

texting_analysis.R

phongphong

2025-12-18

```
set.seed(100)
conditions <- c("onethumbvertical", "onethumbhorizontal", "twothumbsvertical", "twothumbshorizontal")
enye_order <- sample(conditions)
# "onethumbhorizontal" "twothumbsvertical" "twothumbshorizontal" "onethumbvertical"
ryan_order <- sample(conditions)
# "twothumbsvertical" "onethumbvertical" "onethumbhorizontal" "twothumbshorizontal"
amelia_order <- sample(conditions)
# "twothumbshorizontal" "twothumbsvertical" "onethumbhorizontal" "onethumbvertical"
junyi_order <- sample(conditions)
# "onethumbhorizontal" "twothumbsvertical" "twothumbshorizontal" "onethumbvertical"

time <- c(
  # enye's order 1th, 2tv, 2th, 1tv
  27.52, 7.11, 15.13, 12.6,

  # ryan's order 2tv, 1tv, 1th, 2th
  9.88, 18.2, 16.02, 14.38,

  # amelia's order 2th, 2tv, 1th, 1tv
  15.1, 16.45, 15.81, 13.43,

  # junyi's order 1th, 2tv, 2th, 1tv
  17, 10.18, 11.18, 12.8
)

condition <- c(
  # Enye
  "onethumbhorizontal", "twothumbsvertical", "twothumbshorizontal", "onethumbvertical",
  # Ryan
  "twothumbsvertical", "onethumbvertical", "onethumbhorizontal", "twothumbshorizontal",
  # Amelia
  "twothumbshorizontal", "twothumbsvertical", "onethumbhorizontal", "onethumbvertical",
  # Junyi
  "onethumbhorizontal", "twothumbsvertical", "twothumbshorizontal", "onethumbvertical"
)

typist <- c(
  rep("Enye", 4),
  rep("Ryan", 4),
  rep("Amelia", 4),
  rep("Junyi", 4)
)
```

```
typing.data <- data.frame(time, condition, typist)
typing.data$condition <- as.factor(typing.data$condition)
```