

Barplot

2022-07-17

Load the Data

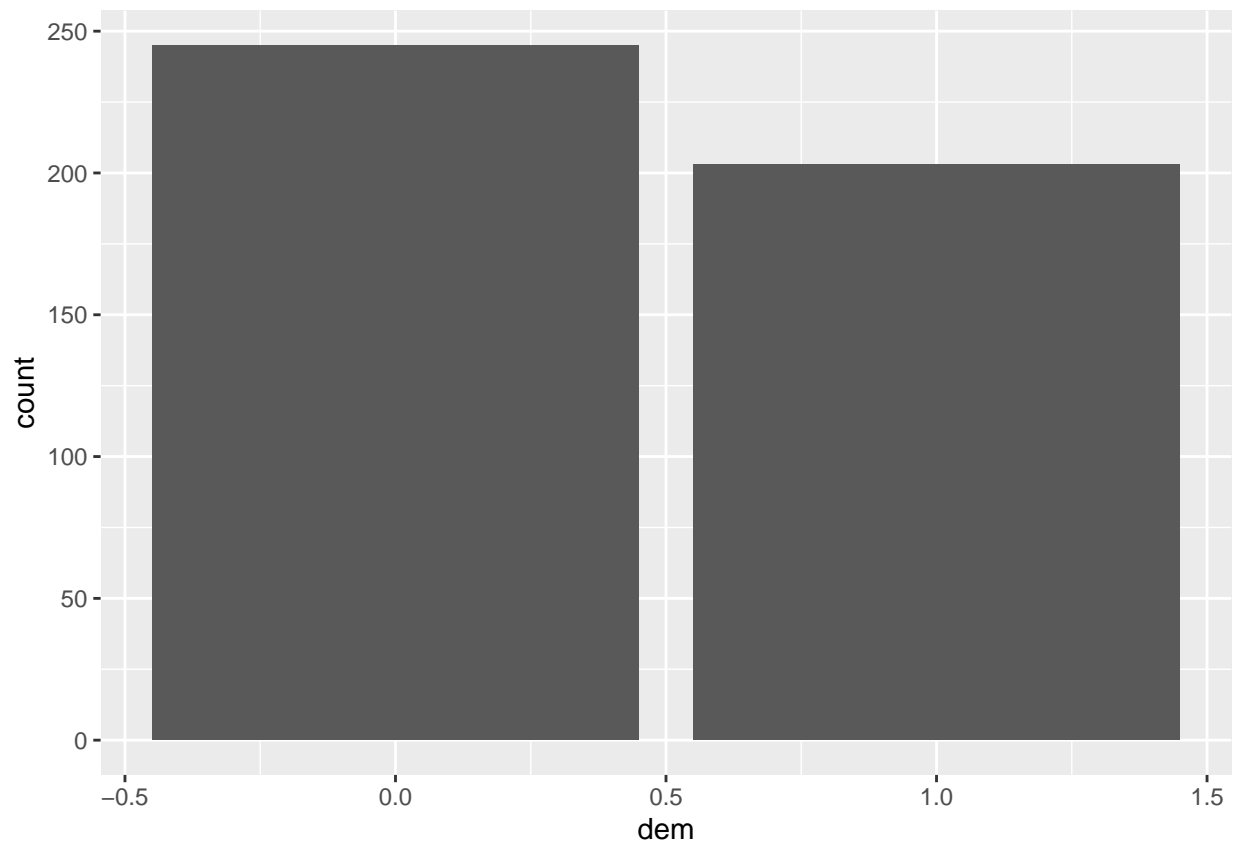
```
data <- read_csv("cel_dataset_coursera.csv")

## Rows: 10262 Columns: 38
## -- Column specification -----
## Delimiter: ","
## chr (2): thomas_name, st_name
## dbl (36): thomas_num, icpsr, congress, year, cd, dem, elected, female, votep...
##
## 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.
```

Bar Plot

Vertical Bar Plot

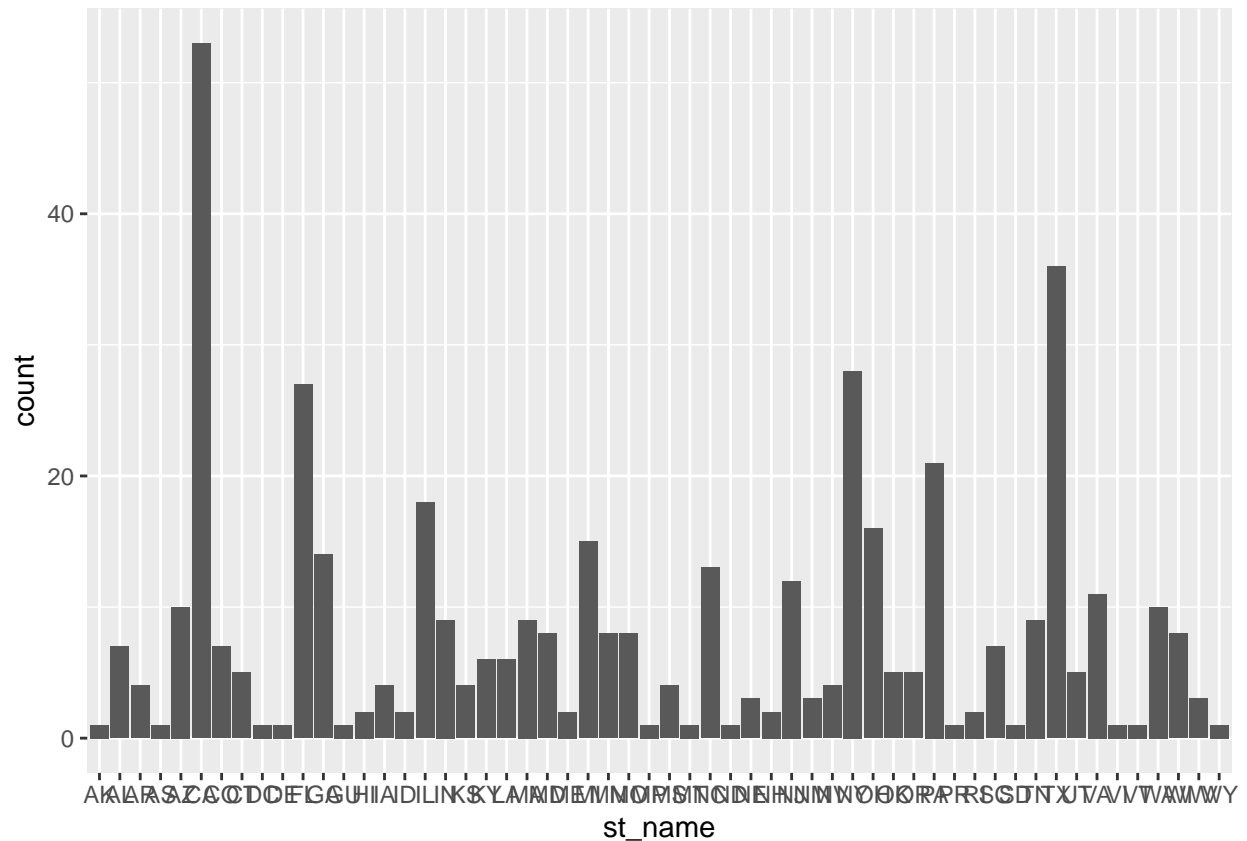
```
data %>%
  filter(congress==115)%>%
  ggplot(aes(x = dem))+
  geom_bar()
```

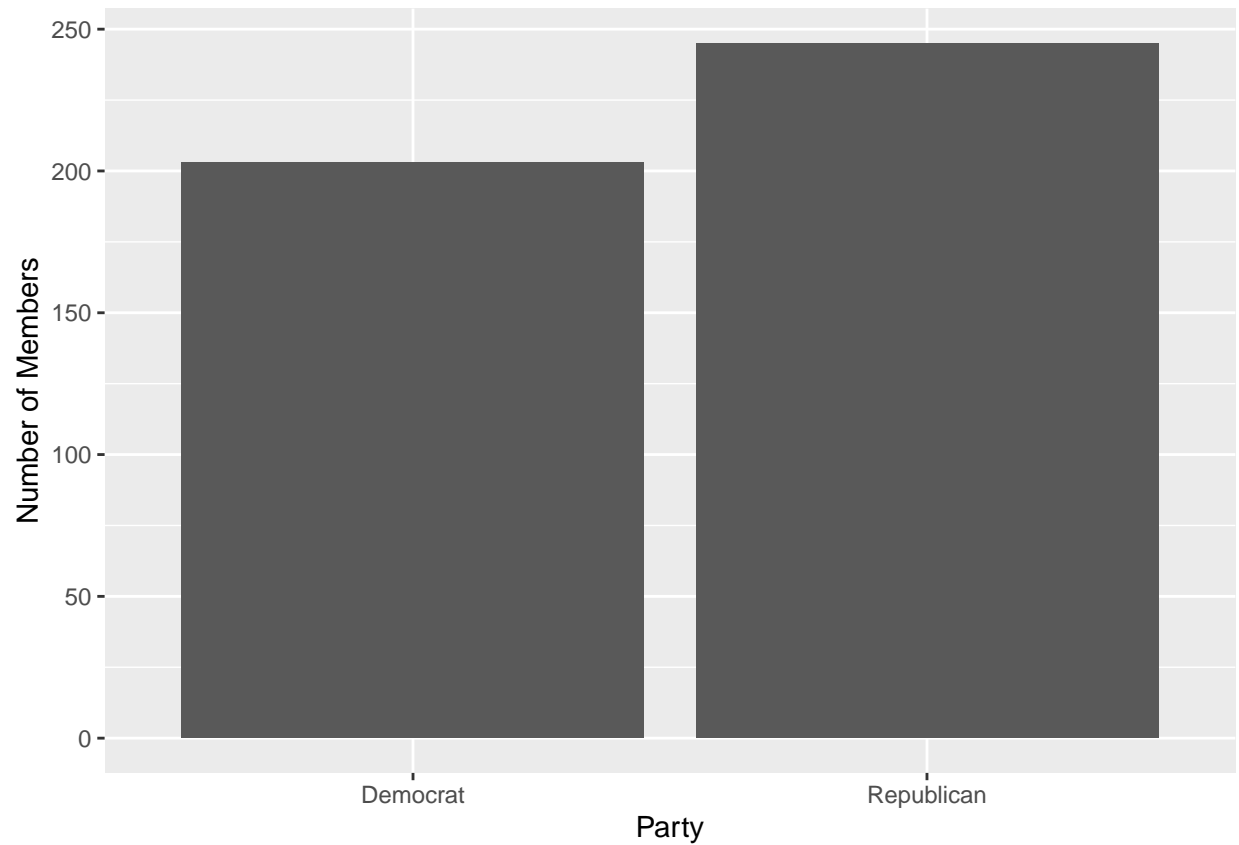


prove to yourself your bar plot is right by comparing with a frequency table:
`kable(table(filter(data, congress == 115)$dem))`

Var1	Freq
0	245
1	203

use st_name instead, so how counts of how many members of Congress from each state:
`data %>%
 filter(congress==115)%>%
 ggplot(aes(x = st_name))+
 geom_bar()`





Vertical Bar Plot

```
# flip the figure by setting y aesthetic rather than the x  
data %>%  
  filter(congress==115)%>%  
  ggplot(aes(y = st_name))+  
  geom_bar()
```

