PSTAT 10 Worksheet 10

Setup

```
library(tidyverse)
```
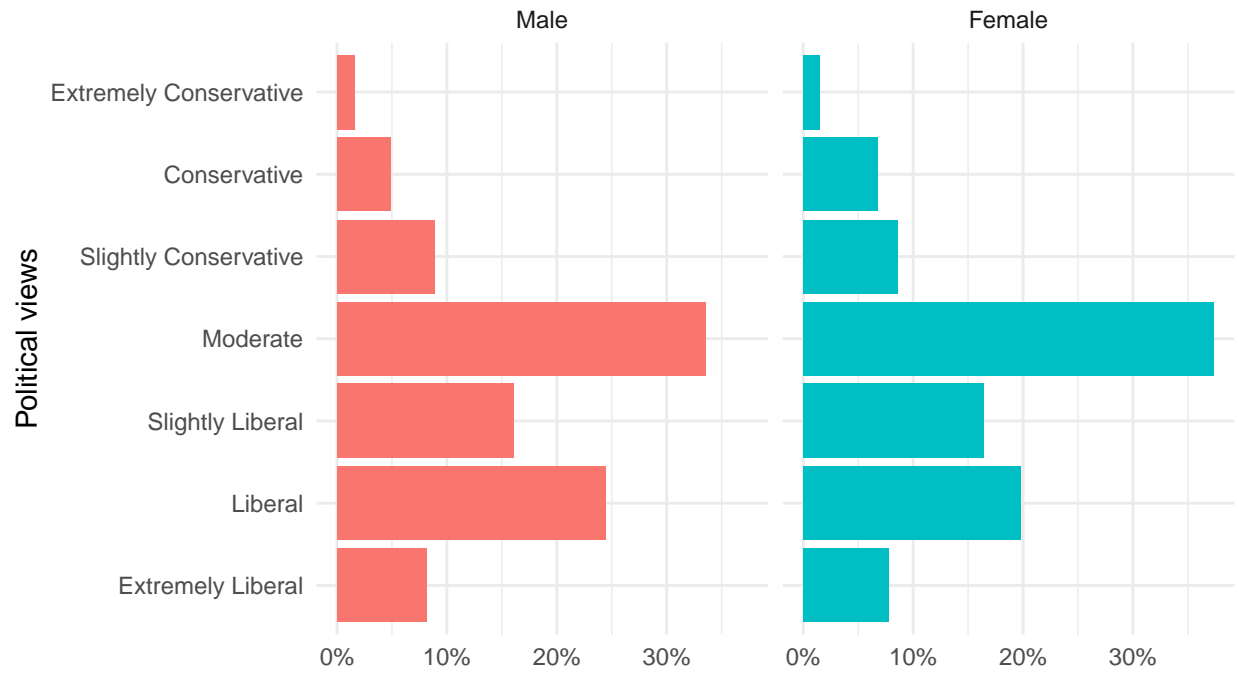
```
## -- Attaching core tidyverse packages ----------------------- tidyverse 2.0.0 --
## v dplyr     1.1.4     v readr     2.1.5
## v forcats   1.0.0     v stringr   1.5.1
## v ggplot2   3.5.1     v tibble    3.2.1
## v lubridate 1.9.3     v tidyr     1.3.1
## v purrr     1.0.2
## -- Conflicts ------------------------------------------- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
library(socviz)
```

Problem 1

```
plot_gss_sm_male <- gss_sm |> filter(obama == 1, sex=='Male') |> group_by(polviews, sex) |> summarize(co
```

```
## `summarise()` has grouped output by 'polviews'. You can override using the
## `.groups` argument.
```

```
plot_gss_sm_female <- gss_sm |> filter(obama == 1, sex=='Female') |> group_by(polviews, sex) |> summariz
```

```
## `summarise()` has grouped output by 'polviews'. You can override using the
## `.groups` argument.
```

```
plot_gss_sm <- rbind(plot_gss_sm_male, plot_gss_sm_female)
plot <- ggplot(plot_gss_sm, mapping=aes(x=percentage, y=polviews, group=sex, fill=sex))
plot  + geom_col(aes(group=sex)) +
        facet_wrap(~sex) +
        labs(x = '', y = 'Political views', title='Political views and voting in the 2012 election', sub
        scale_x_continuous(breaks=c(0.0, 0.1, 0.2, 0.3), labels=c('0%', '10%', '20%', '30%')) +
        guides(fill='none') +
        theme_minimal()
```

Political views and voting in the 2012 election
Obama's vote share among men and women