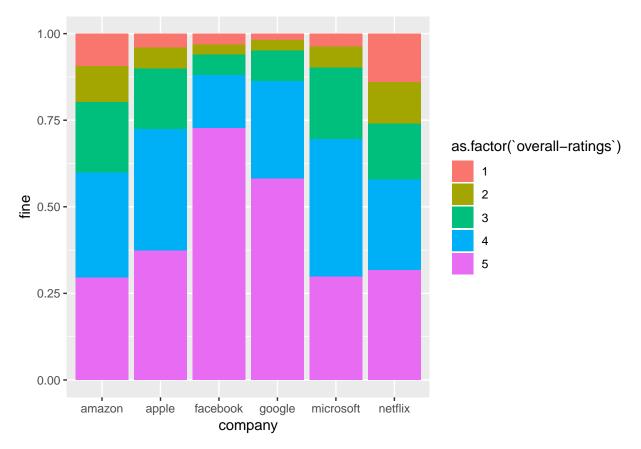
EmployeeReview-Vivek

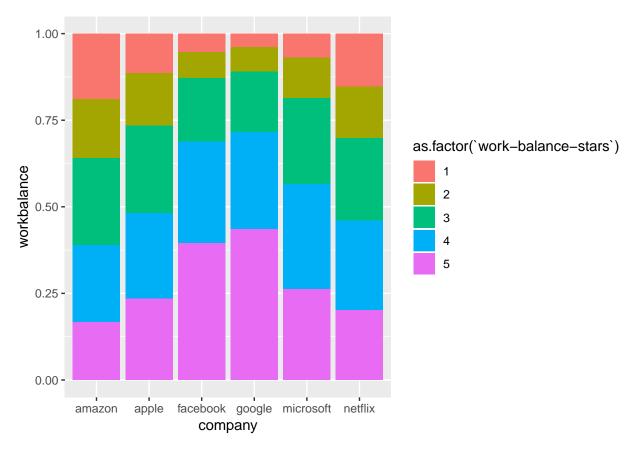
SaiNagaChandraVivekGarimella August 14, 2019

```
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
##
library(readr)
library(ggplot2)
library(tidyverse)
## -- Attaching packages -----
## v tibble 1.4.2
                      v purrr
                               0.2.5
## v tidyr
           0.8.2
                      v stringr 1.3.1
## v tibble 1.4.2
                     v forcats 0.3.0
## -- Conflicts ------
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                   masks stats::lag()
library(lubridate)
## Attaching package: 'lubridate'
## The following object is masked from 'package:base':
##
##
      date
read_data <- read_csv("C:/Users/garim/OneDrive/Desktop/NEU/Introduction to Data Management and Processi
                 na = c("none", "n/a") )
## Warning: Missing column names filled in: 'X1' [1]
## Parsed with column specification:
## cols(
##
    X1 = col_double(),
##
    company = col_character(),
##
    location = col_character(),
##
    dates = col_character(),
##
    `job-title` = col_character(),
##
    summary = col_character(),
##
    pros = col_character(),
    cons = col_character(),
##
    `advice-to-mgmt` = col_character(),
##
```

```
##
     `overall-ratings` = col_double(),
##
     `work-balance-stars` = col_double(),
     `culture-values-stars` = col_double(),
##
     `carrer-opportunities-stars` = col_double(),
##
##
     `comp-benefit-stars` = col_double(),
     `senior-mangemnet-stars` = col_double(),
##
     `helpful-count` = col_double(),
     link = col_character()
##
## )
locations_df <- read.csv("file:///C:/Users/garim/OneDrive/Desktop/NEU/Introduction to Data Management a
tidy_data <- read_data %>% full_join(locations_df) %>%
            select(-X) %>%
            separate(`job-title` , into=c("job-title","designation"), sep = "-")
## Joining, by = "location"
## Warning: Column `location` joining character vector and factor, coercing
## into character vector
## Warning: Expected 2 pieces. Additional pieces discarded in 642 rows [146,
## 242, 252, 827, 954, 1314, 1892, 1997, 2594, 2670, 4649, 5135, 5331, 5716,
## 6006, 6138, 6179, 6343, 6595, 6693, ...].
general_data <- read_data
general_data<-general_data %>% filter(`overall-ratings` !="none" & `culture-values-stars`!="none" & `w
companynames <-general_data %>% group_by(company) %>% summarise(observations = n())
company_overallrating <-general_data %>% group_by(`overall-ratings`,company) %>% summarise(rating = n()
# overal rating proportions each company
full_join(companynames,company_overallrating) %>% mutate(fine=rating/observations) %>% ggplot()+geom_ba
## Joining, by = "company"
```



```
company_workbalance<- general_data %>% group_by(`work-balance-stars`,company) %>% summarise(total=n())
full_join(company_workbalance,companynames) %>% mutate(workbalance= total/observations ) %>% ggplot()+g
## Joining, by = "company"
```



```
general_data[["dates"]] <-mdy(general_data[["dates"]])</pre>
```

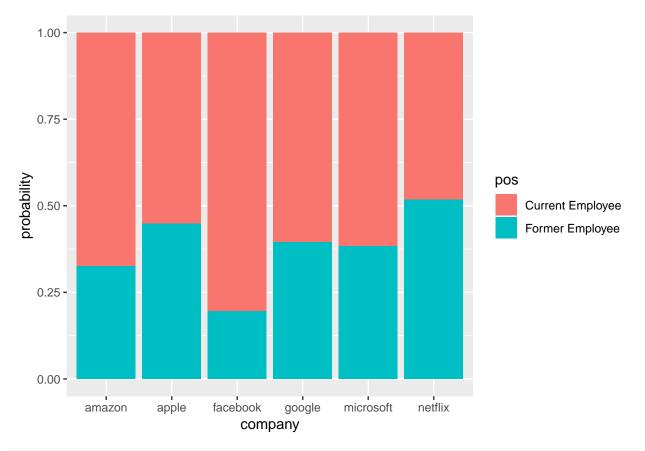
```
## Warning: 4 failed to parse.
general_data<-mutate(general_data,year=year(dates))

general_data<-mutate(general_data,pos= str_sub(general_data[["job-title"]],1,16))
general_data<-mutate(general_data,pos=str_trim(general_data[["pos"]]))

company_position <-general_data %>% group_by(pos,company) %>% summarise(position=n())

full_join(company_position,companynames) %>% mutate(probability=position/observations) %>% ggplot()+ge

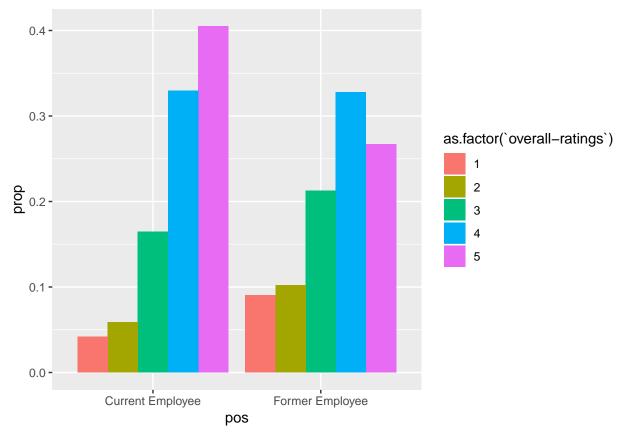
## Joining, by = "company"
```



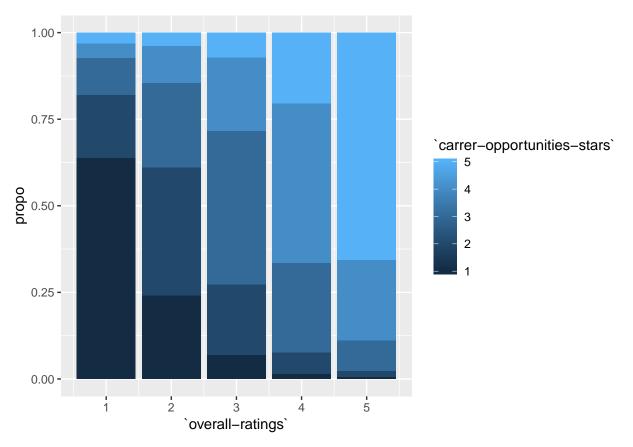
general_data

```
## # A tibble: 53,222 x 19
         X1 company location dates
                                        `job-title` summary pros cons
##
                    <chr>
##
      <dbl> <chr>
                             <date>
                                        <chr>
                                                     <chr>
                                                             <chr> <chr>
                             2018-12-11 Current Em~ Best C~ Peop~ Bure~
##
   1
          1 google
                    Mountai~ 2013-06-21 Former Emp~ Moving~ "1) ~ "1) ~
##
          2 google
                    New Yor- 2014-05-10 Current Em- Great - "* I- * It-
##
          3 google
          4 google Mountai~ 2015-02-08 Current Em~ The be~ You ~ I li~
##
##
          5 google Los Ang~ 2018-07-19 Former Emp~ Unique~ Goog~ "If ~
          6 google Mountai~ 2018-12-09 Former Emp~ NICE w~ Peop~ Food~
##
##
          7 google New Yor~ 2018-12-11 Current Em~ Softwa~ Grea~ Usua~
##
   8
          8 google <NA>
                             2018-12-11 Former Emp~ great ~ work~ No c~
          9 google New Yor~ 2018-12-10 Current Em~ Google~ Grea~ Youn~
##
                             2018-12-09 Current Em~ Execel~ Impa~ Size~
## 10
         10 google <NA>
\#\# ## ... with 53,212 more rows, and 11 more variables:
       `advice-to-mgmt` <chr>, `overall-ratings` <dbl>,
       `work-balance-stars` <dbl>, `culture-values-stars` <dbl>,
## #
       `carrer-opportunities-stars` <dbl>, `comp-benefit-stars` <dbl>,
## #
       `senior-mangemnet-stars` <dbl>, `helpful-count` <dbl>, link <chr>,
## #
       year <dbl>, pos <chr>
positions<-general_data %>% group_by(pos) %>% summarise(totalpos=n())
overall_pos<-general_data %>% group_by(pos, `overall-ratings`) %>% summarise(eachpos=n())
full_join(positions, overall_pos) %>% mutate(prop=eachpos/totalpos) %>% ggplot()+geom_bar(mapping = aes(
```

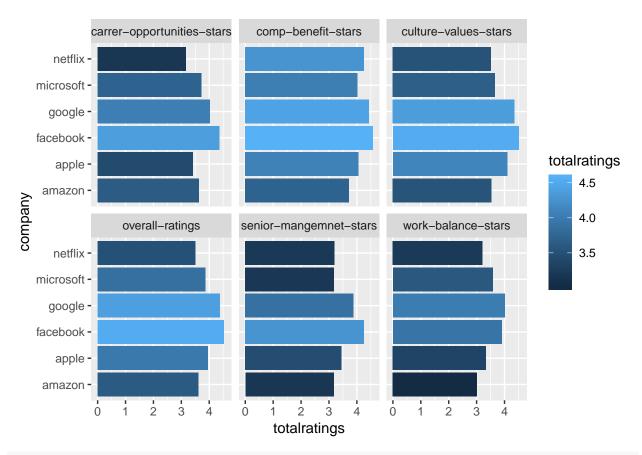
Joining, by = "pos"



```
overall_ratings<-general_data %>% group_by(`overall-ratings`) %>% summarise(overall=n())
overall_ratings_career<-general_data %>% group_by(`overall-ratings`,`carrer-opportunities-stars`) %>% s
full_join(overall_ratings,overall_ratings_career) %>% mutate(propo=overallcareer/overall) %>% ggplot()+
## Joining, by = "overall-ratings"
```



average<- general_data %>% gather(`overall-ratings`,`work-balance-stars`,`culture-values-stars`,`carrer
full_join(average,companynames) %>% group_by(company,fields) %>% mutate(totalratings=totalsum/observati
Joining, by = "company"



average_pos<- general_data %>% gather(`overall-ratings`,`work-balance-stars`,`culture-values-stars`,`cal
full_join(companynames,average_pos) %>% mutate(totalratings=numerator/observations) %>% ggplot()+geom_
Joining, by = "company"

