

ParvaPatel_M6_FinalReport.R

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2022-02-21

```
# import library
pacman :: p_load(plyr,dplyr,webr,moments,ggplot2,plotrix,magrittr,vcd)
r=getOption("repos")
r["CRAN"]="https://cran.r-project.org/"
options(repos = r)

library(readr)
Titanic <- read_csv("Titanic.csv")
```

```
## Rows: 891 Columns: 10
```

```
## -- Column specification -----
## Delimiter: ","
## chr (5): sex, embarked, class, who, survived
## dbl (4): age, sibsp, parch, fare
## lgl (1): alone

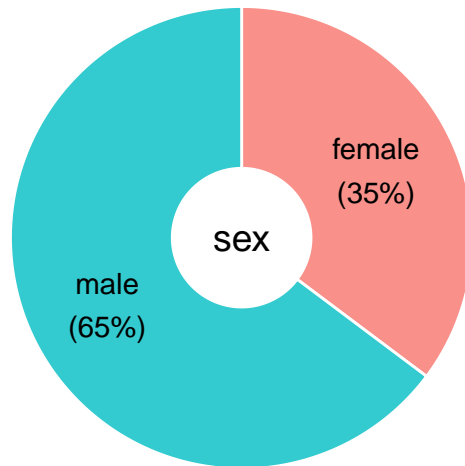
##
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

```
View(Titanic)
```

```
# 1. plot of male and female on Titanic
# gender <- Titanic$sex
countgender<-table(Titanic$sex)
lbsgender <- round(countgender/sum(countgender)*100,1)
color<-c("blue","pink")
PieDonut(Titanic, aes(sex)) +
  labs(title = "Ratio of Male and Female on Titanic") +
  theme(plot.title = element_text(hjust = 0.5, size = 20),
        axis.title = element_blank(),
        axis.text = element_blank(),
        axis.ticks = element_blank(),
        panel.grid=element_blank(),
        panel.border = element_blank())
```

```
## Warning: 'guides(<scale> = FALSE)' is deprecated. Please use 'guides(<scale> =
## "none")' instead.
```

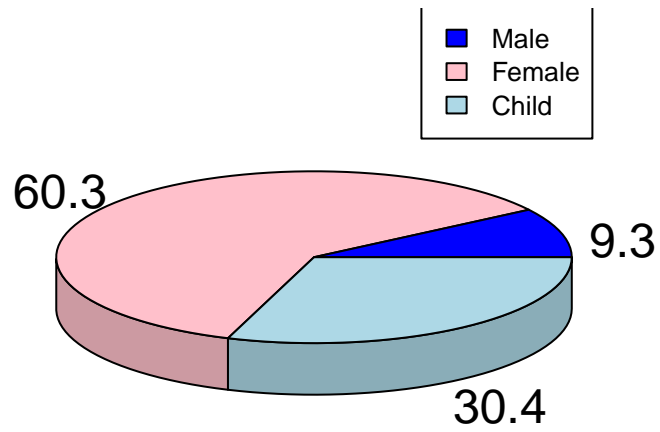
Ratio of Male and Female on Titanic



```
# 2. plot of man, woman and child on Titanic

countwho<-table(Titanic$who)
lbswho <- round(countwho/sum(countwho)*100,1)
color<-c("blue","pink","Light blue")
pie3D(countwho,
      labels = lbswho,
      main = "Ratio of Man, Woman and Child",
      col = color,
)
legend("topright",c("Male","Female","Child"),cex=0.8,fill = c("blue","pink","light blue"))
```

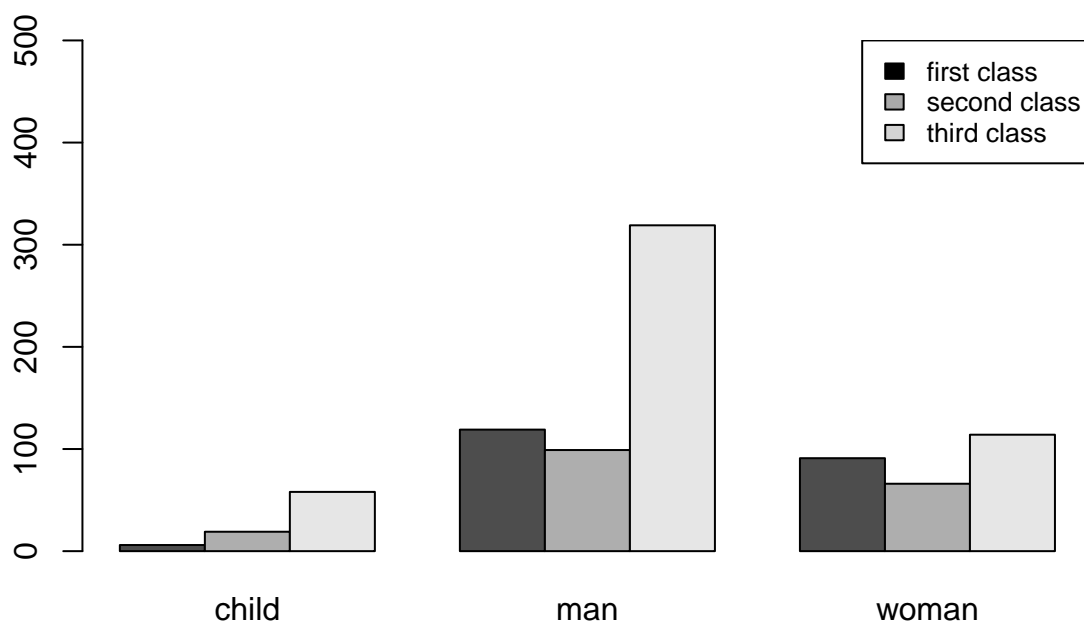
Ratio of Man, Woman and Child



3. plot of Child, Man and Woman in First, Second and Third class

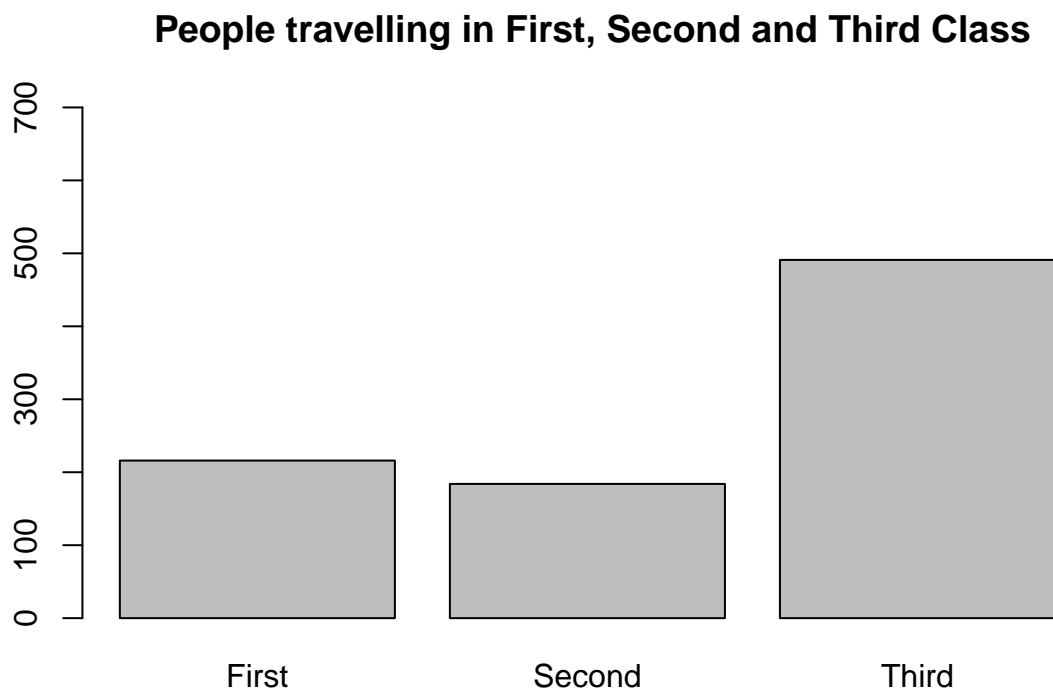
```
table2<-table(Titanic$class,Titanic$who)
barplot(table2,beside=T,ylim=c(0,500), main = "Ratio of Man, Women and Child in different class")
legend("topright",c("first class","second class","third class"), fill = c("black","Dark grey","Light grey"))
```

Ratio of Man, Women and Child in different class



4. plot of people in First, Second and , Third Class

```
countclass <- table(Titanic$class)
barplot(countclass, main = " People travelling in First, Second and Third Class" , ylim = c(0,700))
```

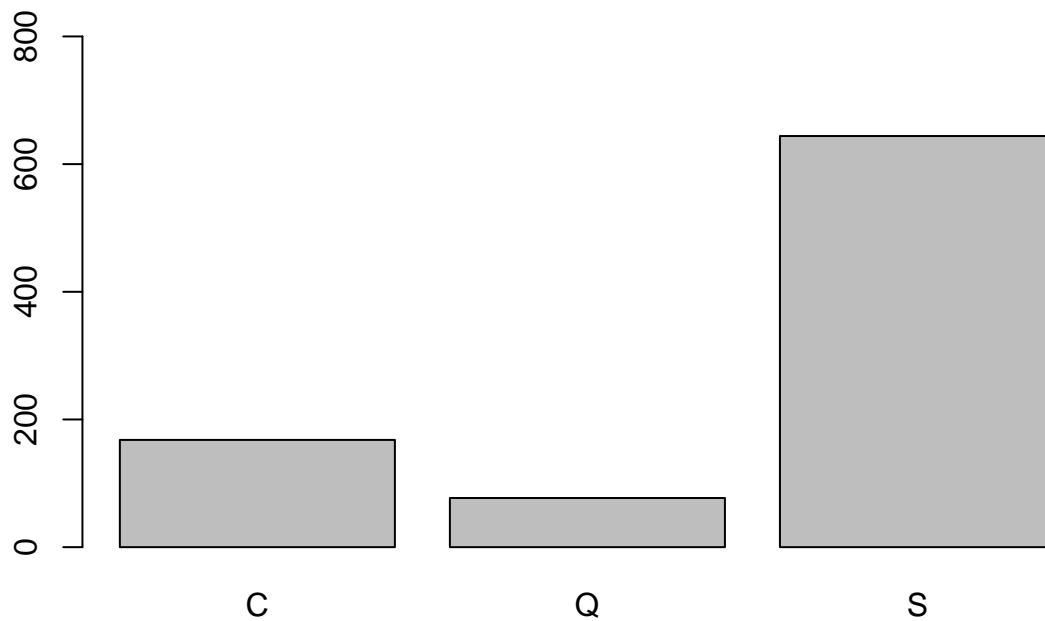


5. plot of number of people Going to Titanic from which port

```
hist <- (Titanic$embarked)
```

```
plot(as.factor(hist),ylim = c(0,800), main = "plot of number of people Going to Titanic from which port")
```

plot of number of people Going to Titanic from which port

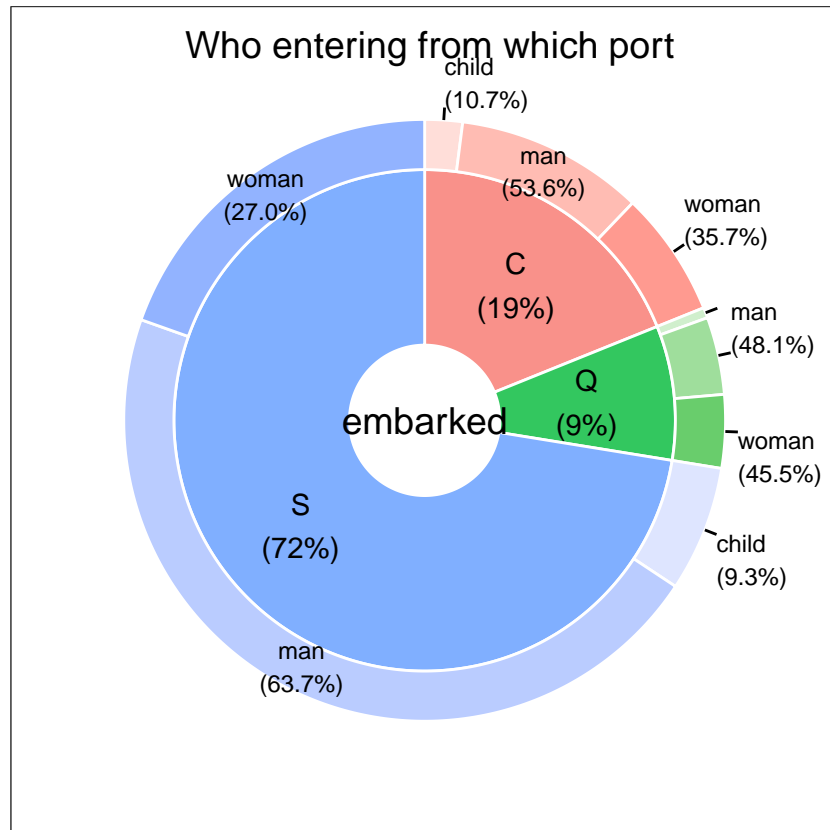


6. plot of Child, man and woman going to Titanic from which port

```
PieDonut(Titanic,aes(embarked,who),title = " Who entering from which port")
```

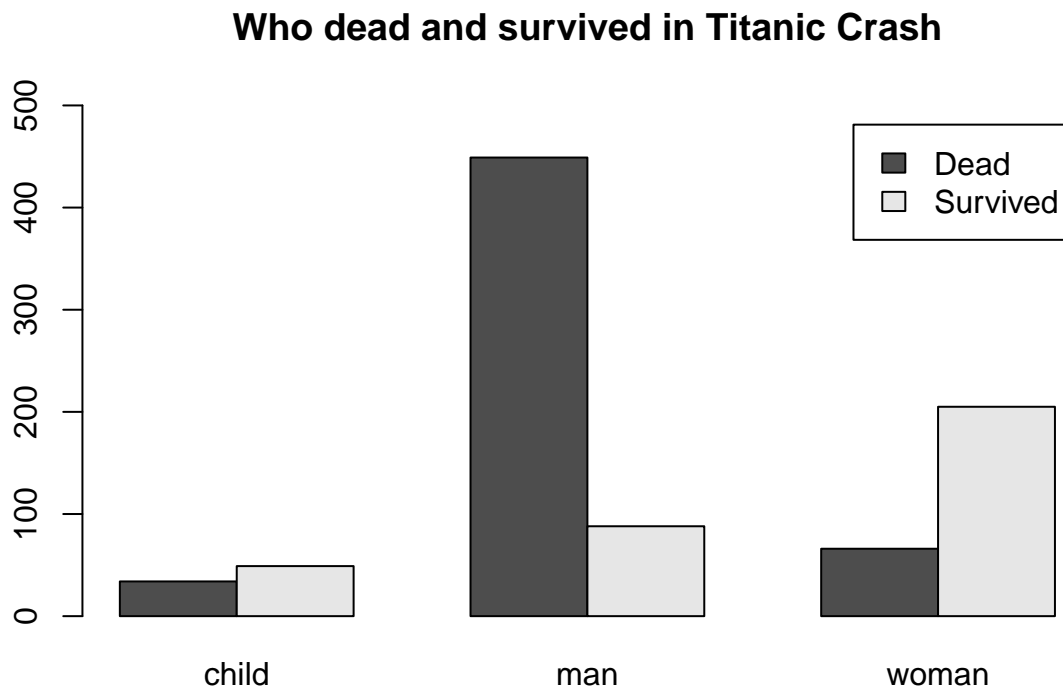
```
## Warning: 'guides(<scale> = FALSE)' is deprecated. Please use 'guides(<scale> =  
## "none")' instead.
```

```
## Warning: 'guides(<scale> = FALSE)' is deprecated. Please use 'guides(<scale> =  
## "none")' instead.
```



7. plot of Child, Man and women dead and survived in Titanic Crash

```
table1<- table(Titanic$survived,Titanic$who)
barplot(table1, beside = T,ylim=c(0,500),legend=c("Dead","Survived"),main = "Who dead and survived in T
```

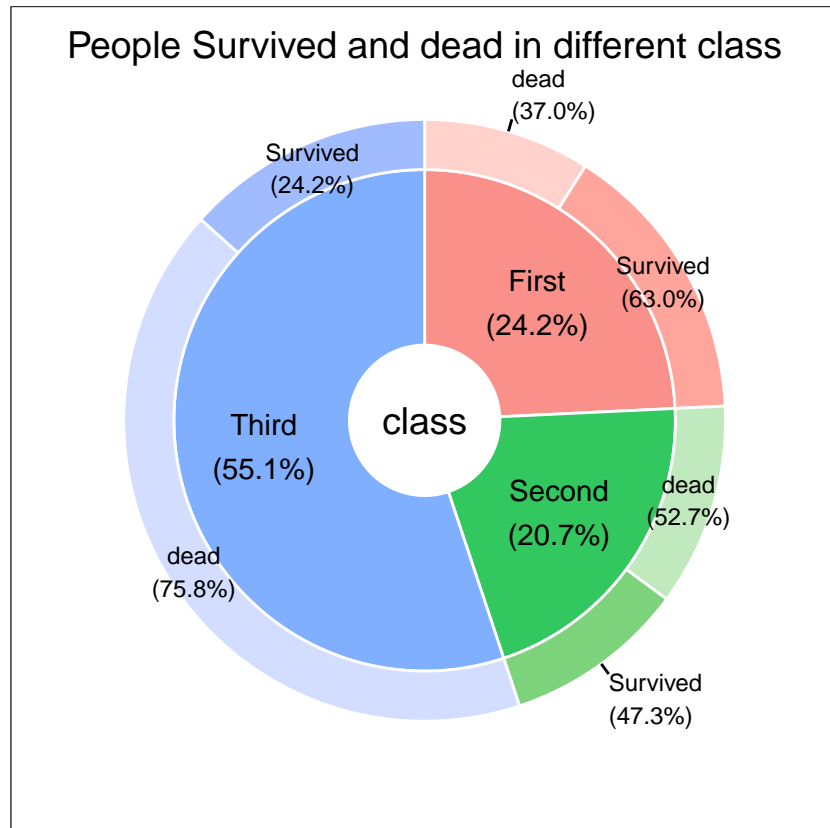


8. plot of people dead Travelling First, second and Third Class

```
PieDonut(Titanic, aes(class, survived), title = "People Survived and dead in different class")
```

```
## Warning: 'guides(<scale> = FALSE)' is deprecated. Please use 'guides(<scale> =  
## "none")' instead.
```

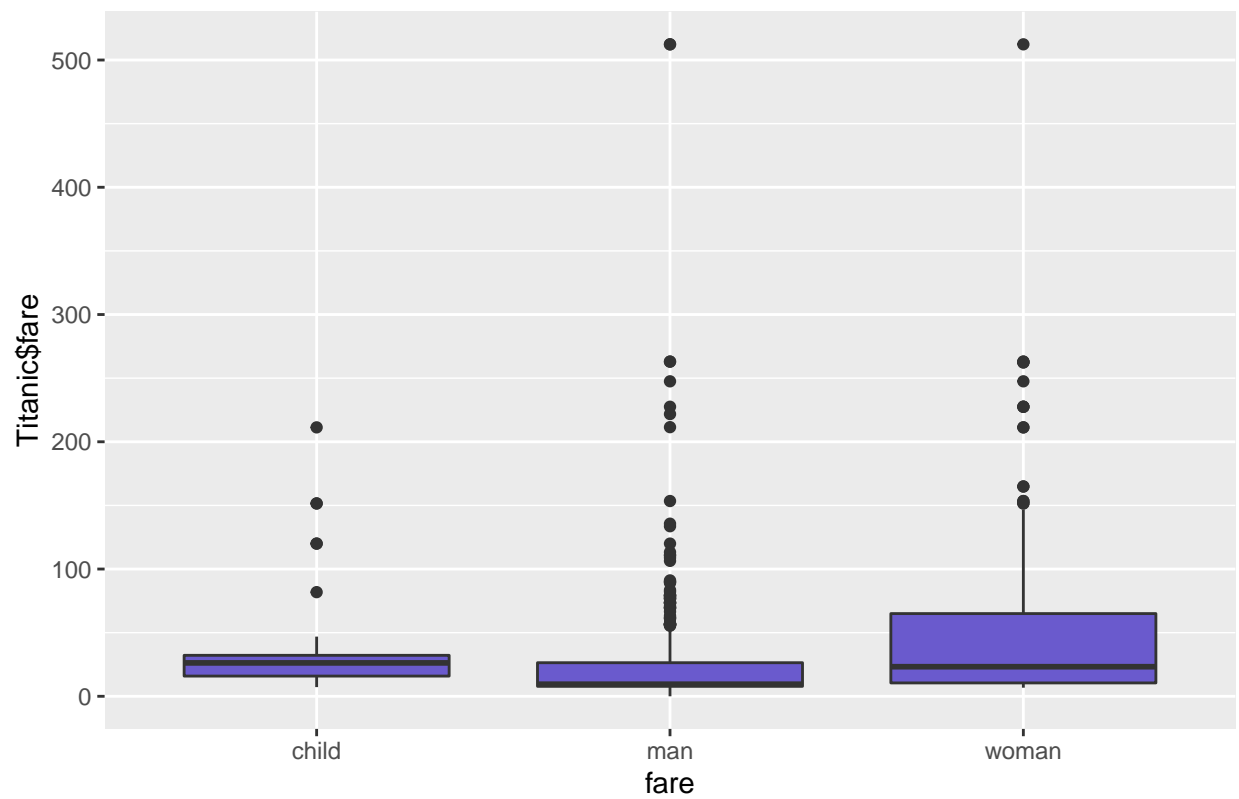
```
## Warning: 'guides(<scale> = FALSE)' is deprecated. Please use 'guides(<scale> =  
## "none")' instead.
```

9. plot of fair for Child, Man and woman travelling in the Titanic

```
ggplot(Titanic, aes(x=Titanic$who, y=Titanic$fare)) +
  geom_boxplot(fill="slateblue") +
  xlab("fare") +
  ggtitle("fair for Child, Man and woman travelling in the Titanic")
```

fair for Child, Man and woman travelling in the Titanic



10. plot of Child, Man and woman Travelling Alone and Not Alone

```
Table7 <- table(Titanic$alone, Titanic$who)
barplot(Table7, beside = T, ylim=c(0,500), legend=c("Not Alone", "Alone"), main = "Child, Man and woman Tr
```

Child, Man and woman Travelling Alone or Not Alone

