gg2_secondaryEMH

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I wish to explore secondary student responses to the question: Overall, how do you feel about your life? Responses were on a 5 point likert scale, which consisted of 5 emojis ranging from very sad to very happy.

Data is provided by and property of Youth Truth Student Survey, a national nonprofit, and may only be shared in aggregate for the confidentiality of students and clients.

Our sample consisted of 161,340 secondary students (Grades 6-12) in the 2021-22 school year across 19 states, and 442 schools.

Schools that choose to work with Youth Truth, and opt in to the Emotional and Mental health additional topic administered the question to students.

Loading and prepping data

```
HS<-read.csv("/Users/valerier/Dropbox (CEP)/YouthTruth/Data and Research/EMH Back to School 2022/R Scrip
MS<-read.csv("/Users/valerier/Dropbox (CEP)/YouthTruth/Data and Research/EMH Back to School 2022/R Scrip
```

```
HS_subset<- HS[ ,c("em_life","gender", "racen")]

MS_subset<-MS[ ,c("m_em_life","m_gender", "m_racen")]

colnames(MS_subset)<-c("em_life","gender", "racen")

Secondary<-rbind(HS_subset,MS_subset)

Secondary<-na.omit(Secondary)

summary(Secondary)
```

```
##     em_life          gender          racen
## Min.   :1.000   Min.   : 1.00   Min.   : 1.000
## 1st Qu.:3.000   1st Qu.: 1.00   1st Qu.: 1.000
## Median :4.000   Median : 2.00   Median : 2.000
## Mean   :3.608   Mean   :12.33   Mean   : 7.103
## 3rd Qu.:4.000   3rd Qu.: 2.00   3rd Qu.: 5.000
## Max.   :5.000   Max.   :99.00   Max.   :99.000
```

Loading various libraries (as I was testing I lost track of which I used and chose not to use, so I kept them all in!)

```
library(ggplot2)
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
```

```r
library(tidyr)
library(ggthemes)
library(viridis)
```

```
## Loading required package: viridisLite
```

```r
library(viridisLite)
library(distributional)
library(ggdist)
library(patchwork)
```

Creating Graph

This is the first iteration, a stacked bar graph comparing responses by gender. It gives a good impression of the response distribution by gender

```r
#Manually add our YT colors for our pallette
YTPalette<-c("#0fb2cb","#288fbd", "#b0c5cc", "#efe15f","#f99c25")



#Filtering out no answer and 'skip this question' responses to the gender question as they do not provi
genderplot<-Secondary %>% filter(gender != 77 & gender !=99) %>%
  ggplot() +
  #setting up bar graphs with likert data as the fill, separated by gender
  #lyt=blank removes the outlines from the bars, which I found distracting
  #Likert and gender data, must be entered as factor
  geom_bar(aes(x = gender, fill = forcats::fct_rev(factor(em_life))), position = 'fill', lty="blank")+
  #applying custom colors and labels
  scale_fill_manual(values= YTPalette,labels = rev(c("very negative", "negative","neutral","positive",
  ylab('Proportion')+
  scale_y_continuous(labels = scales::percent)+
  xlab('Gender')+
  #renaming what were numerically categorical variables
  scale_x_discrete(limit = c("Male", "Female", "Non-binary"))+
  #provided a descriptive title
  labs(title="Overall, how do you feel about your life?", subtitle = "Responses from secondary students
  #flipping coordinates to make a stacked bar
  coord_flip()

genderplot
```

Overall, how do you feel about your life?

Responses from secondary students (2021–22, n=160,672)