3\_demographics

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library(tidyverse)

## Warning: package 'tidyverse' was built under R version 4.0.5

## -- Attaching packages --------------------------------------- tidyverse 1.3.1 --

## v ggplot2 3.3.5 v purrr 0.3.4  
## v tibble 3.1.5 v dplyr 1.0.7  
## v tidyr 1.1.4 v stringr 1.4.0  
## v readr 1.4.0 v forcats 0.5.1

## Warning: package 'ggplot2' was built under R version 4.0.5

## Warning: package 'tibble' was built under R version 4.0.5

## Warning: package 'tidyr' was built under R version 4.0.5

## Warning: package 'dplyr' was built under R version 4.0.5

## Warning: package 'forcats' was built under R version 4.0.5

## -- Conflicts ------------------------------------------ tidyverse\_conflicts() --  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag() masks stats::lag()

library(flextable)

## Warning: package 'flextable' was built under R version 4.0.5

##   
## Attaching package: 'flextable'

## The following object is masked from 'package:purrr':  
##   
## compose

library(here)

## Warning: package 'here' was built under R version 4.0.5

## here() starts at C:/repositories/attention\_pilot

self\_report\_clean <- read\_csv(here("data", "1\_pilot", "self\_report\_clean.csv"))

##   
## -- Column specification --------------------------------------------------------  
## cols(  
## .default = col\_double(),  
## meta\_start = col\_datetime(format = ""),  
## meta\_end = col\_datetime(format = ""),  
## meta\_recorded = col\_datetime(format = ""),  
## meta\_browser = col\_character(),  
## meta\_version = col\_character(),  
## `meta\_operating system` = col\_character(),  
## meta\_resolution = col\_character(),  
## meta\_feedback = col\_character(),  
## dems\_ethnicity = col\_character(),  
## dems\_gender\_4\_text = col\_character(),  
## dems\_occupation = col\_character(),  
## responseid = col\_character(),  
## prolific\_pid = col\_logical(),  
## study\_id = col\_logical(),  
## session\_id = col\_logical(),  
## ex\_narb\_attention\_checks\_pass = col\_logical(),  
## ex\_narb\_NA\_selfreport\_pass = col\_logical(),  
## ex\_narb\_suspect\_responses\_pass = col\_logical(),  
## ex\_arb\_suspect\_responses = col\_logical()  
## )  
## i Use `spec()` for the full column specifications.

ethnicity <- self\_report\_clean %>%  
 select(id, starts\_with("dems")) %>%  
 transmute(var = ifelse(dems\_ethnicity\_mixed == 1, "Mixed", dems\_ethnicity)) %>%  
 group\_by(var) %>%  
 summarise(  
 percentage = round((n() / nrow(self\_report\_clean)) \* 100, 1),  
 ) %>%  
 arrange(desc(percentage))  
  
education <- self\_report\_clean %>%  
 select(id, dems\_edu) %>%  
 transmute(  
 var = case\_when(  
 dems\_edu == 1 ~ "Some high school",  
 dems\_edu == 2 ~ "GED",  
 dems\_edu == 3 ~ "High school diploma",  
 dems\_edu == 4 ~ "Some college but no college degree",  
 dems\_edu == 5 ~ "Associate's degree",  
 dems\_edu == 6 ~ "Bachelor's or RN degree",  
 dems\_edu == 7 ~ "Master's degree",  
 dems\_edu == 8 ~ "Doctoral or law degree"  
 )  
 ) %>%  
 mutate(var = factor(var, levels = c("Some high school", "GED", "High school diploma", "Some college but no college degree", "Associate's degree", "Bachelor's or RN degree", "Master's degree", "Doctoral or law degree"))) %>%  
 group\_by(var) %>%  
 summarise(percentage = round((n() / nrow(self\_report\_clean)) \* 100, 1))   
  
  
gender <- self\_report\_clean %>%  
 select(id, dems\_gender) %>%   
 transmute(  
 var = case\_when(  
 dems\_gender == 1 ~ "Man",  
 dems\_gender == 2 ~ "Woman",  
 dems\_gender == 3 ~ "Non-binary",  
 dems\_gender == 4 ~ "Other",  
 dems\_gender == 5 ~ "Prefer not to say"  
 )  
 ) %>%  
 group\_by(var) %>%  
 summarise(percentage = round((n() / nrow(self\_report\_clean)) \* 100, 1)) %>%  
 arrange(desc(percentage))  
  
  
sex\_at\_birth <- self\_report\_clean %>%  
 select(id, dems\_sex) %>%   
 transmute(  
 var = case\_when(  
 dems\_sex == 0 ~ "Male",  
 dems\_sex == 1 ~ "Female",  
 dems\_sex == 2 ~ "Intersex",  
 dems\_sex == 3 ~ "Prefer not to say"  
 )  
 ) %>%  
 group\_by(var) %>%  
 summarise(percentage = round((n() / nrow(self\_report\_clean)) \* 100, 1)) %>%  
 arrange(desc(percentage))  
  
social\_class <- self\_report\_clean %>%  
 select(id, dems\_class\_current) %>%   
 transmute(  
 var = case\_when(  
 dems\_class\_current == 1 ~ "Poor",  
 dems\_class\_current == 2 ~ "Working class",  
 dems\_class\_current == 3 ~ "Middle class",  
 dems\_class\_current == 4 ~ "Upper-middle class",  
 dems\_class\_current == 5 ~ "Upper class"  
 ),  
 var = factor(var, levels = c("Poor", "Working class", "Middle class", "Upper-middle class", "Upper class"))  
 ) %>%  
 group\_by(var) %>%  
 summarise(percentage = round((n() / nrow(self\_report\_clean)) \* 100, 1))

# Create table

table\_demographics <- bind\_rows(sex\_at\_birth, gender, ethnicity, education, social\_class) %>%  
 mutate(percentage = as.character(percentage)) %>%  
 add\_row(.before = 1, "var" = "Mean age (SD)", percentage = paste0(round(mean(self\_report\_clean$dems\_age, na.rm=T),2), " (", round(sd(self\_report\_clean$dems\_age, na.rm=T),2), ")")) %>%  
 add\_row(.before = 2, "var" = "Sex at birth (%)") %>%  
 add\_row(.before = 6, "var" = "Gender (%)") %>%  
 add\_row(.before = 12, "var" = "Ethnicity (%)") %>%  
 add\_row(.before = 22, "var" = "Education level (%)") %>%  
 add\_row(.before = 31, "var" = "Social class (%)") %>%  
 rename(` ` = var, ` ` = percentage) %>%  
 flextable(cwidth = c(3, 1)) %>%  
 bold(i = c(1,2,6,12,22,31), j = 1) %>%  
 padding(i = c(3:5, 7:11, 13:21, 23:30, 32:36), padding.left = 20) %>%  
 align(j = 2, align = "left") %>%  
 padding(i = 1, j = 2, padding.left = 20)   
  
table\_demographics

|  |  |
| --- | --- |
| **Mean age (SD)** | 24.1 (12.42) |
| **Sex at birth (%)** |  |
| Male | 50.5 |
| Female | 49.1 |
| Prefer not to say | 0.4 |
| **Gender (%)** |  |
| Man | 50.5 |
| Woman | 45.7 |
| Non-binary | 3 |
| Other | 0.6 |
| Prefer not to say | 0.2 |
| **Ethnicity (%)** |  |
| White, Caucasian, Anglo, European American | 60 |
| Mixed | 13.1 |
| Asian or Asian American (e.g., Chinese, Japanese, and others) | 10.9 |
| Hispanic of Latino (e.g., Mexican American, Central American, and others) | 9.5 |
| Black or African American | 5.3 |
| Filipino | 0.4 |
| Prefer not to say | 0.4 |
| Middle Eastern | 0.2 |
| Native American/Alaskan Native/indigenous | 0.2 |
| **Education level (%)** |  |
| Some high school | 1.2 |
| GED | 1.6 |
| High school diploma | 17.6 |
| Some college but no college degree | 32.9 |
| Associate's degree | 7.1 |
| Bachelor's or RN degree | 31.3 |
| Master's degree | 7.3 |
| Doctoral or law degree | 1 |
| **Social class (%)** |  |
| Poor | 5.9 |
| Working class | 30.1 |
| Middle class | 46.1 |
| Upper-middle class | 17 |
| Upper class | 1 |

save(table\_demographics, file = here("preregistrations", "1\_pilot", "tables", "table\_demographics.RData"))