The title

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Abstract

Enter abstract here (note the indentation, if you start a new paragraph).

*Keywords:* keywords

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The title

# Load libraries

library("papaja")  
r\_refs("r-references.bib")  
library("tidyverse")  
library(here)

# Load data

attitude\_raw <- read.csv(here("data\_raw","attitude\_data.csv"))

# Visualize data

head(attitude\_raw)

## id age edu proficiency warmth\_friendly  
## 1 007857\_heritage\_male 27 college 20 4  
## 2 009704\_heritage\_male 25 college 20 3  
## 3 003531\_heritage\_female 22 higher 22 4  
## 4 002170\_heritage\_female 28 college 21 4  
## 5 002865\_heritage\_male 26 college 34 4  
## 6 007280\_heritage\_male 23 hs 14 3  
## warmth\_likeable warmth\_helpful competence\_intelligent competence\_successful  
## 1 4 3 2 2  
## 2 3 3 1 1  
## 3 3 2 3 1  
## 4 3 2 1 2  
## 5 4 3 2 1  
## 6 4 2 1 2  
## competence\_ambitious  
## 1 2  
## 2 2  
## 3 2  
## 4 4  
## 5 1  
## 6 1

glimpse(attitude\_raw)

## Rows: 40  
## Columns: 10  
## $ id <chr> "007857\_heritage\_male", "009704\_heritage\_male",…  
## $ age <int> 27, 25, 22, 28, 26, 23, 19, 29, 32, 18, 23, 26,…  
## $ edu <chr> "college", "college", "higher", "college", "col…  
## $ proficiency <int> 20, 20, 22, 21, 34, 14, 23, 26, 15, 27, 26, 26,…  
## $ warmth\_friendly <int> 4, 3, 4, 4, 4, 3, 4, 4, 3, 3, 3, 2, 3, 2, 4, 4,…  
## $ warmth\_likeable <int> 4, 3, 3, 3, 4, 4, 3, 4, 2, 3, 4, 3, 3, 3, 3, 4,…  
## $ warmth\_helpful <int> 3, 3, 2, 2, 3, 2, 3, 4, 3, 3, 3, 3, 1, 4, 3, 3,…  
## $ competence\_intelligent <int> 2, 1, 3, 1, 2, 1, 1, 1, 4, 1, 2, 4, 2, 2, 2, 2,…  
## $ competence\_successful <int> 2, 1, 1, 2, 1, 2, 3, 3, 2, 1, 1, 3, 4, 2, 1, 2,…  
## $ competence\_ambitious <int> 2, 2, 2, 4, 1, 1, 1, 2, 1, 2, 1, 1, 4, 1, 1, 1,…

summary(attitude\_raw)

## id age edu proficiency   
## Length:40 Min. :18.00 Length:40 Min. :13.00   
## Class :character 1st Qu.:22.75 Class :character 1st Qu.:21.00   
## Mode :character Median :26.50 Mode :character Median :26.00   
## Mean :25.90 Mean :26.55   
## 3rd Qu.:28.25 3rd Qu.:31.25   
## Max. :35.00 Max. :44.00   
## warmth\_friendly warmth\_likeable warmth\_helpful competence\_intelligent  
## Min. :2.00 Min. :2.00 Min. :1.00 Min. :1.000   
## 1st Qu.:3.00 1st Qu.:3.00 1st Qu.:3.00 1st Qu.:2.000   
## Median :4.00 Median :3.00 Median :3.00 Median :3.000   
## Mean :3.45 Mean :3.25 Mean :3.00 Mean :2.525   
## 3rd Qu.:4.00 3rd Qu.:4.00 3rd Qu.:3.25 3rd Qu.:3.000   
## Max. :4.00 Max. :4.00 Max. :4.00 Max. :4.000   
## competence\_successful competence\_ambitious  
## Min. :1.000 Min. :1.0   
## 1st Qu.:2.000 1st Qu.:1.0   
## Median :3.000 Median :2.5   
## Mean :2.575 Mean :2.5   
## 3rd Qu.:4.000 3rd Qu.:4.0   
## Max. :4.000 Max. :4.0

# Tidy data

attitude\_tidy <- attitude\_raw %>%  
 separate(  
 col = id,  
 into = c("id", "group", "gender"),  
 sep = "\_"  
 ) %>%  
 write\_csv(here("data\_tidy", "attitude\_tidy.csv"))

# Create variables

# Descriptive Stats

attitude\_final %>%  
 group\_by(group) %>%   
 summarize(  
 mean\_proficiency = mean(proficiency),  
 median\_proficiency = median(proficiency),  
 sd\_proficiency = sd(proficiency),  
 min\_proficiency = min(proficiency),  
 max\_proficiency = max(proficiency),  
 ) %>%  
 knitr::kable(  
 caption = "Descriptive Stats for Proficiency by Group.",  
 col.names = c("Group", "Mean", "Median", "Sd", "Min", "Max")  
 )

Table 1: Descriptive Stats for Proficiency by Group.

| Group | Mean | Median | Sd | Min | Max |
| --- | --- | --- | --- | --- | --- |
| heritage | 21.55 | 21 | 5.306153 | 13 | 34 |
| monolingual | 31.55 | 31 | 5.306153 | 23 | 44 |

attitude\_final %>%  
 group\_by(group, edu) %>%   
 summarize(  
 mean\_proficiency = mean(proficiency),  
 median\_proficiency = median(proficiency),  
 sd\_proficiency = sd(proficiency),  
 min\_proficiency = min(proficiency),  
 max\_proficiency = max(proficiency),  
 ) %>%  
 knitr::kable(  
 caption = "Descriptive Stats for Proficiency by Group and Education.",  
 col.names = c("Group", "Education", "Mean", "Median", "Sd", "Min", "Max")  
 )

Table 2: Descriptive Stats for Proficiency by Group and Education.

| Group | Education | Mean | Median | Sd | Min | Max |
| --- | --- | --- | --- | --- | --- | --- |
| heritage | college | 21.41667 | 20.5 | 5.212892 | 15 | 34 |
| heritage | higher | 25.00000 | 26.0 | 2.645751 | 22 | 27 |
| heritage | hs | 19.80000 | 19.0 | 6.534524 | 13 | 27 |
| monolingual | college | 31.41667 | 30.5 | 5.212892 | 25 | 44 |
| monolingual | higher | 35.00000 | 36.0 | 2.645751 | 32 | 37 |
| monolingual | hs | 29.80000 | 29.0 | 6.534524 | 23 | 37 |

# Plots

# Methods

We report how we determined our sample size, all data exclusions (if any), all manipulations, and all measures in the study.

## Participants

## Material

## Procedure

## Data analysis

We used R (Version 4.2.2; R Core Team, 2022) and the R-packages *dplyr* (Version 1.1.0; Wickham, François, Henry, Müller, & Vaughan, 2023), *forcats* (Version 1.0.0; Wickham, 2023), *ggplot2* (Version 3.4.0; Wickham, 2016), *here* (Version 1.0.1; Müller, 2020), *papaja* (Version 0.1.1; Aust & Barth, 2022), *purrr* (Version 1.0.1; Wickham & Henry, 2023), *readr* (Version 2.1.3; Wickham, Hester, & Bryan, 2022), *stringr* (Version 1.5.0; Wickham, 2022), *tibble* (Version 3.2.1; Müller & Wickham, 2023), *tidyr* (Version 1.3.0; Wickham, Vaughan, & Girlich, 2023), *tidyverse* (Version 1.3.2; Wickham et al., 2019), and *tinylabels* (Version 0.2.3; Barth, 2022) for all our analyses.

# Results

# Discussion

# References

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