Final Report

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Load Packages

```
library(tidyverse)
library(readxl)
library(dbplyr)
```

Load Data

```
load(file = "~/sta198/Jackie-Fan-Club/data/ICPSR_34363/DS0001/34363-0001-Data.rda")
#rename file
data <- da34363.0001</pre>
```

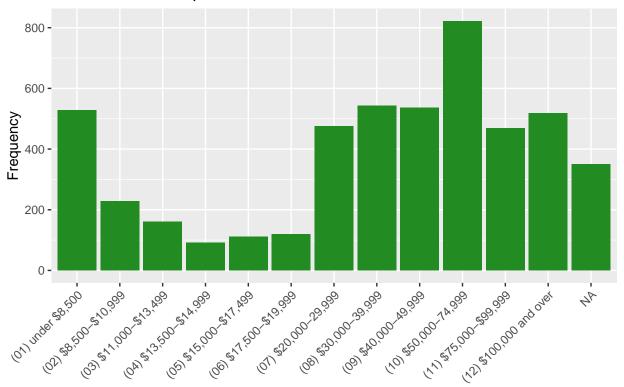
Data Citation: Battle, Juan, Pastrana, Antonio Jay, and Daniels, Jessie. Social Justice Sexuality Project: 2010 National Survey, including Puerto Rico. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], 2013-08-09. https://doi.org/10.3886/ICPSR34363.v1

```
data_filtered <- data %>%
  select(Q15B,
         Q15C,
         Q17A,
         Q17B,
         Q18A1:Q18A5,
         Q18C,
         Q18G,
         Q19A1:Q19A7,
         Q22A,
         Q22B,
         Q25)
# remove descriptions and other attributes
data_filtered2 <- lapply(data, function(x) {attributes(x) <- NULL; x}) %>%
  as.data.frame() %>%
  select(Q15B,
         Q15C,
         Q17A,
         Q17B,
         Q18A1:Q18A5,
         Q18C,
         Q18G,
```

```
Q19A1:Q19A7,
         Q22A,
         Q22B,
         Q25)
data <- data_filtered %>%
   select(Q17A,
         Q17B,
         Q18A1:Q18A5,
         Q18C,
         Q18G,
         Q19A1:Q19A7,
         Q22A,
         Q22B,
         Q25) %>%
  rename(healthInsureAcc = Q17A) %>%
  rename(healthProvideAcc = Q17B) %>%
  rename(male = Q18A1) %>%
  rename(female = Q18A2) %>%
  rename(m2f = Q18A3) %>%
  rename(f2m = Q18A4) %>%
  rename(genderOther = Q18A5) %>%
  rename(sexuality = Q18C) %>%
  mutate(age = 2021 - Q18G) %>%
 rename(black = Q19A1) %>%
 rename(hispanic = Q19A2) %>%
 rename(asian = Q19A3) %>%
  rename(native = Q19A4) %>%
  rename(white = Q19A5) %>%
  rename(multi = Q19A6) %>%
  rename(raceOther = Q19A7) %>%
  rename(edu = Q22A) %>%
  rename(income = Q22B) %>%
  rename(assessHealth = Q25)
data <- data %>%
 mutate(male = case_when(
  male == "(1) Yes" ~ "male",
  is.na(male) ~ "",
 TRUE ~ ""),
 female = case_when(
  female == "(1) Yes" ~ "female",
  is.na(female) ~ "",
 TRUE ~ ""),
 m2f = case_when(
 m2f == "(1) Yes" \sim "m2f",
 is.na(m2f) ~ "",
 TRUE ~ ""),
 f2m = case_when(
 f2m == "(1) Yes" ~ "f2m",
 is.na(f2m) ~ "",
  TRUE ~ ""),
  genderOther = case_when(
  genderOther == "(1) Yes" ~ "Other",
```

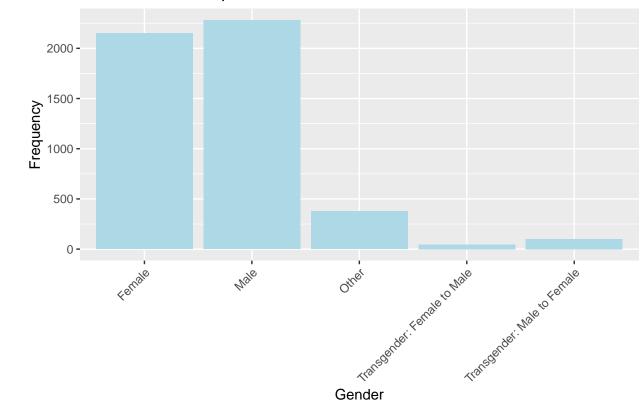
```
is.na(genderOther) ~ "",
 TRUE ~ ""),
  gender = ""
data$gender <- paste(data$male, data$female)</pre>
data$gender <- paste(data$gender, data$m2f)</pre>
data$gender <- paste(data$gender, data$f2m)</pre>
data$gender <- paste(data$gender, data$genderOther)</pre>
data$gender <- trimws(data$gender)</pre>
data <- data %>%
mutate(gender = case_when(
  gender == "male" ~ "Male",
  gender == "female" ~ "Female",
  gender == "m2f" ~ "Transgender: Male to Female",
  gender == "f2m" ~ "Transgender: Female to Male",
  TRUE ~ "Other")
ggplot(data, aes(x = income)) +
  geom_bar(fill = "#228b22") +
  labs (x = "Reported Income Level",
        y = "Frequency",
        title = "Distribution of Respondant Income Levels",) +
  theme(axis.text.x = element_text(angle = 45,
                                    hjust = 1))
```

Distribution of Respondant Income Levels

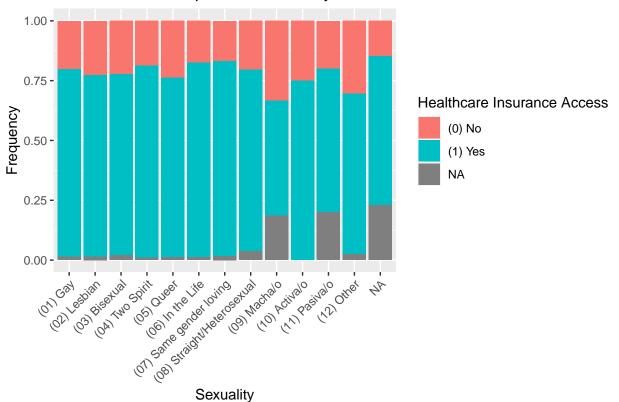


Reported Income Level

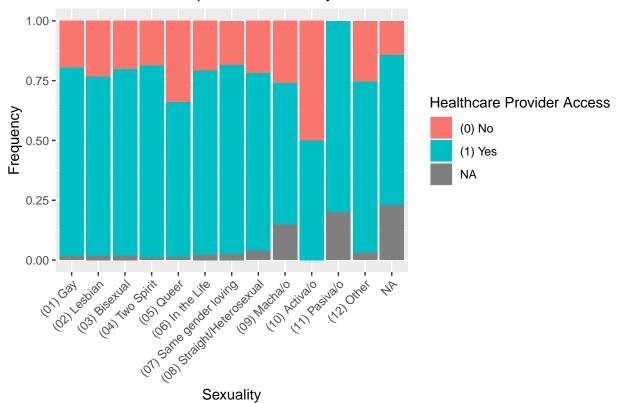
Distribution of Respondant Gender



Distribution of Respondant Sexuality and Healthcare Access



Distribution of Respondant Sexuality and Healthcare Access



Distribution of Respondant Gender and Healthcare Access

