SalariesEDA.R

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```r
# R Start Guide Example

library(readr)
salaries <- read_csv("C:/Users/samue/Downloads/salaries.csv")
```

```
## Rows: 93 Columns: 2
## -- Column specification ----------------------------------------------------
## Delimiter: ","
## dbl (2): Salary, Sex
##
## 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.
```

```r
View(salaries)

class(salaries)
```

```
## [1] "spec_tbl_df" "tbl_df"      "tbl"         "data.frame"
```

```r
# Change class of Sex from numeric to factor
class(salaries$Sex) = "Factor"

salaries$Salary
```

```
##  [1] 4620 5040 5100 5100 5220 5400 5400 5400 5400 5400 5700 6000 6000 6000 6000
## [16] 6000 6000 6000 6000 6000 6000 6000 6000 6000 6300 6600 6600 6600 6840 6900
## [31] 6900 8100 3900 4020 4290 4380 4380 4380 4380 4380 4440 4500 4500 4620 4800
## [46] 4800 4800 4800 4800 4800 4800 4800 4800 4800 4980 5100 5100 5100 5100 5100
## [61] 5100 5160 5220 5220 5280 5280 5280 5400 5400 5400 5400 5400 5400 5400 5400
## [76] 5400 5400 5400 5400 5520 5520 5580 5640 5700 5700 5700 5700 5700 6000 6000
## [91] 6120 6300 6300
```

```r
salaries$Sex
```

```
##  [1] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0
## [39] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [77] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## attr(,"class")
## [1] "Factor"
```

```r
head(salaries)
```

```
## # A tibble: 6 x 2
##    Salary Sex
##     <dbl> <Factor>
## 1    4620 1
## 2    5040 1
## 3    5100 1
## 4    5100 1
## 5    5220 1
## 6    5400 1
```
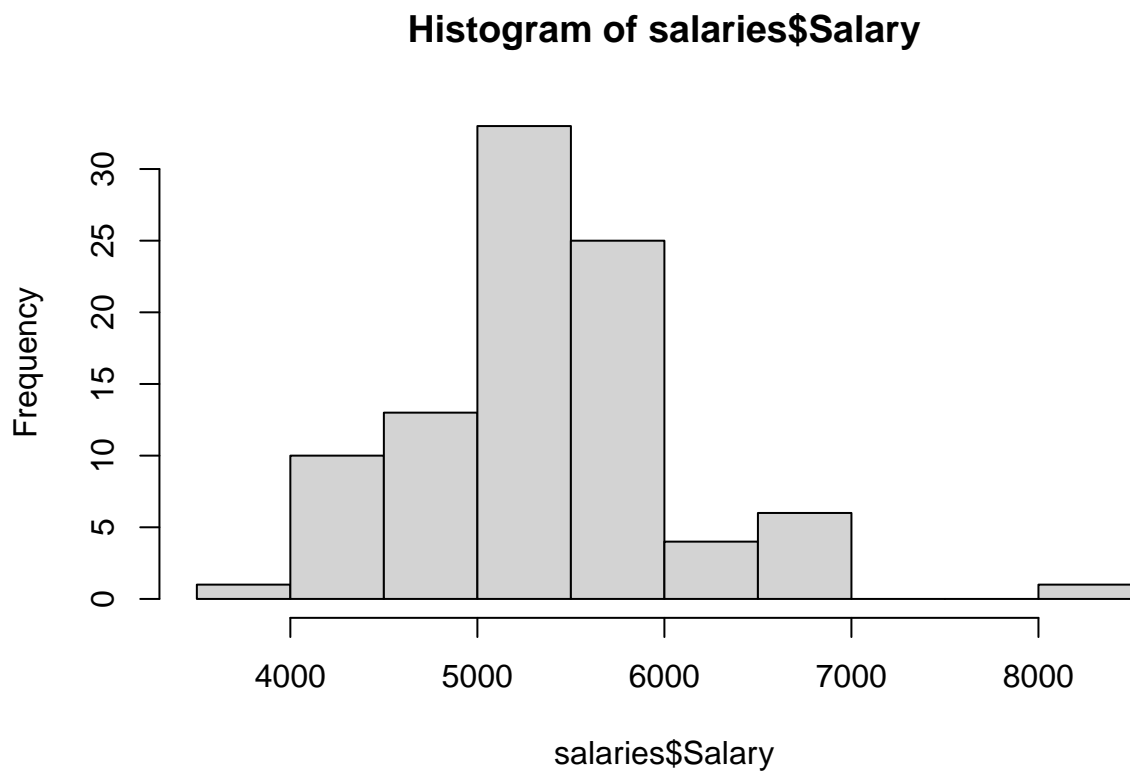
```r
mean(salaries$Salary[salaries$Sex==1])
```

```
## [1] 5956.875
```

```r
mean(salaries$Salary[salaries$Sex==0])
```

```
## [1] 5138.852
```

```r
hist(salaries$Salary)
```


Histogram of salaries$Salary

```
par(mfrow = c(2,1))

hist(salaries$Salary[salaries$Sex==1],
     xlab="dollars", main="Male's Salaries")

hist(salaries$Salary[salaries$Sex == 0],
     xlab="dollars", main="Female's Salaries")
```

Male's Salaries

Female's Salaries