Study 1 Perception Means

Cognitive Awareness & Study Approach Decision Making

Jessica Macaluso

2024-06-07

Load Packages

```
library(psych)
library(tidyverse)
```

```
– tidyverse 2.0.0 —
## — Attaching core tidyverse packages —
## ✓ dplyr 1.1.2
                        ✓ readr
                                    2.1.4
## ✓ forcats 1.0.0
                        ✓ stringr
                                    1.5.0
## / ggplot2 3.4.2

✓ tibble

                                    3.2.1
## ✓ lubridate 1.9.2

✓ tidyr

                                    1.3.0
## ✓ purrr
             1.0.1
## — Conflicts ——
                                                      —— tidyverse conflicts() —
## x ggplot2::%+%() masks psych::%+%()
## * ggplot2::alpha() masks psych::alpha()
## * dplyr::filter() masks stats::filter()
## * dplyr::lag()
                     masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts
to become errors
```

Disable Scientific Notation

```
options(scipen = 999)
```

Study 1 Set Up

Read in Data

```
list1 <- read.csv("list1_exp1.csv")
list2 <- read.csv("list2_exp1.csv")
study1 <- read.csv("study1-final.csv")
# Blocked -> Interleaved (list_one) rows 2-180
# Interleaved -> Blocked (list_two) rows 181-329
```

Variables of Interest

Mental Effort (X)

Familiarity/Habits (X)

Perceived Learning (M)

Final Strategy (Y)

Blocked Averages

```
## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's
## 1.000 2.250 3.000 3.098 3.750 6.000 1
```

```
## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's
## 1.000 2.750 3.500 3.447 4.062 6.000 1
```

```
## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's
## 1.000 2.500 3.375 3.290 4.250 6.000 1
```

Interleaved Averages

```
## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's
## 1.000 2.750 3.750 3.733 4.750 6.000 1
```

```
## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's
## 1.000 2.000 2.750 2.838 3.750 6.000 1
```

```
## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's
## 1.000 2.000 2.500 2.697 3.250 5.750 1
```