DataFest_Analysis

$S^{2LZ}2$

```
library(tidyverse)
library(knitr)
library(broom)
library(nnet) # for multinomial logistic regression
```

R Markdown

```
CA <- read_csv("~/df_data/CA/ca.csv")

DE <- read_csv("~/df_data/DE/de.csv")

UK <- read_csv("~/df_data/UK/uk.csv")

US18 <- read_csv("~/df_data/US/us_18.csv")

US19 <- read_csv("~/df_data/US/us_19.csv")

US18%>%

count(HEALTH_ROLE)
```

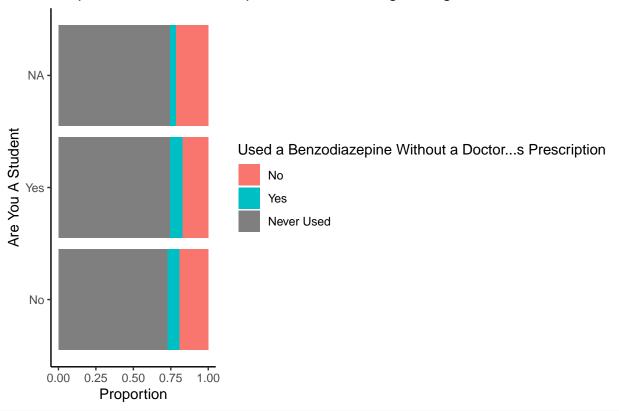
```
## # A tibble: 17 x 2
##
     HEALTH_ROLE
##
       <dbl> <int>
## 1
           1
                  113
## 2
              2
                  52
## 3
              3
                   56
## 4
                  251
## 5
             5
                  12
## 6
              6
                   36
## 7
              7
                  44
## 8
                   51
                   27
## 9
              9
## 10
             10
                   23
## 11
                  16
             11
## 12
             12
                   75
             13
## 13
                   9
## 14
             14
                   50
## 15
             15
                   95
## 16
             16
                  548
## 17
             NA 28549
#BENZ, THC, STIM
#BENZ_NUM: 5, 7, 14
#STIM_USE: 5, 7, 14
```

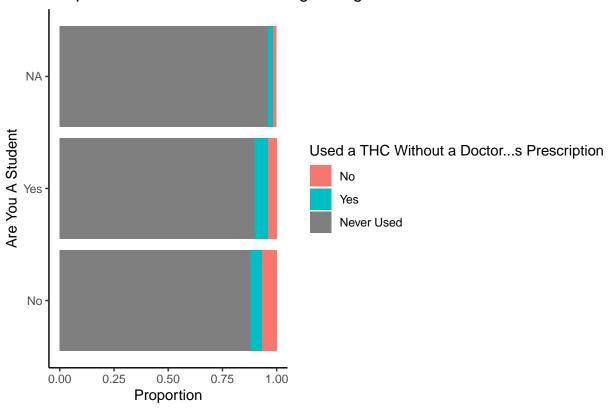
Including Plots

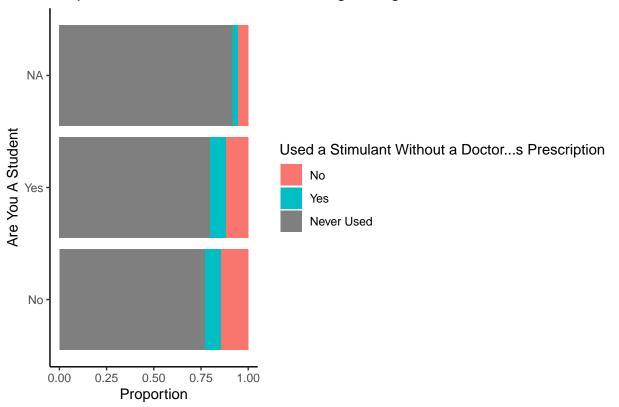
```
## # A tibble: 187 x 2
##
     names
##
     <chr>
                 <dbl>
## 1 DATE
                   0
## 2 STATUS
## 3 DEM_GENDER
                     0
## 4 DEM_AGE
                     0
## 5 DEM_STDNT
## 6 DEM_VET
## 7 DEM_HEALTH
                     0
## 8 DEM LOCATION
## 9 DEM_POSTAL
## 10 DEM_MARITAL
## # ... with 177 more rows
## # A tibble: 185 x 2
## names
##
     <chr>
                <dbl>
## 1 DATE
## 2 STATUS
## 3 QLANG
## 4 DEM_GENDER
                      0
## 5 DEM_AGE
                      0
## 6 DEM_ABOR
## 7 DEM_ABOR_TYPE 9574
## 8 DEM_STDNT
                      0
## 9 DEM_VET
                      0
## 10 DEM HEALTH
## # ... with 175 more rows
## # A tibble: 199 x 2
## names x
     <chr>
##
                <dbl>
## 1 DATE
## 2 STATUS
## 3 DEM GENDER
## 4 DEM_AGE
## 5 DEM_STDNT
                     0
## 6 DEM_VET
                     0
## 7 DEM HEALTH
## 8 DEM_POSTAL
                     0
## 9 DEM_HISPANIC
## 10 DEM_RACE
## # ... with 189 more rows
## # A tibble: 523 x 2
##
   names
                     Х
##
     <chr>
                  <dbl>
## 1 DATE
                      0
## 2 STATUS
## 3 QLANG
## 4 DEM GENDER
## 5 DEM_AGE
## 6 DEM_POSTAL
```

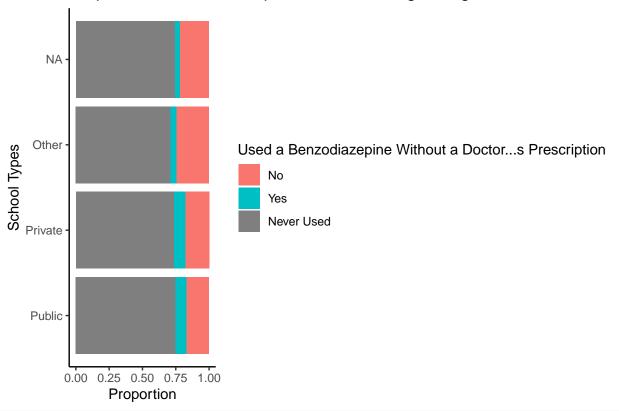
```
## 7 DEM_REGION
                        0
## 8 DEM_INCOME
                        0
## 9 DEM HOME
                        0
                        0
## 10 DEM_GENHEALTH
## # ... with 513 more rows
## # A tibble: 523 x 2
##
      names
                        x
##
      <chr>
                    <dbl>
##
  1 DATE
                        0
## 2 STATUS
                        0
## 3 QLANG
                        0
##
   4 DEM_GENDER
                        0
## 5 DEM_AGE
                        0
## 6 DEM_POSTAL
## 7 DEM_REGION
                        0
## 8 DEM_INCOME
                        0
## 9 DEM_HOME
                        0
## 10 DEM GENHEALTH
## # ... with 513 more rows
## # A tibble: 156 x 2
##
      names
##
                   <dbl>
      <chr>
##
   1 DATE
                       0
## 2 STATUS
## 3 QLANG
                       0
## 4 DEM_GENDER
                       0
                       0
## 5 DEM_AGE
                       0
## 6 DEM_LOCATION
## 7 DEM_POSTAL
                       0
## 8 DEM_STDNT
                       0
## 9 DEM_VET
                       0
## 10 DEM_HEALTH
## # ... with 146 more rows
```

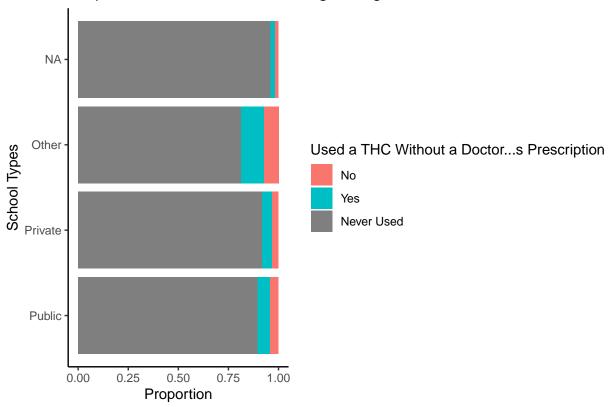
Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.

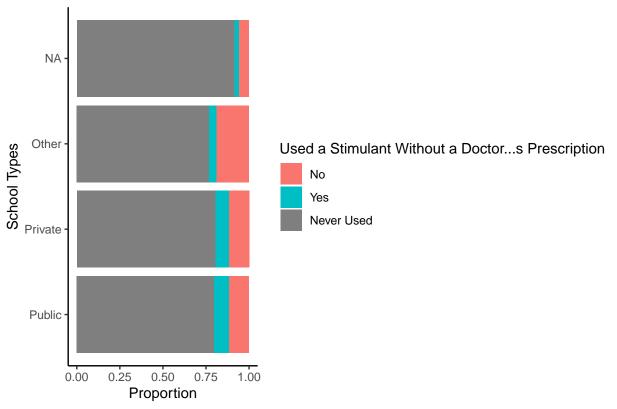




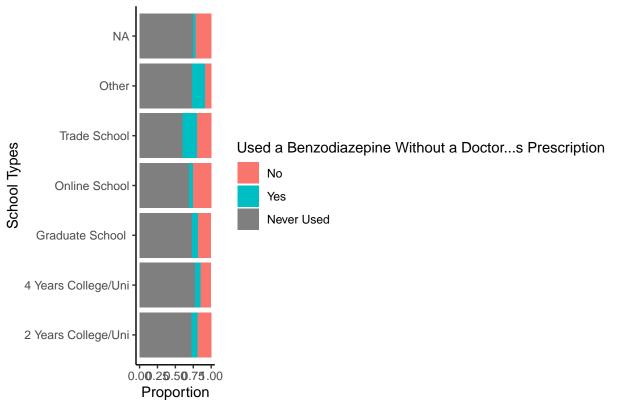




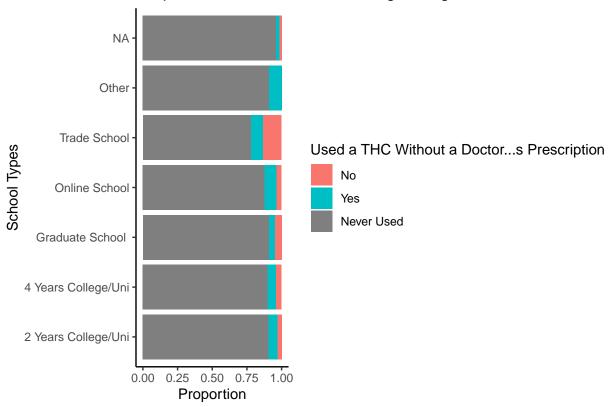




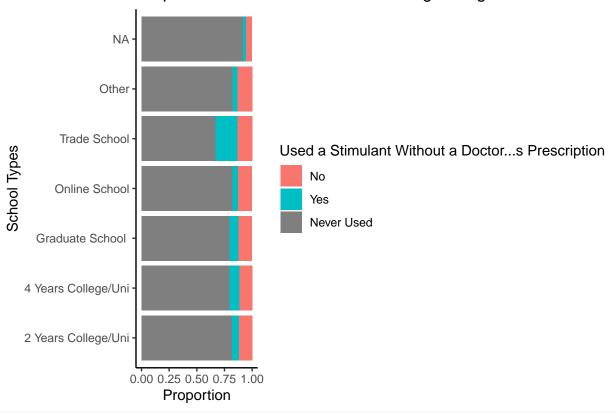
```
ggplot(data = US18, aes(x = factor(COLLEGE_LENGTH), fill = factor(BENZ_NMU)))+
  geom_bar(position = "fill")+
  coord_flip()+
  scale_fill_discrete(labels = c("No", "Yes",
                                  "Never Used")) +
  scale_x_discrete(labels=c("1" = "2 Years College/Uni",
                              "2" = "4 Years College/Uni",
                            "3" = "Graduate School ",
                            "4" = "Online School",
                            "5" = "Trade School",
                            "6" = "Other",
                            "NA" = "Not A Student"))+
 theme_classic() +
 labs(y = "Proportion",
      x = "School Types",
     fill = "Used a Benzodiazepine Without a Doctor's Prescription ",
      title = "Proportion of Benzodiazepine Misuse Among College Students")
```

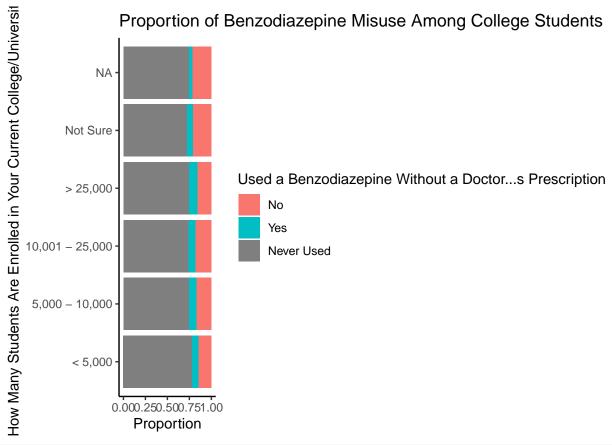


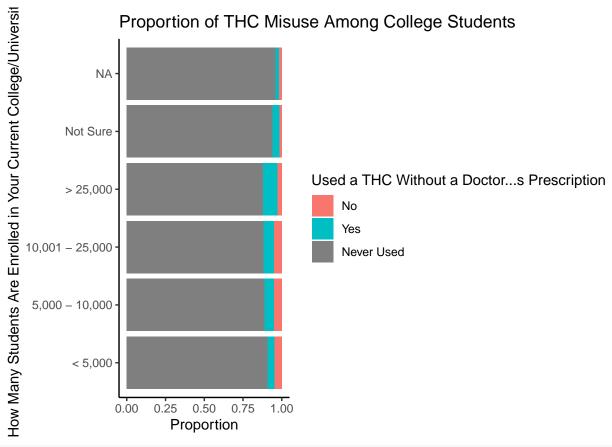
```
ggplot(data = US18, aes(x = factor(COLLEGE_LENGTH), fill = factor(THC_NMU)))+
  geom_bar(position = "fill")+
  coord_flip()+
  scale_fill_discrete(labels = c("No", "Yes",
                                  "Never Used")) +
  scale_x_discrete(labels=c("1" = "2 Years College/Uni",
                              "2" = "4 Years College/Uni",
                            "3" = "Graduate School ",
                            "4" = "Online School",
                            "5" = "Trade School",
                            "6" = "Other",
                            "NA" = "Not A Student"))+
 theme_classic() +
 labs(y = "Proportion",
      x = "School Types",
     fill = "Used a THC Without a Doctor's Prescription ",
      title = "Proportion of THC Misuse Among College Students")
```

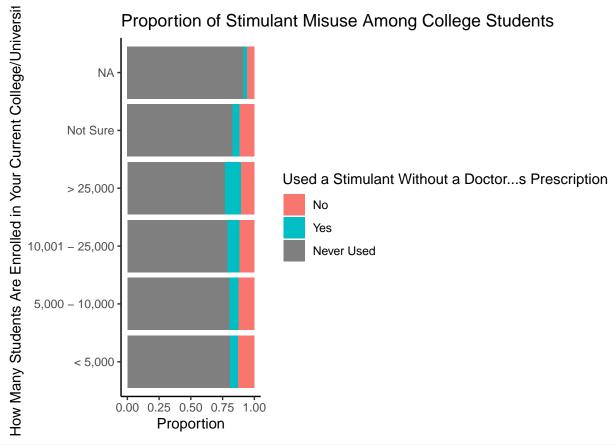


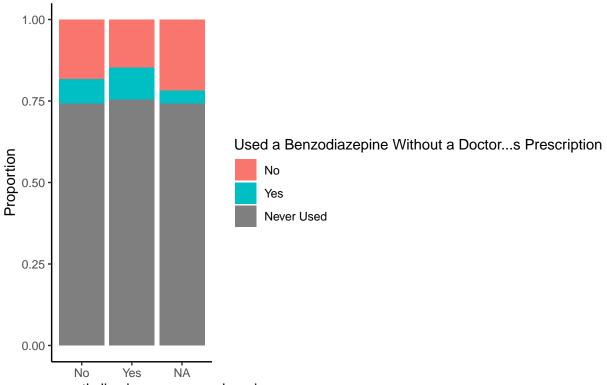
```
ggplot(data = US18, aes(x = factor(COLLEGE_LENGTH), fill = factor(STIM_NMU)))+
  geom_bar(position = "fill")+
  coord_flip()+
  scale_fill_discrete(labels = c("No", "Yes",
                                  "Never Used")) +
  scale_x_discrete(labels=c("1" = "2 Years College/Uni",
                              "2" = "4 Years College/Uni",
                            "3" = "Graduate School ",
                            "4" = "Online School",
                            "5" = "Trade School",
                            "6" = "Other",
                            "NA" = "Not A Student"))+
 theme_classic() +
 labs(y = "Proportion",
      x = "School Types",
     fill = "Used a Stimulant Without a Doctor's Prescription ",
      title = "Proportion of Stimulant Misuse Among College Students")
```



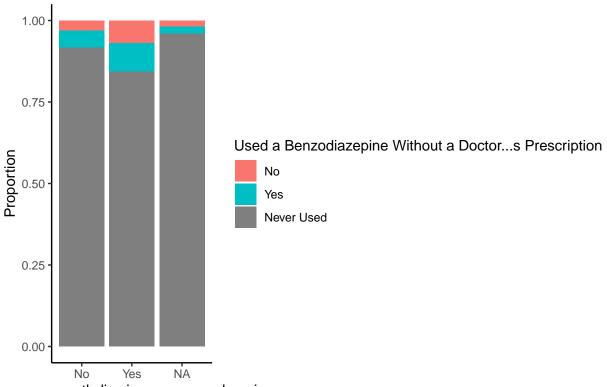




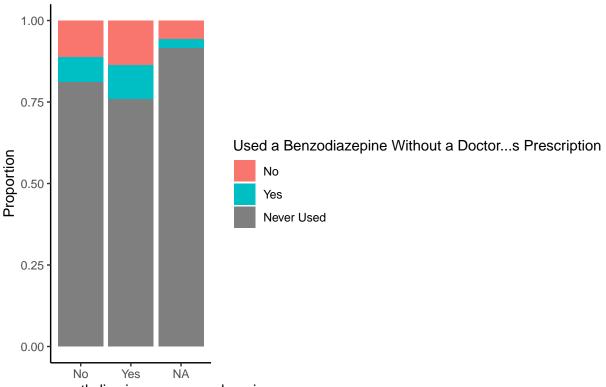




To you currently live in on-campus housing

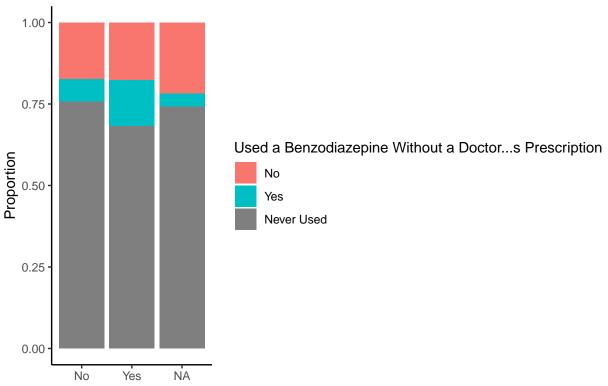


To you currently live in on-campus housing



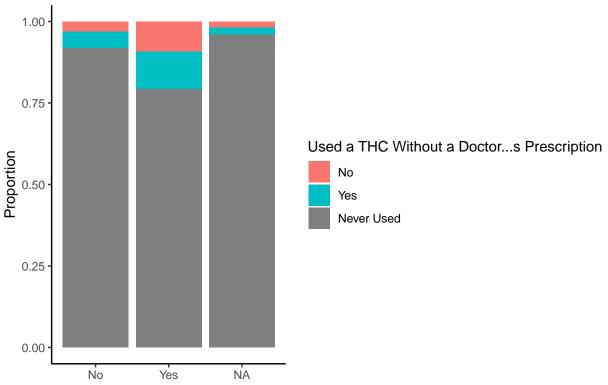
To you currently live in on-campus housing

Proportion of Benzodiazepine Misuse Among Greeklife Students



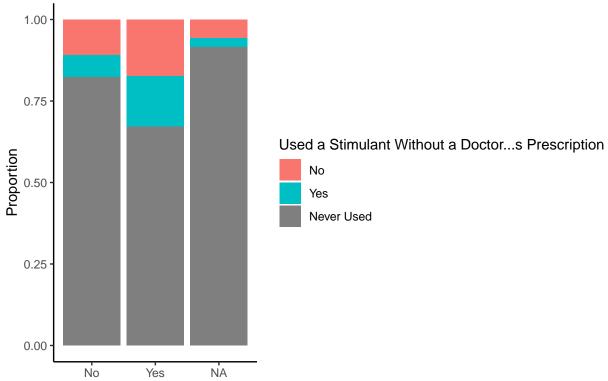
u A Member of A College Greeklife Organization

Proportion of THC Misuse Among Greeklife Students



re You A Member of A College Greeklife Organization

Proportion of Stimulant Misuse Among Greeklife Students



You A Member of A College Greeklife Organization