State of woman and the Tea events attendees roles

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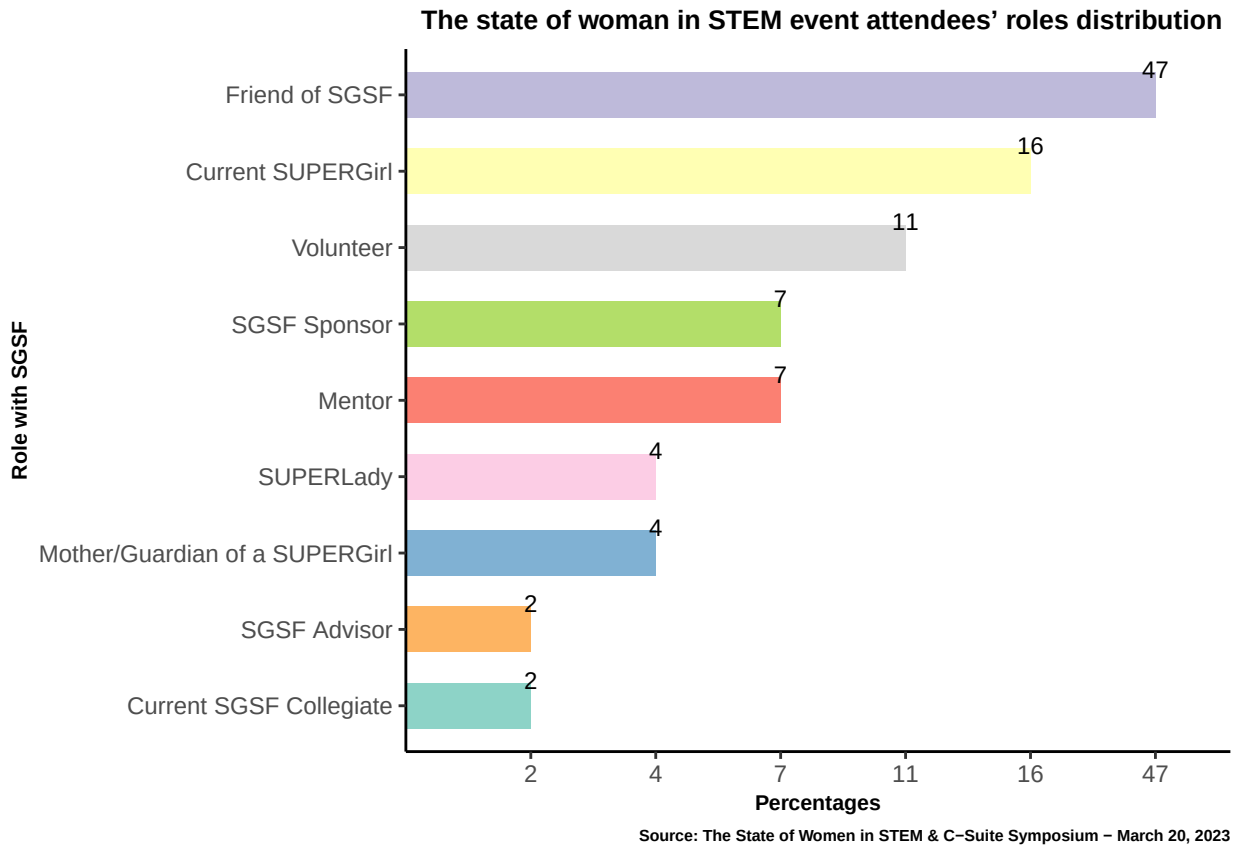
Our goals of interest in this project would be to study the distribution of the State of woman event and the Ladies & Girls leadHERs TEA event attendees grouped by their roles, and visualize the outcomes.

```
library(tidyverse)
library(RColorBrewer)
library(plotly)
library(plyr)
library(gt)
library(stringr)
library(stringi)
library(mapquestr)
library(leaflet)

data<- readr::read_csv("The_State_of_Women_in_STEM.csv")

Role_counts<- data %>% select(`First Name`, `Your Primary Role with SGSF ...`)%>%
  dplyr::count(data$`Your Primary Role with SGSF ...`)
names(Role_counts)[1] <- 'Role'

Role_counts_percentages <- mutate(Role_counts, Percentage= round(Role_counts$n/sum(n)*100))


colourCount = length(unique(Role_counts_percentages$Role))
getPalette = colorRampPalette(brewer.pal(colourCount, "Set3"))


p1<-ggplot(Role_counts_percentages, aes(x= fct_reorder(factor(Role_counts_percentages$Role),+ Role_coun
                              text=paste("Roles distribution:",Role_counts_percentages$Role,
                                         "<br>Percentages:",Role_counts_percentages$Percentage
                              )))+

  geom_bar(stat = 'identity',width = 0.6)+
  ggtitle(" The state of woman in STEM event attendees' roles distribution")+
  theme_classic()+
  theme(legend.position="none")+
  coord_flip()+
  labs(y="Percentages",x="Role with SGSF", caption = "Source: The State of Women in STEM & C-Suite Symp
```

```
  theme(title = element_text(size = 8, face = "bold"),
        plot.title = element_text(hjust = 0.5),
        axis.title.x = element_text(size = 8, face = "bold"),
        axis.title.y = element_text(size = 8, face = "bold"),
        legend.position="none") +
  geom_text(aes(label = signif(Role_counts_percentages$Percentage)),position=position_dodge(0.9),vjust =

p1+scale_fill_manual(values = getPalette(colourCount))
```




```
data<- readr::read_csv("Ladies_Girls_leadHERs_TEA.csv")

Role_counts<- data %>% select(`First Name`, `Your Primary Role with SGSF ...`)%>%
  dplyr::count(data$`Your Primary Role with SGSF ...`)
names(Role_counts)[1] <- 'Role'

Role_counts_percentages <- mutate(Role_counts, Percentage= round(Role_counts$n/sum(n)*100))


colourCount = length(unique(Role_counts_percentages$Role))
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p1<-ggplot(Role_counts_percentages, aes(x= fct_reorder(factor(Role_counts_percentages$Role),+ Role_coun
                                text=paste("Roles distribution:",Role_counts_percentages$Role,
                                           "<br>Percentages:",Role_counts_percentages$Percentage
```

```
                                ))+

  geom_bar(stat = 'identity',width = 0.6)+
  ggtitle("Ladies & Girls leadHERs TEA attendees' roles distribution")+
  theme_classic()+
  theme(legend.position="none")+
  coord_flip()+
  labs(y="Percentages",x="Role with SGSF", caption = "Source: Ladies & Girls leadHERs TEA - March 4, 202
  theme(title = element_text(size = 8, face = "bold"),
        plot.title = element_text(hjust = 0.5),
        axis.title.x = element_text(size = 8, face = "bold"),
        axis.title.y = element_text(size = 8, face = "bold"),
        legend.position="none") +
  geom_text(aes(label = signif(Role_counts_percentages$Percentage)),position=position_dodge(0.9),vjust =

p1+scale_fill_manual(values = getPalette(colourCount))
```