# Variablen-Übersicht

### Fragebogen-Interne Daten

Im Datensatz finden Sie neben Ihren Fragen folgende zusätzliche Variablen, sofern Sie die entsprechende Option beim Herunterladen des Datensatzes nicht deaktivieren.

**CASE** Fortlaufende Nummer der Versuchsperson

REF Referenz, falls solch eine im Link zum Fragebogen übergeben wurde

LASTPAGE Nummer der Seite im Fragebogen, die zuletzt bearbeitet und abgeschickt wurde

QUESTNNR Kennung des Fragebogens, der bearbeitet wurde

MODE Information, ob der Fragebogen im Pretest oder durch einen Projektmitarbeiter gestartet wurde

STARTED Zeitpunkt, zu dem der Teilnehmer den Fragebogen aufgerufen hat

FINISHED Information, ob der Fragebogen bis zur letzten Seite ausgefüllt wurde

TIME\_001... Zeit, die ein Teilnehmer auf einer Fragebogen-Seite verbracht hat

Bitte beachten Sie, dass Sie die Fragebogen-internen Variablen nicht mit der Funktion value() auslesen können. Für Interview-Nummer und Referenz stehen aber die PHP-Funktionen III PHP-Funktion caseNumber() und III PHP-Funktion reference() zur Verfügung.

Details über die zusätzlichen Variablen stehen in der Anleitung: 🖺 Zusätzliche Variablen in der Datenausgabe

#### Section ID: Funktionsbausteine

[ID01] In Text Input

ID

"Bitte geben Sie die ProbandenID ein"

**ID01\_01** [01]

Free text

[ID06] Dropdown Selection

Daten zurückziehen

"At this point you have the opportunity to withdraw your consent to the storage of your data. If you explicit..."

#### ID06 Daten zurückziehen

- 2 = Withdraw data
- -9 = Not answered

[ID10] • Selection

EVS01

### **ID10** EVS01

- 1 = I have read the above, have had sufficient time to make a decision, and agree to participate in the study.
- -9 = Not answered

[ID11] • Selection

EVS02

# **ID11** EVS02

- 1 = I agree that the data of this experiment will be stored and analyzed. This will only be done by project staff and in compliance with data protection regulations.
- -9 = Not answered

[ID12] • Selection

EVS03

### **ID12** EVS03

- 1 = I agree that my data may be used in anonymized and summarized form for the publication of scientific results.
- -9 = Not answered

[ID13] Selection

EVS04

## **ID13** EVS04

- 1 = I agree that the anonymized data may be made available for use by other researchers as part of scientific quality assurance.
- -9 = Not answered

# Section SD: Soziodemografie

[SD01] • Selection

Geschlecht

"I am..."

## SD01 Geschlecht

- 1 = female
- 2 = male
- 3 = other namely
- -9 = Not answered

#### SD01\_03 other namely

Free text

[SD02] • Text Input

Alter

"How old are you?"

#### **SD02\_01** [01]

Free text

[SD06] • Multiple Choice

Sprachen

"I speak the following languages"

SD06 Sprachen: Residual option (negative) or number of selected options

Intege

SD06\_01 German

SD06\_02 English

SD06\_03 Spanish

SD06\_04 others namely

- 1 = Not checked
- 2 = Checked

SD06\_04a others namely (free text)

Free text

[SD03] Selection

Händigkeit

"I am..."

# SD03 Händigkeit

- 1 = left handed
- 2 = right handed
- 3 = do not know exactly
- -9 = Not answered

[SD04] Selection

Bildungsabschluss

"My highest educational achievement is..."

# SD04 Bildungsabschluss

- 1 = none
- 2 = Elementary/Primary School
- 3 = Secondary School
- 4 = High School
- 5 = Bachelor
- 6 = Master
- 7 = PhD
- 8 = other namely:
- -9 = Not answered

# SD04 08 other namely

Free text

### [SD05] Text Input

Studienfach

"My field of study is..."

### SD05\_01 [01]

Free text

### [SD07] Text Input

Abitursnote

"What was your high school graduation average?"

# SD07\_01 [01]

Free text

# [SD08] Selection

Vorerfahrung VR

"Have you ever used Virtual Reality before this experiment?"

## SD08 Vorerfahrung VR

- 1 = No, never.
- 2 = Yes, once.
- 3 = Yes, more than once.
- 4 = Yes, several times already.
- 5 = Yes, regularly.
- -9 = Not answered

# [SD09] Selection

Mentale Rotationserfahrung

"Have you ever participated in a mental rotation experiment?"

# **SD09** Mentale Rotationserfahrung

- 1 = No, never.
- 2 = Yes, more than half a year ago.
- 3 = Yes, less than half a year ago.
- 4 = I don't know.
- -9 = Not answered

# [SD10] Text Input

Mathenote

"What grade in math did you have on your last final exam."

## SD10\_01 [01]

Free text

#### [SD11] Selection

Sehilfe

"I'm wearing a visual aid?"

#### SD11 Sehilfe

- 1 = no
- 2 = glasses
- 3 = contact lenses
- -9 = Not answered

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"My eye color is..."

SD12 Augenfarbe: Residual option (negative) or number of selected options

Integer

SD12\_01 brown

**SD12\_02** blue

**SD12\_03** green

SD12\_04 I don't know

1 = Not checked

2 = Checked

# Section MU: Motivation und Anstrengungsbereitschaft

[MU01] • Scale (fully labeled)

Motivation

"Why are you participating in this experiment in particular?"

MU01\_01 Because I think this experiment is interesting.

MU01\_02 Because I do it for my own good.

MU01 03 Because I should.

MU01\_04 There may be good reasons to participate in this experiment, but I personally don't see any.

MU01\_05 Because I think that this experiment is pleasant.

MU01\_06 Because I think this experiment is good for me.

MU01\_07 Because it's something I have to do.

MU01\_08 I'm participating in this experiment, but I don't know if it's worth it.

MU01 09 Because this experiment might be fun.

MU01\_10 By my own decision.

MU01\_11 Because I have no choice.

MU01\_12 I don't know; I don't see what I get out of participating in this experiment.

MU01\_13 Because I feel good when I participate in this experiment.

MU01\_14 Because I believe that this experiment is important for me.

MU01\_15 Because I feel that I have to do it.

**MU01\_16** I am participating in this experiment, but I am not sure if it is a good thing to participate in this.

1 = Does not apply at all

2 = Applies very little

3 = Applies a little

4 = Somewhat true

5 = Applies sufficiently

6 = Strongly applies 7 = Completly applies

-9 = Not answered

[MU02] Scale (fully labeled)

Anstrengungsbereitschaft

"What are you like when it comes to your studies and learning in general?"

MU02\_01 I really try hard in my studies because only then can I be satisfied with myself.

MU02\_02 I put a lot of effort into my studies because I am very interested in the content.

MU02\_03 In my studies, I try hard because I'm worried if I don't do it.

MU02 04 I make an effort because I want to acquire the knowledge and skills.

MU02\_05 I invest a lot of time and effort in my studies because that's what others expect of me.

MU02\_06 I invest a lot of time and effort because things are important to me personally.

MU02\_07 I do my best in my studies because I will need it later.

MU02\_08 I do my best because I want to understand the content really well.

1 = not true at all

2 = rather not true

3 = rather true

4 = exactly true

-9 = Not answered

### Section PS: Persönlichkeit

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[PS06] Scale (fully labeled)

Big Five Inventory 1

"Here are a number of characteristics that may or may not apply to you. For example, do you agree that you ar..."

PS06\_01 Is outgoing, sociable.

**PS06\_02** Is compassionate, has a soft heart.

PS06\_03 Tends to be disorganized.

PS06\_04 Is relaxed, handles stress well.

PS06\_05 Has few artistic interests.

PS06\_06 Has an assertive personality.

PS06\_07 Is respectful, treats others with respect.

PS06\_08 Tends to be lazy.

PS06\_09 Stays optimistic after experiencing a setback.

**PS06\_10** Is curious about many different things.

PS06\_11 Rarely feels excited or eager.

PS06\_12 Tends to find fault with others.

PS06\_13 Is dependable, steady.

PS06\_14 Is moody, has up and down mood swings.

**PS06 15** Is inventive, finds clever ways to do things.

**PS06\_16** Tends to be quiet.

PS06\_17 Feels little sympathy for others.

PS06\_18 Is systematic, likes to keep things in order.

PS06\_19 Can be tense.

PS06\_20 Is fascinated by art, music, or literature.

- 1 = Disagree strongly
- 2 = Disagree a little
- 3 = Neutral; no opinion
- 4 = Agree a little
- 5 = Agree strongly
- -9 = Not answered

### [PS07] Scale (fully labeled)

Big Five Inventory 2

- PS07\_01 Is dominant, acts as a leader.
- PS07\_02 Starts arguments with others.
- PS07 03 Has difficulty getting started on tasks.
- PS07\_04 Feels secure, comfortable with self.
- PS07\_05 Avoids intellectual, philosophical discussions.
- PS07\_06 Is less active than other people.
- PS07\_07 Has a forgiving nature.
- PS07 08 Can be somewhat careless.
- **PS07\_09** Is emotionally stable, not easily upset.
- PS07\_10 Has little creativity.
- **PS07\_11** Is sometimes shy, introverted.
- PS07\_12 Is helpful and unselfish with others.
- PS07\_13 Keeps things neat and tidy.
- PS07\_14 Worries a lot.
- PS07\_15 Values art and beauty.
- PS07\_16 Finds it hard to influence people.
- PS07\_17 Is sometimes rude to others.
- PS07 18 Is efficient, gets things done.
- PS07 19 Often feels sad.
- PS07\_20 Is complex, a deep thinker.
  - 1 = Disagree strongly
  - 2 = Disagree a little
  - 3 = Neutral; no opinion
  - 4 = Agree a little
  - 5 = Agree strongly
  - -9 = Not answered

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[PS08] Scale (fully labeled)
Big Five Inventory 3
PS08_01 Is full of energy.
PS08 02 Is suspicious of others' intentions.
PS08_03 Is reliable, can always be counted on.
PS08_04 Keeps their emotions under control.
PS08_05 Has difficulty imagining things.
PS08_06 Is talkative.
PS08_07 Can be cold and uncaring.
PS08_08 Leaves a mess, doesn't clean up.
PS08_09 Rarely feels anxious or afraid.
PS08_10 Thinks poetry and plays are boring.
PS08_11 Prefers to have others take charge.
PS08_12 Is polite, courteous to others.
PS08_13 Is persistent, works until the task is finished.
PS08 14 Tends to feel depressed, blue.
PS08_15 Has little interest in abstract ideas.
PS08_16 Shows a lot of enthusiasm.
PS08 17 Assumes the best about people.
PS08_18 Sometimes behaves irresponsibly.
PS08_19 Is temperamental, gets emotional easily.
PS08_20 Is original, comes up with new ideas.
  1 = Disagree strongly
  2 = Disagree a little
  3 = Neutral; no opinion
  4 = Agree a little
  5 = Agree strongly
  -9 = Not answered
```

### Section MC: Mentale Anstrengung und Cognitive Load

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[MC01] Scale (fully labeled)
Anstrengung
"Please select as appropriate as possible."

MC01_01 How focused were you on the tasks?
MC01_02 How carefully did you work on the tasks in the test?
MC01_03 How much effort did you put into the tasks?

MC01_04 Were you distracted while completing the tasks?

1 = not / none at all
2 = less
3 = more
4 = very much
-9 = Not answered
```

## [MC02] Scale (fully labeled)

Cognitive Load

"In solving the preceding mental rotation tasks I invested..."

# MC02\_01 [No Description] 01

- 1 = very, very low mental effort
- 2 = very low mental effort
- 3 = low mental effort
- 4 = rather low mental effort
- 5 = neither low or high mental effort
- 6 = rather high mental effort
- 7 = high mental effort
- 8 = very high mental effort
- 9 = very, very high mental effort
- -9 = Not answered

#### **Section IN: Interesse**

[IN01] Scale (fully labeled)

Interesse

"What is your current attitude towards the past experiment?"

IN01\_01 The topic of the experiment is exciting.

IN01\_02 The content of the experiment is interesting.

IN01\_03 Studying the topic of the experiment was fun.

IN01\_04 I like the topic of the experiment.

- 1 = not true at all
- 2 = rather not true
- 3 = rather true
- 4 = absolutely true
- -9 = Not answered

# Section ST: Strategien

[ST01] Is Slider

Strategien

"You have solved a total of 60 tasks. We would now be interested to know how you proceeded. In the following,..."

**ST01\_01** I rotated the whole figure in my head until it matched the other one.

ST01\_02 I nested the two figures to see if they were equal or unequal.

ST01 03 I fixed a certain part of one figure and looked for the same piece in the other figure.

**ST01\_04** I could tell at a glance whether the figures were equal or unequal.

ST01\_05 I first counted the number of cubes per section to see if the figures were unequal.

**ST01\_06** I walked along the figures with my eyes and compared the directions of each part between the figures.

\$T01\_07 I looked for two equal parts in both figures and then rotated one figure along that axis.

\$T01\_08 I memorized one figure first and then looked at the other.

ST01\_09 I went through the two figures piece by piece and compared the pieces in each case.

ST01\_10 I guessed.

1 = 0

13 = 60

-9 = Not answered

ST01\_11 Other procedure... (reversed)

13 = 0

1 = 60

-9 = Not answered

[ST02] Text Input

Andere

"What other strategies have you used?"

ST02\_01 [01]

Free text