# Demographics

#### Joshua Somosera

#### 2024-05-04

```
library(readr)
library(ggplot2)
data <- read_csv("/cloud/project/Group Project (Survey)/data.csv")</pre>
## New names:
## Rows: 50 Columns: 37
## -- Column specification
                                    ----- Delimiter: "," chr
## (37): Timestamp, Username, Name (First Name, Last Name):, Age:, SEX:, Ge...
## 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.
## * `` -> `...37`
print(data)
## # A tibble: 50 x 37
                            Username Name (First Name, La~1 `Age: ` `SEX: ` `Gender: `
##
      Timestamp
##
      <chr>
                            <chr>
                                     <chr>
                                                            <chr>
                                                                   <chr> <chr>
## 1 2024/03/10 10:49:41 ~ primero~ Ellema, Prime Rose
                                                                   Female Straight
## 2 2024/03/10 10:50:38 ~ keilapa~ Keila, Palmos
                                                                   Female Straight
                                                            19
## 3 2024/03/10 10:56:18 ~ reneero~ Renee Rose Flogoso
                                                            21
                                                                   Female Straight
## 4 2024/03/10 10:56:26 ~ armonio~ Mechaila Armonio
                                                                   Female Straight
                                                            19
## 5 2024/03/10 10:56:45 ~ talong7~ Christian Dave Magno
                                                            21
                                                                   Male
                                                                          Straight
## 6 2024/03/10 10:59:55 ~ camango~ ARGIE CAMANGON
                                                            19
                                                                   Male
                                                                          Straight
## 7 2024/03/10 11:00:30 ~ ventila~ Roleah Anne
                                                            20
                                                                   Female Straight
## 8 2024/03/10 11:02:12 ~ katemar~ Kayt
                                                            11
                                                                   Female Straight
## 9 2024/03/10 11:09:54 ~ brillan~ Meryll Joy Mana-ay
                                                            19
                                                                   Female Straight
## 10 2024/03/10 11:20:05 ~ opino.a~ Arabella Kristel ,Opi~ 20
                                                                   Female Straight
## # i 40 more rows
## # i abbreviated name: 1: `Name (First Name, Last Name):`
## # i 31 more variables: `School Name:` <chr>, `SECTION:` <chr>,
       `Course: (Type only the name e.g Information technology)` <chr>,
## #
      `How do you use canva? (Check all boxes that apply)` <chr>,
      `Have you used Canva to help with any assignments or projects connected to your studies?` <chr>,
       `using Canva for school-related work helps ME complete assignments more quickly.` <chr>, ...
#Removing the unnecessary columns (Timestamp, School Name, Section, and Course)
CleanedData \leftarrow data[, -c(1,7, 8, 9)]
CleanedData$`Gender:`
## [1] "Straight"
                            "Straight"
                                                "Straight"
## [4] "Straight"
                            "Straight"
                                                "Straight"
## [7] "Straight"
                            "Straight"
                                                "Straight"
```

"Straight"

"Bisexual"

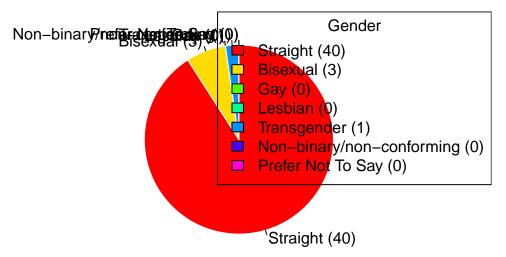
## [10] "Straight"

```
## [13] "Prefer Not to Say" "Bisexual"
                                                  "Straight"
                                                  "Prefer Not to Say"
## [16] "Prefer Not to Say" "Straight"
## [19] "Straight"
                             "Straight"
                                                  "Bisexual"
## [22] "Straight"
                                                  "Prefer Not to Say"
                             "Straight"
## [25] "Transgender"
                             "Straight"
                                                  "Straight"
## [28] "Straight"
                             "Straight"
                                                  "Straight"
                             "Straight"
## [31] "Straight"
                                                  "Straight"
## [34] "Straight"
                             "Straight"
                                                  "Straight"
## [37] "Prefer Not to Say" "Straight"
                                                  "Straight"
## [40] "Straight"
                             "Prefer Not to Say" "Straight"
## [43] "Straight"
                             "Straight"
                                                  "Straight"
## [46] "Straight"
                             "Straight"
                                                  "Straight"
## [49] "Straight"
                             "Straight"
#Factor Gender
CleanedData$`Gender:`[is.na(CleanedData$`Gender:`)] <- "Prefer Not To Say"
genderfactor <- factor(CleanedData$`Gender:`, levels = c("Straight", "Bisexual", "Gay", "Lesbian", "Tra
summary(genderfactor)
##
                    {\tt Straight}
                                                Bisexual
                                                                                Gay
##
                           40
                                                                                  0
##
                     Lesbian
                                            Transgender Non-binary/non-conforming
##
##
           Prefer Not To Say
                                                    NA's
##
                                                       6
#Factor Sex
sexfactor<-factor(CleanedData$`SEX:`, levels = c("Male", "Female"))</pre>
summary(sexfactor)
##
     Male Female
##
       23
#Factor Age
#The data has "$1" as a value, converted it to "21"
CleanedData$`Age: `[CleanedData$`Age: == "$1"] <- 21</pre>
# Convert Age: column to numeric
CleanedData$`Age:` <- as.numeric(CleanedData$`Age:`)</pre>
agefactor <- factor(CleanedData$`Age:`, levels = 11:23)</pre>
summary(agefactor)
## 11 12 13 14 15 16 17 18 19 20 21 22 23
## 1 0 0 0 0 1 1 4 14 20 8 0 1
#Getting the mean for Age
age <- c(CleanedData$`Age:`)</pre>
average <- mean(age, na.rm = TRUE)</pre>
avg <- paste("The mean age of the respondents is", average)
print(avg)
## [1] "The mean age of the respondents is 19.46"
gender_counts <- table(genderfactor)</pre>
# Plot a pie chart
pie(gender_counts,
    main = "Gender Distribution",
  col = rainbow(length(gender_counts)),
```

```
labels = paste(names(gender_counts), " (", gender_counts, ")", sep = ""),
    clockwise = TRUE,
    density = NULL,
    angle = 45,
    init.angle = 90,
    border = "white"
)

# Add a legend with counts
legend("topright",
    legend = paste(names(gender_counts), " (", gender_counts, ")", sep = ""),
    fill = rainbow(length(gender_counts)),
    title = "Gender"
)
```

## **Gender Distribution**

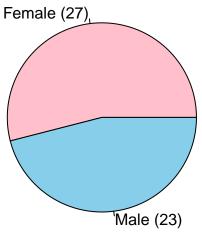


```
sex_table <- table(CleanedData$`SEX:`)

sex_colors <- c("pink", "skyblue")

pie(sex_table,
    main = "Sex Distribution",
    labels = paste(names(sex_table), " (", sex_table, ")", sep = ""),
    col = sex_colors
)</pre>
```

## **Sex Distribution**



```
age_counts <- table(agefactor)
age_labels <- names(age_counts)

pie(age_counts, labels = age_labels, col = rainbow(length(age_counts)), main = "Age Distribution")
legend("topright", legend = paste(age_labels, ": ", age_counts), fill = rainbow(length(age_counts)))</pre>
```

# **Age Distribution**

