### Exploring the Titanic survival data

Surabhi Chouhan

December 28, 2016

#### Import the required packages

```
library("plyr")
library("sqldf")
## Loading required package: gsubfn
## Loading required package: proto
## Loading required package: RSQLite
library("ggplot2")
library("ggvis")
## Attaching package: 'ggvis'
## The following object is masked from 'package:ggplot2':
##
       resolution
```

#### Importing the titanic survival dataset

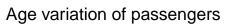
```
## 'data.frame':
                   891 obs. of 12 variables:
## $ PassengerId: int 1 2 3 4 5 6 7 8 9 10 ...
## $ Survived : int 0 1 1 1 0 0 0 0 1 1 ...
## $ Pclass
               : int 3 1 3 1 3 3 1 3 3 2 ...
               : Factor w/ 891 levels "Abbing, Mr. Anthony",...: 109 191 358 277 16 559 520 629 417 58
## $ Name
## $ Sex
              : Factor w/ 2 levels "female", "male": 2 1 1 1 2 2 2 2 1 1 ...
## $ Age
               : num 22 38 26 35 35 NA 54 2 27 14 ...
               : int 1 1 0 1 0 0 0 3 0 1 ...
## $ SibSp
               : int 000000120...
## $ Parch
## $ Ticket
              : Factor w/ 681 levels "110152", "110413", ...: 524 597 670 50 473 276 86 396 345 133 ...
## $ Fare
                : num 7.25 71.28 7.92 53.1 8.05 ...
## $ Cabin
                : Factor w/ 148 levels "","A10","A14",..: 1 83 1 57 1 1 131 1 1 1 ...
## $ Embarked : Factor w/ 4 levels "", "C", "Q", "S": 4 2 4 4 4 3 4 4 2 ...
```

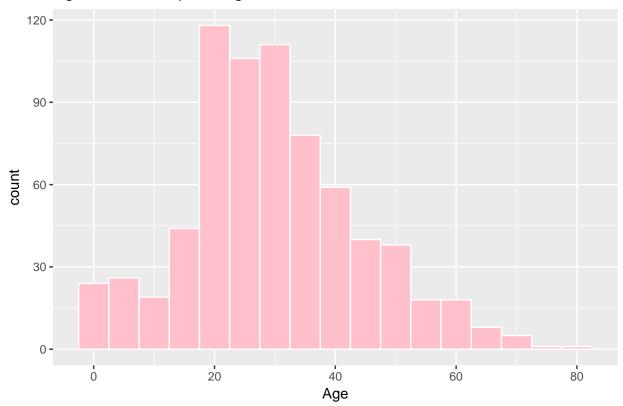
#### Some descriptive stats of the survival data

```
## Loading required package: tcltk
## Warning: Quoted identifiers should have class SQL, use DBI::SQL() if the
## caller performs the quoting.
##
    Total passensgers Passengers survived Passengers died
## 1
```

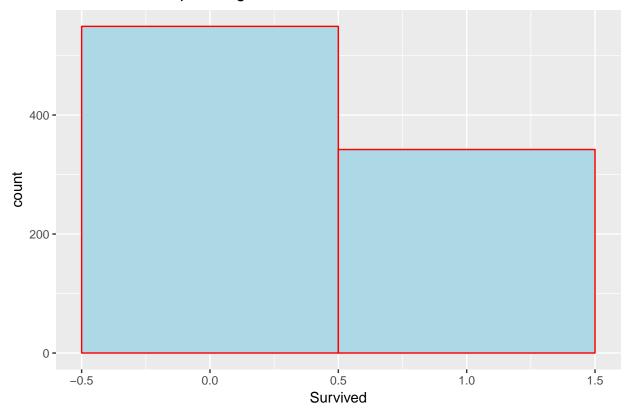
## [1] "Out of total 891 passengers only 38 % of people survived, that is, only 342 passengers survived

## Lets try some vizualisations

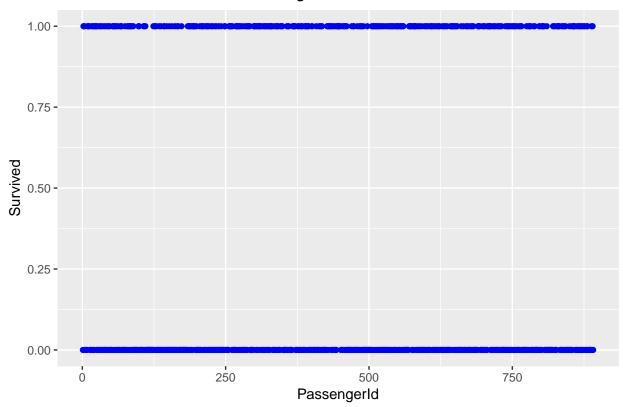




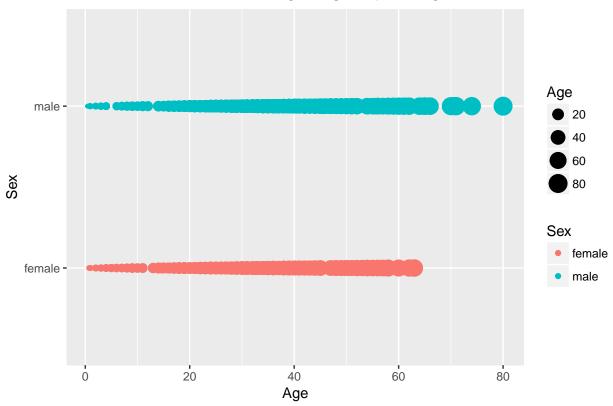
# Survival ratio of passengers where 1 is Survived & 0 is Died











## Fare paid by passengers as per the Class

