Coodbook

2024-08-21

```
# Packages
library(tidyverse)
library(codebook)
library(osfr)
library(papaja)
library(kableExtra)
```

This page contains the **codebook** (i.e., description of each variable) of the data set used in the manuscript #Knowledge: Improving food-related knowledge via seeding implemented as a social media intervention. The data file (named data_insta_seeding.csv) can be downloaded from the OSF or with the command osfr::osf_download(osf_retrieve_file('gva9p)).

```
# The make_df_readme function generates a summary of a given data frame in R, creating a des
make_df_readme <- function(df, desc, add_examples = TRUE, digits = 2, n_examples = 4) {</pre>
  # Input validation
  if (!is.data.frame(df)) stop("The input 'df' must be a data frame.")
  if (!is.character(desc) || length(desc) != ncol(df))
    stop("The 'desc' argument must be a character vector with the same length as the number
  if (!is.numeric(digits) || digits < 0) stop("The 'digits' argument must be a non-negative
  if (!is.numeric(n_examples) || n_examples <= 0) stop("The 'n_examples' argument must be a
  # Create the initial summary dataframe
  temp0 <- data.frame(</pre>
    "Variable"
                     = names(df),
    "Type"
                     = sapply(df, function(x) class(x)[1]), # Ensure it handles multiple class
    "Description"
                    = desc,
    stringsAsFactors = FALSE
```

```
row.names(temp0) <- NULL

# Optionally add examples
if (add_examples) {
    sampled_rows <- df[sample(1:nrow(df), n_examples), ]
    example_values <- apply(sampled_rows, 2, function(col) {
        if (is.numeric(col)) {
            col <- printnum(col, digits=digits)
        }
        paste(col, collapse = ", ")
    })

    tempO$Example <- example_values
}

return(tempO)
}</pre>
```

The data file data_insta_seeding.csv contains 44 variables and 10506 rows.

```
"Actual CO2 criterion value of the item",
          "Actual kcal criterion value of the item",
          "Estimate/judgment of the participant",
          "Individual keys pressed by the participants to type in their judgment",
          "Overall reaction time for each judgment (from stimulus shown until confirmed butte
          "Internal experimental clock time when the stimulus was shown",
          "Internal experimental clock time when the first input was made",
          "Internal experimental clock time for all inputs",
          "Day when the item was posted on the corresponding account (only applicable if it
          "Total time (in min) taken by the participant for all trials in the corresponding
          "Age of the participant",
          "Gender of the participant [female, male, non_binary]",
          "Educational level of participants",
          "Self-reported knowledge of CO2 footprint of food items [1-7]",
          "Self-reported knowledge of calorie content of food items [1-7]",
          "Item 1 of the Short Subjective Numeracy Scale",
          "Item 2 of the Short Subjective Numeracy Scale",
          "Item 3 of the Short Subjective Numeracy Scale",
          "Controle question: ~ Should your date be used for analyis? [yes, no]",
          "Controle question: ~ Did you use any form of aid? [yes, no]",
          "Controle question: ~ Where there any technical problems [yes, no]",
          "Controle question: ~ Describe the problem",
          "Controle question: ~ Where there any problems on instagram? [yes, no]",
          "Controle question: ~ Describe the problem",
          "Controle question: ~ How many posts of the 30 possible posts did you see on insta
          "Controle question: ~ How did you make your estimates ? Did you use a specific str
          "Controle question: ~ Do you have any ohter comments?",
          "On which day after the first invitation to the final questionnaire did the partic
          "Number of posts liked of the participant [0-30]",
          "Number of unique days on which the participant liked the posts [0-15]")
make_df_readme(df,desc) %>%
  kable(format
                 = "html",
        table.attr = 'class="table table-striped table-hover"',
                 = FALSE)
```

Variable	Type	Description
ID	character	Unique person identifier
trained_criterion	character	Criterion shown during 15 day training/seeding phase
est criterion	character	Estimated criterion in the final questionnaire

Variable	Type	Description
phase	character	Phase of the experiment [2AFC, estimation]
trial	$\operatorname{numeric}$	Number of trial in the corresponding phase
position_old	character	In which position was the old item shown during that 2AFC to
old	character	File name of the old item
new	character	File name of the new item
img_clicked	character	Image selected as old by the participant
ID_item	numeric	Unique item identifier [1-60]
item	character	Name of the item
category	character	Category of the item
seeding_CO2	numeric	Was this item a seeding item in the CO2 account? $[1 = yes, 0]$
seeding_Kcal	numeric	Was this item a seeding item in the Kcal account? $1 = yes$,
crit_CO2	$\operatorname{numeric}$	Actual CO2 criterion value of the item
crit_kcal	$\operatorname{numeric}$	Actual kcal criterion value of the item
judgment	numeric	Estimate/judgment of the participant
input_values	character	Individual keys pressed by the participants to type in their ju
rt_ms	$\operatorname{numeric}$	Overall reaction time for each judgment (from stimulus shows
time_stim_shown	numeric	Internal experimental clock time when the stimulus was show
first_input_time	logical	Internal experimental clock time when the first input was ma
input_times	numeric	Internal experimental clock time for all inputs
day_posted	numeric	Day when the item was posted on the corresponding account
est_phase_time_min	numeric	Total time (in min) taken by the participant for all trials in t
age	numeric	Age of the participant
gender	character	Gender of the participant [female, male, non_binary]
education_level	character	Educational level of participants
CO2_knowledge	numeric	Self-reported knowledge of CO2 footprint of food items [1-7]
Kcal_knowledge	$\operatorname{numeric}$	Self-reported knowledge of calorie content of food items [1-7]
SNS_1	numeric	Item 1 of the Short Subjective Numeracy Scale
SNS_2	$\operatorname{numeric}$	Item 2 of the Short Subjective Numeracy Scale
SNS_3	numeric	Item 3 of the Short Subjective Numeracy Scale
quality	character	Controle question: ~ Should your date be used for analyis? [y
cheated	character	Controle question: ~ Did you use any form of aid? [yes, no]
technical_problems	character	Controle question: ~ Where there any technical problems [yes
technical_problems_specific	character	Controle question: ~ Describe the problem
technical_problems_insta	character	Controle question: ~ Where there any problems on instagram
technical_problems_insta_specific	character	Controle question: ~ Describe the problem
est_number_insta_posts	numeric	Controle question: ~ How many posts of the 30 possible posts
strategy	character	Controle question: ~ How did you make your estimates? Did
other_comments	character	Controle question: ~ Do you have any ohter comments?
participated_day	numeric	On which day after the first invitation to the final questionna
n_posts_liked	numeric	Number of posts liked of the participant [0-30]
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