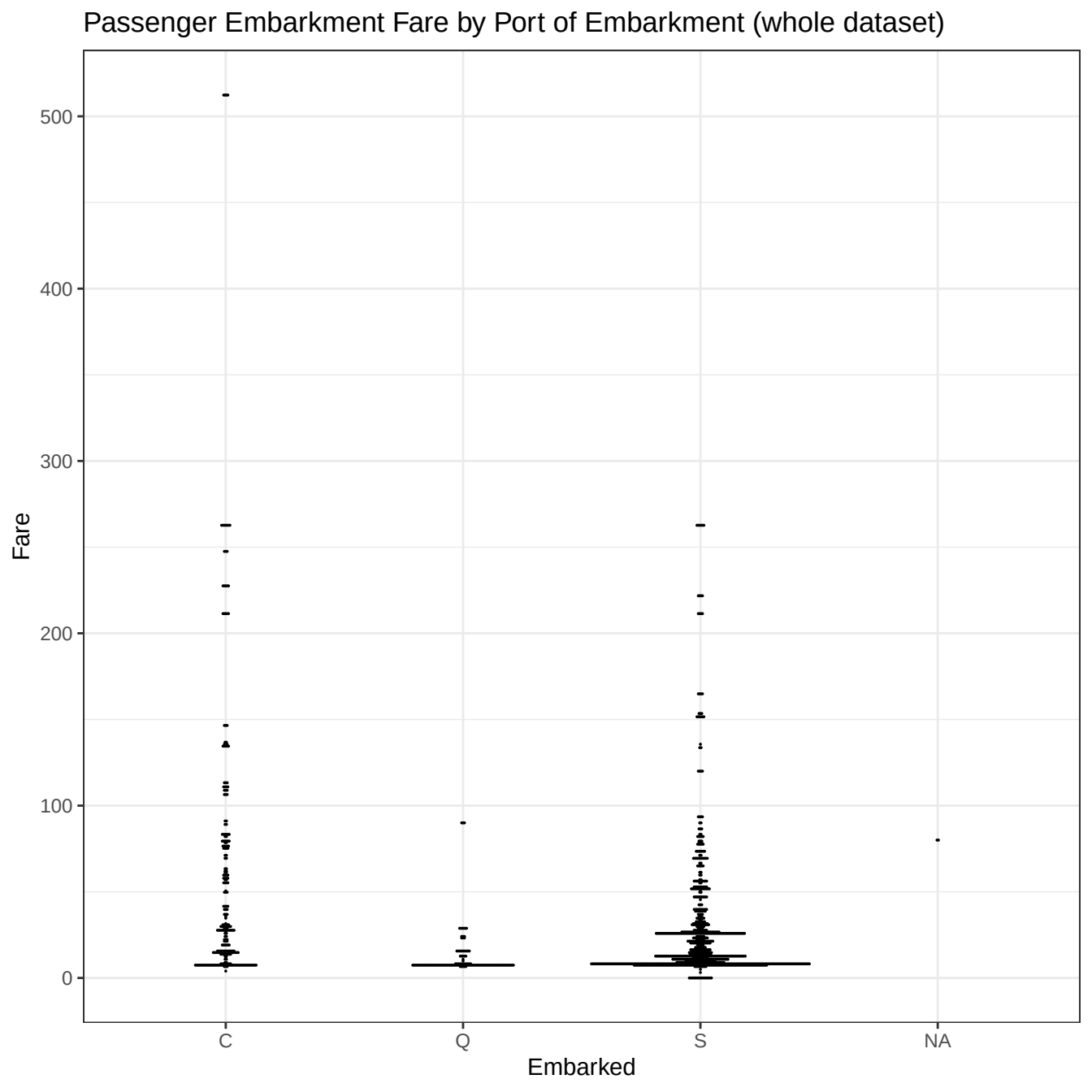

Passenger Age by Class (whole dataset)
80
60
40
20
0
Age
1st class ages significantly differs from 3rd (p−value = 0)
1
2
3
Class

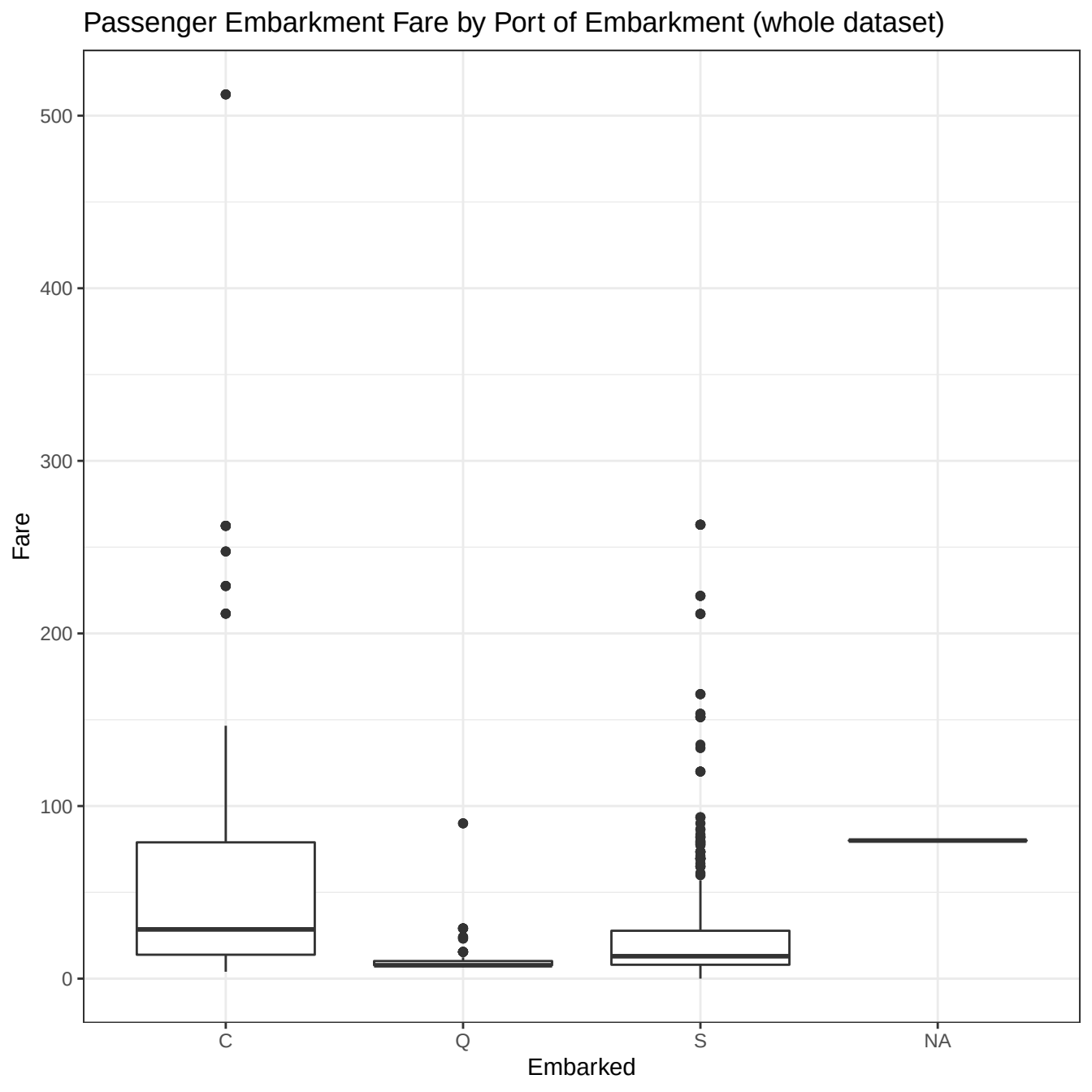

Passenger Age by Title (whole dataset)
Age
80
60
40
20
0
Col
Dr
Grand
Master
Miss
Mr
Mrs
Rev
Title

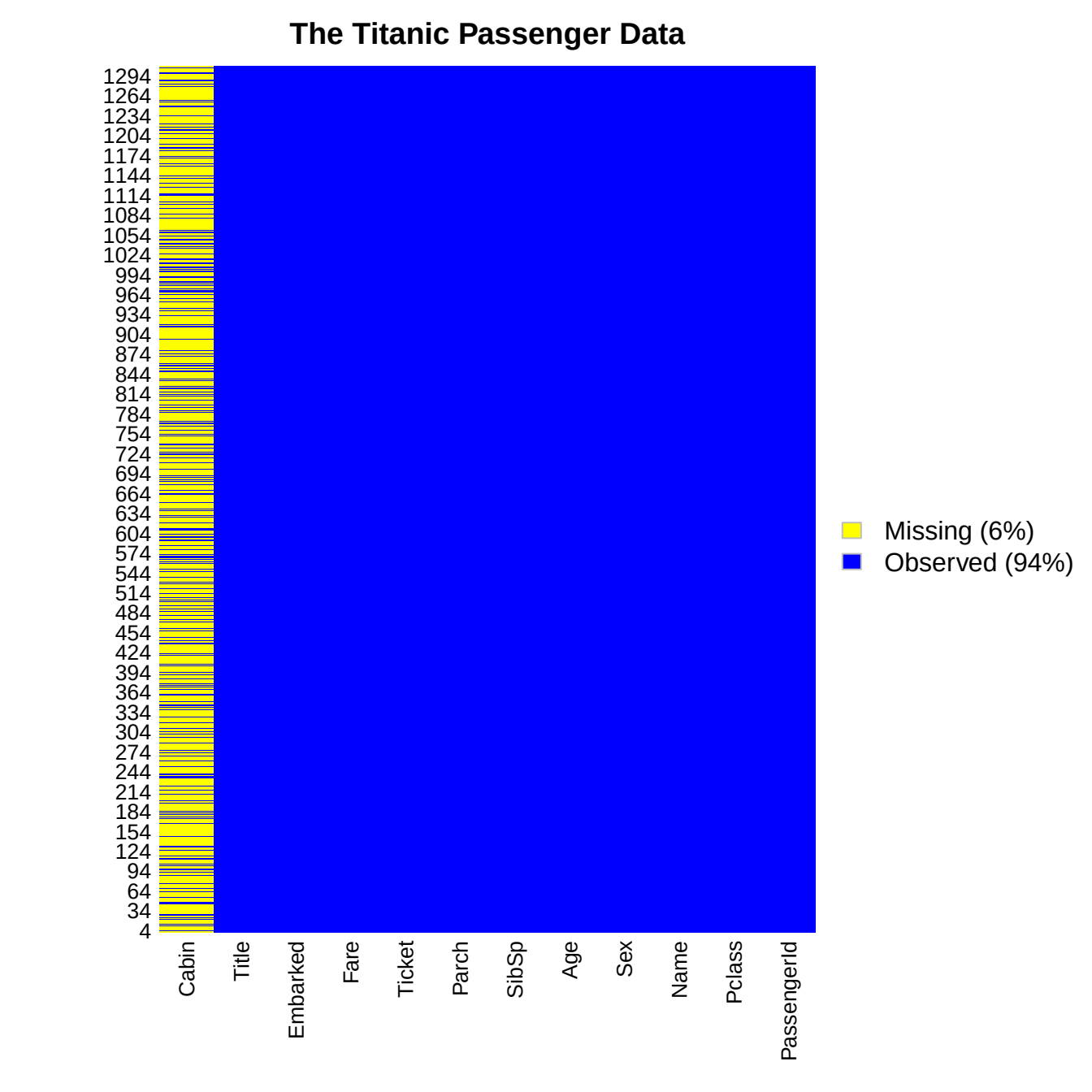

Passenger Age by Title and Class (whole dataset)
Class
3
2
1
Col
Dr
Grand
Master
Miss
Mr
Mrs
Rev
Title
Age
50
40
30
20
10


Passenger Fare by Port of Embarkment and Class (whole dataset)
Class
3
2
1
C
Q
S
Title
Fare
100
75
50
25


Passenger Embarkment Port by Class (whole dataset)
Embarked
NA
S
Q
C
1.0
1.5
2.0
2.5
3.0
Class
n
100
200
300
400


Passenger Embarkment Fare by Port of Embarkment (whole dataset)
Fare
500
400
300
200
100
0
C
Q
S
NA
Embarked


Passenger Embarkment Fare by Port of Embarkment (whole dataset)
Fare
500
400
300
200
100
0
C
Q
S
NA
Embarked


The Titanic Passenger Data
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1024
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964
934
904
874
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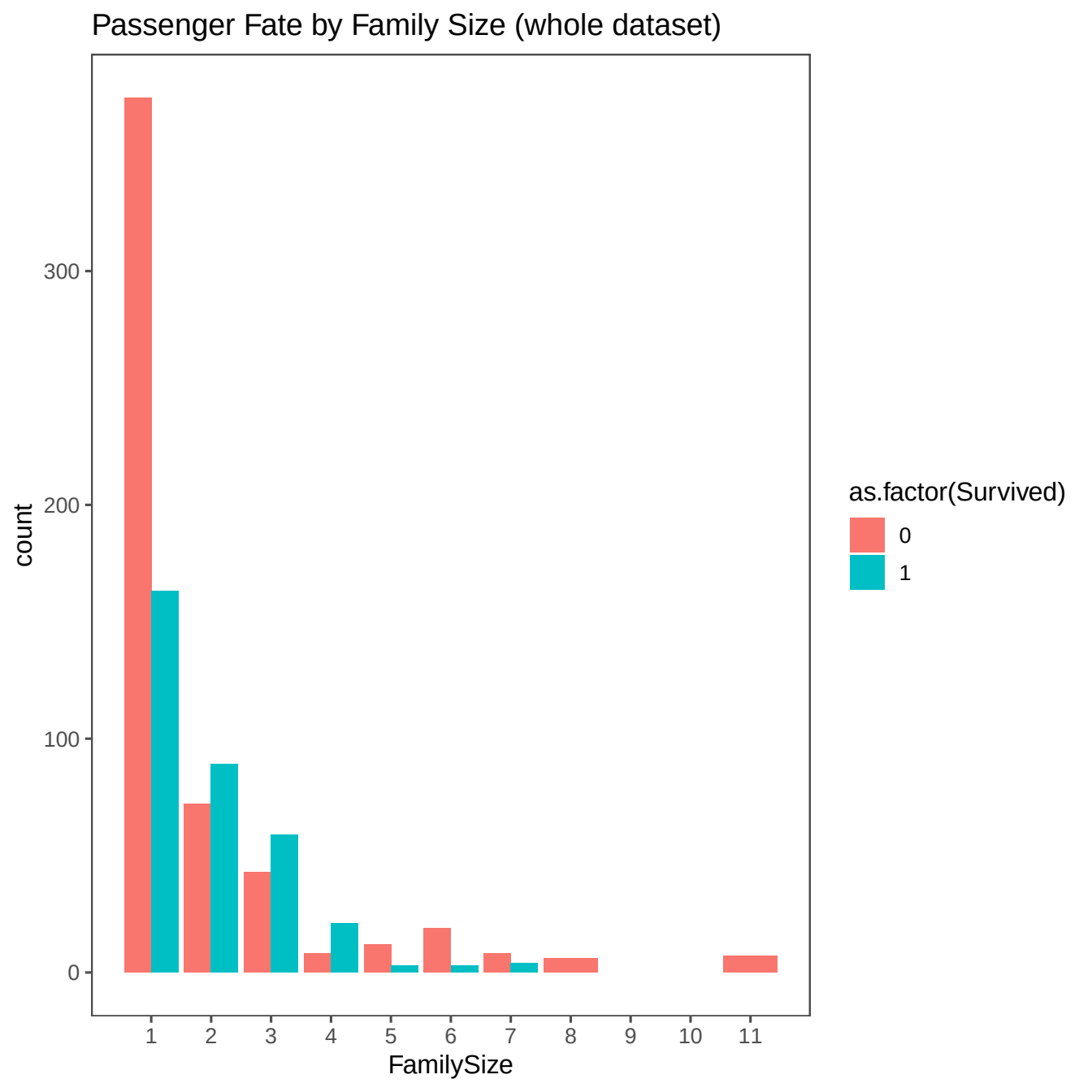
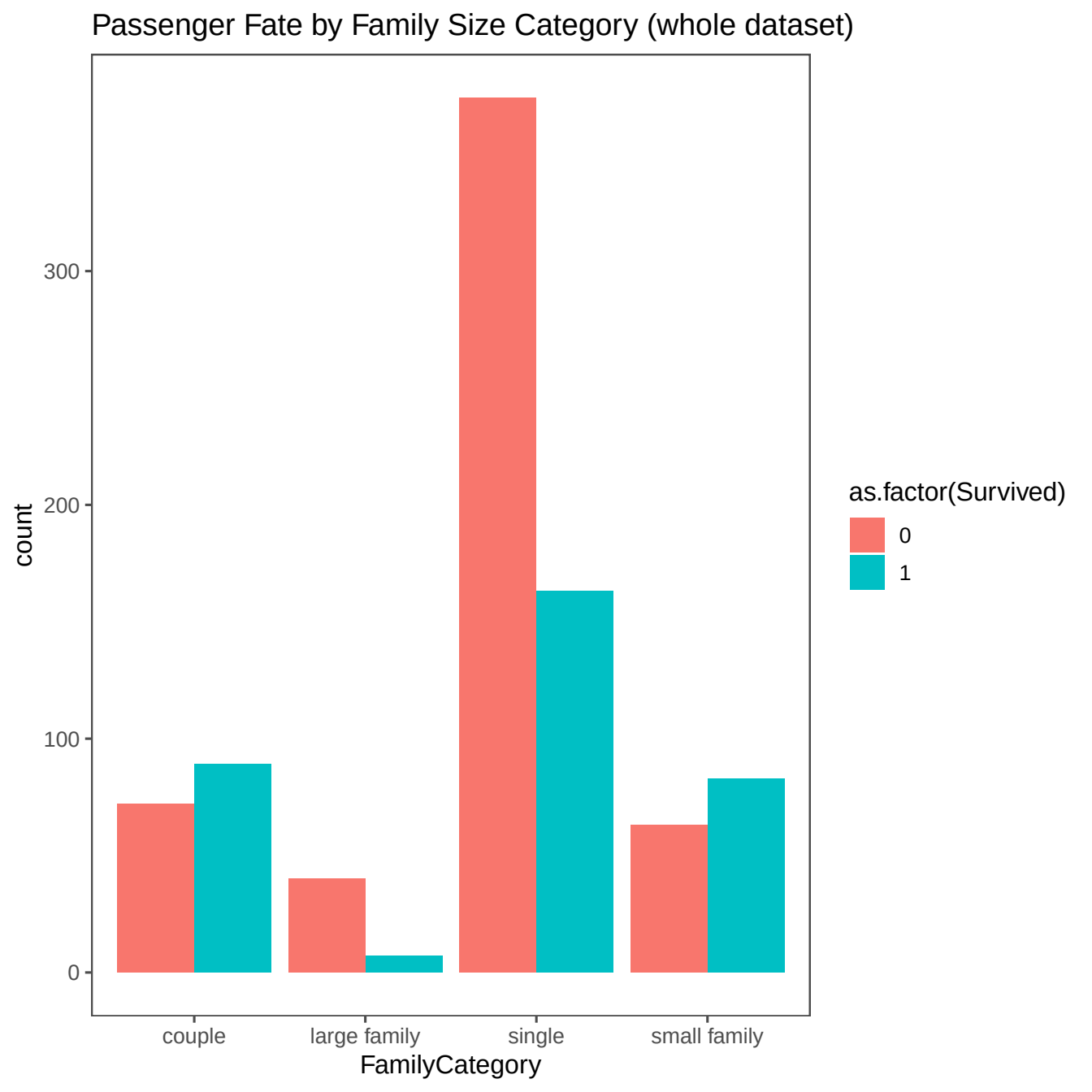
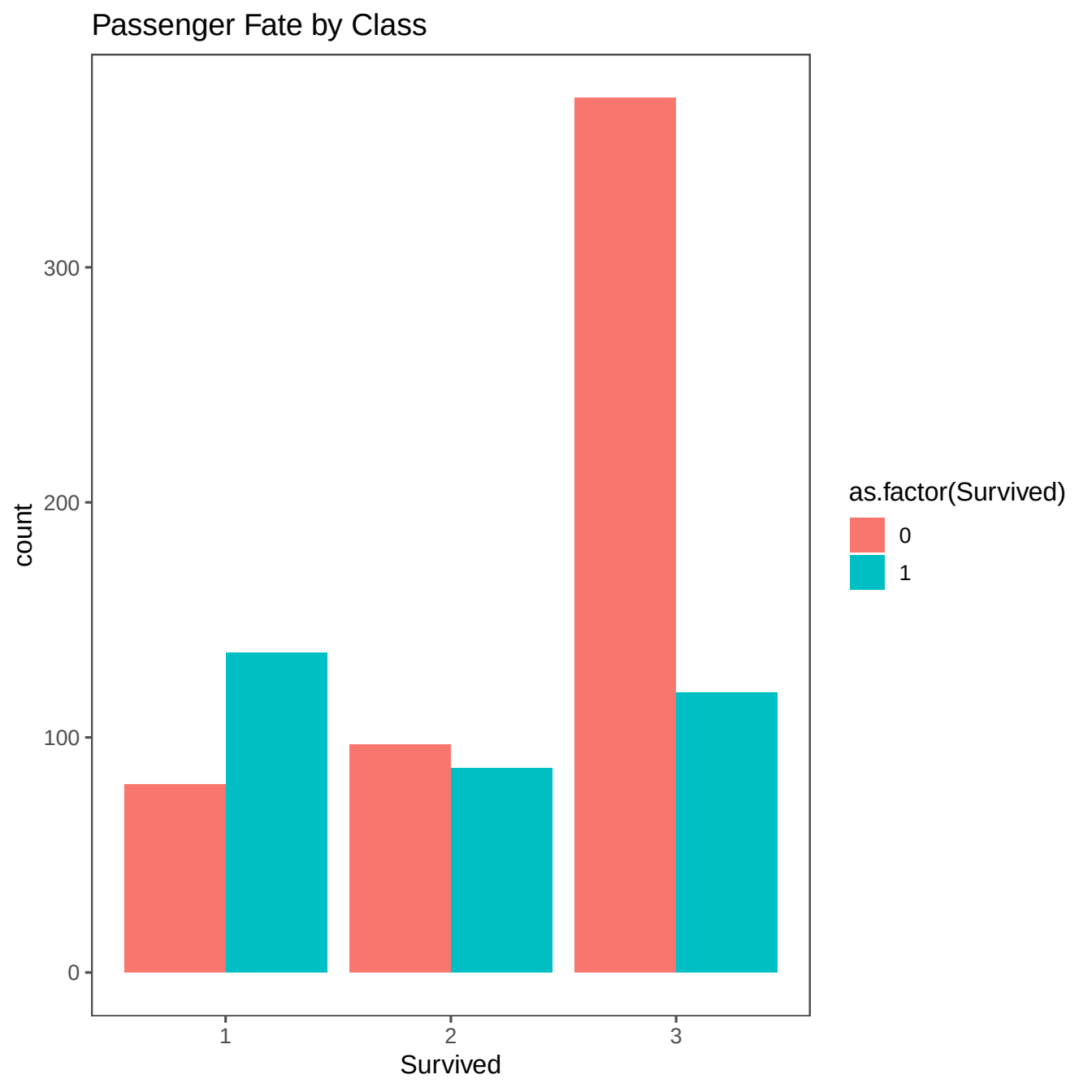
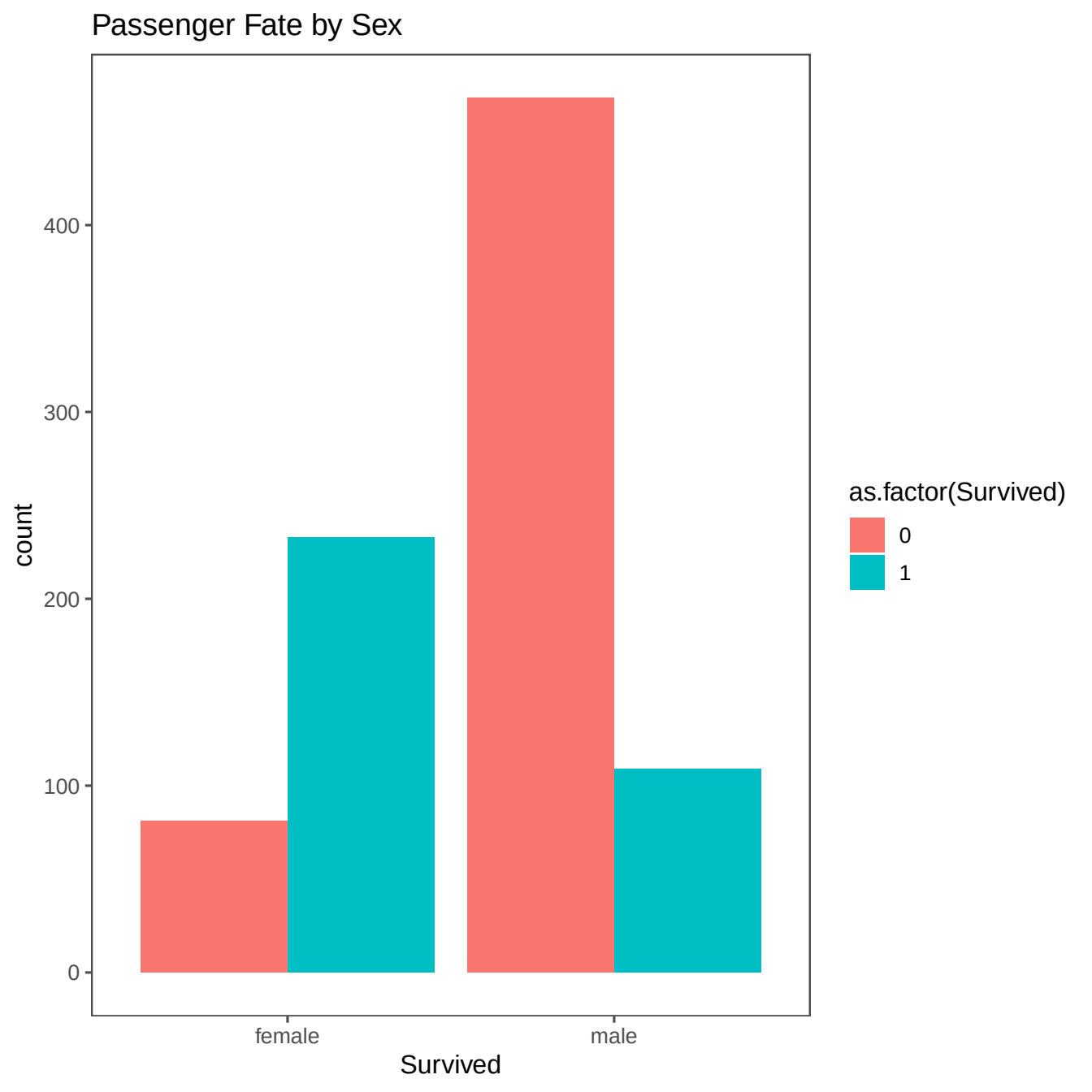
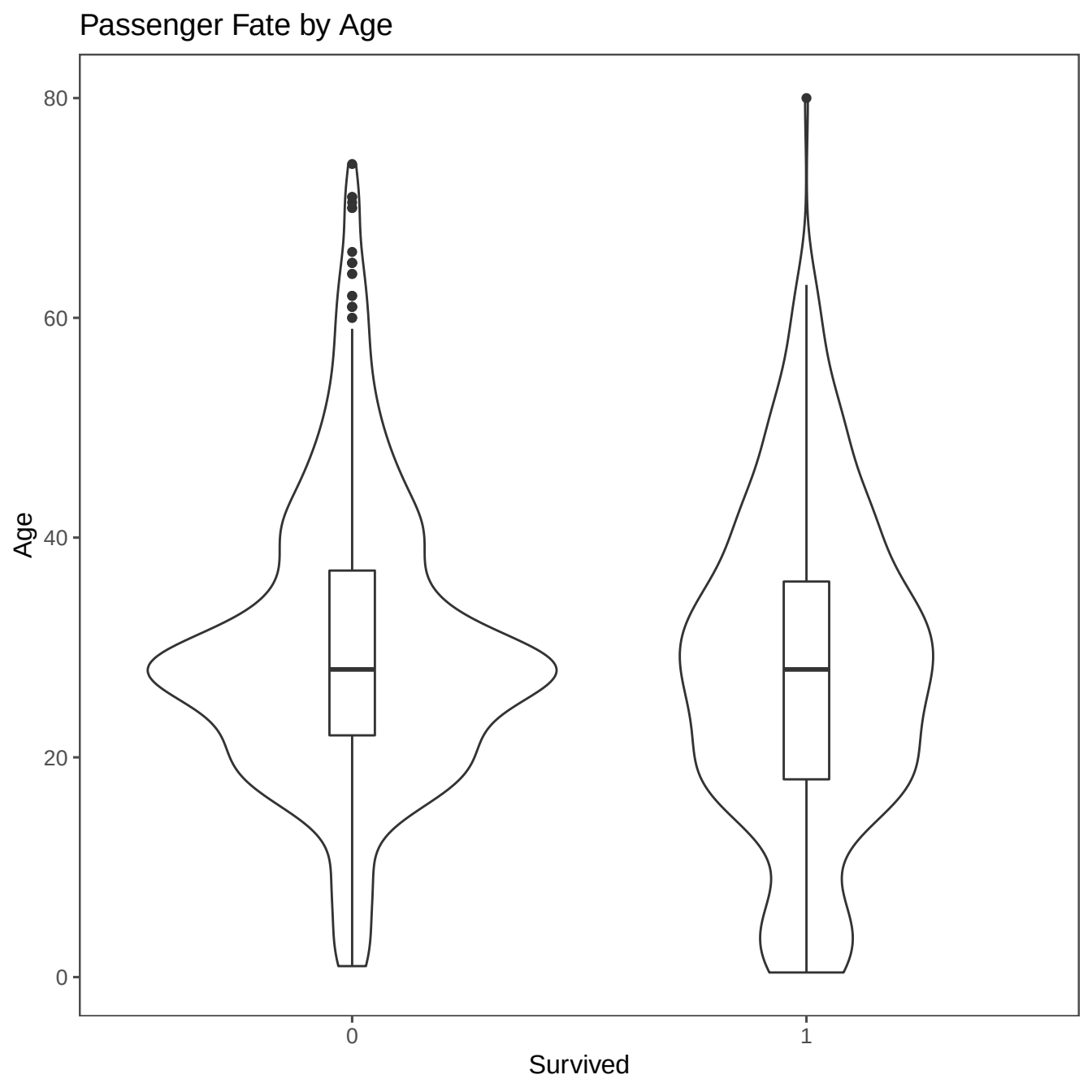
814
784
754
724
694
664
634
604
574
544
514
484
454
424
394
364
334
304
274
244
214
184
154
124
94
64
34
4
Cabin
Title
Embarked
Fare
Ticket
Parch
SibSp
Age
Sex
Name
Pclass
PassengerId
Missing (6%)
Observed (94%)

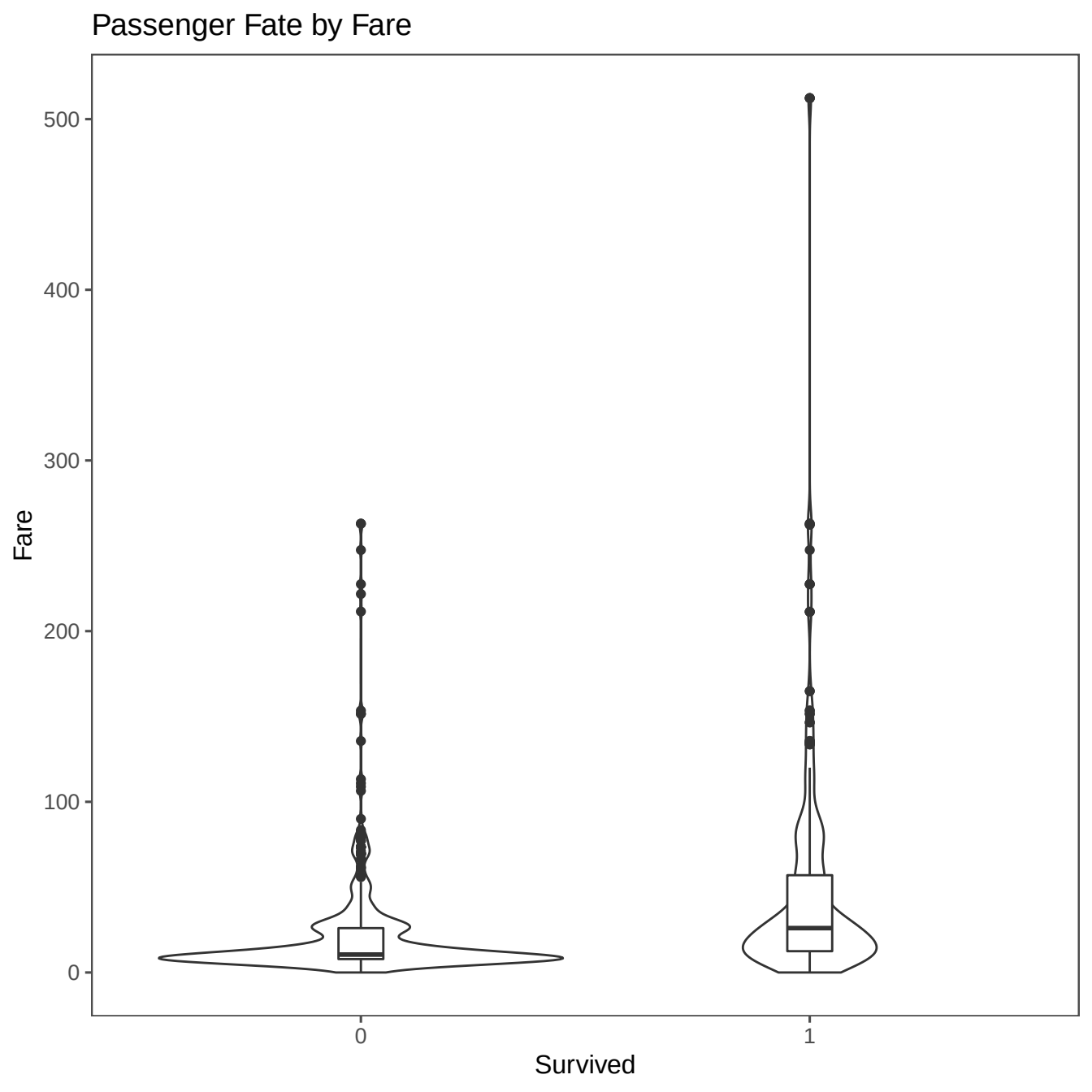

Passenger Fate by Family Size (whole dataset)
count
300
200
100
0
1
2
3
4
5
6
7
8
9
10
11
FamilySize
as.factor(Survived)
0
1

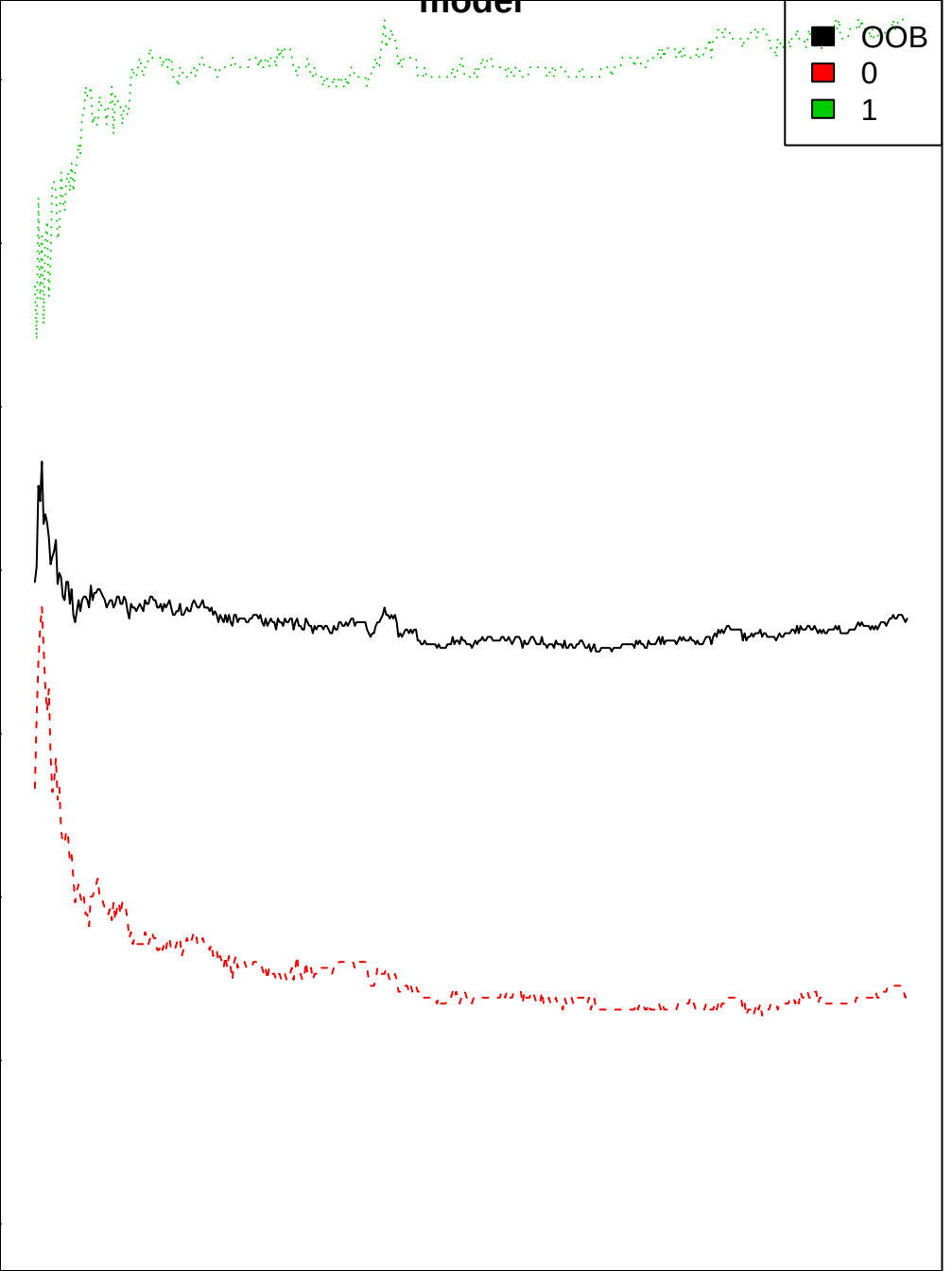

Passenger Fate by Family Size Category (whole dataset)
count
300
200
100
0
couple
large family
single
small family
FamilyCategory
as.factor(Survived)
0
1


Passenger Fate by Class
count
300
200
100
0
1
2
3
Survived
as.factor(Survived)
0
1


Passenger Fate by Sex
count
400
300
200
100
0
female
male
Survived
as.factor(Survived)
0
1


Passenger Fate by Age
80
60
40
20
0
Age
0
1
Survived


Passenger Fate by Fare
Fare
500
400
300
200
100
0
0
1
Survived


rfmodel
OOB
0
1