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Codebook

Code ▾

Undergraduates (pre-service teachers) Sample

July 12th 2021

1 Description

This is the codebook of "Study 1" from the manuscript <http://dx.doi.org/10.23668/psycharchives.3364> (<http://dx.doi.org/10.23668/psycharchives.3364>).

Structure of the codebook:

- Participants consecutively received two abstracts (stimulus)
- They answered the scales in response to one abstract (stimulus) at a time
- The codebook reports each item and scale for the abstracts together (as in data set), therefore the reliability scores are not necessarily as reported in the manuscript
- for analyses that distinguish between the two measurement times, download the data and separate by variable `meas_rep`

2 Metadata

Hide

```
rbt_ugr <- rio::import(here("9_data+codebooks/rbt_study1_undergrad.csv"))

# we need to invert items back to original format
inv7fct <- function(x) (8-as.numeric(x))

rbt_ugr <- rbt_ugr %>%
  mutate_at(vars(exp_1:exp_6, int_1:int_4, ben_1:ben_4),
    list(~inv7fct(.)))
```

Hide

```
metadata(rbt_ugr)$name <- "Journals' Open Science Badges Foster Trust in Scientists. Study 1: Undergraduates Sample."
metadata(rbt_ugr)$description <- "Code book to manuscript"
metadata(rbt_ugr)$identifier <- ""
metadata(rbt_ugr)$datePublished <- "2021-07-12"
metadata(rbt_ugr)$creator <- list(
  "@type" = "Person",
  givenName = "Schneider", familyName = "Jürgen",
  email = "juergen.schneider@uni-tuebingen.de",
  affiliation = list("@type" = "Organization",
    name = "University of Tübingen"))
metadata(rbt_ugr)$citation <- "Schneider, J. (2021). Journals' Open Science Badges Foster Trust in Scientists. Codebook of Study 1: Undergraduates sample"
```

[Hide](#)

```

# add variable labels #####
#####
var_label(rbt_ugr) <- list(
  treat = "Treatment condition, the participant was assigned to.",
  exp_1 = "competent - incompetent",
  exp_2 = "intelligent - unintelligent",
  exp_3 = "well educated - poorly educated",
  exp_4 = "professional - unprofessional",
  exp_5 = "experienced - inexperienced",
  exp_6 = "qualified - unqualified",
  int_1 = "sincere - insincere",
  int_2 = "honest - dishonest",
  int_3 = "just - unjust",
  int_4 = "fair - unfair",
  ben_1 = "moral - immoral",
  ben_2 = "ethical - unethical",
  ben_3 = "responsible - irresponsible",
  ben_4 = "considerate - inconsiderate",
  meas_rep = "Measurement repetition, first and second measurement",
  tsm_1 = "The insights from the text are arbitrary.",
  tsm_2 = "The knowledge contained in the text cannot be generalized to other situations at all.",
  tsm_3 = "The opposite of the knowledge formulated in the text would be equally right/wrong.",
  tsm_4 = "The knowledge formulated in the text cannot claim validity for other situations.",
  tch_1 = "It is transparent which data form the basis of the study.",
  tch_2 = "Interested parties can have a close look at the questionnaire of the described study.",
  tch_3 = "The data collected in the study are publicly available.",
  tch_4 = "The authors make it easy for other researchers to understand their statistical analyses.",
  tch_5 = "If other researchers want to repeat the study, they have easy access to the questionnaires used.",
  semester = "How many semesters of teaching/education-related coursework are you in (counting bachelor's degrees)?",
  sex = "Sex",
  age = "Age"
)

# add value labels #####
#####
# Treatment
val_labels(rbt_ugr$treat) <- c("Greyed out badges (no adherence to Open Science standards)" = "GB",

```

```

                                "Control Condition (no badges)" = "C
C",
                                "Colored out badges (adherence to Ope
n Science standards)" = "CB")

# add value labels (without "don't know" option)
add_likert_labels4 <- function(x) {
  val_labels(x) <- c("fully disagree" = 1,
                    "[empty 1]" = 2,
                    "[empty 2]" = 3,
                    "fully agree" = 4)

  x
}

rbt_ugr <- rbt_ugr %>%
  mutate_at(vars(tsm_1:tsm_4), add_likert_labels4)

# add value labels (with "don't know" option)
add_likert_labels4dk <- function(x) {
  val_labels(x) <- c("fully disagree" = 1,
                    "[empty 1]" = 2,
                    "[empty 2]" = 3,
                    "fully agree" = 4,
                    "don't know" = -999)

  x
}

rbt_ugr <- rbt_ugr %>%
  mutate_at(vars(tch_1:tch_5), add_likert_labels4dk)

# semantic differentials
add_semantic_diff <- function(x) {
  val_labels(x) <- c("1" = 1,
                    "2" = 2,
                    "3" = 3,
                    "4" = 4,
                    "5" = 5,
                    "6" = 6,
                    "7" = 7)

  x
}

rbt_ugr <- rbt_ugr %>%
  mutate_at(vars(exp_1:exp_6, int_1:int_4, ben_1:ben_4), add_semant
ic_diff)

# sex
val_labels(rbt_ugr$sex) <- c("female" = 1,
                             "male" = 2,

```

```

"other" = 3)

# measurement time
val_labels(rbt_ugr$meas_rep) <- c("first measurement" = 1,
                                  "second measurement" = 2)

# Define scales #####
#####
rbt_ugr$exp <- rbt_ugr %>%
  select(exp_1:exp_6) %>%
  aggregate_and_document_scale()

rbt_ugr$int <- rbt_ugr %>%
  select(int_1:int_4) %>%
  aggregate_and_document_scale()

rbt_ugr$ben <- rbt_ugr %>%
  select(ben_1:ben_4) %>%
  aggregate_and_document_scale()

rbt_ugr$tsm <- rbt_ugr %>%
  select(tsm_1:tsm_4) %>%
  aggregate_and_document_scale()

rbt_ugr$tch <- rbt_ugr %>%
  select(tch_1:tch_5) %>%
  aggregate_and_document_scale()

# detect scales #####
#####
rbt_ugr <- detect_scales(rbt_ugr, quiet = FALSE)

```

3 Codebook

3.0.1 Metadata

3.0.1.1 Description

Dataset name: Journals' Open Science Badges Foster Trust in Scientists. Study 1: Undergraduates Sample.

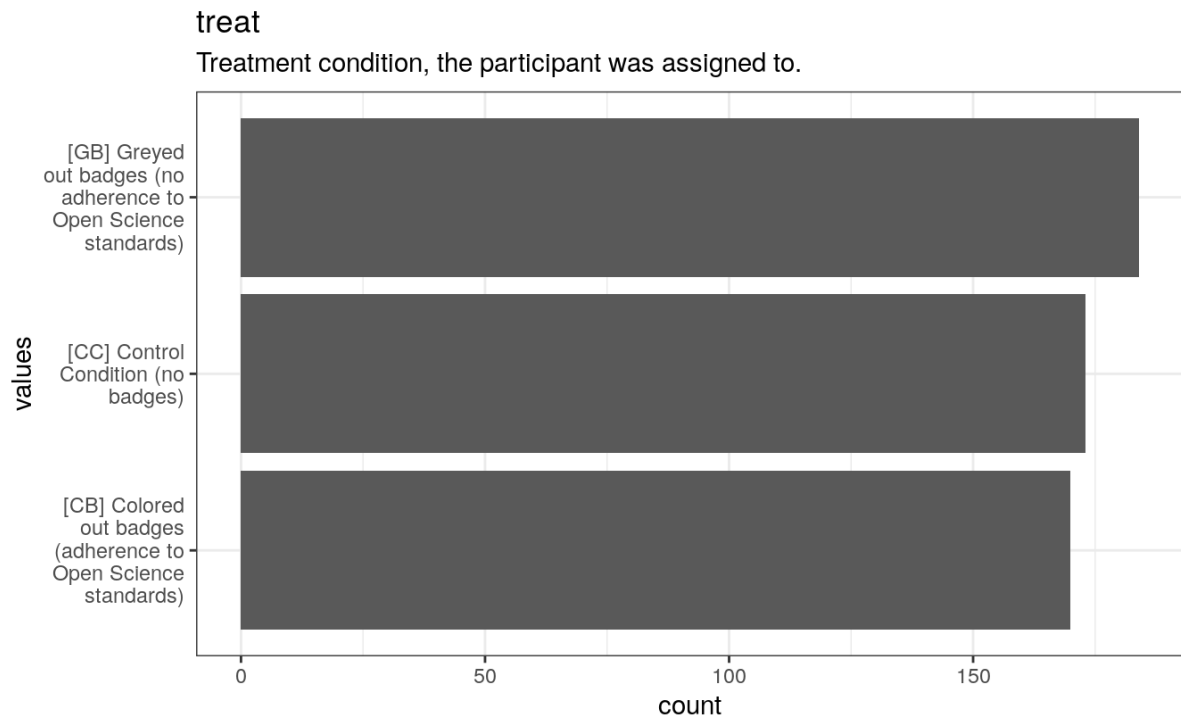
Code book to manuscript

► Metadata for search engines

#Variables

3.0.2 treat

Treatment condition, the participant was assigned to.

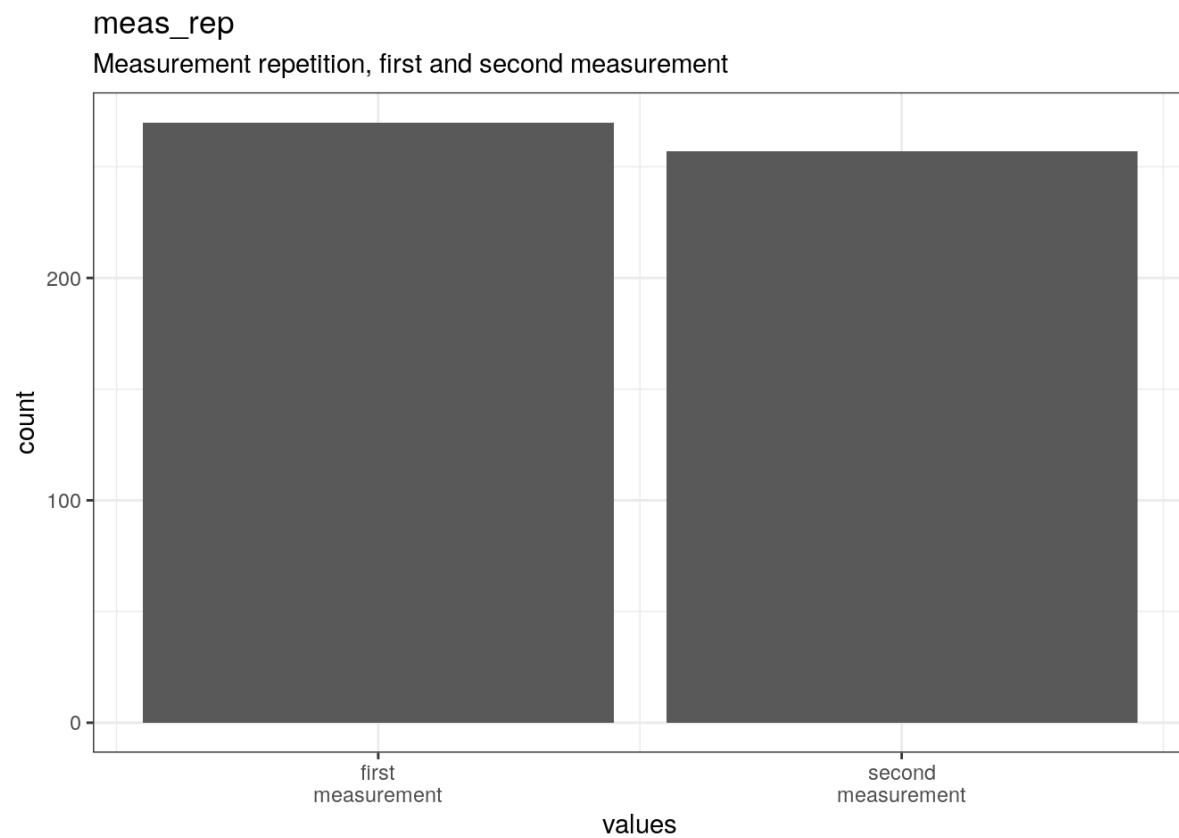


Distribution of values for treat

0 missing values.

3.0.3 meas_rep

Measurement repetition, first and second measurement



Distribution of values for meas_rep

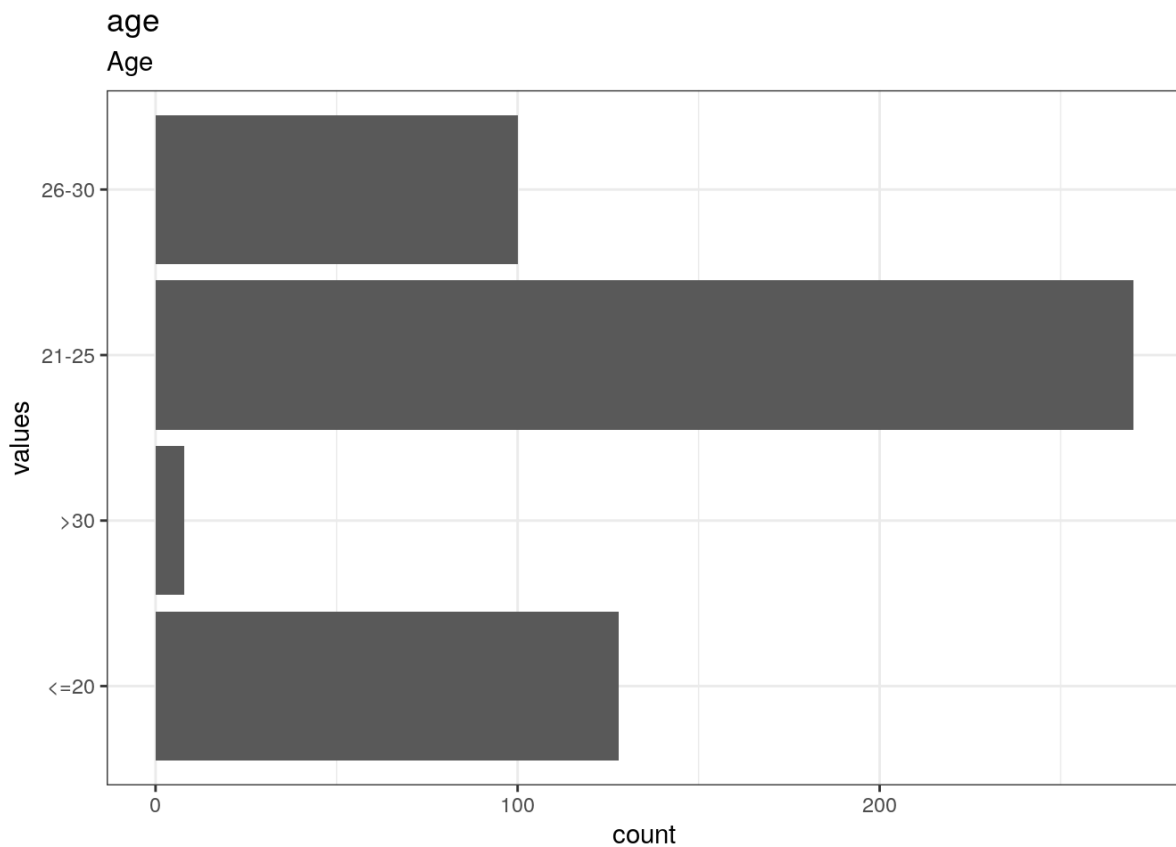
0 missing values.

3.0.4 age

Age

3.0.4.1 Distribution

3.0.4.2 Summary statistics



Distribution of values for age

21 missing values.

3.0.5 semester

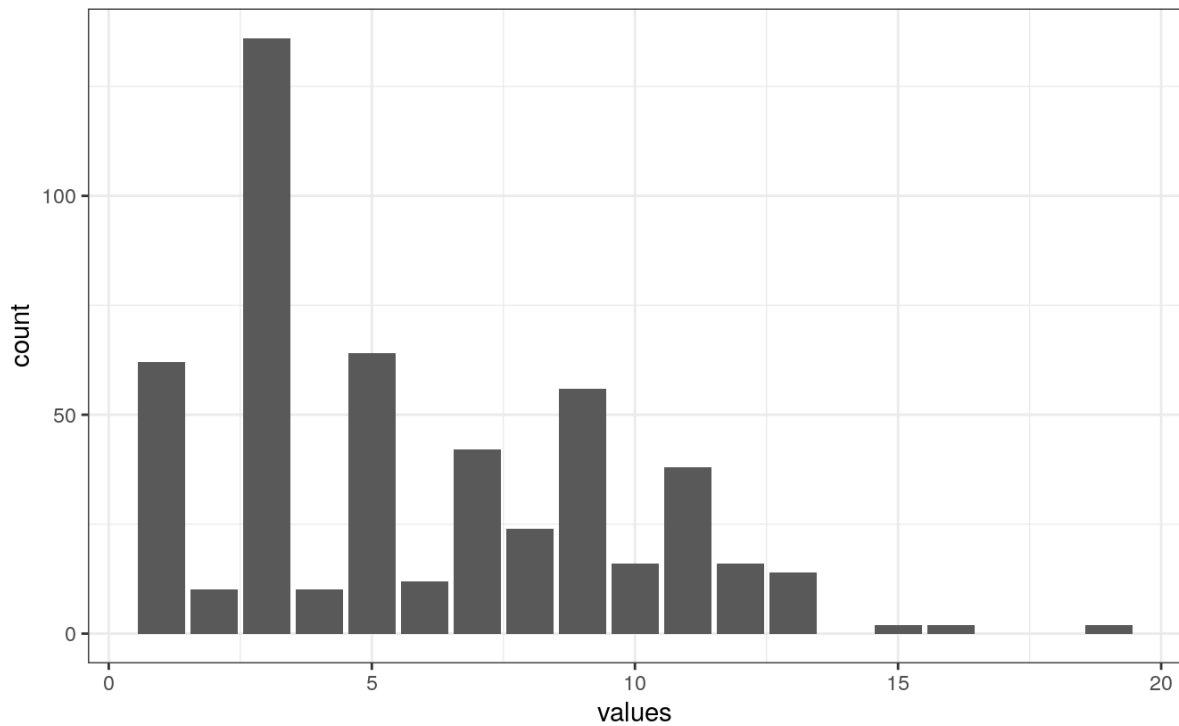
How many semesters of teaching/education-related coursework are you in (counting bachelor's degrees)?

3.0.5.1 Distribution

3.0.5.2 Summary statistics

semester

How many semesters of teaching/education-related coursework are you in (counting bachelor's degrees)?



Distribution of values for semester

21 missing values.

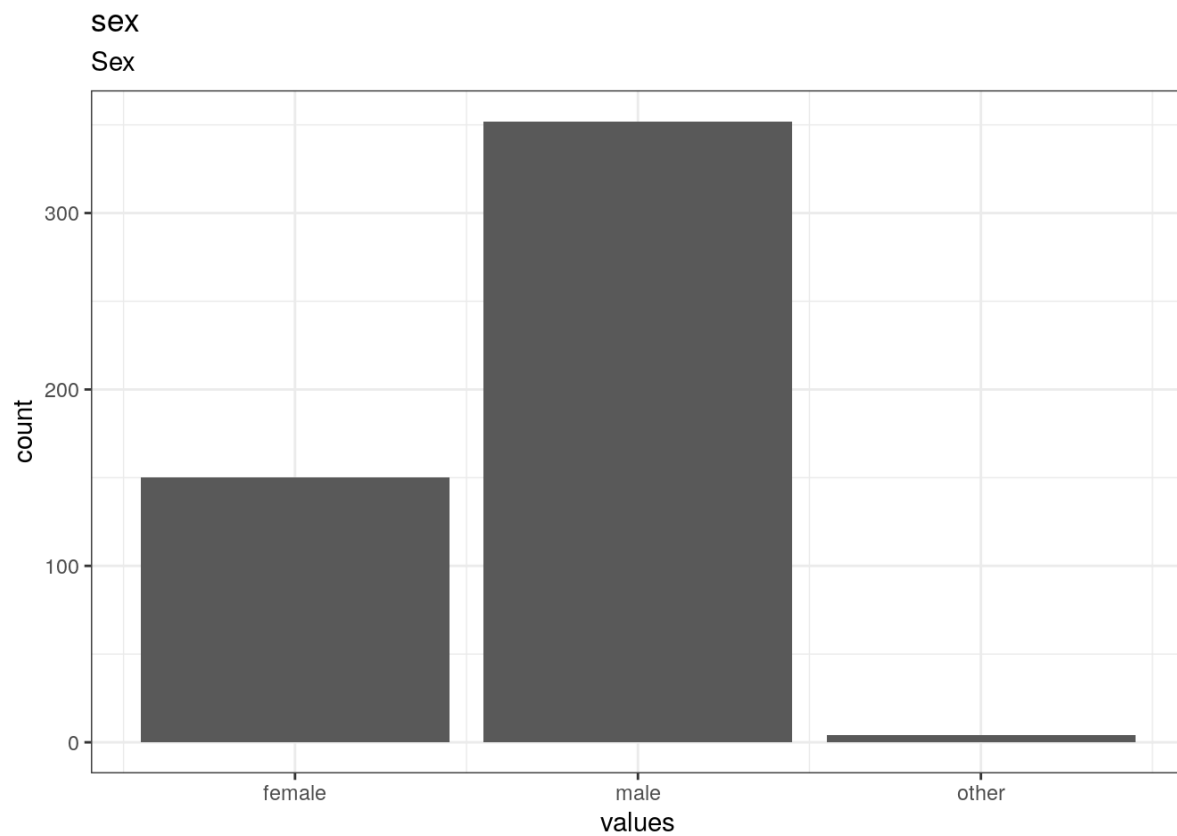
3.0.6 sex

Sex

3.0.6.1 Distribution

3.0.6.2 Summary statistics

3.0.6.3 Value labels



Distribution of values for sex

21 missing values.

3.0.7 Scale: exp

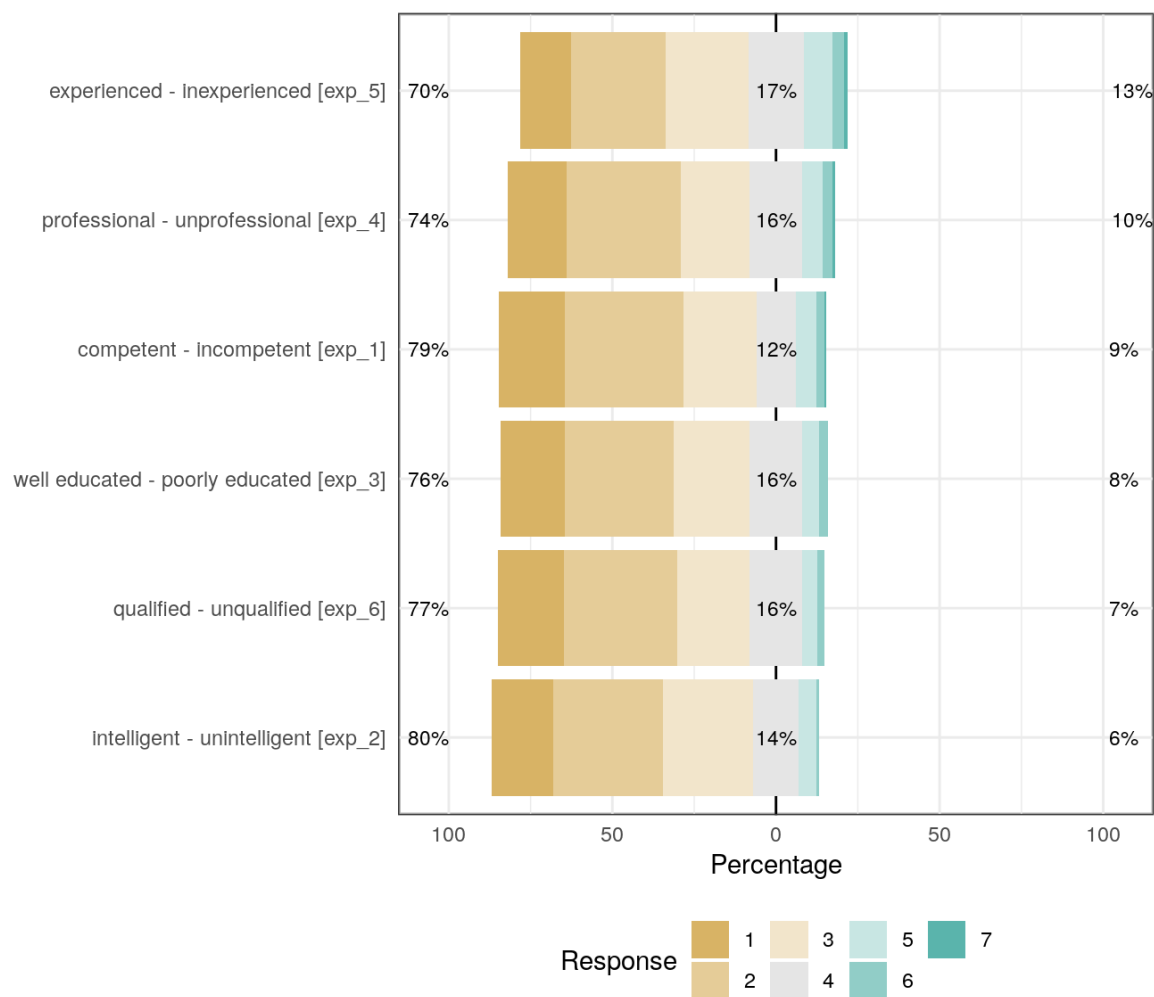
3.0.7.1 Overview

3.0.7.2 Reliability details

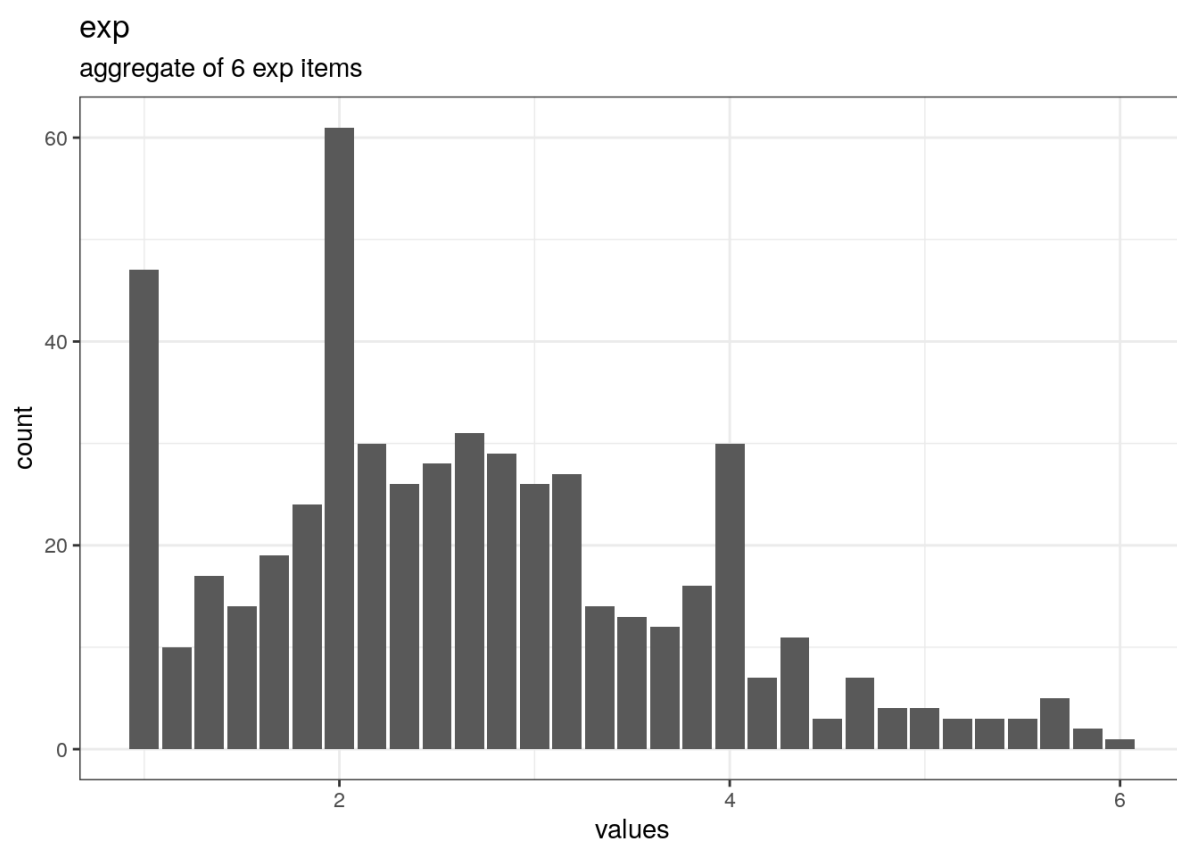
3.0.7.3 Summary statistics

Reliability: ω_{total} [95% CI] = 0.94 [not computed].

Missing: 0.



Likert plot of scale exp items



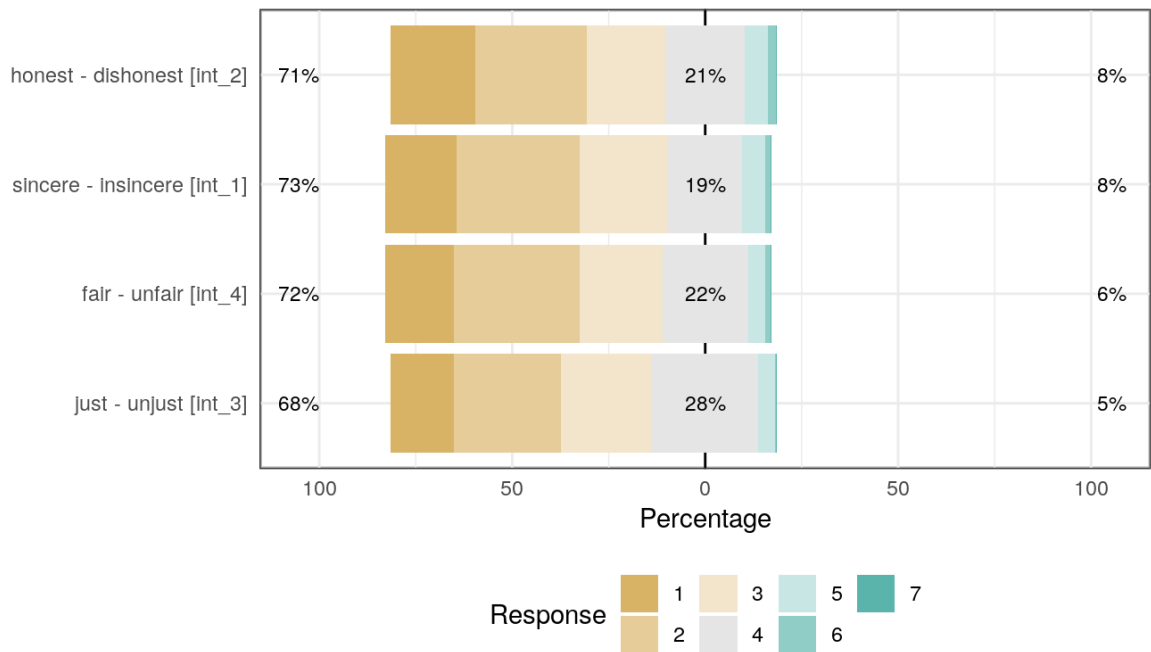
Distribution of scale exp

3.0.8 Scale: int

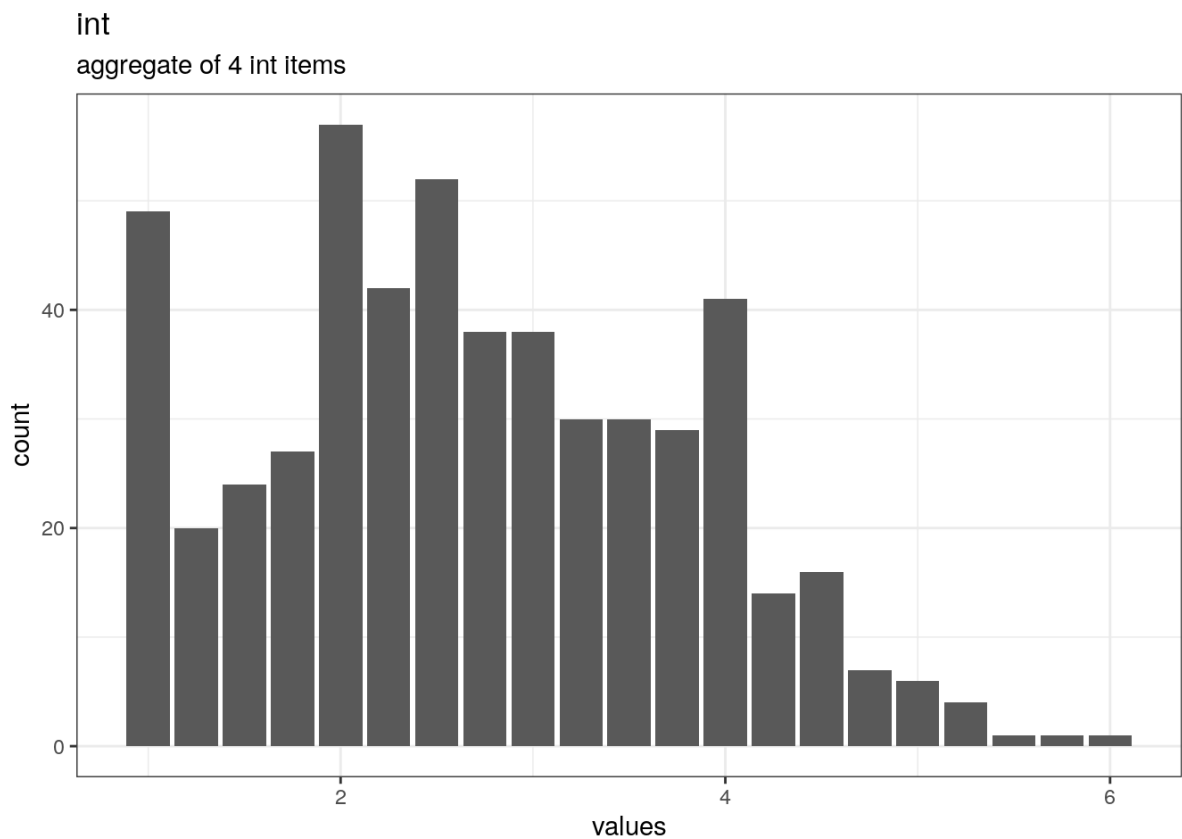
- 3.0.8.1 Overview
- 3.0.8.2 Reliability details
- 3.0.8.3 Summary statistics

Reliability: ω_{ordinal} [95% CI] = 0.92 [0.9;0.93].

Missing: 0.



Likert plot of scale int items

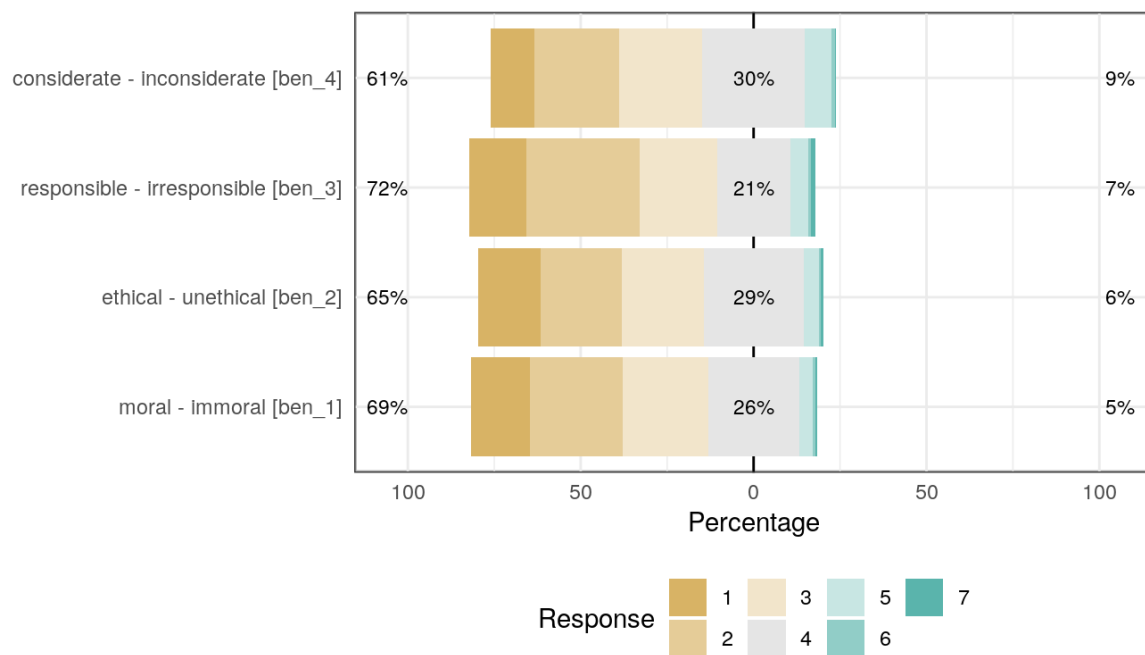


Distribution of scale int

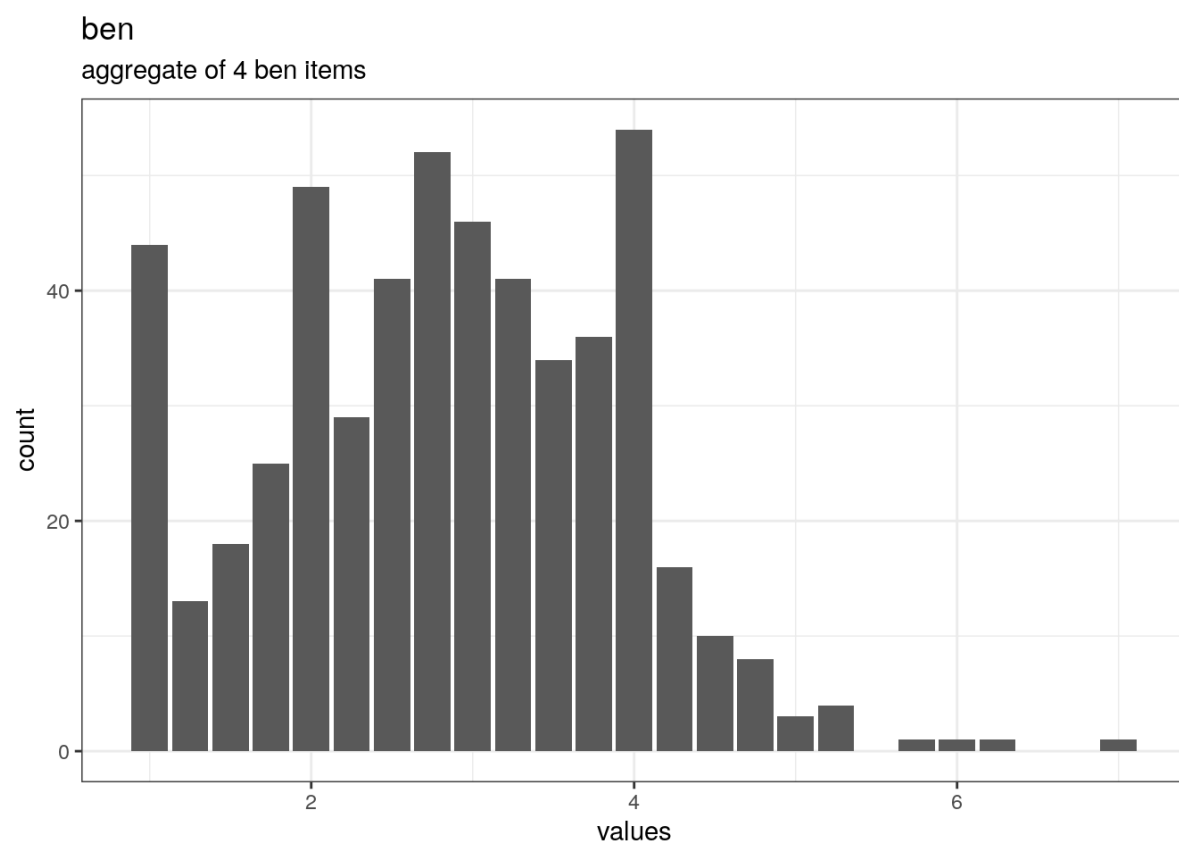
3.0.9 Scale: ben

Reliability: ω_{ordinal} [95% CI] = 0.9 [0.89;0.91].

Missing: 0.



Likert plot of scale ben items

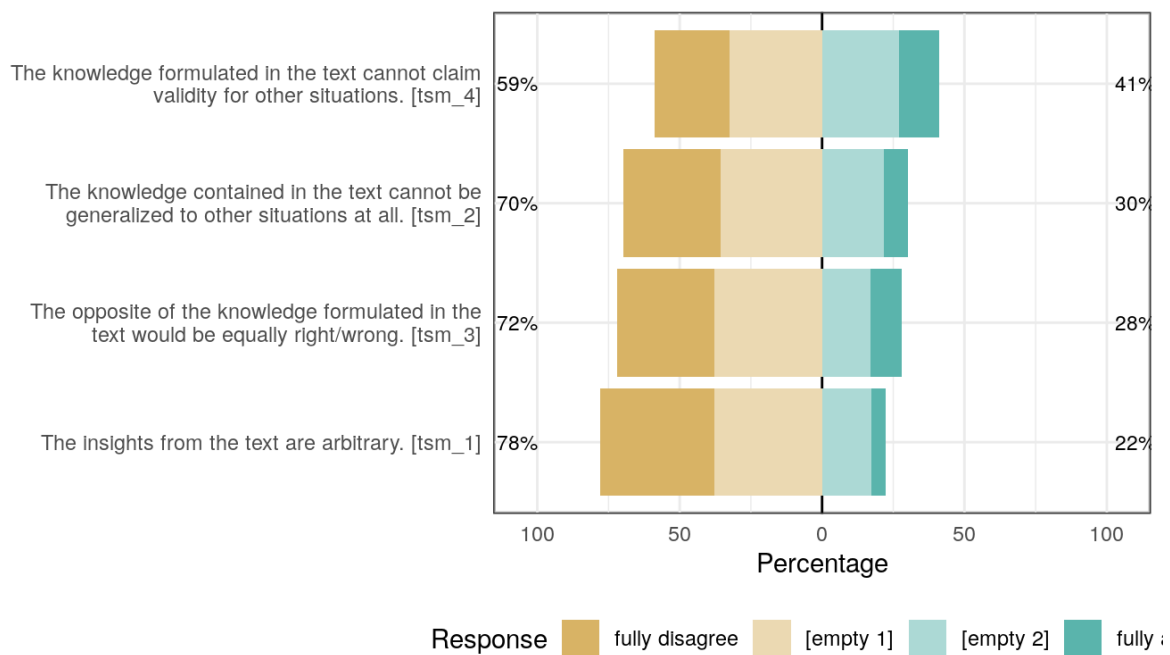


Distribution of scale ben

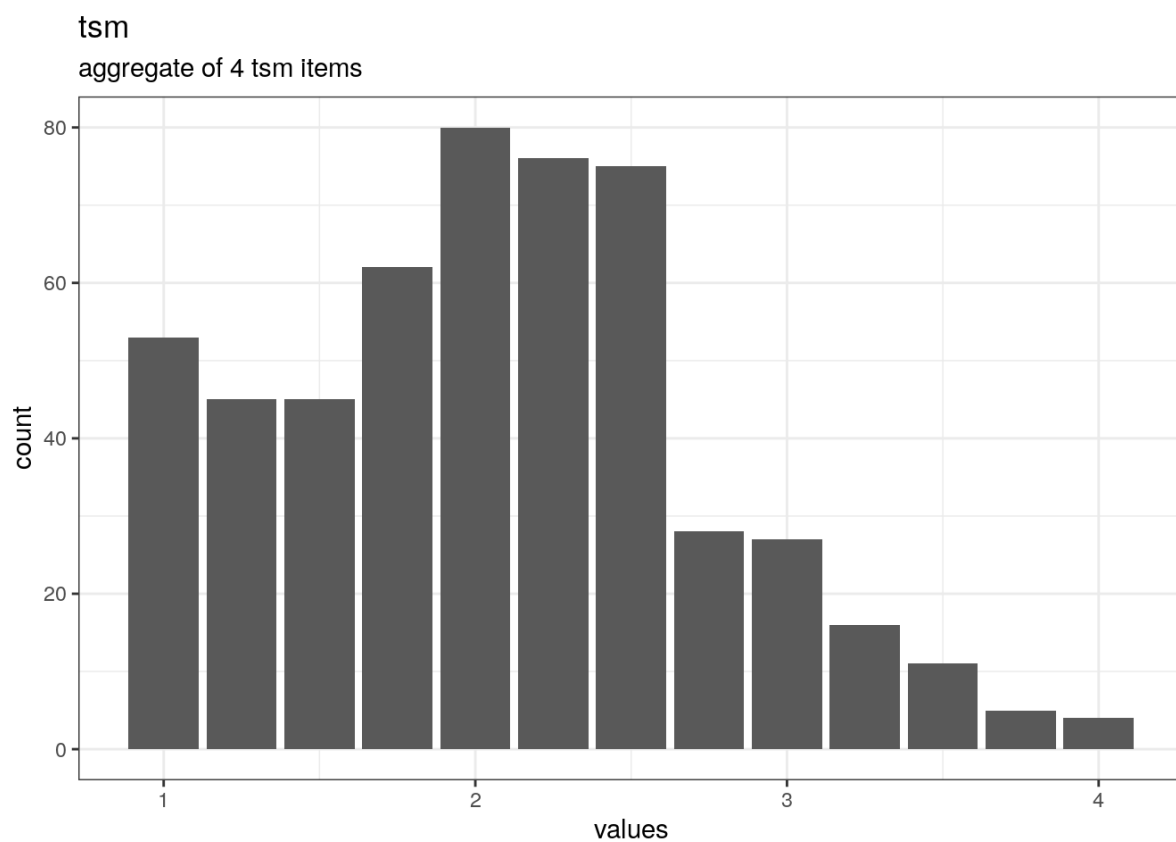
3.0.10 Scale: tsm

Reliability: ω_{ordinal} [95% CI] = 0.74 [0.7;0.77].

Missing: 0.



Likert plot of scale tsm items

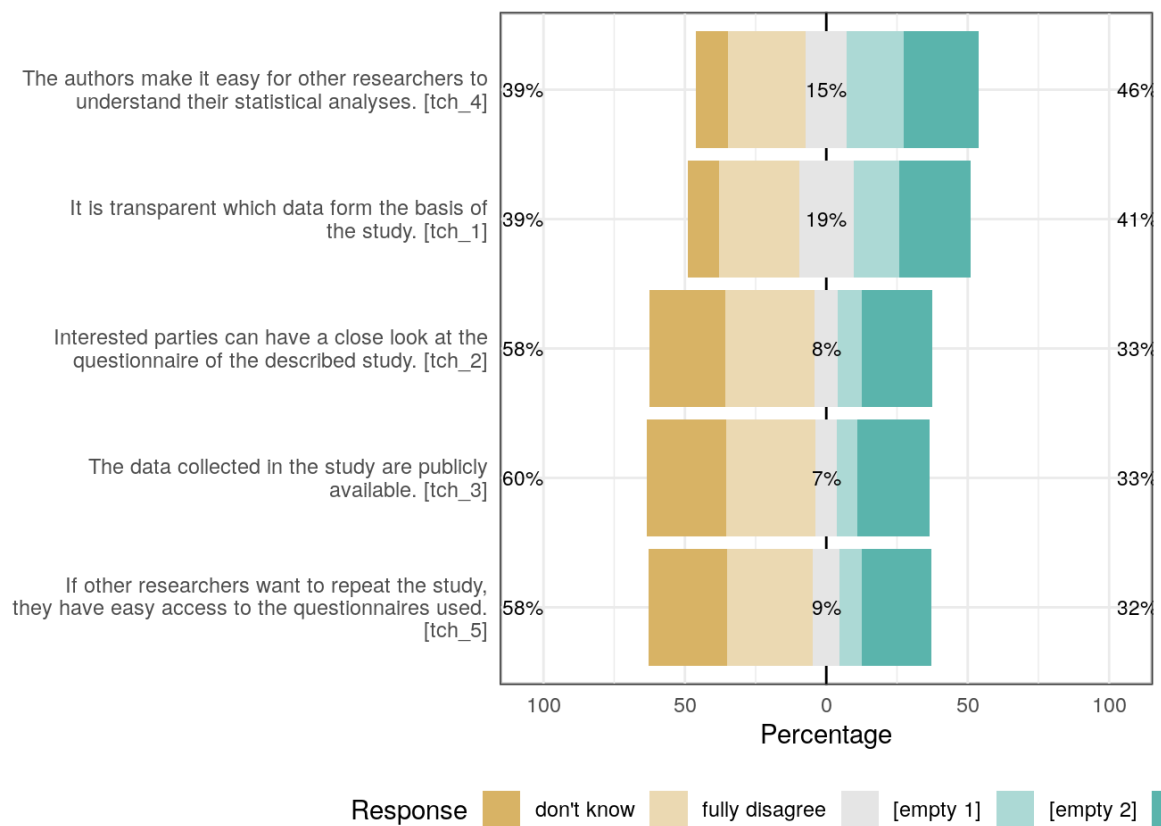


Distribution of scale tsm

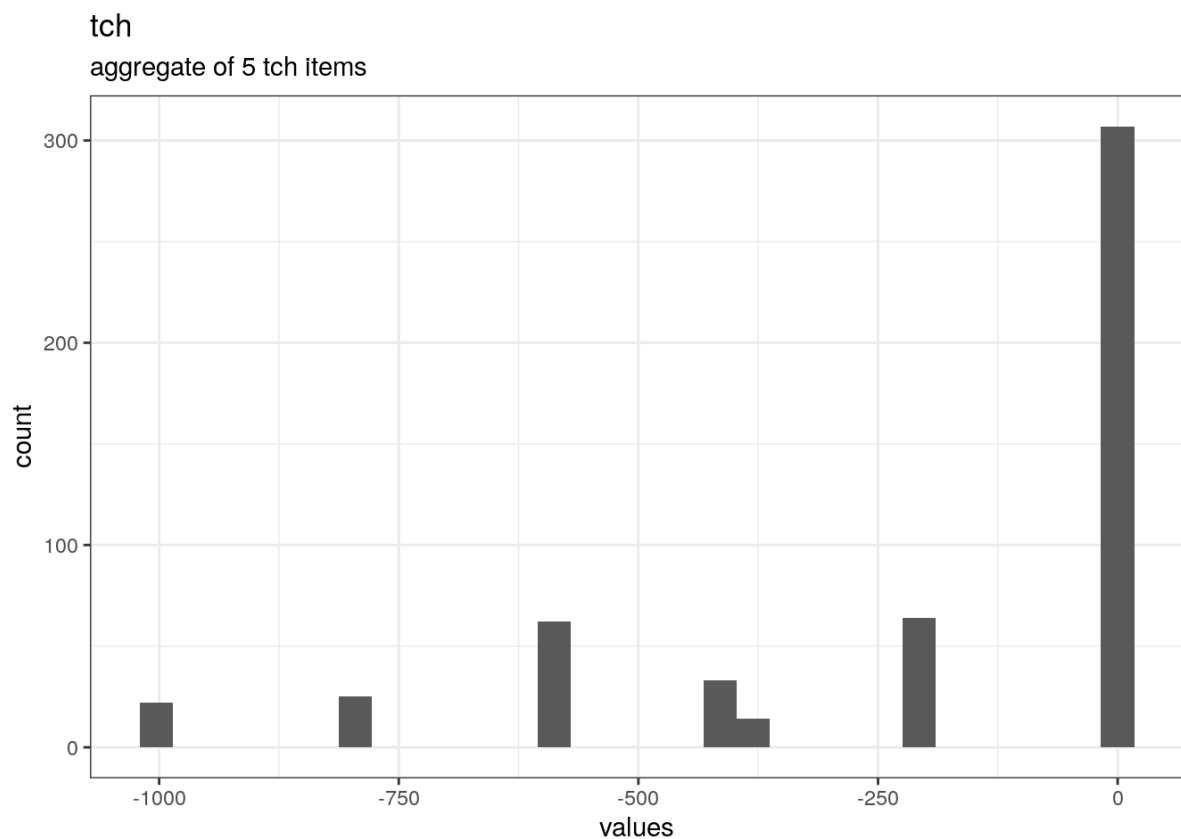
3.0.11 Scale: tch

Reliability: ω_{total} [95% CI] = 0.84 [0.82;0.86].

Missing: 0.



Likert plot of scale tch items



3.1 Missingness report

description	a...	semester	s...	var_miss	n_miss
<chr>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>
Missing values in 0 variables	1	1	1	0	506
Missing values per variable	21	21	21	63	63
Missing values in 3 variables	0	0	0	3	21
3 rows					

3.2 Codebook table

Copy

CSV

Excel

PDF

Print

Search:

name	label	data_type	value_labels	scale_item_names
<input type="text"/>	<input type="text" value="All"/>	<input type="text" value="A"/>	<input type="text" value="A"/>	<input type="text" value="All"/>

<u>session</u>	character			
<u>treat</u>	Treatment condition, the participant was assigned to.	haven_labelled	GB. Greyed out badges (no adherence to Open Science standards), CC. Control Condition (no badges), CB. Colored out badges (adherence to Open Science standards)	
<u>exp_1</u>	competent - incompetent	haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7	

name	label	data_type	value_labels	scale_item_names
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<u>exp_2</u>	intelligent - unintelligent	haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7	
<u>exp_3</u>	well educated - poorly educated	haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7	
<u>exp_4</u>	professional - unprofessional	haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7	
<u>exp_5</u>	experienced - inexperienced	haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7	
<u>exp_6</u>	qualified - unqualified	haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7	

name	label	data_type	value_labels	scale_item_names
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<u>int_1</u>	sincere - insincere	haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7	
<u>int_2</u>	honest - dishonest	haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7	
<u>int_3</u>	just - unjust	haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7	
<u>int_4</u>	fair - unfair	haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7	
<u>ben_1</u>	moral - immoral	haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7	

name	label	data_type	value_labels	scale_item_names
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<u>ben_2</u>	ethical - unethical	haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7	
<u>ben_3</u>	responsible - irresponsible	haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7	
<u>ben_4</u>	considerate - inconsiderate	haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7	
<u>meas_rep</u>	Measurement repetition, first and second measurement	haven_labelled	1. first measurement, 2. second measurement	
<u>tsm_1</u>	The insights from the text are arbitrary.	haven_labelled	1. fully disagree, 2. [empty 1], 3. [empty 2], 4. fully agree	
<u>tsm_2</u>	The knowledge contained in the text cannot be generalized to other situations at all.	haven_labelled	1. fully disagree, 2. [empty 1], 3. [empty 2], 4. fully agree	

name	label	data_type	value_labels	scale_item_names
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<u>tsm_3</u>	The opposite of the knowledge formulated in the text would be equally right/wrong.	haven_labelled	1. fully disagree, 2. [empty 1], 3. [empty 2], 4. fully agree	
<u>tsm_4</u>	The knowledge formulated in the text cannot claim validity for other situations.	haven_labelled	1. fully disagree, 2. [empty 1], 3. [empty 2], 4. fully agree	
<u>age</u>	Age	character		
<u>semester</u>	How many semesters of teaching/education-related coursework are you in (counting bachelor's degrees)?	numeric		
<u>sex</u>	Sex	haven_labelled	1. female, 2. male, 3. other	
<u>tch_1</u>	It is transparent which data form the basis of the study.	haven_labelled	1. fully disagree, 2. [empty 1], 3. [empty 2], 4. fully agree, -999. don't know	
<u>tch_2</u>	Interested parties can have a close look at the questionnaire of the described study.	haven_labelled	1. fully disagree, 2. [empty 1], 3. [empty 2], 4. fully agree, -999. don't know	

name	label	data_type	value_labels	scale_item_names
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<u>tch_3</u>	The data collected in the study are publicly available.	haven_labelled	1. fully disagree, 2. [empty 1], 3. [empty 2], 4. fully agree, -999. don't know	
<u>tch_4</u>	The authors make it easy for other researchers to understand their statistical analyses.	haven_labelled	1. fully disagree, 2. [empty 1], 3. [empty 2], 4. fully agree, -999. don't know	
<u>tch_5</u>	If other researchers want to repeat the study, they have easy access to the questionnaires used.	haven_labelled	1. fully disagree, 2. [empty 1], 3. [empty 2], 4. fully agree, -999. don't know	
<u>exp</u>	aggregate of 6 exp items	numeric		exp_1, exp_2, exp_3, exp_4, exp_5, exp_6
<u>int</u>	aggregate of 4 int items	numeric		int_1, int_2, int_3, int_4
<u>ben</u>	aggregate of 4 ben items	numeric		ben_1, ben_2, ben_3, ben_4
<u>tsm</u>	aggregate of 4 tsm items	numeric		tsm_1, tsm_2, tsm_3, tsm_4
<u>tch</u>	aggregate of 5 tch items	numeric		tch_1, tch_2, tch_3, tch_4, tch_5

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► JSON-LD metadata