# STATISTICAL CONSULTING HW1

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# **Data description**

```
library(Hmisc)

data <- read.csv("C:/Users/user/Desktop/NCKU/titanic.csv")
latex(describe(data),file = "")</pre>
```

#### data 12 Variables 891 Observations

PassengerId													
n 891	missing 0	distinct 891	Info 1	Mean 446	pMedian 446	Gmd 297.3	.05 45.5	.10 90.0	.25 223.5	.50 446.0	.75 668.5	.90 802.0	.95 846.5
lowest: 1 2 3 4 5, highest: 887 888 889 890 891													
Survived													
n 891	missing 0	distinct 2	Info 0.71	Sum 342	Mean 0.3838								
Pclass											ı	ı	
n 891	missing 0	distinct 3	Info 0.81	Mean 2.309	pMedian 2.5	Gmd 0.8631							
Value 1 2 3 Frequency 216 184 491 Proportion 0.242 0.207 0.551 For the frequency table, variable is rounded to the nearest 0													

Name

missing 0 distinct 891

lowest : Abbing, Mr. Anthony highest: Yousseff, Mr. Gerious

Abbott, Mr. Rossmore Edward Abbott, Mrs. Stanton (Rosa Hunt) Yrois, Miss. Henriette ("Mrs Harbeck") Zabour, Miss. Hileni

Abelson, Ma Zabour, Mi

Sex

missing distinct 891

Value female male Frequency 314 577 Proportion 0.352 0.648

Age

pMedian 29 Info 0.999 Mean 29.7 .10 14.00 .90 50.00 .95 56.00 .25 20.12 .50 28.00 .75 38.00 n 714

lowest: 0.42 0.67 0.75 0.83 0.92, highest: 70 70.5 71 74 80

SibSp 1 . . . . .

missing 0 Info 0.669 distinct pMedian Gmd n 891 Mean 0.823 0.523 0.5

For the frequency table, variable is rounded to the nearest 0

Parch

Info 0.556 pMedian Gmd Mean 891

Value 0 1 2 3 4 5 6 Frequency 678 118 80 5 4 5 1 Proportion 0.761 0.132 0.090 0.006 0.004 0.006 0.001

For the frequency table, variable is rounded to the nearest  ${\tt 0}$ 

**Ticket** 

distinct missing 891

Fare

missing distinct Gmd .05 Info Mean pMedian 248 36.78 7.225 1 .95

112.079

lowest : 0 4.0125 5 6.2375 6.4375 , highest: 227.525 247.521 262.375 263 512.329

Cabin

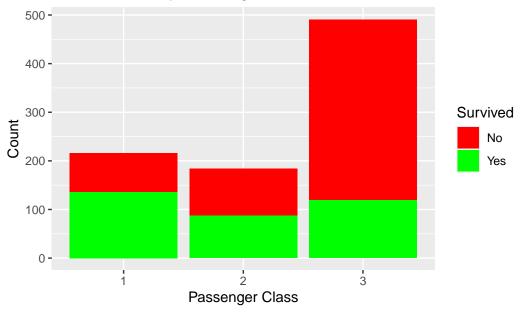
missing 687 distinct 204

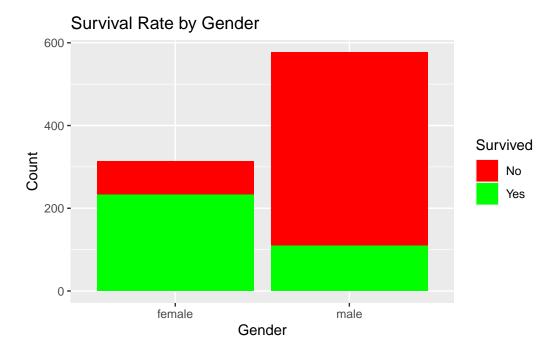
lowest : A10 A14 A16 A19 A20, highest: F33 F38 F4 G6 T

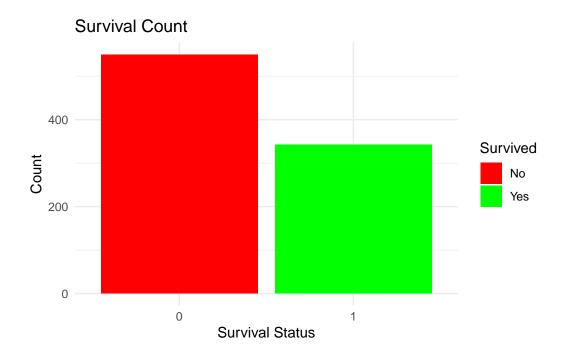
```
n missing distinct
889 2 3
Value C Q S
Frequency 168 77 644
Proportion 0.189 0.087 0.724
```

### **Data Visualization**

### Survival Rate by Passenger Class







## Conclusion

- Passengers in higher-class cabins had a higher survival rate.
- Women had a higher survival rate than men.
- More people died than survived.