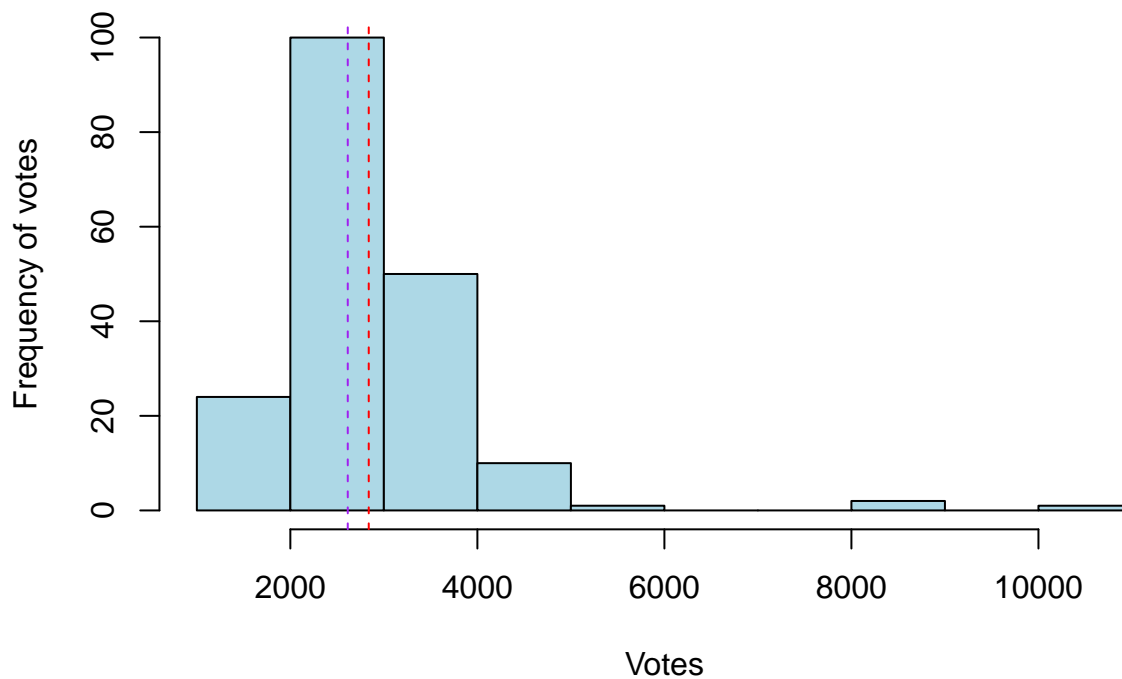# The Office

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```r
office <- read.csv("C://Projects//the_office_series.csv")
View(office)
```

```r
hist(office$Votes, main = "Votes Histogram", xlab = "Votes",
     ylab = "Frequency of votes", col = "light blue")
abline(v = mean(office$Votes), col = "red", lty = 2) #mean is in red
abline(v = median(office$Votes), col = "purple", lty = 2) #mean is in purple
```

Votes Histogram


```r
library("dplyr")
```

```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
##
##      filter, lag


## The following objects are masked from 'package:base':
##
##      intersect, setdiff, setequal, union
```

```r
library("tidyverse")
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.1 --


## v ggplot2 3.3.5      v purrr    0.3.4
## v tibble   3.1.6     v stringr 1.4.0
## v tidyr    1.1.4     v forcats 0.5.1
## v readr    2.1.1


## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```
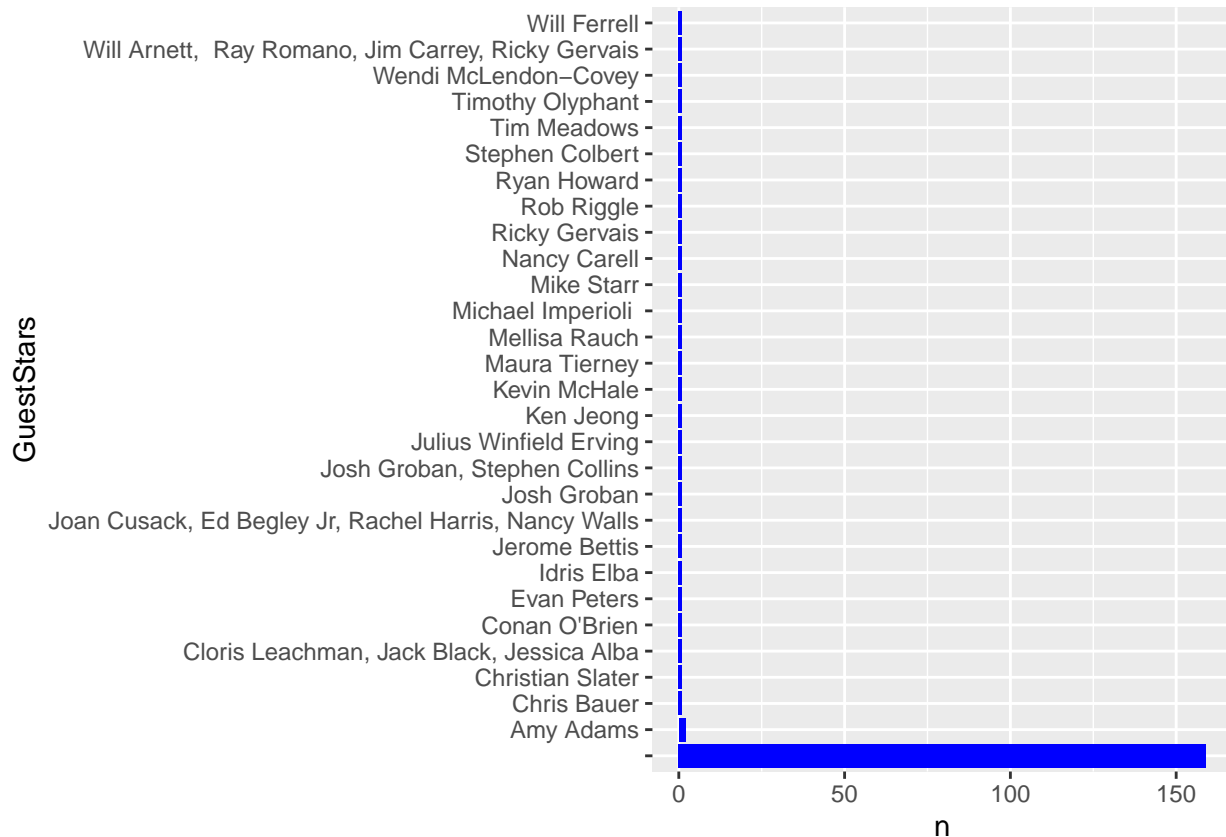
```r
library("ggplot2")
guest_stars <- office %>%
  count(GuestStars)
guest_stars
```

```
##                                                     GuestStars    n
## 1                                                                159
## 2                                            Amy Adams    2
## 3                                           Chris Bauer    1
## 4                                       Christian Slater    1
## 5          Cloris Leachman, Jack Black, Jessica Alba    1
## 6                                         Conan O'Brien    1
## 7                                           Evan Peters    1
## 8                                             Idris Elba    1
## 9                                         Jerome Bettis    1
## 10 Joan Cusack, Ed Begley Jr, Rachel Harris, Nancy Walls    1
## 11                                           Josh Groban    1
## 12                         Josh Groban, Stephen Collins    1
## 13                               Julius Winfield Erving    1
## 14                                            Ken Jeong    1
## 15                                          Kevin McHale    1
## 16                                         Maura Tierney    1
## 17                                         Mellisa Rauch    1
## 18                                     Michael Imperioli    1
## 19                                            Mike Starr    1
## 20                                          Nancy Carell    1
## 21                                         Ricky Gervais    1
## 22                                            Rob Riggle    1
## 23                                          Ryan Howard    1
## 24                                       Stephen Colbert    1
## 25                                           Tim Meadows    1
```
```

```
## 26                                                 Timothy Olyphant   1
## 27                                             Wendi McLendon-Covey   1
## 28    Will Arnett,  Ray Romano, Jim Carrey, Ricky Gervais   1
## 29                                                    Will Ferrell   1
```

```r
p <- ggplot(guest_stars, aes(x = GuestStars, y = n )) +
  geom_bar(stat = "identity", fill = "blue")
p + coord_flip()
```



```r
writers <- office %>%
  count(Writers)
plot_w <- ggplot(writers, aes(x = Writers, y = n )) +
  geom_bar(stat = "identity", fill = "orange")
plot_w + coord_flip()
```