

Experiment Pipeline for the Experiment on the Relationship Between the Illusion of Causality and the Foreign Language Effect

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Overview

This R code is used to extract variables from raw participant sheet data. Only these data will be analyzed ultimately.

Importing the File with Variables

First, we select the `ExperimentVariables.csv` file as the one we intend to use to guide the extraction of data. This file is available on the **OSF project webpage** (this webpage link is in read-only mode for peer review purposes) for this study.

```
#Choose "ExperimentVariables.csv"
# coordinate <- read.csv(file.choose())
```

Function to Extract Raw Data

This function extracts raw data to compose the final dataset to use. The commented-out code can be uncommented to specify the working directory (`setwd()`) containing the experiment raw data.

```
estrai_valori <- function(file_path) {
  dataset <- read.csv(file_path)

  risultati <- c()

  variabili <- coordinate[, 2] # The column for the variables names

  righe <- coordinate[, 4] # The rows to extract

  for (i in 1:length(variabili)) {
    var <- variabili[i]
    if (var %in% colnames(dataset)) {
      risultati <- c(risultati, dataset[righe[i], var])
    } else {
      risultati <- c(risultati, NA)
    }
  }

  return(risultati)
}

# setwd("your_directory_path") # Uncomment to specify working directory
# file_paths <- list.files(getwd()) # Uncomment to list files in working directory
```

We give an example with a few pilot data used to test the experiment:

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