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Codebook

Code ▾

Public Sample

July 12th 2021

1 Description

This is the codebook of “Study 3” 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 separately
- “abs1_” or “abs2_” in the scale name indicates if the item/scale refers to the first or second abstract

2 Metadata

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```

load(here("9_data+codebooks/rbt_study3_public.RData"))

# define several variables as character so they get plotted better
# rbt_public$position <- as.character(rbt_public$position)
rbt_public$country <- as.character(rbt_public$country)

rbt_public <- rbt_public %>%
  rename_at(vars(abs1_tsc_2, abs2_tsc_2), add_R)

rbt_public <- rbt_public %>%
  mutate_at(vars(matches("\\dR$")), reverse_labelled_values)

rbt_public <- rbt_public %>%
  dplyr::select(treat1:education)

rbt_public <- detect_scales(rbt_public, quiet = FALSE)

```

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```

metadata(rbt_public)$name <- "Journals' Open Science Badges Foster Trust in Scientists. Study 3: Public Sample."
metadata(rbt_public)$description <- "Code book to manuscript"
metadata(rbt_public)$identifier <- ""
metadata(rbt_public)$datePublished <- "2021-07-12"
metadata(rbt_public)$creator <- list(
  "@type" = "Person",
  givenName = "Schneider", familyName = "Jürgen",
  email = "juergen.schneider@uni-tuebingen.de",
  affiliation = list("@type" = "Organization",
    name = "University of Tübingen"))
metadata(rbt_public)$citation <- "Schneider, J. (2021). Journals' Open Science Badges Foster Trust in Scientists. Codebook of Study 3: Public sample"

```

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# add variable labels
var_label(rbt_public) <- list(
  treat1 = "First treatment condition, the participant was assigned to.",
  treat2 = "Second treatment condition, the participant was assigned to.",
  first_topic = "Topic the participant received first.",
  education = "Which is the highest qualification you have?",
  abs1_tru_exp_1 = "competent - incompetent",
  abs1_tru_exp_2 = "intelligent - unintelligent",
  abs1_tru_exp_3 = "well educated - poorly educated",
  abs1_tru_exp_4 = "professional - unprofessional",
  abs1_tru_exp_5 = "experienced - inexperienced",
  abs1_tru_exp_6 = "qualified - unqualified",
  abs1_tru_int_1 = "sincere - insincere",
  abs1_tru_int_2 = "honest - dishonest",
  abs1_tru_int_3 = "just - unjust",
  abs1_tru_int_4 = "fair - unfair",
  abs1_tru_ben_1 = "moral - immoral",
  abs1_tru_ben_2 = "ethical - unethical",
  abs1_tru_ben_3 = "responsible - irresponsible",
  abs1_tru_ben_4 = "considerate - inconsiderate",
  abs2_tru_exp_1 = "competent - incompetent",
  abs2_tru_exp_2 = "intelligent - unintelligent",
  abs2_tru_exp_3 = "well educated - poorly educated",
  abs2_tru_exp_4 = "professional - unprofessional",
  abs2_tru_exp_5 = "experienced - inexperienced",
  abs2_tru_exp_6 = "qualified - unqualified",
  abs2_tru_int_1 = "sincere - insincere",
  abs2_tru_int_2 = "honest - dishonest",
  abs2_tru_int_3 = "just - unjust",
  abs2_tru_int_4 = "fair - unfair",
  abs2_tru_ben_1 = "moral - immoral",
  abs2_tru_ben_2 = "ethical - unethical",
  abs2_tru_ben_3 = "responsible - irresponsible",
  abs2_tru_ben_4 = "considerate - inconsiderate",
  country = "Country of residence",
  country_oth = "please specify other country"
)

# add value labels #####
val_labels(rbt_public$treat1) <- c("Greyed out badges (no adherence to Open Science standards)" = "gb",
                                   "Control Condition (no badges)" = "c",
                                   "Colored out badges (adherence to Open Science standards)" = "cb")

val_labels(rbt_public$treat2) <- c("Greyed out badges (no adherence

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```

to Open Science standards)" = "gb",
                                "Control Condition (no badges)" = "c
c",
                                "Colored out badges (adherence to Op
en Science standards)" = "cb")

# 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_public <- rbt_public %>%
  mutate_at(vars(abs1_tru_exp_1:abs1_tru_ben_4, abs2_tru_exp_1:abs2_
tru_ben_4), add_semantic_diff)

# education
val_labels(rbt_public$education) <- c("1 - 4 O levels / CSEs / GCSEs
(any grades), ..." = "L12", # ...Entry Level, Foundation Diploma / N
VQ Level 1, Foundation GNVQ, Basic Skills / 5+ O levels (passes) / C
SEs (grade 1) / GCSEs (grades A*- C), School Certificate, 1 A level
/ 2 - 3 AS levels / VCEs, Higher Diploma / NVQ Level 2, Intermediate
GNVQ, City and Guilds Craft, BTEC First / General Diploma, RSA Diplo
ma, Baccalaureate Intermediate Diploma
                                "2+ A levels / VCEs, 4+ AS lev
els, Higher School Certificate, ..." = "L34", # Progression / Advanc
ed Diploma, Baccalaureate Advanced Diploma / NVQ Level 3, Advanced G
NVQ, City and Guilds Advanced Craft, ONC, OND, BTEC National, RSA Ad
vanced Diploma / Degree (for example BA, BSc), Higher degree (for ex
ample MA, PhD, PGCE) / NVQ Level 4 - 5, HNC, HND, RSA Higher Diplom
a, BTEC Higher Level, Foundation degree (NI) / Professional qualific
ations (for example teaching, nursing, accountancy)
                                "Apprenticeship / Other vocati
onal / work-related qualifications..." = "app") # / Foreign qualifi
cations / No academic or professional qualifications

# country
val_labels(rbt_public$country) <- c("United Kingdom" = "1",
                                    "Republic of Ireland" = "2",
                                    "USA" = "3",

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```
"Canada" = "4",  
"other" = "-999")
```

3 Codebook

3.0.1 Metadata

3.0.1.1 Description

Dataset name: Journals' Open Science Badges Foster Trust in Scientists. Study 3: Public Sample.

Code book to manuscript

► Metadata for search engines

#Variables

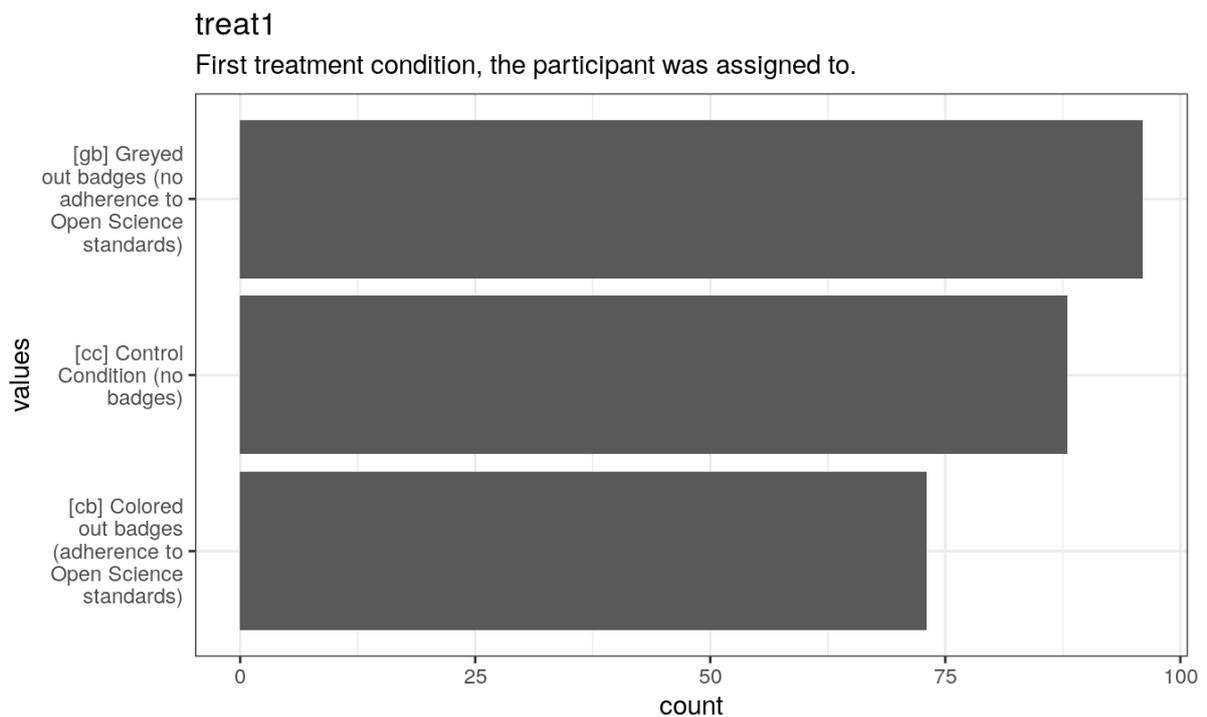
3.0.2 treat1

First treatment condition, the participant was assigned to.

3.0.2.1 Distribution

3.0.2.2 Summary statistics

3.0.2.3 Value labels



Distribution of values for treat1

0 missing values.

3.0.3 treat2

Second treatment condition, the participant was assigned to.

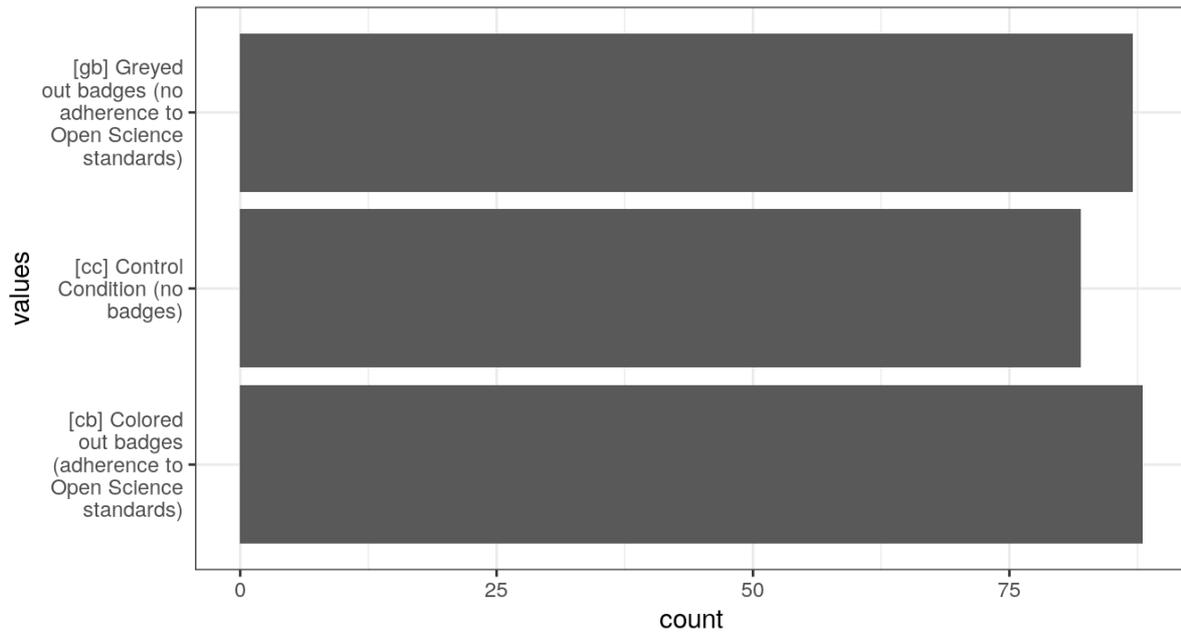
3.0.3.1 Distribution

3.0.3.2 Summary statistics

3.0.3.3 Value labels

treat2

Second treatment condition, the participant was assigned to.



Distribution of values for treat2

0 missing values.

3.0.4 first_topic

Topic the participant received first.

[3.0.4.1 Distribution](#)

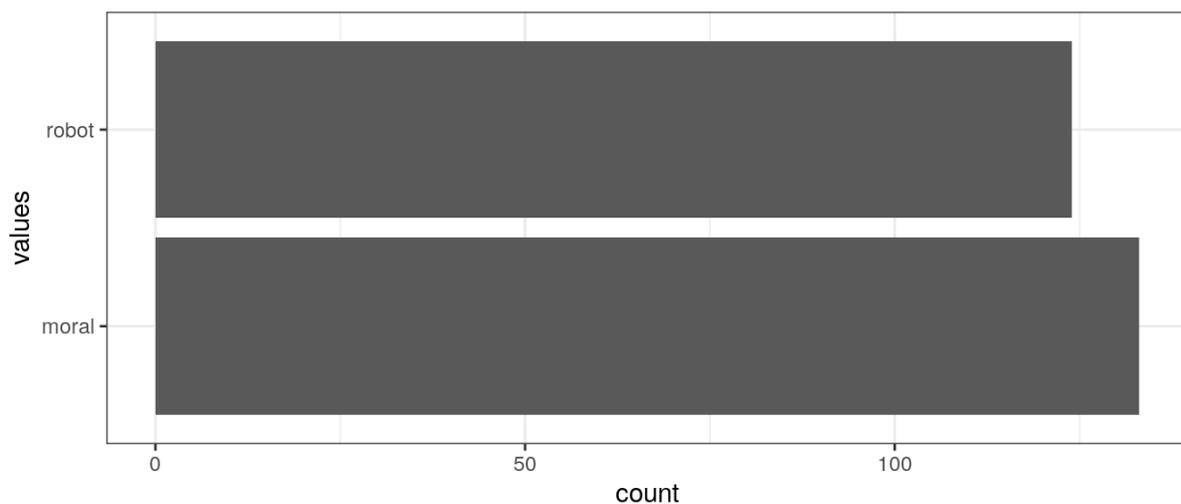
[3.0.4.2 Summary statistics](#)

[3.0.4.3 Item](#)

[3.0.4.4 Value labels](#)

first_topic

Topic the participant received first.



Distribution of values for first_topic

0 missing values.

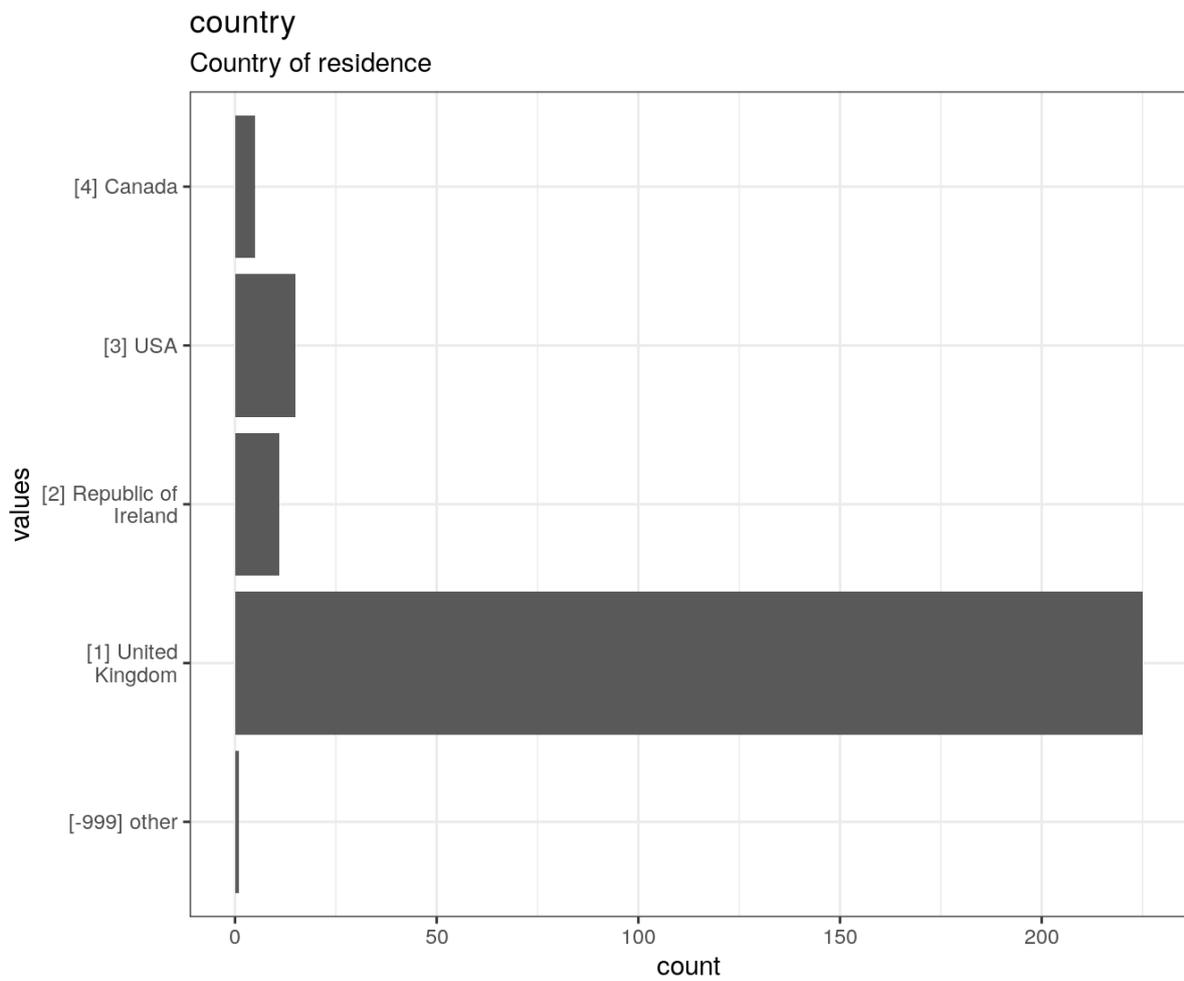
3.0.5 country

Country of residence

3.0.5.1 Distribution

3.0.5.2 Summary statistics

3.0.5.3 Value labels



Distribution of values for country

0 missing values.

3.0.6 country_oth

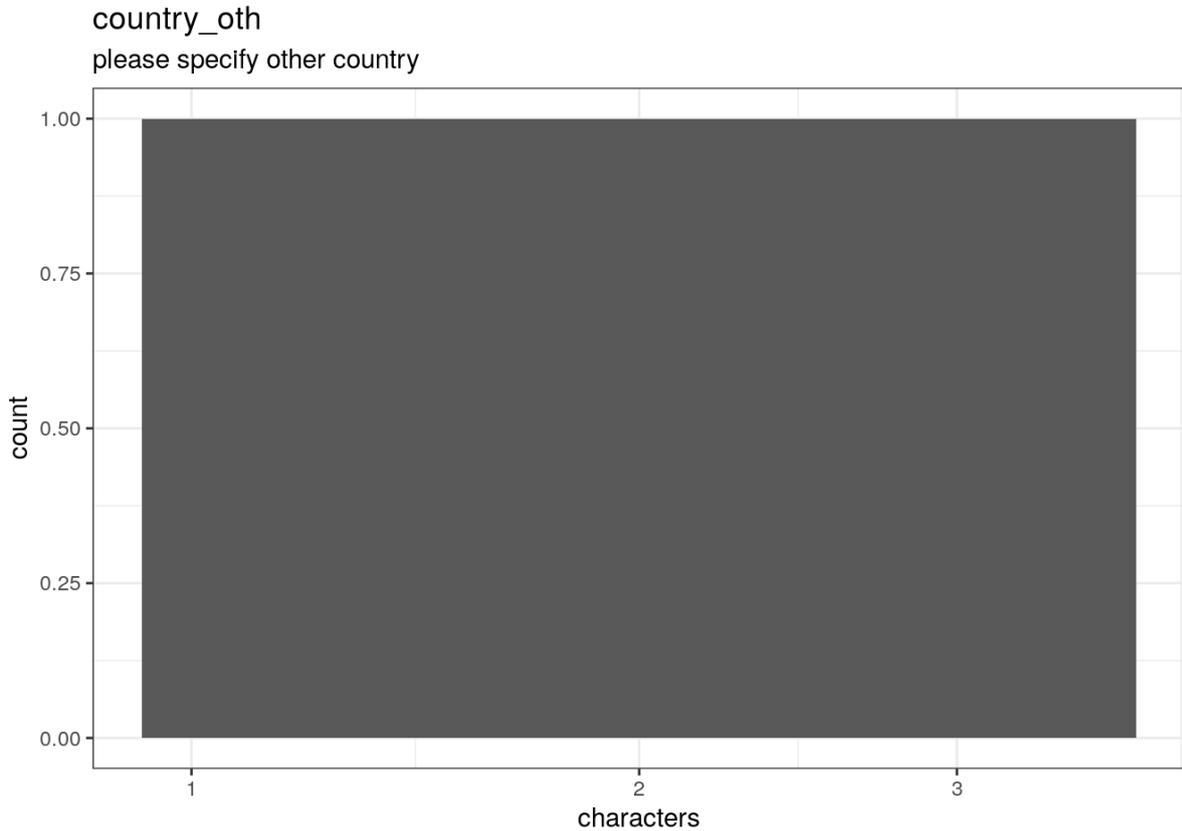
please specify other country

3.0.6.1 Distribution

3.0.6.2 Summary statistics

3.0.6.3 Item

3.0.6.4 Value labels



Distribution of values for country_oth

256 missing values.

3.0.7 Scale: abs1_tsm

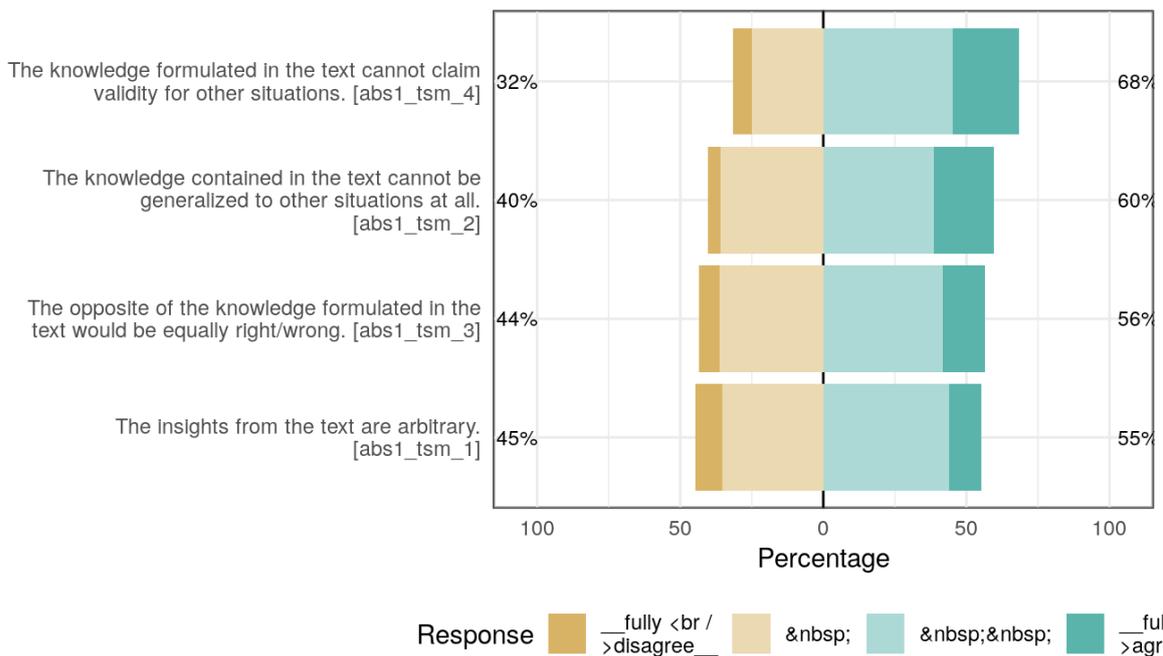
3.0.7.1 Overview

3.0.7.2 Reliability details

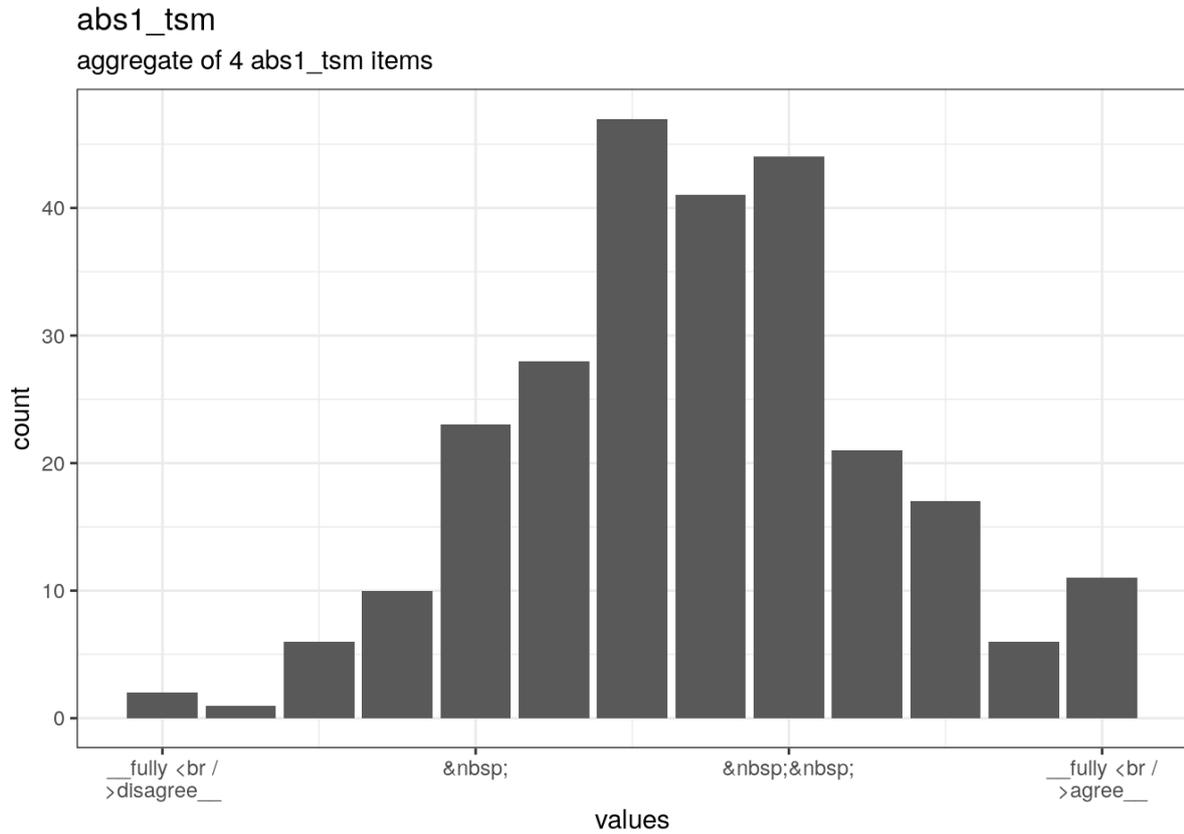
3.0.7.3 Summary statistics

Reliability: ω_{ordinal} [95% CI] = 0.75 [0.7;0.8].

Missing: 0.



Likert plot of scale abs1_tsm items



Distribution of scale abs1_tsm

3.0.8 Scale: abs1_tsc

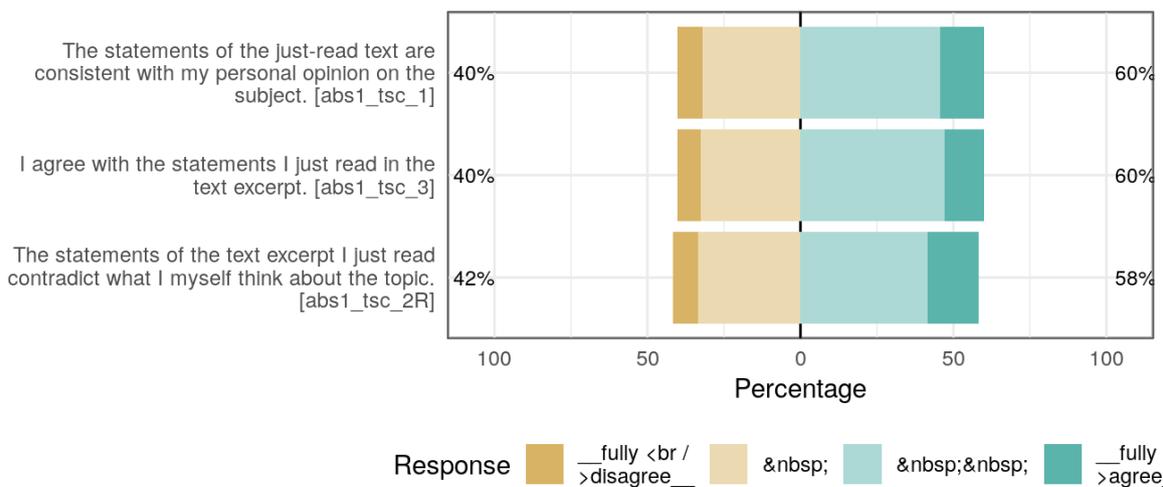
[3.0.8.1 Overview](#)

[3.0.8.2 Reliability details](#)

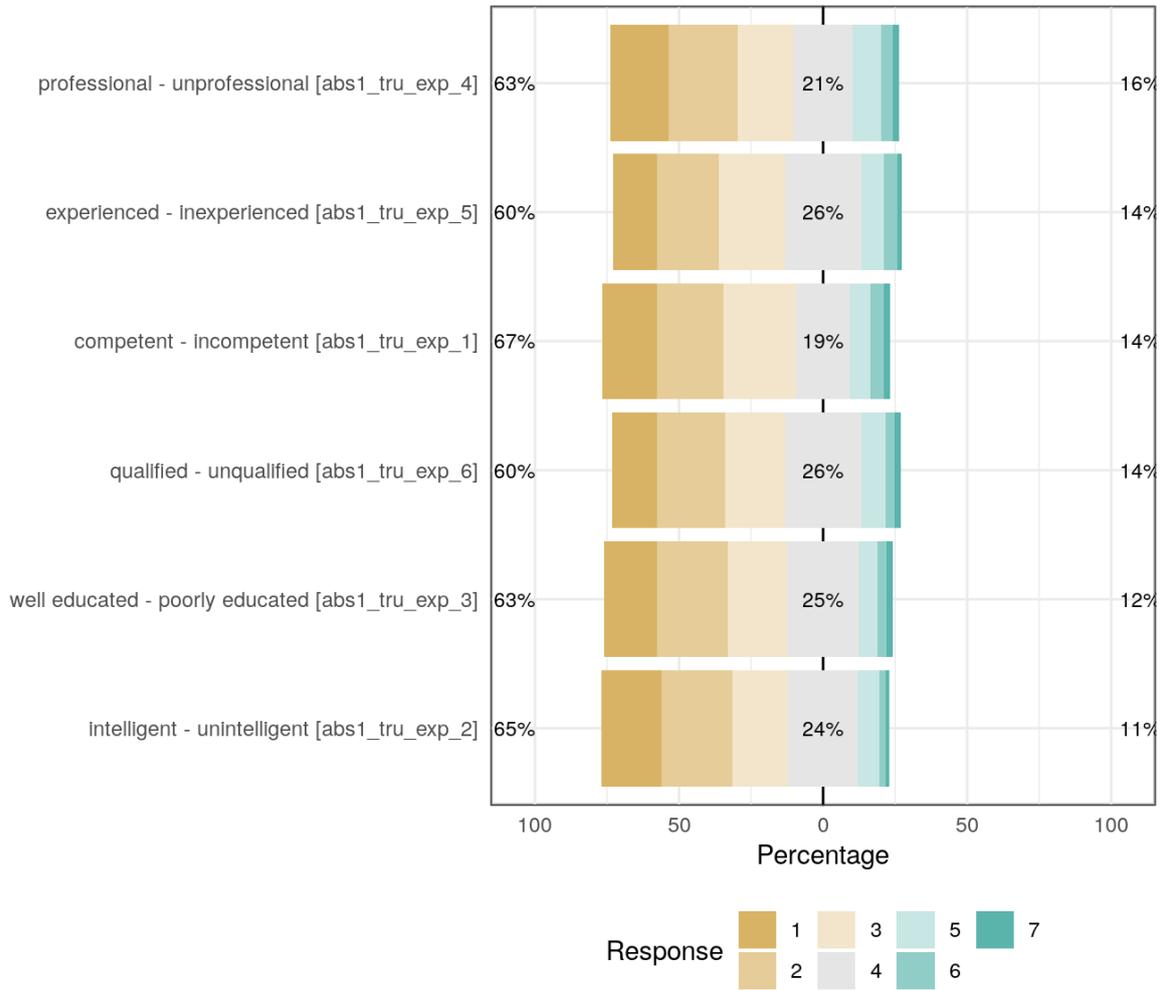
[3.0.8.3 Summary statistics](#)

Reliability: ω_{ordinal} [95% CI] = 0.72 [0.66;0.77].

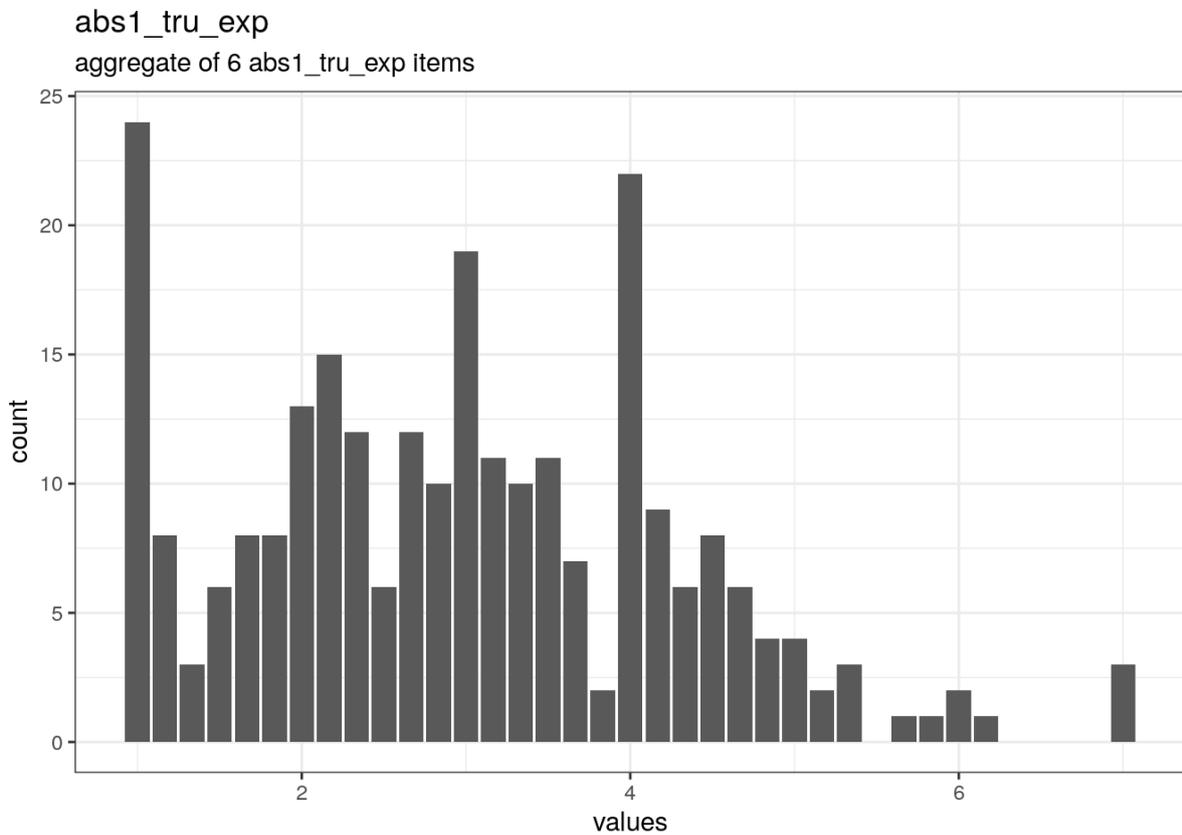
Missing: 0.



Likert plot of scale abs1_tsc items



Likert plot of scale abs1_tru_exp items



Distribution of scale abs1_tru_exp

3.0.10 Scale: abs1_tru_int

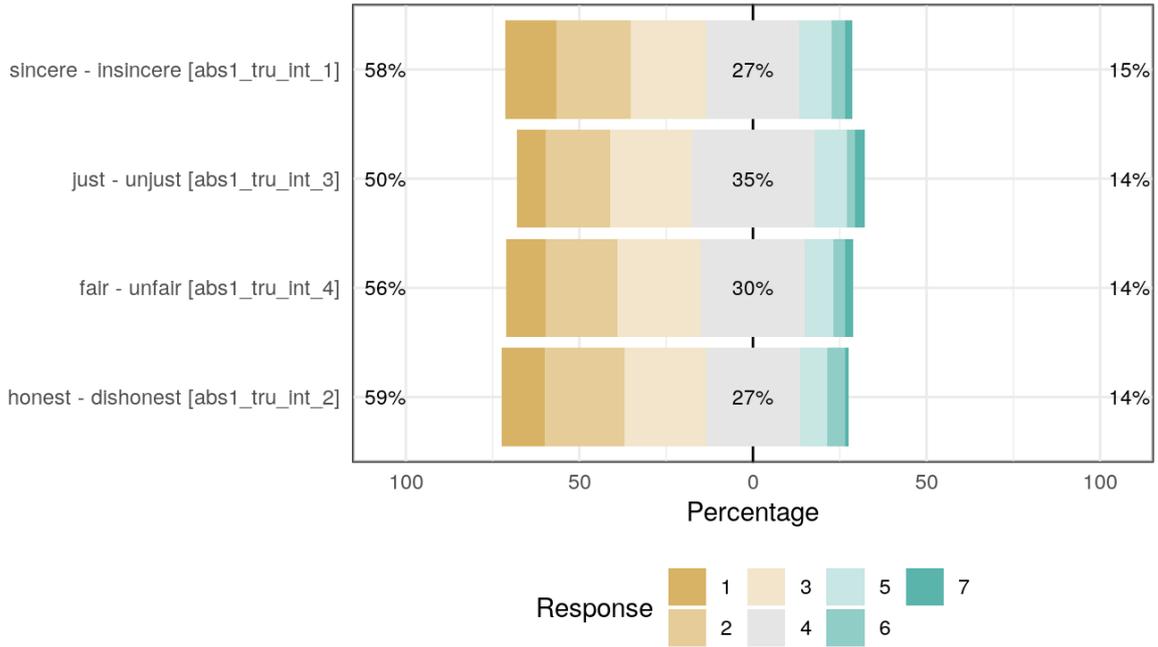
3.0.10.1 Overview

3.0.10.2 Reliability details

3.0.10.3 Summary statistics

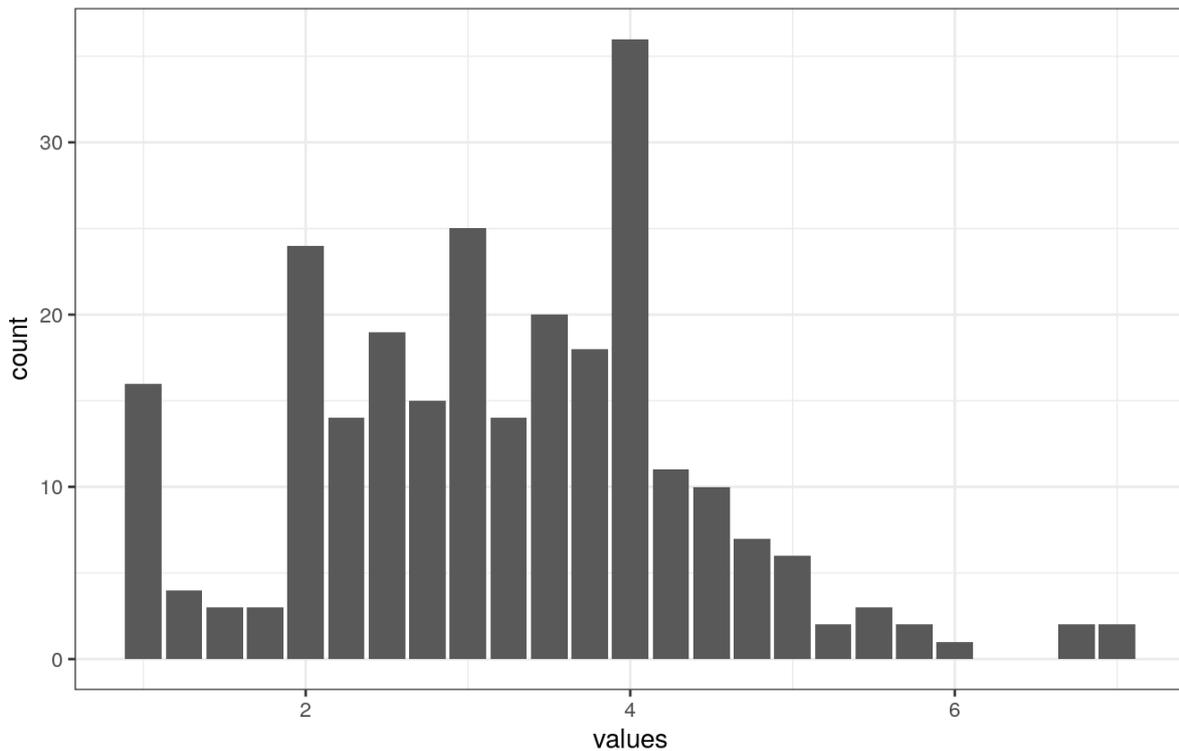
Reliability: ω_{ordinal} [95% CI] = 0.9 [0.88;0.92].

Missing: 0.



Likert plot of scale abs1_tru_int items

abs1_tru_int
aggregate of 4 abs1_tru_int items

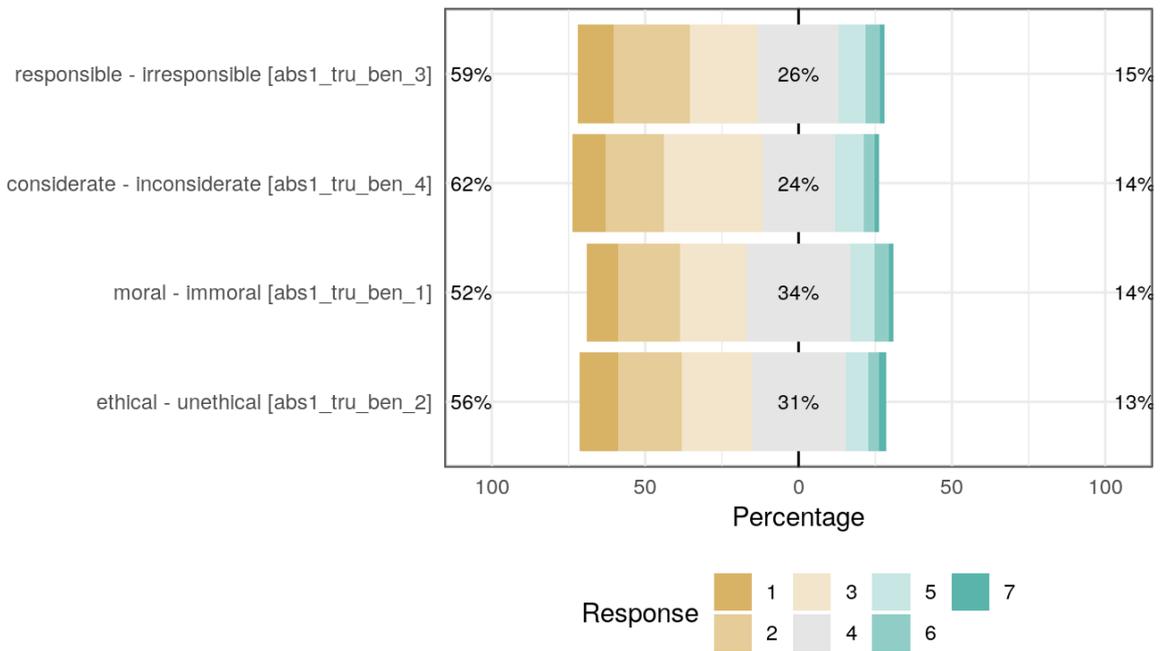


Distribution of scale abs1_tru_int

3.0.11 Scale: abs1_tru_ben

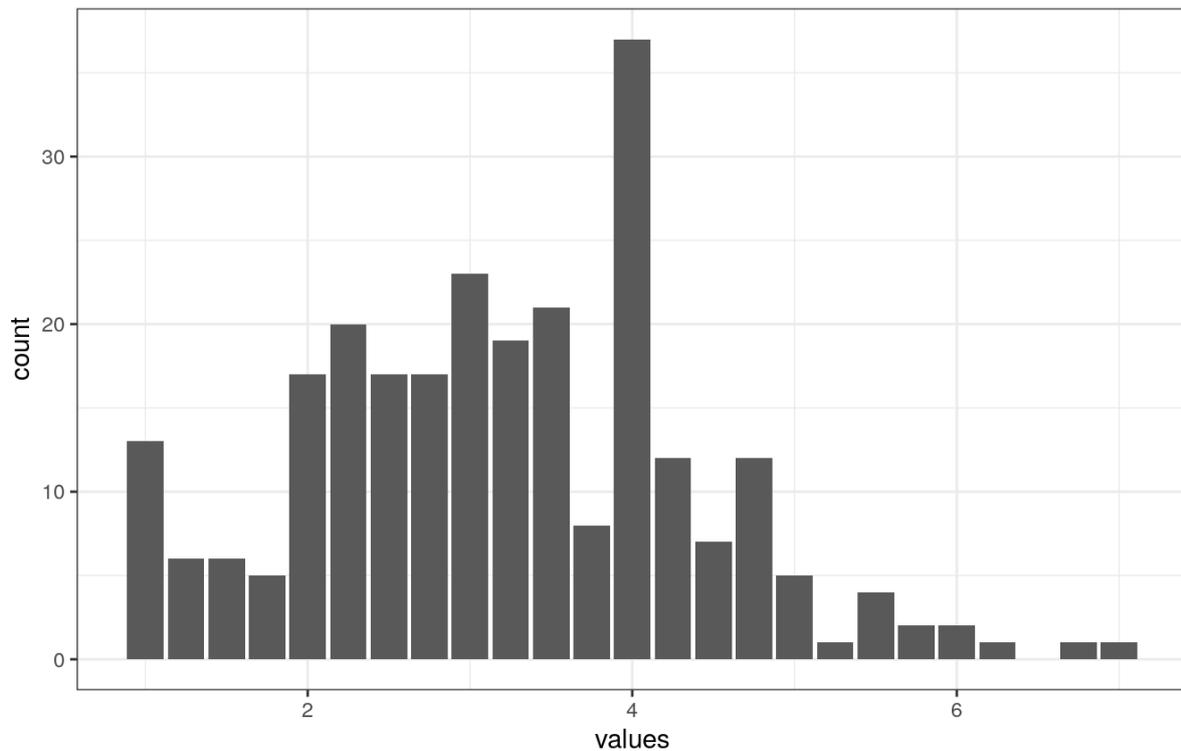
Reliability: $\omega_{\text{ordinal}} [95\% \text{ CI}] = 0.9 [0.88;0.92]$.

Missing: 0.



Likert plot of scale abs1_tru_ben items

abs1_tru_ben
aggregate of 4 abs1_tru_ben items

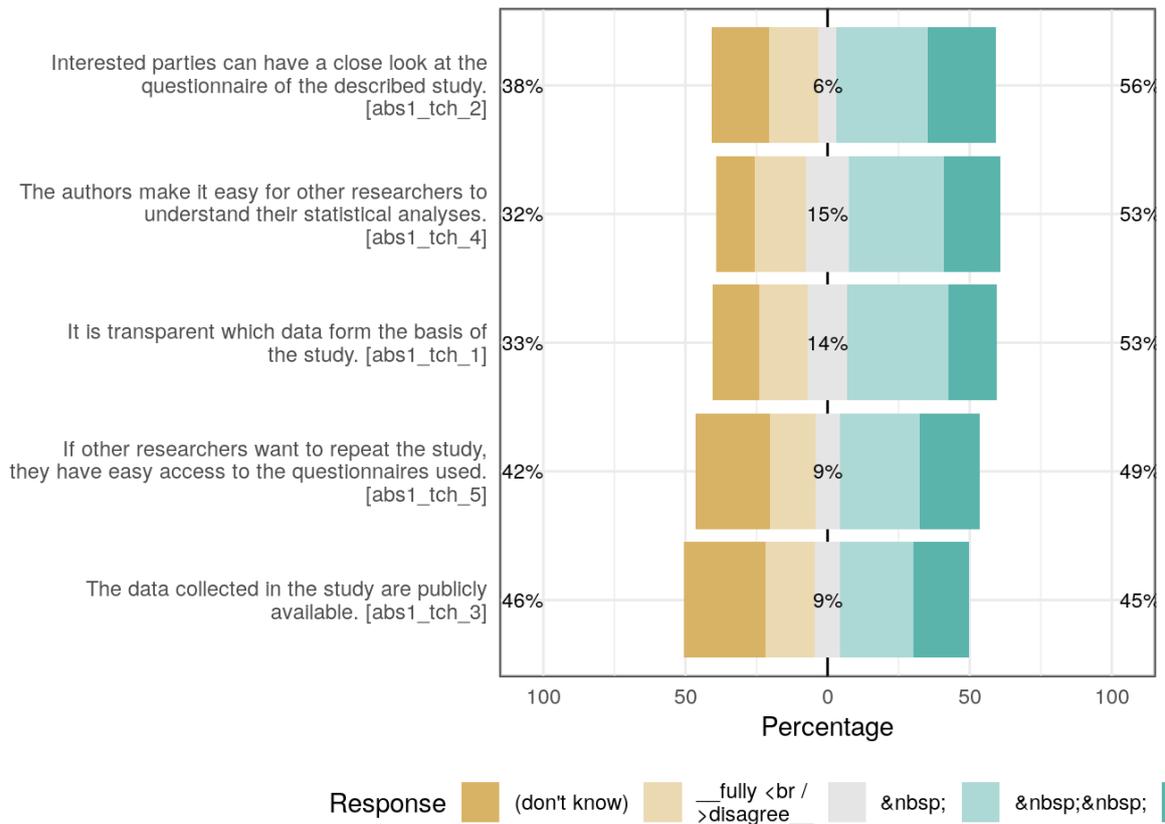


Distribution of scale abs1_tru_ben

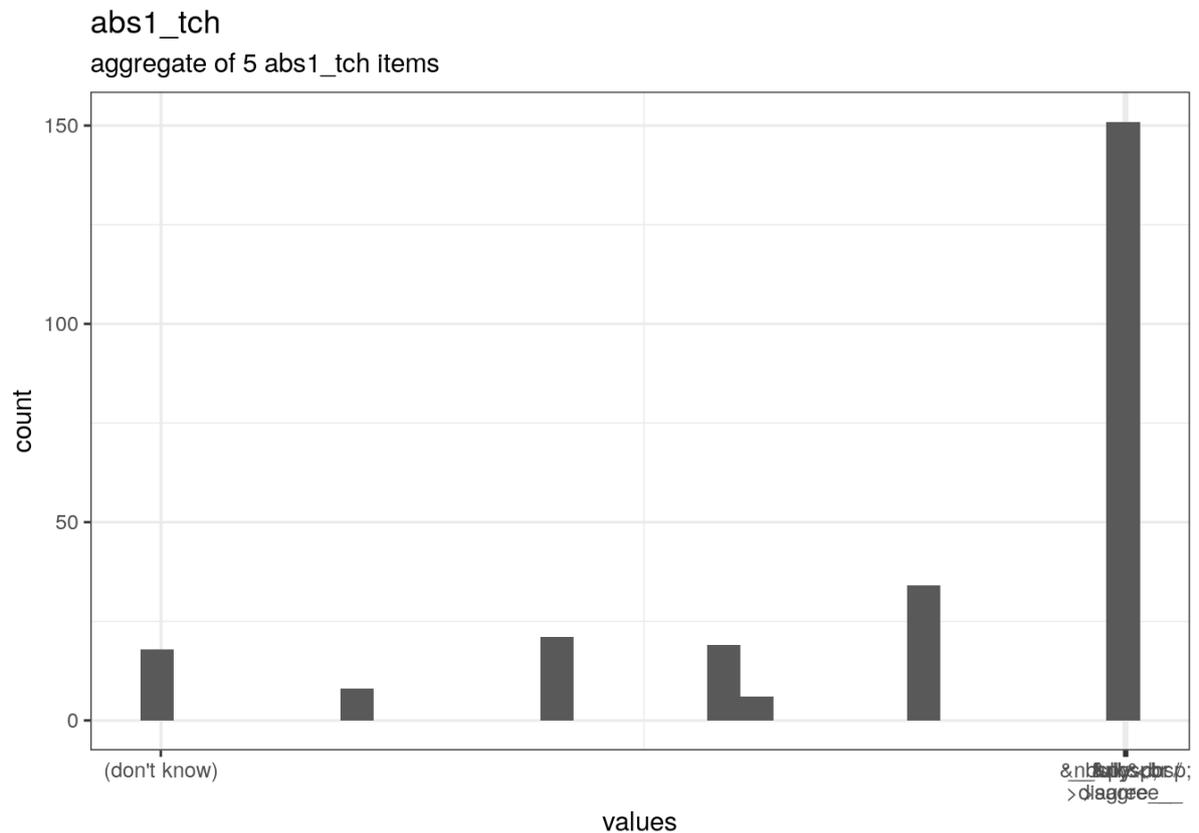
3.0.12 Scale: abs1_tch

Reliability: ω_{total} [95% CI] = 0.84 [0.8;0.87].

Missing: 0.



Likert plot of scale abs1_tch items

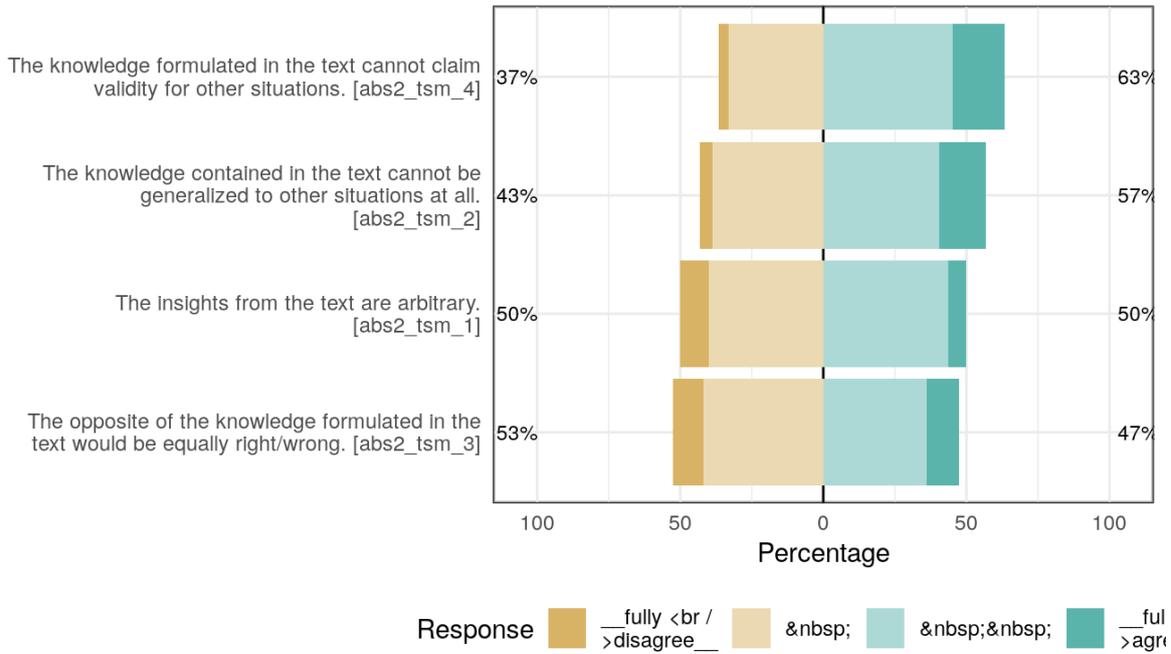


3.0.13 Scale: abs2_tsm

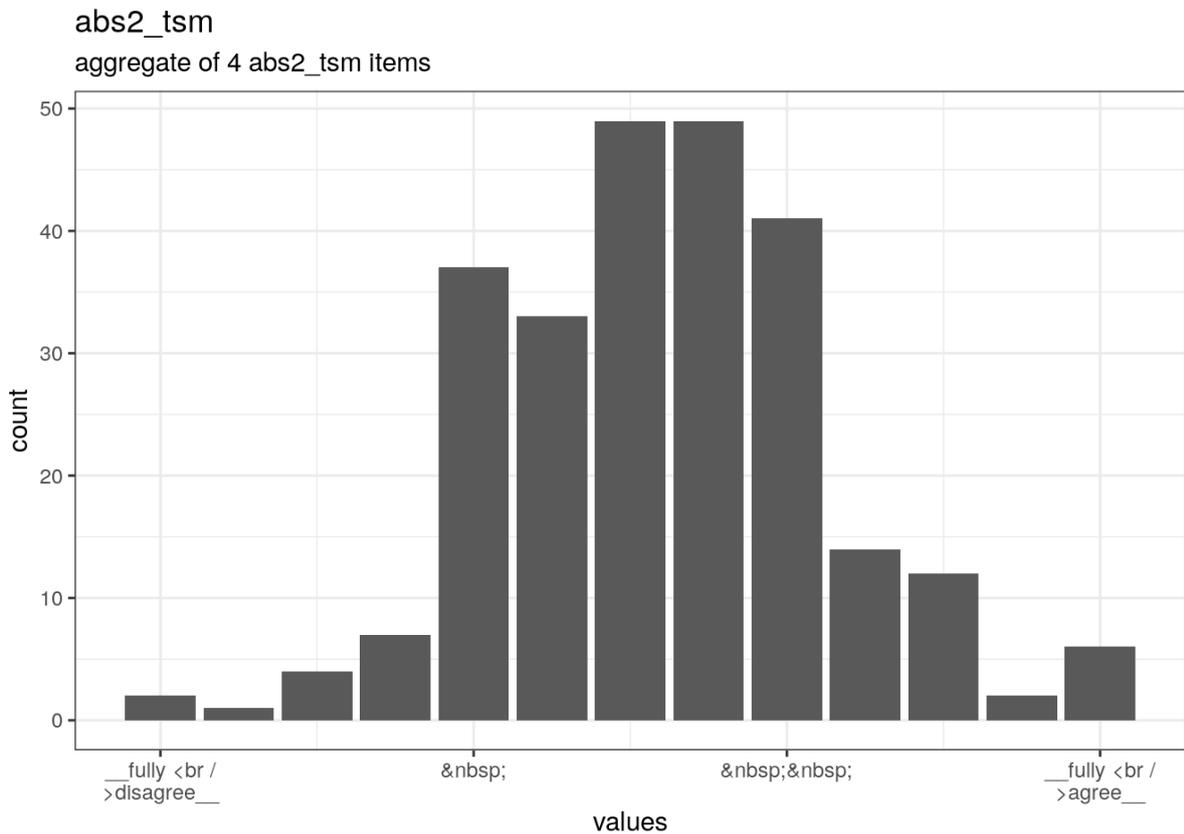
- 3.0.13.1 Overview
- 3.0.13.2 Reliability details
- 3.0.13.3 Summary statistics

Reliability: ω_{ordinal} [95% CI] = 0.66 [0.6;0.73].

Missing: 0.



Likert plot of scale abs2_tsm items



Distribution of scale abs2_tsm

3.0.14 Scale: abs2_tsc

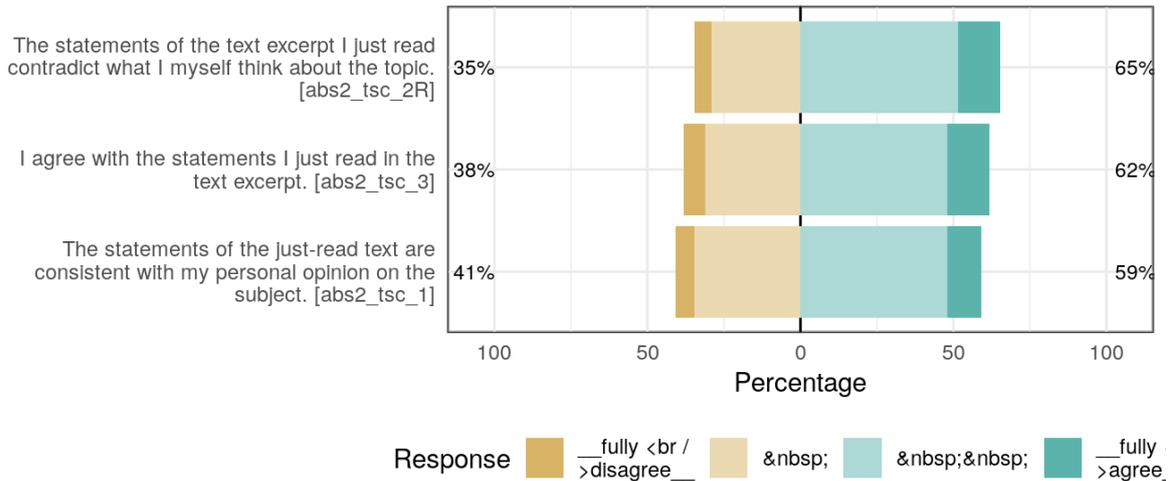
3.0.14.1 Overview

3.0.14.2 Reliability details

3.0.14.3 Summary statistics

Reliability: ω_{ordinal} [95% CI] = 0.78 [0.45;1].

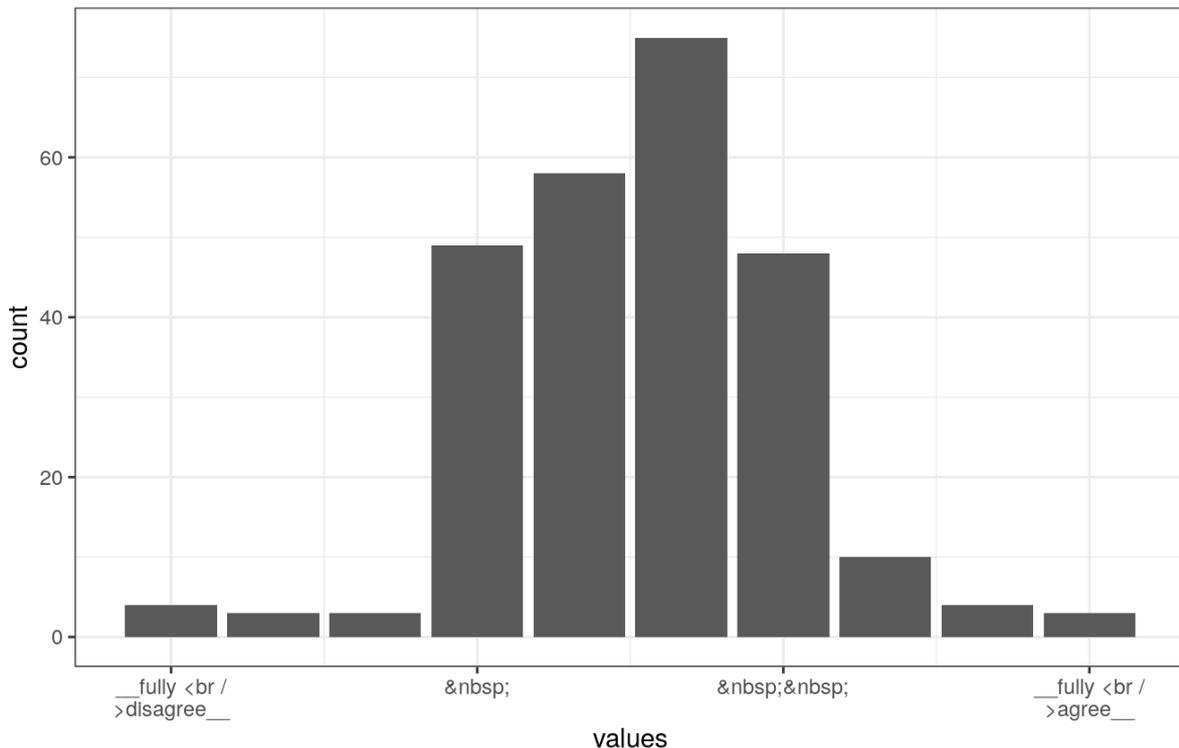
Missing: 0.



Likert plot of scale abs2_tsc items

abs2_tsc

aggregate of 3 abs2_tsc items



Distribution of scale abs2_tsc

3.0.15 Scale: abs2_tru_exp

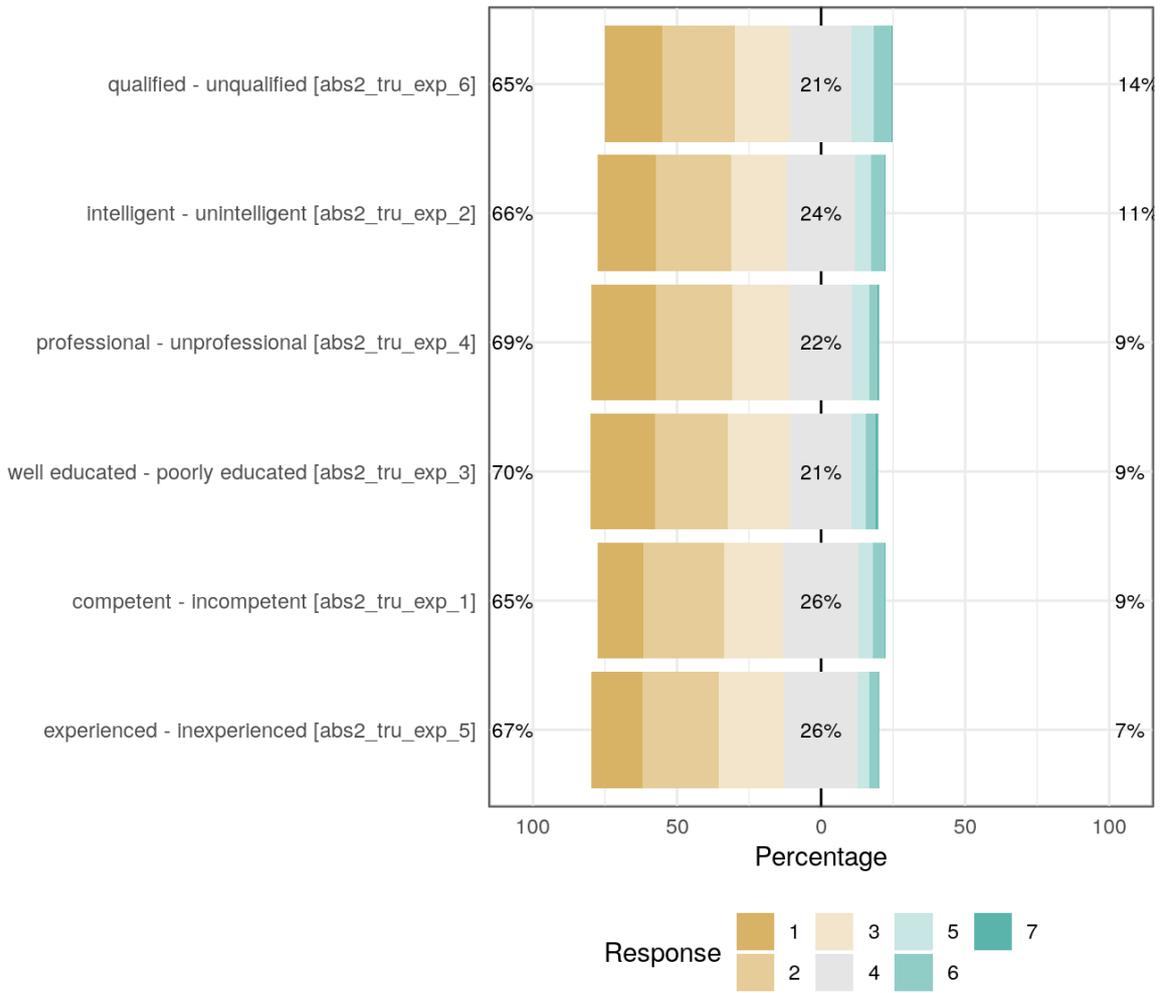
3.0.15.1 Overview

3.0.15.2 Reliability details

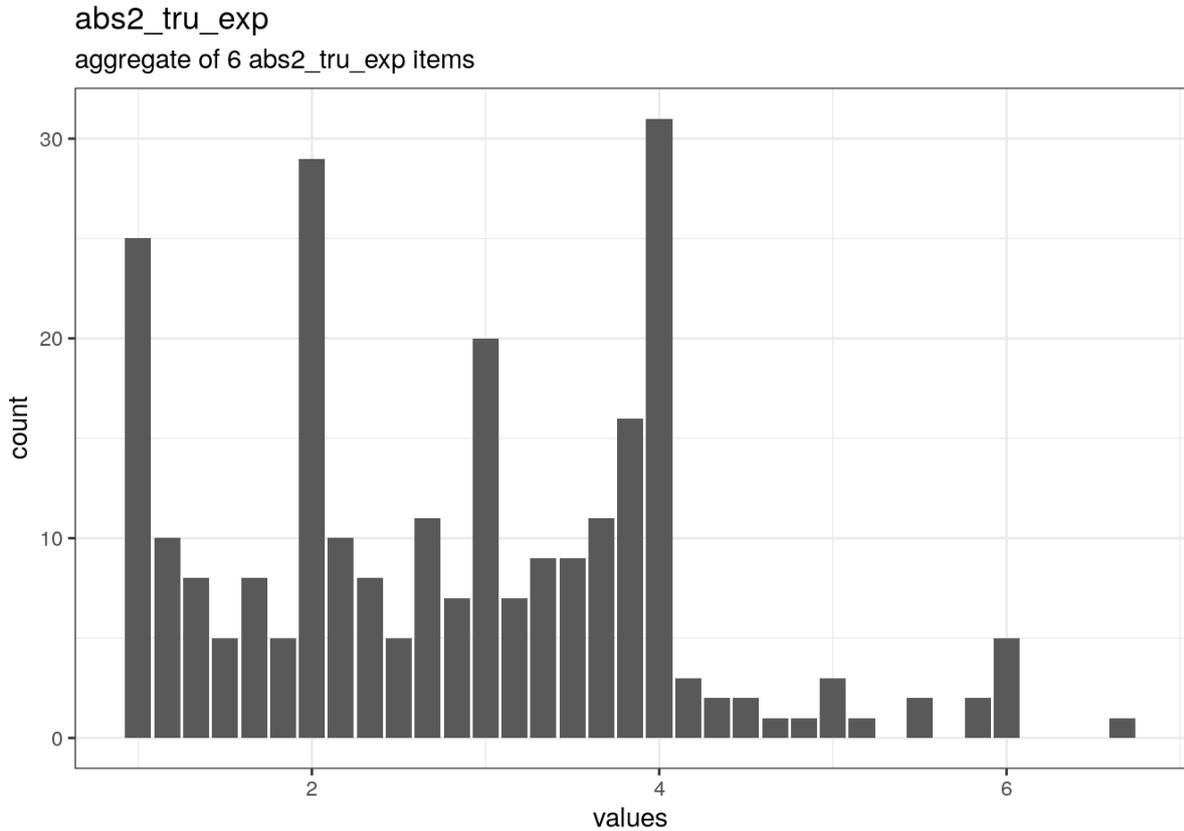
3.0.15.3 Summary statistics

Reliability: ω_{ordinal} [95% CI] = 0.96 [0.95;0.97].

Missing: 0.



Likert plot of scale abs2_tru_exp items



Distribution of scale abs2_tru_exp

3.0.16 Scale: abs2_tru_int

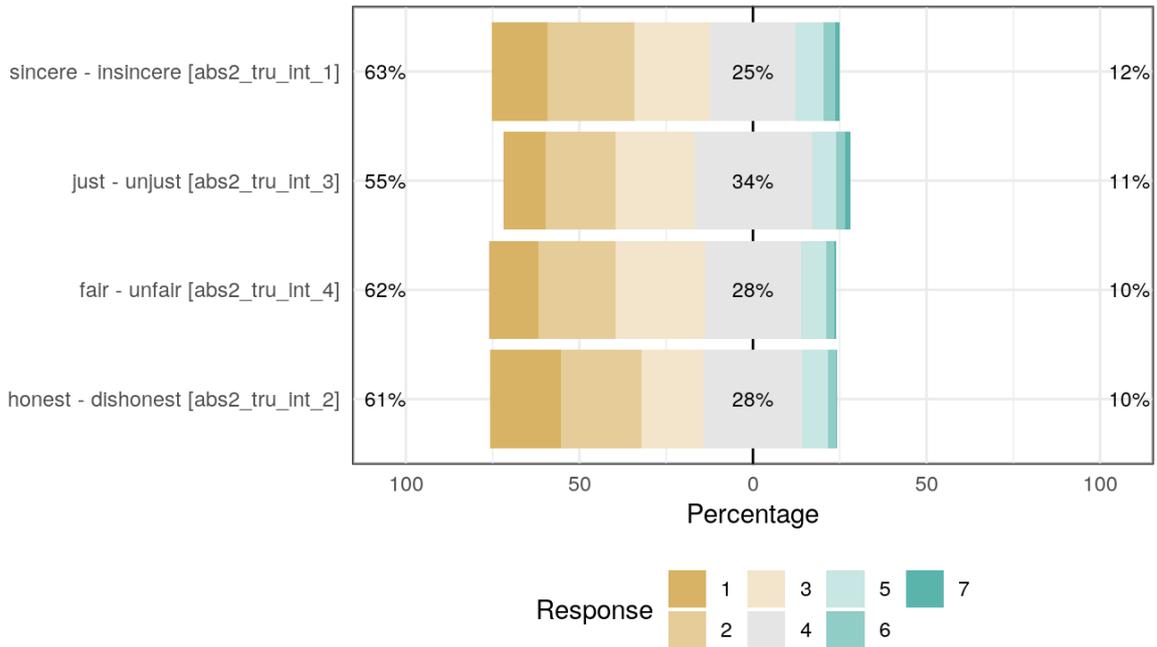
3.0.16.1 Overview

3.0.16.2 Reliability details

3.0.16.3 Summary statistics

Reliability: ω_{ordinal} [95% CI] = 0.92 [0.9;0.94].

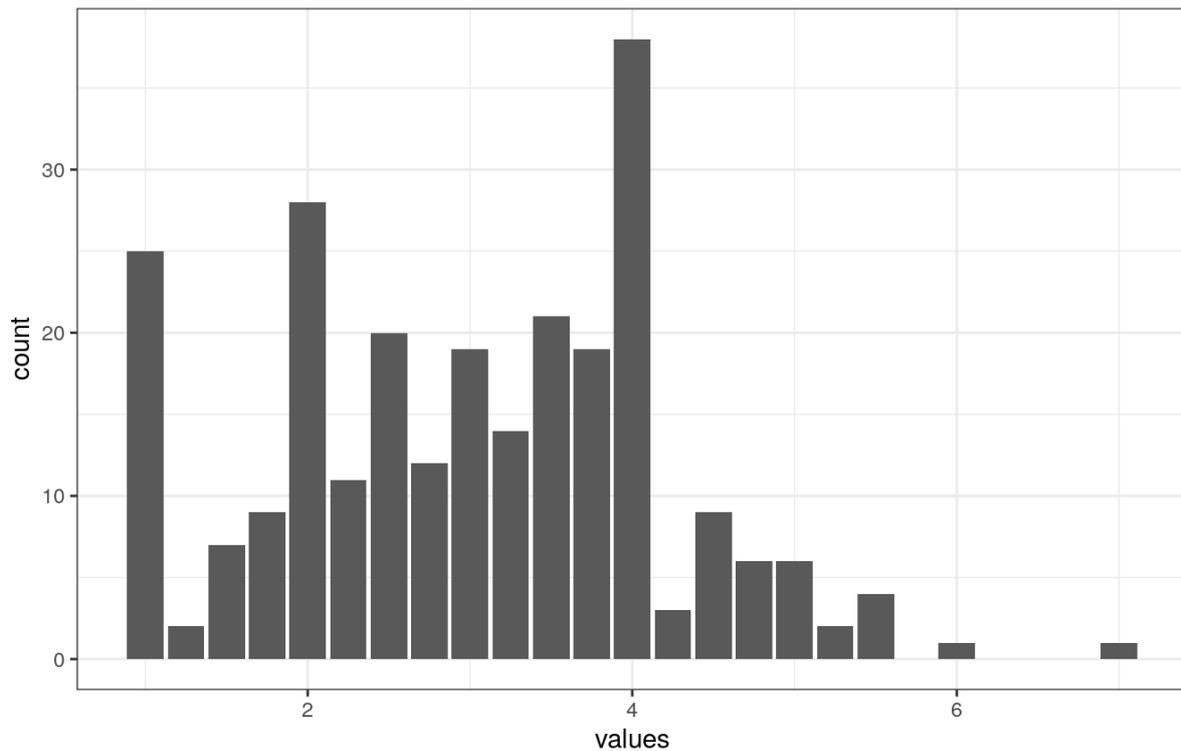
Missing: 0.



Likert plot of scale abs2_tru_int items

abs2_tru_int

aggregate of 4 abs2_tru_int items

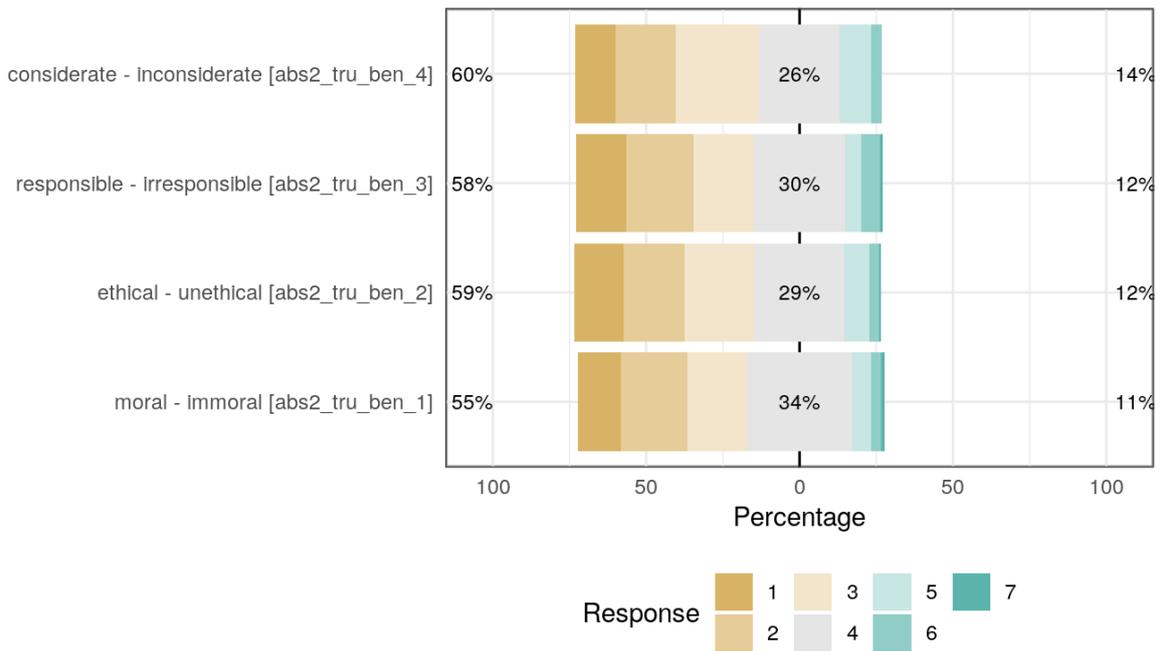


Distribution of scale abs2_tru_int

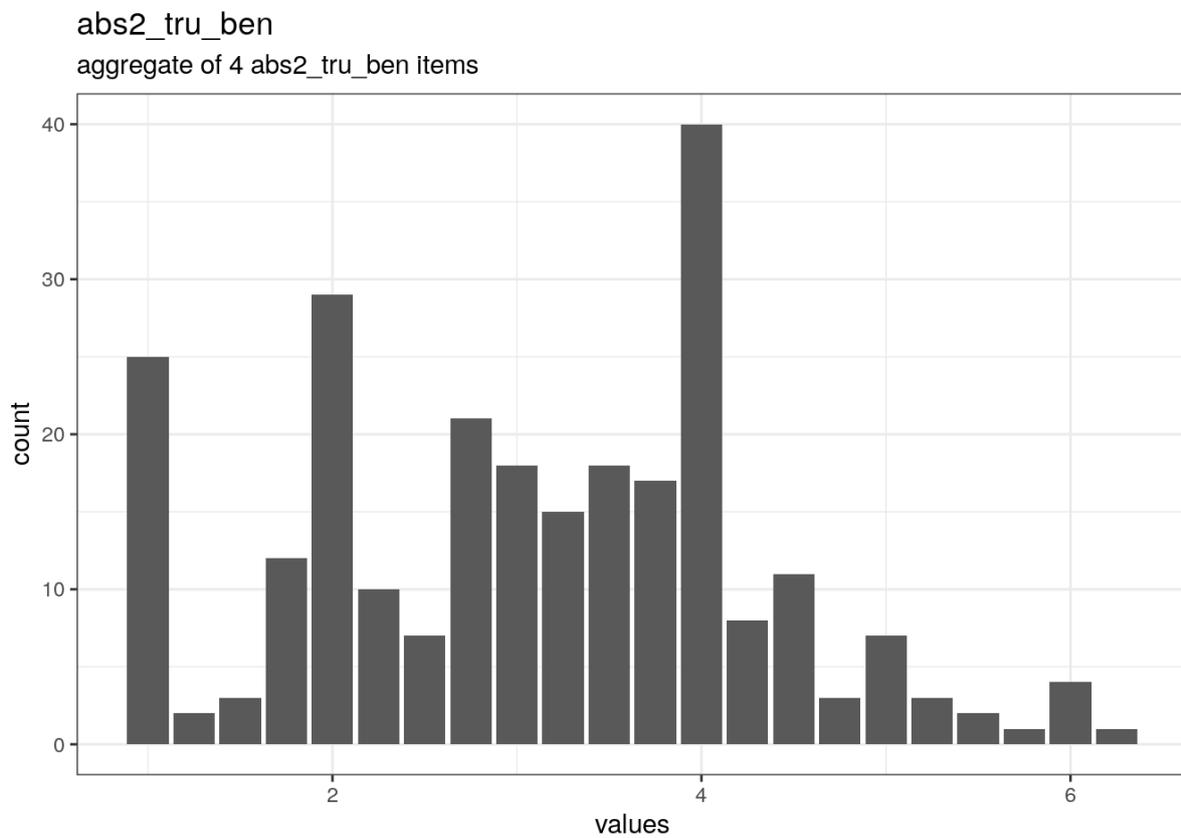
3.0.17 Scale: abs2_tru_ben

Reliability: ω_{total} [95% CI] = 0.91 [not computed].

Missing: 0.



Likert plot of scale abs2_tru_ben items

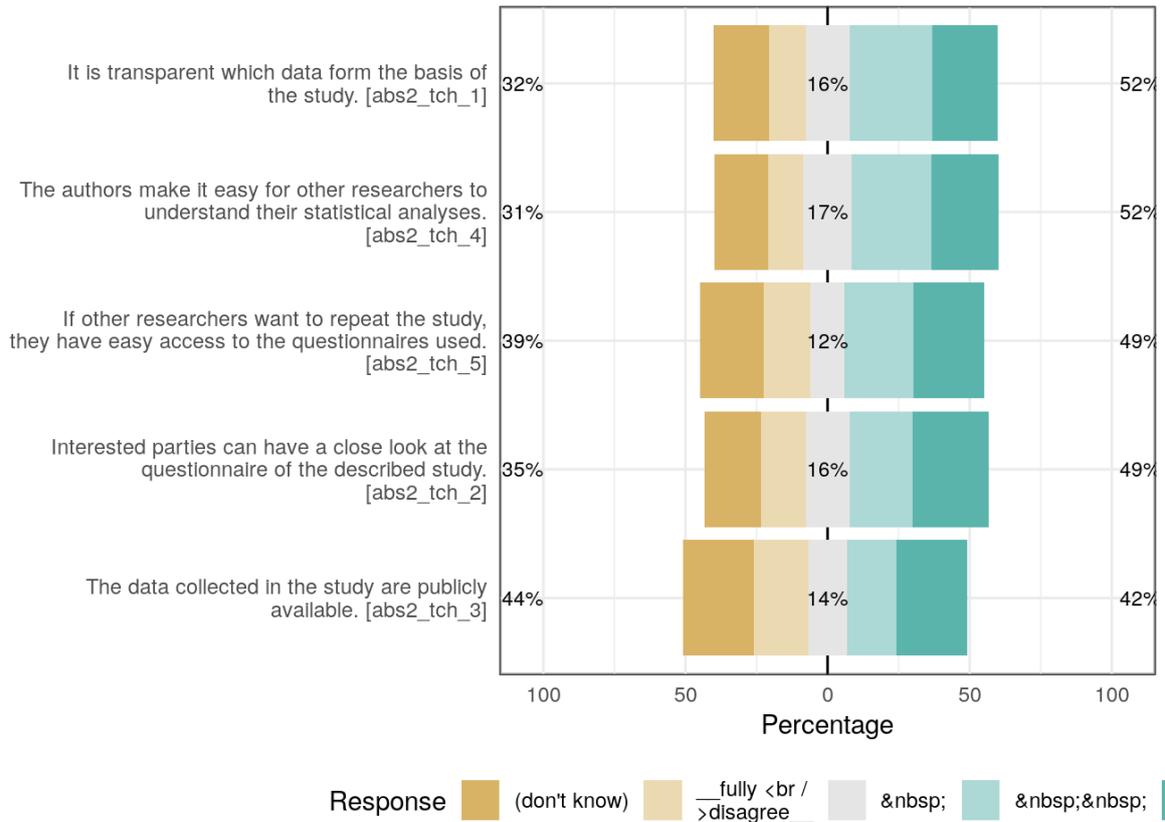


Distribution of scale abs2_tru_ben

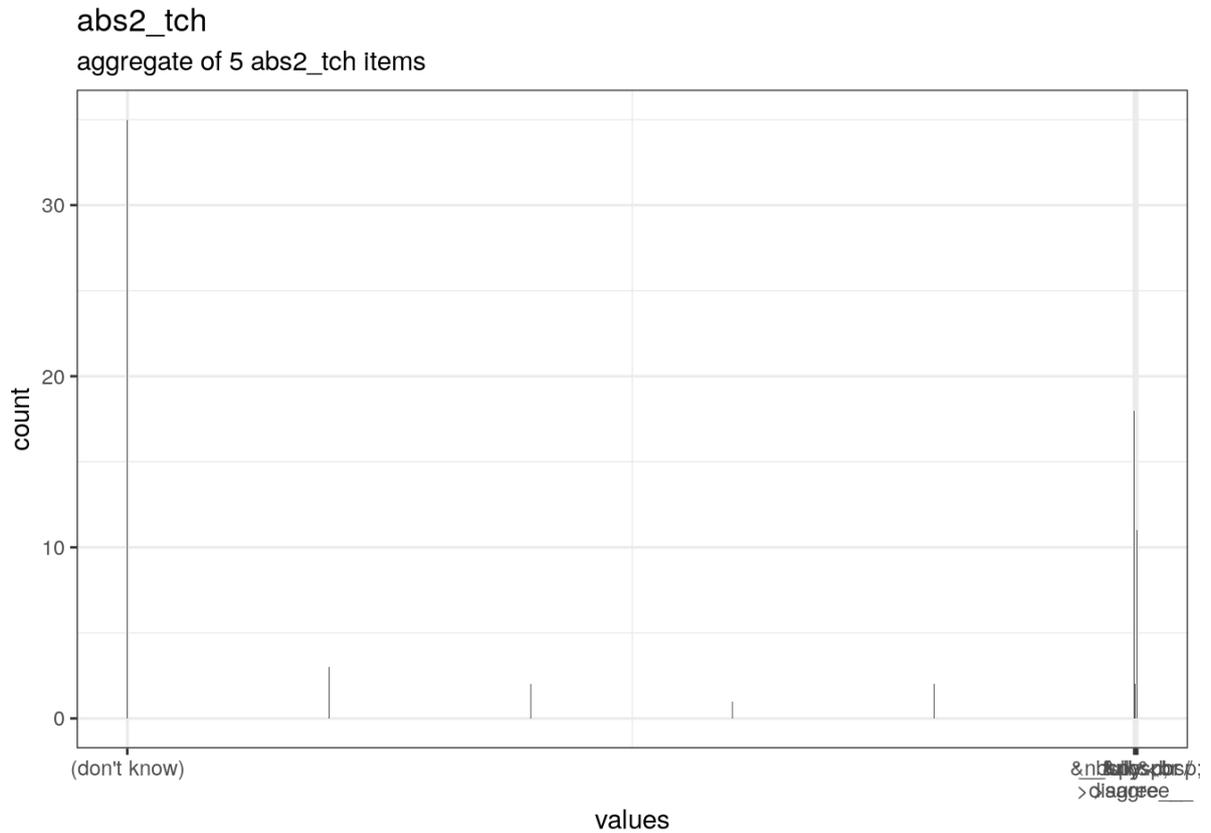
3.0.18 Scale: abs2_tch

Reliability: ω_{total} [95% CI] = 0.94 [0.92;0.95].

Missing: 0.



Likert plot of scale abs2_tch items

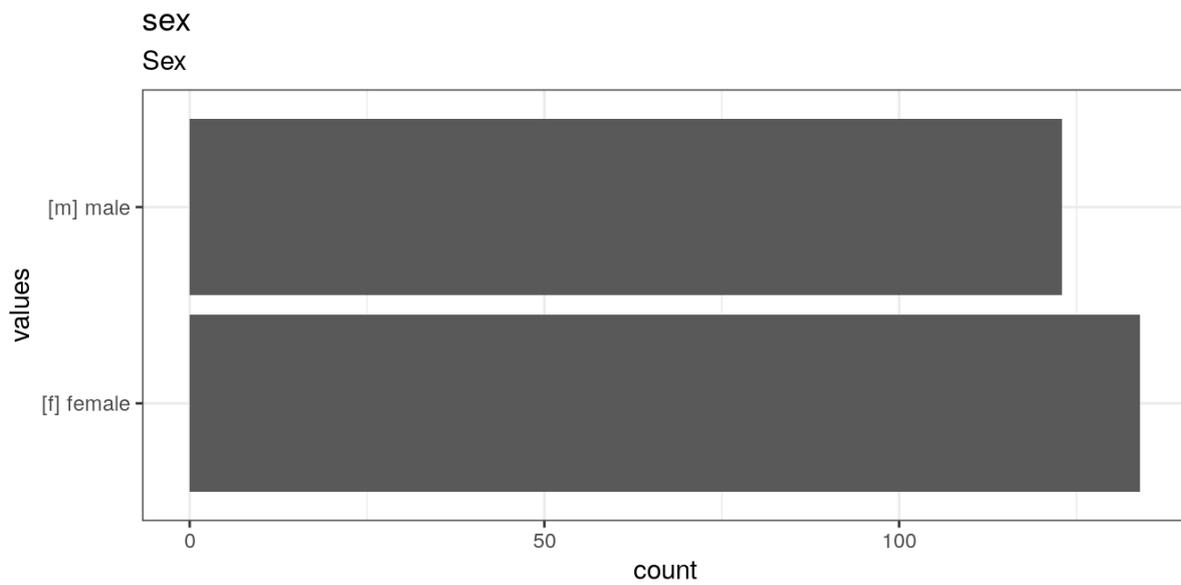


3.0.20.1 Distribution

3.0.20.2 Summary statistics

3.0.20.3 Item

3.0.20.4 Value labels



Distribution of values for sex

0 missing values.

3.0.21 age

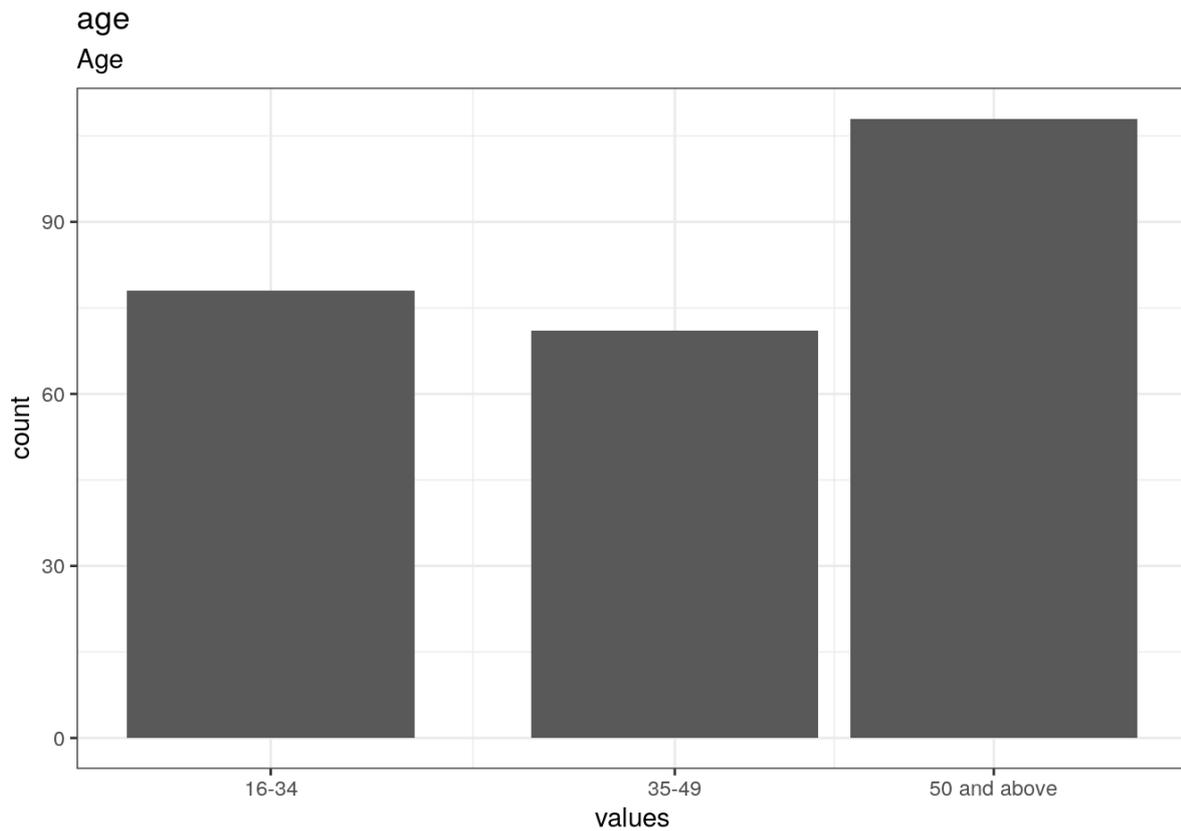
Age

3.0.21.1 Distribution

3.0.21.2 Summary statistics

3.0.21.3 Item

3.0.21.4 Value labels



Distribution of values for age

0 missing values.

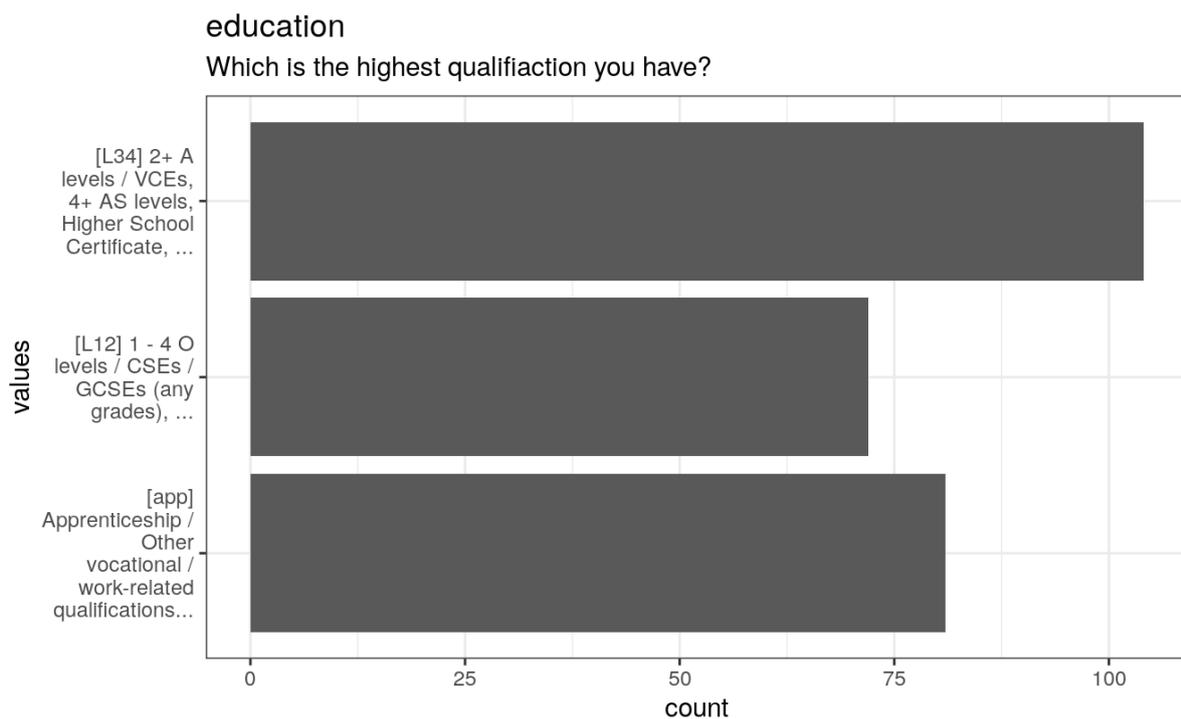
3.0.22 education

Which is the highest qualification you have?

3.0.22.1 Distribution

3.0.22.2 Summary statistics

3.0.22.3 Value labels



Distribution of values for education

0 missing values.

3.1 Missingness report

description	country_oth	var_miss	n_miss
<chr>	<dbl>	<dbl>	<dbl>
Missing values in 1 variables	0	1	256
Missing values per variable	256	256	256
1 other, less frequent patterns	1	0	1

3 rows

3.2 Codebook table

Copy CSV Excel PDF Print

Search:

name	label	type	type_options	data_type	value_
A	A		Al	A	A

treat1 First treatment condition, the participant was assigned to.

haven_labelled gb. Grey badges (adheren Open Sc standarc cc. Cont Conditic badges), cb. Colo badges (adherei Open Sc standarc

name	label	type	type_options	data_type	value_
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<u>abs1_tsm_3</u>	The opposite of the knowledge formulated in the text would be equally right/wrong.	mc		haven_labelled	1. <input type="radio"/> fully 2. <input type="radio"/> disagree 3. <input type="radio"/> 4. <input type="radio"/> fully agree NA. Item never rendered to this user
<u>abs1_tsm_4</u>	The knowledge formulated in the text cannot claim validity for other situations.	mc		haven_labelled	1. <input type="radio"/> fully 2. <input type="radio"/> disagree 3. <input type="radio"/> 4. <input type="radio"/> fully agree NA. Item never rendered to this user
<u>abs1_tsc_1</u>	The statements of the just-read text are consistent with my personal opinion on the subject.	mc		haven_labelled	1. <input type="radio"/> fully 2. <input type="radio"/> disagree 3. <input type="radio"/> 4. <input type="radio"/> fully agree NA. Item never rendered to this user

name	label	type	type_options	data_type	value_
<u>abs1_tru_exp_3</u>	well educated - poorly educated			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7
<u>abs1_tru_exp_4</u>	professional - unprofessional			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7
<u>abs1_tru_exp_5</u>	experienced - inexperienced			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7
<u>abs1_tru_exp_6</u>	qualified - unqualified			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7
<u>abs1_tru_int_1</u>	sincere - insincere			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7

name	label	type	type_options	data_type	value_
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<u>abs1_tru_int_2</u>	honest - dishonest			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7
<u>abs1_tru_int_3</u>	just - unjust			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7
<u>abs1_tru_int_4</u>	fair - unfair			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7
<u>abs1_tru_ben_1</u>	moral - immoral			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7
<u>abs1_tru_ben_2</u>	ethical - unethical			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7

name	label	type	type_options	data_type	value_label
<u>abs1_tch_2</u>	Interested parties can have a close look at the questionnaire of the described study.	mc		haven_labelled	1. <input type="radio"/> fully agree 2. <input type="radio"/> disagree 3. <input type="radio"/> neither agree nor disagree 4. <input type="radio"/> don't know
<u>abs1_tch_3</u>	The data collected in the study are publicly available.	mc		haven_labelled	1. <input type="radio"/> fully agree 2. <input type="radio"/> disagree 3. <input type="radio"/> neither agree nor disagree 4. <input type="radio"/> don't know
<u>abs1_tch_4</u>	The authors make it easy for other researchers to understand their statistical analyses.	mc		haven_labelled	1. <input type="radio"/> fully agree 2. <input type="radio"/> disagree 3. <input type="radio"/> neither agree nor disagree 4. <input type="radio"/> don't know

name	label	type	type_options	data_type	value_
<u>abs2_tru_exp_3</u>	well educated - poorly educated			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7
<u>abs2_tru_exp_4</u>	professional - unprofessional			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7
<u>abs2_tru_exp_5</u>	experienced - inexperienced			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7
<u>abs2_tru_exp_6</u>	qualified - unqualified			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7
<u>abs2_tru_int_1</u>	sincere - insincere			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7

name	label	type	type_options	data_type	value_
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<u>abs2_tru_int_2</u>	honest - dishonest			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7
<u>abs2_tru_int_3</u>	just - unjust			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7
<u>abs2_tru_int_4</u>	fair - unfair			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7
<u>abs2_tru_ben_1</u>	moral - immoral			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7
<u>abs2_tru_ben_2</u>	ethical - unethical			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7

name	label	type	type_options	data_type	value_
<u>abs2_tru_ben_3</u>	responsible - irresponsible			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7
<u>abs2_tru_ben_4</u>	considerate - inconsiderate			haven_labelled	1. 1, 2. 2, 3. 3, 4. 4, 5. 5, 6. 6, 7. 7
<u>abs2_tch_1</u>	It is transparent which data form the basis of the study.	mc		haven_labelled	1. _fully >disagr 2. ¶ 3. ¶ 4. _fully >agree. -999. (d know), NA. Item never rende this user

name	label	type	type_options	data_type	value_1
<u>abs2_tch_5</u>	If other researchers want to repeat the study, they have easy access to the questionnaires used.	mc		haven_labelled	1. <input type="radio"/> fully 2. <input type="radio"/> disagree 3. <input type="radio"/> neither agree nor disagree 4. <input type="radio"/> fully agree
<u>tsm_1</u>	The explanations (grey text boxes) were helpful for understanding the badges ("Open Materials", "Open Data", "Open Code").	mc		haven_labelled	1. <input type="radio"/> fully 2. <input type="radio"/> disagree 3. <input type="radio"/> neither agree nor disagree 4. <input type="radio"/> fully agree
<u>tsm_2</u>	I read all additional explanations (grey text boxes) on the front pages.	mc		haven_labelled	1. <input type="radio"/> fully 2. <input type="radio"/> disagree 3. <input type="radio"/> neither agree nor disagree 4. <input type="radio"/> fully agree

name	label	type	type_options	data_type	value_
<u>abs1_tru_ben</u>	aggregate of 4 abs1_tru_ben items			numeric	
<u>abs1_tch</u>	aggregate of 5 abs1_tch items			numeric	
<u>abs2_tsm</u>	aggregate of 4 abs2_tsm items			numeric	
<u>abs2_tsc</u>	aggregate of 3 abs2_tsc items			numeric	
<u>abs2_tru_exp</u>	aggregate of 6 abs2_tru_exp items			numeric	
<u>abs2_tru_int</u>	aggregate of 4 abs2_tru_int items			numeric	
<u>abs2_tru_ben</u>	aggregate of 4 abs2_tru_ben items			numeric	
<u>abs2_tch</u>	aggregate of 5 abs2_tch items			numeric	

name	label	type	type_options	data_type	value_
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<u>tsm</u>	aggregate of 3 tsm items			numeric	
<u>sex</u>	Sex	mc_button		haven_labelled	f. female m. male
<u>age</u>	Age	mc_button		haven_labelled	16. 16-3 35. 35-4 50. 50 a above
<u>education</u>	Which is the highest qualifiaction you have?			haven_labelled	L12. 1 - levels / C GCSEs (grades), L34. 2+ , levels / \ 4+ AS le Higher S Certifica app. Apprent / Other vocation work-re qualifica

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