Practice Tidy Data, Group 6

Teresa Burlingame, Julie Sampson, Josh Olsen, Jake Oetinger, Katie Tallan, Susan McNerny, David Con May 3, 2020

slope Graph - Tufte - Group Assignment Week 5

```
#install.packages("qqrepel")
# Data Set
tax <- tribble(</pre>
 ~ Country, ~ `1970`, ~ `1979`,
"Sweden", 46.9. 57.4.
 "Sweden",
                  46.9,
                                57.4,
 "Netherlands", 44.0,
                                55.8,
 "Norway",
                   43.5,
                              52.2,
  "Britain",
                   40.7,
                              39.0,
 "France",
                    39.0,
                                43.4,
 "Germany",
                   37.5,
                                42.9,
  "Belgium",
                   35.2,
                                43.2,
  "Canada",
                    34.9,
                                35.8,
  "Finland",
                    34.9,
                                38.2,
 "Italy",
                   30.4,
                                35.7,
 "United States"

"Greece", 26.8,

"Switzerland", 26.5,

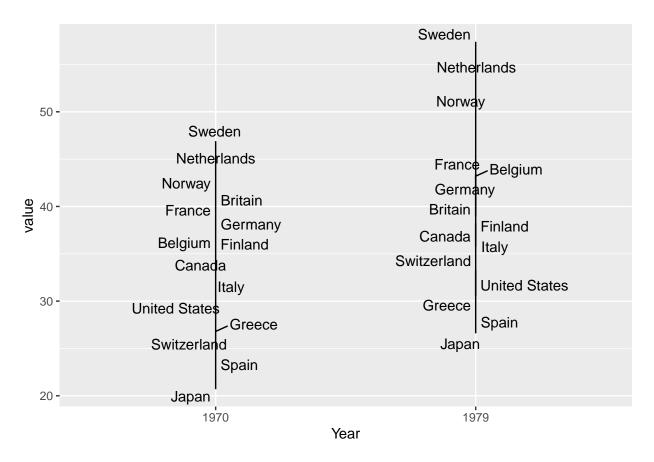
22.5,
  "United States", 30.3,
                              32.5,
                               30.6,
                                33.2,
                                27.1,
                                26.6
  "Japan",
                     20.7,
tax_pivoted <- tax %>% pivot_longer(c("1970","1979"), names_to = "Year")
tax_pivoted
```

```
## # A tibble: 30 x 3
##
     Country
             Year value
##
     <chr>
                <chr> <dbl>
## 1 Sweden
                1970
                       46.9
             1979
## 2 Sweden
## 3 Netherlands 1970
                       44
## 4 Netherlands 1979
                       55.8
## 5 Norway
               1970
                       43.5
## 6 Norway
                1979
                       52.2
## 7 Britain
                1970
                       40.7
```

```
## 8 Britain 1979 39
## 9 France 1970 39
## 10 France 1979 43.4
## # ... with 20 more rows

tax_slope <- ggplot(tax_pivoted, aes(Year, value)) +
    geom_line()+
    geom_text_repel(aes(label=Country))

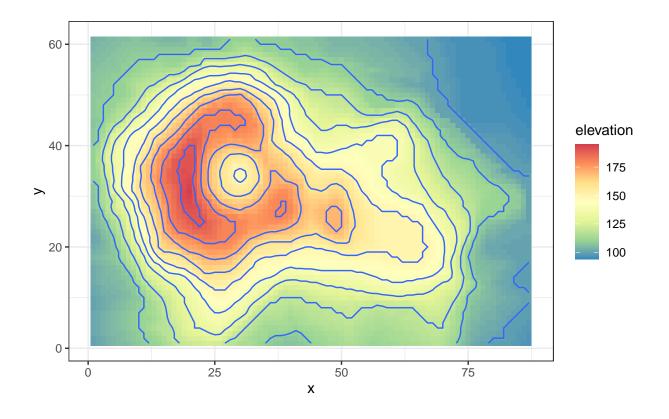
# p<-ggplot(a) + geom_segment(aes(x=0,xend=months,y=year1,yend=year3),size=.75)
tax_slope</pre>
```



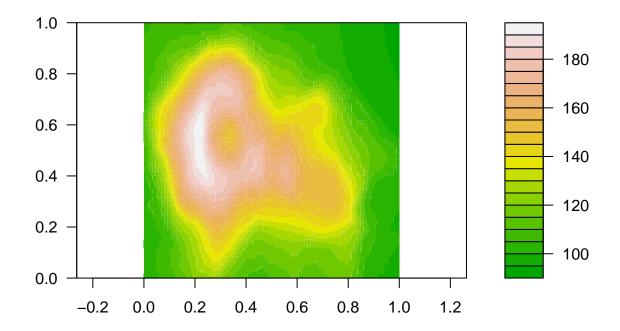
Volcano Heat Map

```
volcano_tbl <- as_tibble(volcano)</pre>
```

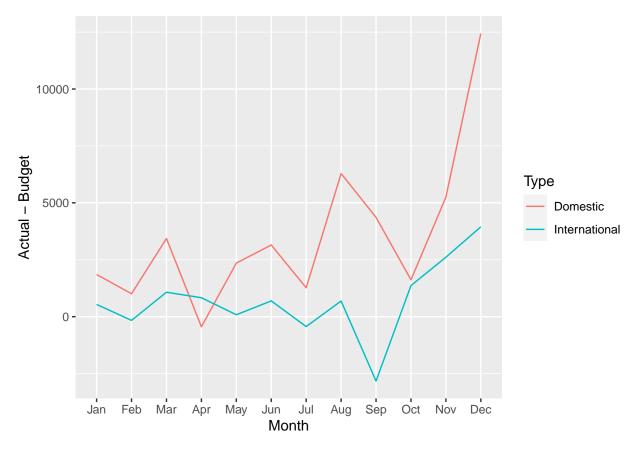
```
## Warning: The `x` argument of `as_tibble.matrix()` must have column names if `.name_repair` is omitte
## Using compatibility `.name_repair`.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_warnings()` to see where this warning was generated.
```



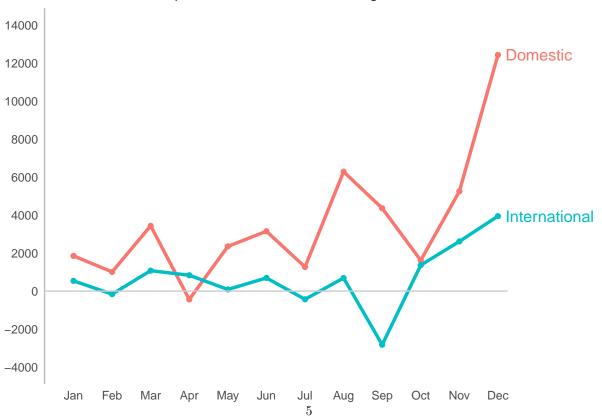
```
filled.contour(volcano, color.palette = terrain.colors, asp = 1)
```

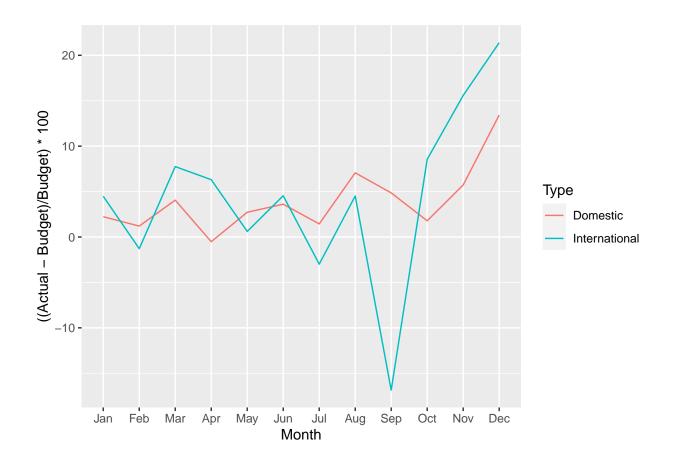


Question 3



Expense Variance from Budget in U.S Dollars





Percentatge Variance of Expenses from Budget

