

My document

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Coding Club Project

Report on assignment

Introduction

The data was collected on the use of mobile money services and the experiences of mobile money customers in three districts of Rwanda. The dataset has been provided and you have been asked to write a short summary outlining key findings from the project. You should perform all the statistical analysis required and write up the key findings. You should remember that the target audiences do not have a statistical background.

This part shows 6 observations for the demographics

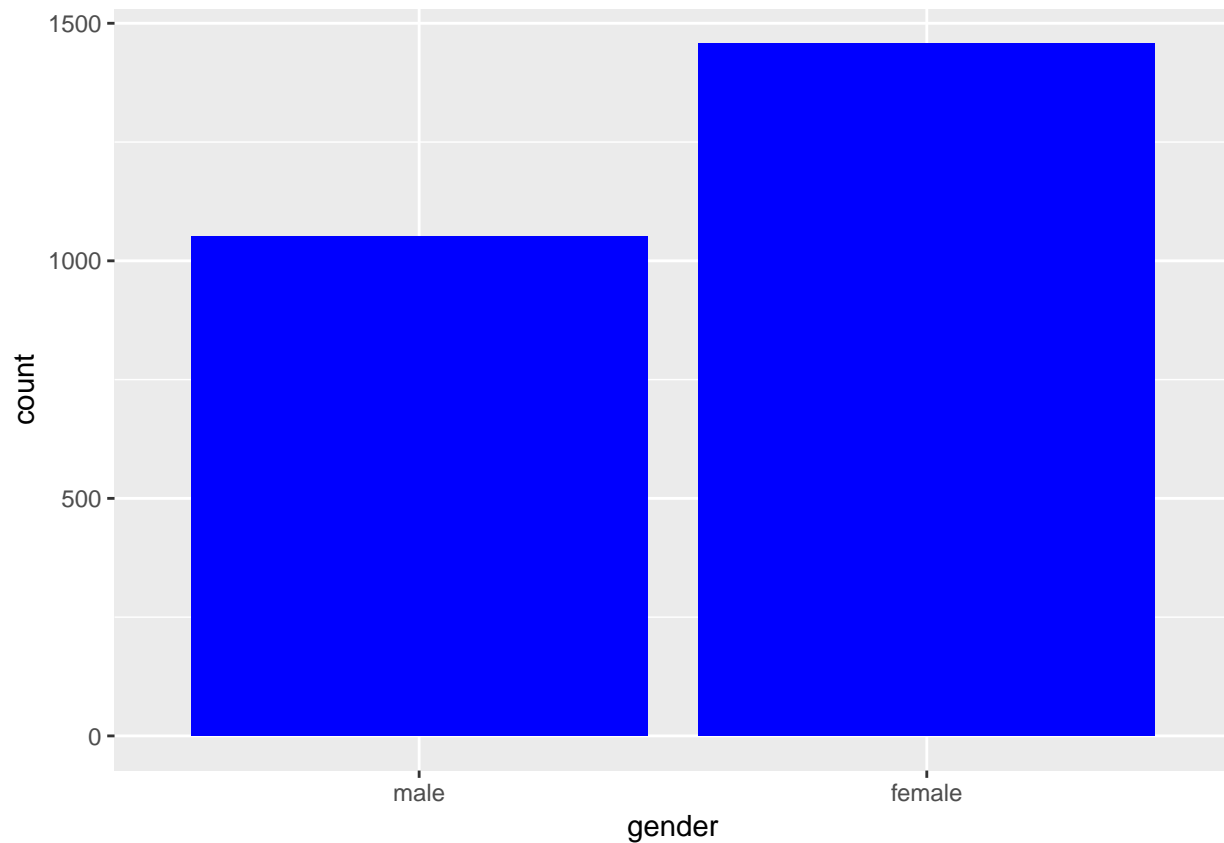
```
demographics <- data %>% select(age,gender,highest_grade_completed,hh_members)
head(demographics,6)
```

```
## # A tibble: 6 x 4
##   age gender highest_grade_completed hh_members
##   <dbl> <fct>   <chr>                                <dbl>
## 1    32 male    primary 6                                1
## 2    32 male    primary 6                                1
## 3    32 male    primary 3                                4
## 4    32 male    primary 3                                4
## 5    32 male    primary 3                                4
## 6    30 male    secondary 6                             8
```

```
#write.csv(demographics, "demographics.csv", row.names = F)
```

Distribution of gender

```
ggplot(data, aes(x = gender))+ geom_bar(fill = "blue" )
```



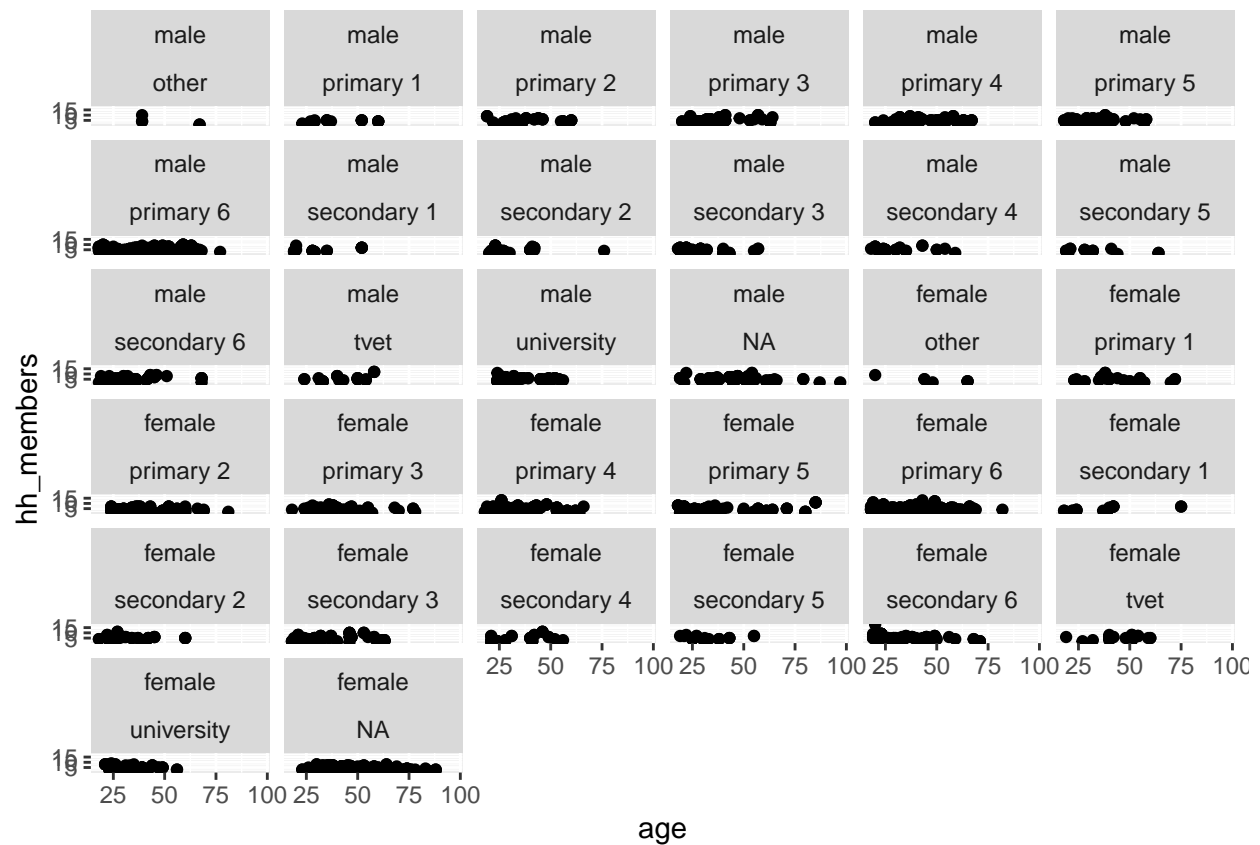
```
table(data$gender)
```

```
##  
##  male female  
##  1051   1458
```

The bar chart above show that 1458 female and 1051 male were involved in the study.

scatter plot for age against household members

```
ggplot(data,aes(x = age, y = hh_members)) + geom_point()+ facet_wrap(~gender + highest_grade_completed)
```



The distribution of types of accounts

```
data %>% group_by(account_type) %>% summarise(number = n())%>% mutate(percentage = number/sum(number)*100)
```

```
## # A tibble: 7 x 3
##   account_type      number percentage
##   <chr>            <int>      <dbl>
## 1 Mobile Money      825      32.9
## 2 VSLA Account      669      26.7
## 3 SACCO Account    467      18.6
## 4 Bank Account     323      12.9
## 5 None             131       5.22
## 6 MFI Account       82       3.27
## 7 Online Bank Account 12       0.478
```

The table above shows that mobile money and VSLA account are the most used with 32.88 and 26.66 percent of people use it. The lowest bank account used is online bank account.