US Incomes by Occupation and Gender

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Introduction of this Statistics

Many people say the gender gap in income levels is overstated in the United States, where some say that inequality in the labor force is a thing of the past. Is there a gender gap at all? Is it stronger in some industries than in others?

This dataset, retrieved from the Bureau of Labor Statistics, shows the median weekly incomes for 535 different occupations. The data encompasses information for all working American citizens as of January 2015. The incomes are broken into male and female statistics, preceded by the total median income when including both genders. The data has been re-formatted from the original PDF-friendly arrangement to make it easier to clean and analyze.

Analysis thus far has found that there is indeed a sizable gender gap between male and female incomes. Use of this dataset should cite the Bureau of Labor Statistics as per their copyright information:

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Few of Computer Related Jobs and Income Table

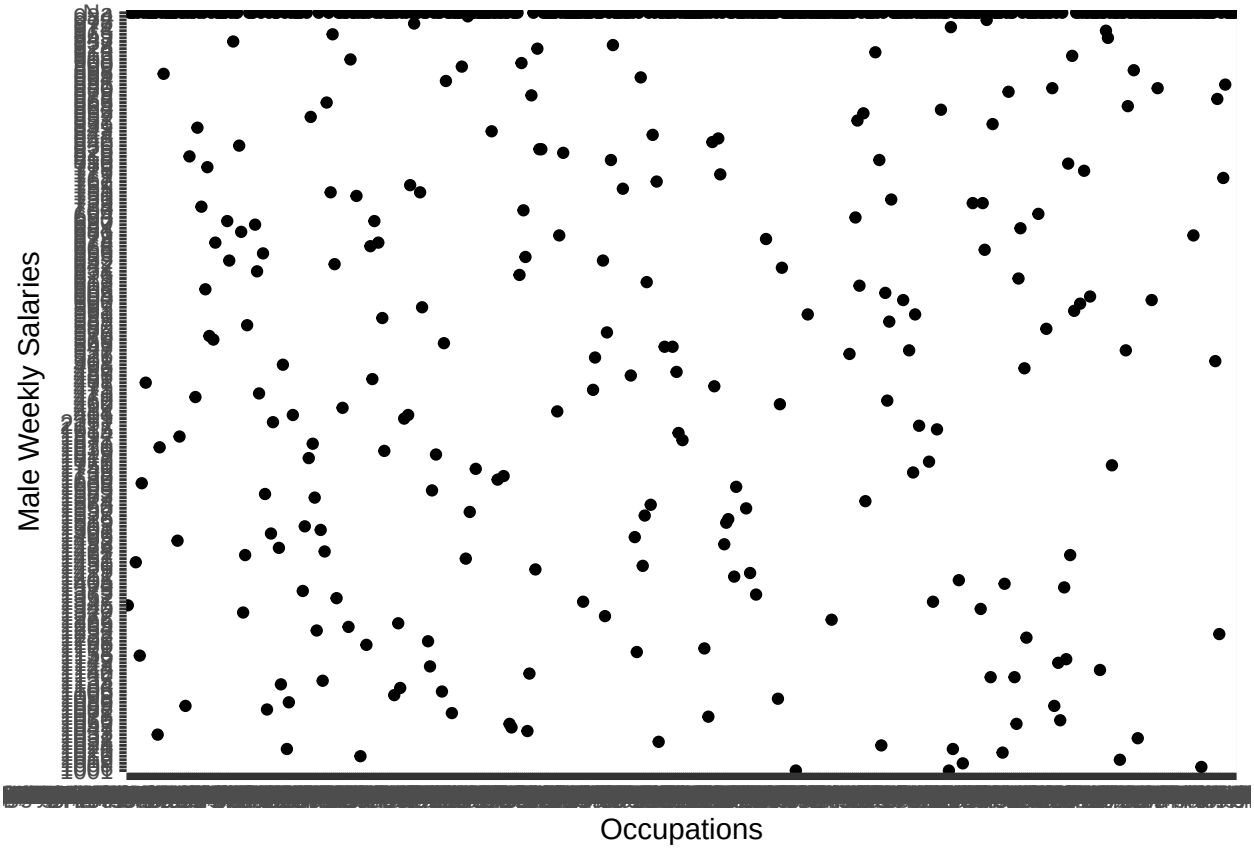
```
library(knitr)
library(ggplot2)
Income <- read.csv("Income.csv", sep =',', header = TRUE)
Income_sub <-read.csv("Income.csv", sep =',', header = TRUE)
computer_income <- Income[c(11,64, 73,341), c(1,5,7)]

computer_income
```

```
##                          Occupation M_weekly F_weekly
## 11               Financial managers     1732     1130
## 64        Computer systems analysts     1462     1256
## 73  Computer occupations, all other     1252     1145
## 341               Data entry keyers      589      638
```

```
#mean function does not work
#apply(computer_income[3], 2, mean)
```

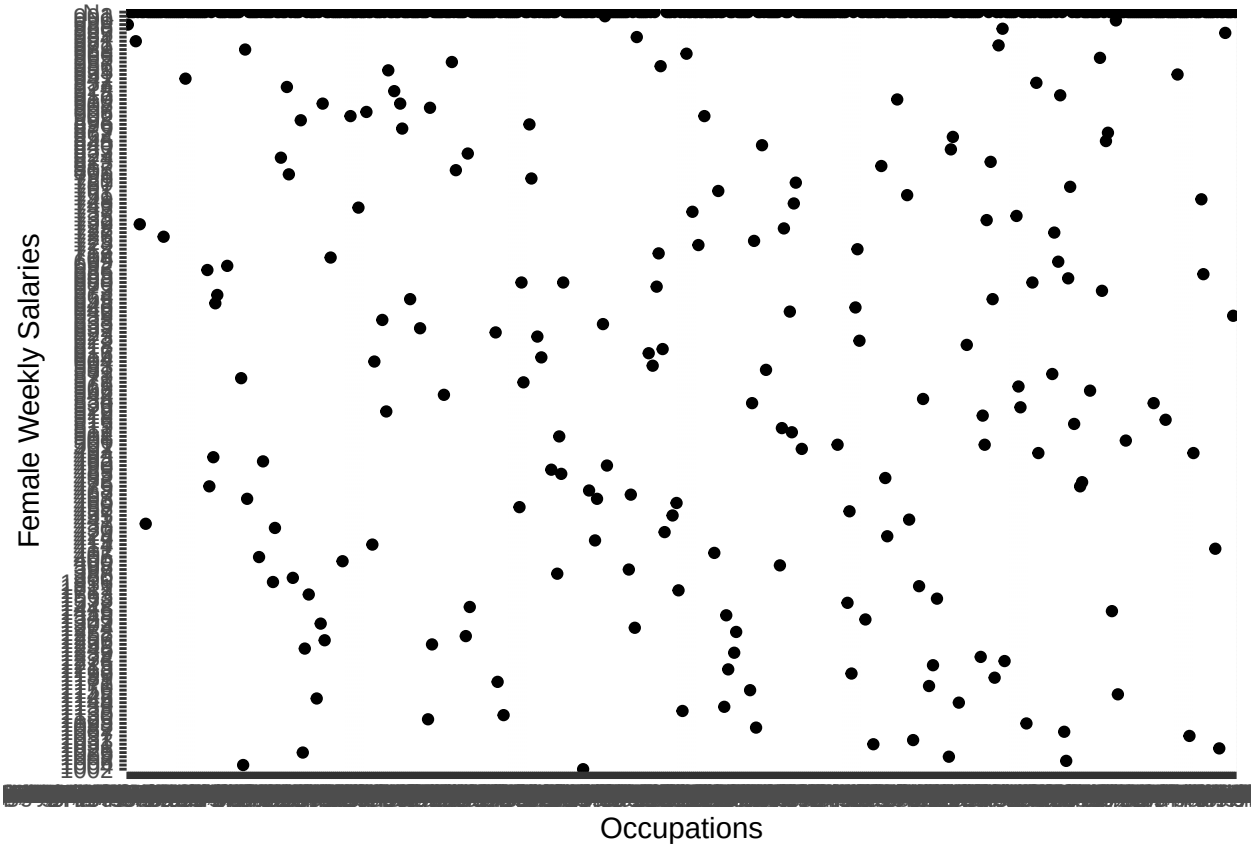
Plots of Occupation types and Male weekly salaries

```
qplot(Income_sub$Occupation, Income_sub$M_weekly, xlab = "Occupations", ylab = "Male Weekly Salaries" )
```



Plots of Occupation types and Female weekly salaries

```
qplot(Income_sub$Occupation, Income_sub$F_weekly, xlab= "Occupations", ylab = "Female Weekly Salaries")
```



#Occupation and Income Distribution Data

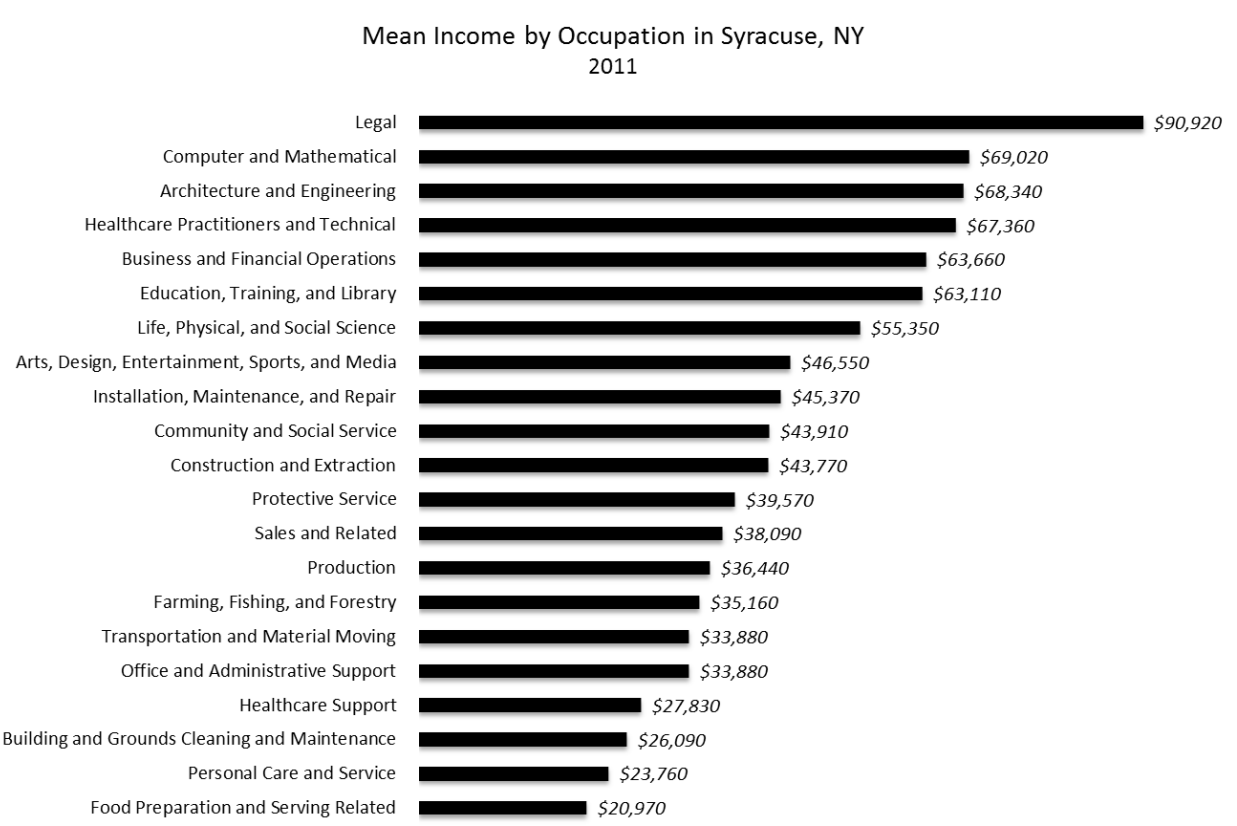


image:

Results

Mean of Male Weekly Salary is

Male_workers weekly salary

The mean of given data of Male_worker's weekly salary is 1564.111

Female_workers salary

The mean of given data of Female_worker's weekly salary is 1212.111

Conclusions and Discussions

The conclusion of this statistics show that the relationship between people's occupations and their gender seems to have a not causation but correlation. In other words, there is still appraent tendency that male workers are prone to get paid more than female ones in the same work field.