Abstract

The key characteristics of panel studies include repeated measures for a more or less stable sample over time. The core challenge in documenting panel studies is the documentation of these repeated measures (usually questions) and the resulting variables because various reasons can require modifications of measures over time—resulting in comparable but not identical data structures.

The DDI standard provides not one but multiple options for the documentation of panel data. In this workshop we like to present various options and discuss their feasibility for common use cases. The German Socio-Economic Panel (SOEP) will provide the primary use case, but participants are also invited to introduce and discuss their own use cases.

The workshop starts with a short introduction of both panel studies and the DDI standard. Therefore, no previous knowledge of the DDI standard is required to participate in the workshop. The goal for the workshop is to gain a deeper understanding of possible documentation strategies for panel studies.
Agenda

1. Introduction
2. Metadata basics
3. Linking data
4. Questionnaire documentation
   --- break ---
5. Working session
6. Implementation and design choices
7. Use case: SOEP
8. Wrap up
Introduction
Introduction

- What is today's topic?
- Course instructors
- Participants

- What are the specific challenges of documenting a panel study?
- Participants: what are your challenges?
I am...

- Name
- Institution
- Background
- Do you actually work with metadata?
- What do you expect from the workshop / would like to learn?
The **German Socio-Economic Panel (SOEP)** is a wide-ranging representative longitudinal study of private households, located at the German Institute for Economic Research, DIW Berlin. Every year, there were nearly 11,000 households, and more than 20,000 persons sampled by the fieldwork organization TNS Infratest Sozialforschung.

The data provide information on all household members, consisting of Germans living in the Old and New German States, Foreigners, and recent Immigrants to Germany. The Panel was started in 1984.

Some of the many topics include household composition, occupational biographies, employment, earnings, health and satisfaction indicators.

http://www.diw.de/soep
Challenges, specific to panel studies

- Finding repeated measures
- Understanding repeated measures
- Finding the corresponding variables

Advanced:

- Measures change over time
- Finding generated / transformed variables
### A) WIDE FORMAT

<table>
<thead>
<tr>
<th></th>
<th>id</th>
<th>var1a</th>
<th>var2a</th>
<th>var1b</th>
<th>var2b</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>2</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>3</td>
<td>x</td>
<td>x</td>
<td>.</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>4</td>
<td>.</td>
<td>.</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>5</td>
<td>.</td>
<td>.</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

#### wave a

#### wave b

---

### B) LONG FORMAT

<table>
<thead>
<tr>
<th></th>
<th>id</th>
<th>wave</th>
<th>var1</th>
<th>var2</th>
<th>var2a</th>
<th>var2b</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>a</td>
<td>x</td>
<td>(x)</td>
<td>x</td>
<td>.</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>a</td>
<td>x</td>
<td>(x)</td>
<td>x</td>
<td>.</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>a</td>
<td>x</td>
<td>(x)</td>
<td>x</td>
<td>.</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>b</td>
<td>x</td>
<td>x</td>
<td>.</td>
<td>x</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>b</td>
<td>x</td>
<td>x</td>
<td>.</td>
<td>x</td>
</tr>
</tbody>
</table>

#### wave a

#### wave b

---

- x = valid answer
- (x) = harmonized answer in long format
- . = missing value
Metadata basics
<table>
  <width>100</width>
  <height>70</height>
</table>
XML

<table id="2" class="kitchen-table">
   <width unit="cm">100</width>
   <height unit="cm">70</height>
</table>
<table>
<thead>
<tr>
<th>Element 1</th>
<th>Element 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element 1</td>
<td>Element 2</td>
</tr>
</tbody>
</table>
<table id="2" class="kitchen-table">
    <width unit="cm">100</width>
    <height unit="cm">70</height>
</table>

<table>
    <tr>
        <td>Element 1</td>
        <td>Element 2</td>
    </tr>
</table>
XML

```xml
<a:table id="2" class="kitchen-table" xmlns:a="https://...">
  <a:width unit="cm">100</a:width>
  <a:height unit="cm">70</a:height>
</a:table>

<b:table xmlns:b="https://...">
  <b:tr>
    <b:td>Element 1</b:td>
    <b:td>Element 2</b:td>
  </b:tr>
</b:table>
```
DDI Lifecycle
Versions of DDI

DDI Codebook

- Version 1.x (Nesstar)
- Version 2.x

DDI Lifecycle

- Version 3.x
- Version 4.x = Moving Forward (under development)
DDI Codebook tree (incl. DDI Lite)

http://www.ddialliance.org/sites/default/files/ddi-lite.html
Linking data
What do we want to achieve?

Within one panel study:

- Find related variables over time
- Document changes over time

For multiple (panel) studies:

- Find related variables across studies
Linking variables: design options

- Versioning
- Direct links
- Groups
- Concepts
Versioning

- variable1 (v1)
  - variable1 (v2)
  - variable1 (v3)
- variable2 (v1)
  - variable2 (v2)
  - variable2 (v3)
Direct links

variable1a

comparison

variable1b

comparison

variable1c

variable2a

comparison

variable2b

comparison

variable2c
Groups

group1

variable1a
variable1b
variable1c

group2

variable2a
variable2b
variable2c
Concepts

variable1a  variable1b  concept1  variable1c

variable2a  variable2b  concept2  variable2c
Questionnaire documentation
Questionnaire metadata

- Reference material
- Some information is essential (has to be preserved, depends on use case)
- Some information can be ignored (not captured by metadata)
- i18n: multilingual infrastructure (fieldwork and/or documentation)
- Re-use of information (next wave)
(Not) preserved information

Source Material (Paper)

65. Does someone in your household need care or assistance on a constant basis due to age, sickness, or medical treatment?

Yes ................. []

No ................. []

66. Who is it, and which of the following activities does he or she need assistance in?

Please state the person’s first name.
If there is more than one person in need of care in the household, please state the person most in need of care.

Needs assistance with ...
- errands outside the home
- running the household, preparing meals and drinks
- minor care, such as help with getting dressed, washing up, combing hair, shaving
- major care, such as getting in and out of bed, bowel movements

Produced with Metadata

65. Does someone in your household need care or assistance on a constant basis due to age, sickness, or medical treatment?

Yes 1

No 2

65:hpfleg  hpfleg  2 @ 71

66. Who is it, and which of the following activities does he or she need assistance in?

Please state the person’s first name. If there is more than one person in need of care in the household, please state the person most in need of care.

Needs assistance with ...
- errands outside the home
- running the household, preparing meals and drinks
- minor care, such as help with getting dressed, washing up, combing hair, shaving
- major care, such as getting in and out of bed, bowel movements

66:hpnam  hpnam

66:hhil1  hhil1

66:hhil2  hhil2

66:hhil3  hhil3

66:hhil4  hhil4
(Not) preserved information

Source Material (Paper)

68. Who provides this person with the assistance he / she needs?
   - relatives in the household
   - charitable organizations (Caritas, Diakonie, ASB, DRK, AWO, etc.)
   - private care service
   - friends / acquaintances / neighbors
   - relatives outside the household
   - other regular care providers

   Please give the name of the person in the household who provides most of the assistance.

   Is this person paid for providing this assistance?
   Yes ☐ No ☐

69. Besides this person, are there other people in the household who are in need of assistance or care?
   No ☐ Yes ☐ Other person(s) ☐

70. Are there regular expenses for assistance or care of other persons in the household?
   Yes ☐ No ☐

   Other person(s) pays €________ per month

Produced with Metadata >>
Example: What DDIonRails preserves and adds

Preserved:

- Question numbers
- Textual information (question texts, instructions, answers)
- Routing (logical: filter, goto)

Added:

- Values for answers
- Concepts
- Links to variables
- Translations

Not preserved:

- Layout (horizontal/vertical arrangement, text prior/after open ended questions)
- Typography (bold, underlined)
- Graphical information
- Routing (textual)

What information do you want to preserve?
Some notes on routing

- Common default: go to next question
  - No more specification needed
  - Exceptions needed

Two different approaches in instruments:

- Question’s gatekeeper (“filter”)
  - Defines the universe of this particular question
  - Condition which has to be true

- After a question (“goto”)
  - Defines the way to the next question depending on the answer (and perhaps other information)

Which approach is used in your institution?
What are your experiences?

What do data users like, what survey designers – and why?

Which approach is more, which is less parsimonious?

What about visualization?
Will it convert?
Routing in DDI

ControlConstruct:

Extensible structure for control elements used in describing flow logic within the instrument: IfThenElse, RepeatUntil, RepeatWhile, Loop, Sequence, ComputationItem, StatementItem, and QuestionConstruct. (from DDI 3.2 XML Schema Documentation)

Shortcoming:

Some kind of code needed to specify conditions and or calculations, but language not defined within DDI.

- Operators
- References

```xml
<d:IfThenElse>
  <d:IfCondition>
    <r:Code programmingLanguage="Neutral">Counter != 1</r:Code>
  </d:IfCondition>
  <d:ThenConstructReference>
    <r:ID>333ae135-784d-4435-9e54-...</r:ID>
  </d:ThenConstructReference>
</d:IfThenElse>
```

Example: Routing in DDIonRails

- Each item (one item is related to one variable) in a question can have a filter and a goto.
- A filter can have references to one or more (prior) items in the conditions.
- Gotos only evaluate the answer of this item and direct to the appropriate next answer.
- Room for improvement (e.g. loops), but works!

Rules for filter and goto

Filter and goto definitions consist of question names and symbols only, no keywords (e.g. “goto”) are used.

- Symbols: $( ) = < > @ | & : ! <= >=$
- Filter $\text{(AGE > 20) \& (SEX = 1)}$ means: this question is asked if “age” is greater than 20 and “sex” is 1
- Goto $(2 \text{@TARGET})$ means: if the answer to the current question is 2 then go to question “target”
- Refer to items using the colon as a separator, e.g. $(PSOR:2 = 3)$.
- Value lists and ranges: $(x = 1:3)$ is equal to $(x = 1,2,3)$ is equal to $(x = 1) \mid (x = 2) \mid (x = 3)$
Example: Visualise routing

- Flow chart, algorithmic derived from DDIonRails metadata
- Filters displayed
- Gotos parsed
- Layout/rendering by Graphviz

How is filter/goto-approach connected with visualisation?
Make information re-usable and deal with changes

Re-use:

- Means: Combine parts of a question and give them an identificator, which has to be used if the question appears again.
- Tracks permanence.
- Helps to limit amount of information, which has to be managed (entered, translated).
- Makes things more complicated: one more relation.
- Agency needed: assign IDs, ensure integrity, supervise corrections (internal question bank)

Link over time:

- Same methods like those presented for variables
- Comparison seems to be more appropriate

Which parts of a question do you/would you make re-useable?

How many resources do you have to track and describe changes?
Working session
Working session

Go into smaller groups

Questions:

1. What is your use case?
2. How do you manage variables and questions?
3. Are your solutions interoperable?
4. Which of the solutions (regarding variables) would work for you?
Implementation and design choices
Implementation and design choices

- XML vs CSV vs other formats
- Relational databases
- Do you have software developers
- Who is managing your metadata
- How many studies / collaboration
- Git
Use case: SOEP
<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>203</td>
<td>soep-core</td>
<td>soep-core-2014-hh</td>
<td>64</td>
<td>hnahc2</td>
<td>How often do you norr64:hnahc1=1</td>
<td>hnahc2</td>
<td>cat</td>
<td>Wie häufig besuchen?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>204</td>
<td>soep-core</td>
<td>soep-core-2014-hh</td>
<td>65</td>
<td>hpfleg</td>
<td>Does someone in your household?@ 71</td>
<td>hpfleg</td>
<td>cat</td>
<td>Gibt es in Ihrem Haus?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>205</td>
<td>soep-core</td>
<td>soep-core-2014-hh</td>
<td>66</td>
<td>whoisit</td>
<td>Who is it? Please sta65:hpfleg=1</td>
<td>whoisit</td>
<td>chr</td>
<td>Welche Pflege? Vom?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>206</td>
<td>soep-core</td>
<td>soep-core-2014-hh</td>
<td>66</td>
<td>hpnam</td>
<td>person in need of care first name</td>
<td>hpnam</td>
<td>chr</td>
<td>Hilfebedürftige Person</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>207</td>
<td>soep-core</td>
<td>soep-core-2014-hh</td>
<td>66</td>
<td>2</td>
<td>Needs assistance with 66:hpnam=1</td>
<td>2</td>
<td>txt</td>
<td>Braucht Hilfe bei ...</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>208</td>
<td>soep-core</td>
<td>soep-core-2014-hh</td>
<td>66</td>
<td>hhi1</td>
<td>errands outside the home</td>
<td>hhi1</td>
<td>bin</td>
<td>Besorgungen und Erle</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>209</td>
<td>soep-core</td>
<td>soep-core-2014-hh</td>
<td>66</td>
<td>hhi2</td>
<td>running the household, preparing meals and drinks</td>
<td>hhi2</td>
<td>bin</td>
<td>Haushaltsführung, Verz</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>210</td>
<td>soep-core</td>
<td>soep-core-2014-hh</td>
<td>66</td>
<td>hhi3</td>
<td>washing up, combing hair, shaving</td>
<td>hhi3</td>
<td>bin</td>
<td>einfacher Pflegetätigke</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>211</td>
<td>soep-core</td>
<td>soep-core-2014-hh</td>
<td>66</td>
<td>hhi4</td>
<td>bowel movements</td>
<td>hhi4</td>
<td>bin</td>
<td>schwierigeren Pflegetätigke</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>212</td>
<td>soep-core</td>
<td>soep-core-2014-hh</td>
<td>67</td>
<td>hpl</td>
<td>Does the person in need of care receive long hpl cat</td>
<td>hpl</td>
<td>cat</td>
<td>Erhält die hilfebedürft</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>214</td>
<td>soep-core</td>
<td>soep-core-2014-hh</td>
<td>68</td>
<td>hhvon</td>
<td>Who provides this person with the assistance he/she</td>
<td>hhvon</td>
<td>bin</td>
<td>Angehörigen im Haush</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>215</td>
<td>soep-core</td>
<td>soep-core-2014-hh</td>
<td>68</td>
<td>hhvon7</td>
<td>relatives in the household</td>
<td>hhvon7</td>
<td>bin</td>
<td>Angehörigen im Haush</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>216</td>
<td>soep-core</td>
<td>soep-core-2014-hh</td>
<td>68</td>
<td>hhvon8</td>
<td>Diakonie, ASB, DRK, AWO, etc.</td>
<td>hhvon8</td>
<td>bin</td>
<td>Wohlfahrtsverbände (2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>217</td>
<td>soep-core</td>
<td>soep-core-2014-hh</td>
<td>68</td>
<td>hhvon9</td>
<td>private care service</td>
<td>hhvon9</td>
<td>bin</td>
<td>privatem Pflegedienst</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>218</td>
<td>soep-core</td>
<td>soep-core-2014-hh</td>
<td>68</td>
<td>hhvon10</td>
<td>friends / acquaintances / neighbors</td>
<td>hhvon10</td>
<td>bin</td>
<td>Freunden / Bekannt</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>219</td>
<td>soep-core</td>
<td>soep-core-2014-hh</td>
<td>68</td>
<td>hhvon11</td>
<td>relatives outside the household</td>
<td>hhvon11</td>
<td>bin</td>
<td>Angehörigen außerhalb</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>220</td>
<td>soep-core</td>
<td>soep-core-2014-hh</td>
<td>68</td>
<td>hhvon12</td>
<td>other regular care providers</td>
<td>hhvon12</td>
<td>bin</td>
<td>sonstige regelmäßige</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Screenshot: Questionnaire in LibreOffice Calc with two new buttons
### Screenshots: Git Bash and Gitlab

<table>
<thead>
<tr>
<th>File Name</th>
<th>Last Update</th>
<th>Last Updated By</th>
</tr>
</thead>
<tbody>
<tr>
<td>answers.csv</td>
<td>4 months ago</td>
<td>Knut Wenzig übersetzte</td>
</tr>
<tr>
<td>generations.csv</td>
<td>4 months ago</td>
<td>Lucia Grajecora pgen</td>
</tr>
<tr>
<td>logical_variables.csv</td>
<td>6 months ago</td>
<td>Knut Wenzig init database</td>
</tr>
<tr>
<td>questions.csv</td>
<td>8 days ago</td>
<td>Sebastian Gschonke</td>
</tr>
<tr>
<td>variable_categories.csv</td>
<td>6 months ago</td>
<td>Knut Wenzig init database</td>
</tr>
<tr>
<td>variables.csv</td>
<td>6 months ago</td>
<td>Knut Wenzig init database</td>
</tr>
</tbody>
</table>

**Shell Output**

```bash
$ cd /d/lokals/idatadoku/

kwenzioDIW-15-032 MINGW64 /d/lokals/idatadoku (master)
$ git pull
remote: Counting objects: 125, done.
remote: Compressing objects: 100% (85/85), done.
remote: Total 85 (delta 53), reused 3 (delta 0)
Unpacking objects: 100% (85/85), done.
From https://gitlab.soep.de/kwenzig/idatadoku
    f7f3a59...fa41773 master -> origin/master
First, rewinding head to replay your work on top of it...
Fast-forward master to f6a17f959b56c0862f5e7/7fc0131e23a13757d.
```

---

**Git Bash**

**Gitlab**

**Screenshots**

**Knut Wenzig / ISDataDoku**

- **Files**
  - **master**
  - **isdatadoku/questionnaires/soep-is-2013-a/**

---

**Download zip**
CSV files on Git

Pro:
- No server only software on clients needed (but Gitlab or similar make things easier)
- No special frontend (“editor”) needed: lean development
- Version control helps to track changes and reset to previous version in case of errors
- Metadata easy accessible for programming (Ruby, R, Stata)
- Establish version control know-how

Con:
- Integrity of metadata not enforced
- Annoying issues with separators, encoding, quotes (LibO Calc and a macro helps)
- Transfer to database (for web-use)

Do you already use version control?
Use case: FiD integration

- pool information of very similar studies which were carried out in the same year
  - SOEP
  - Families in Germany
- very similar: integration of datasets from different waves
- integration reduces burden of data users dramatically
  - identification of similar questions/variables
  - harmonisation of information is standardised
## Use case: FiD integration

### Questionnaire 1

<table>
<thead>
<tr>
<th>id</th>
<th>var1</th>
<th>var2</th>
<th>var3</th>
<th>var4</th>
<th>var5</th>
<th>var7</th>
<th>var8</th>
</tr>
</thead>
</table>

### Questionnaire 2

<table>
<thead>
<tr>
<th>id</th>
<th>var1</th>
<th>var2</th>
<th>var4</th>
<th>var5</th>
<th>var6</th>
<th>var7</th>
<th>var8</th>
</tr>
</thead>
</table>

### Dataset 1

- [id] 
- [var1]
- [var2]
- [var3]
- [var4]
- [var5]
- [var7]
- [var8]

### Dataset 2

- [id]
- [var1]
- [var2]
- [var4]
- [var5]
- [var6]
- [var7]
- [var8]

### Integrated Dataset

- [id]
- [VAR1]
- [VAR2]
- [VAR3]
- [VAR4]
- [VAR5]
- [VAR6]
- [VAR7]
- [VAR8]

### Cases with Quest 1

- append

### Cases with Quest 2

- integratedDataset

Use case: FiD integration – necessary steps

- Identify corresponding questions/variables
- Correct, (harmonise)
- Rename variables:
  - Dataset1, var1 > integratedDataset, VAR1
  - See table
- Compare corresponding variables
  - Prevent errors
  - Variable labels
  - Value labels
  - Accept differences or make corrections
- Append datasets
  - Fill sparse areas with missing code
- Evaluate work
- (Harmonise)

<table>
<thead>
<tr>
<th>i_dataset</th>
<th>i_variable</th>
<th>o_dataset</th>
<th>o_variable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dataset1</td>
<td>var1</td>
<td>iDataset</td>
<td>VAR1</td>
</tr>
<tr>
<td>Dataset1</td>
<td>var2</td>
<td>iDataset</td>
<td>VAR2</td>
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<tr>
<td>Dataset2</td>
<td>var1</td>
<td>iDataset</td>
<td>VAR1</td>
</tr>
<tr>
<td>Dataset2</td>
<td>var2</td>
<td>iDataset</td>
<td>VAR2</td>
</tr>
</tbody>
</table>
Use case: FiD integration – doerevaluate

Diagramm shows successful integration of a metric variable (week of pregnancy)
Use case: FiD integration – documentation

Questionnaire 1

See:
- Dataset1, var1
- integratedDataset, VAR1

original renaming information – nothing more

Codebook:

integratedDataset

VAR1

Sources:
- Questionnaire 1, Q12
- Questionnaire 2, Q14
Use case: FiD integration with active metadata

Result:

- 62 Stata files with integrated information
- 305 lines of code (without corrections)
- 21915 (non-)renaming of variables
- 61464 differences in variable labels and value labels were accepted

Stata ados which rely on DDIonRails metadata: http://ddionrails.org/stata/
  - dorrename, dorcomparedta, dorcomparexis, dorappend, dorevaluate
  - dororder, dorlabeldta
  - https://github.com/ddionrails/stata

Metadata driven data processing

- code written for data preparation more structured and better to maintain
- metadata (and documentation) more accurate
- documentation ready when data are ready
paneldata.org

- Successor for SOEPinfo
- Multiple studies
- Multiple releases / distributions
- Linking across studies
- Panel-specific functionality
DDI on Rails
Understanding Data
The data portal DDI on Rails accompanies researchers throughout the entire course of their research projects from conception to publication/citation.

The system offers researchers the possibility to explore the data, to compile personalized datasets, and to publish results on the publication database.

In contrast to similar products, DDI on Rails is study-independent and open-source, is able to document data with multiple versions/distributions and the specific characteristics of a longitudinal study, and is easy to use.
Virtual Life Satisfaction - KYKLOS
Publication by Castronova, Edward J. and Gert G. Wagner (2011)

In conclusion, we would like to ask you about your satisfaction with your life in general. [M19]
Question in study: soep-pretest | questionnaire: pre_2008_muki_b | period: 2008 | analysis unit: p

In conclusion, we would like to ask you about your satisfaction with your life in general. [M19]
Question in study: soep-pretest | questionnaire: pre_2008_muki_e | period: 2008 | analysis unit: p

In conclusion, we would like to ask you about your satisfaction with your life in general. [110]
Question in study: soep-pretest | questionnaire: pre_2010 | period: 2010 | analysis unit: p

In conclusion, we would like to ask you about your satisfaction with your life in general. [199]
Question in study: soep-pretest | questionnaire: pre_2011 | period: 2011 | analysis unit: p

Satisfaction [item_5974]
Concept in topic: satisfaction

Unemployment, recall error, and life satisfaction
Publication by Jürges, Hendrik (2004)

Artists' Job and Life Satisfaction (Master-Thesis)
<table>
<thead>
<tr>
<th>Study</th>
<th>Concepts</th>
<th>Variables</th>
<th>Questions</th>
<th>Publications</th>
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<tbody>
<tr>
<td>SOEP Core study</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Analysis unit</td>
<td></td>
<td></td>
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<tr>
<td>Individual level</td>
<td></td>
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<tr>
<td>Conceptual dataset</td>
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<td></td>
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<tr>
<td>Original data (net)</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Period</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

- **Satisfaction With Family Life [bbp0110]**
  - Variable in study: soep-core
  - Dataset: bbp
  - Period: 2011
  - Analysis unit: p
  - Concept: pzuf13

- **Satisfaction With Social Life [bbp0111]**
  - Variable in study: soep-core
  - Dataset: bbp
  - Period: 2011
  - Analysis unit: p
  - Concept: pzuf14

- **Current Life Satisfaction [bbp99]**
  - Variable in study: soep-core
  - Dataset: bbp
  - Period: 2011
  - Analysis unit: p
  - Concept: item_5423

- **Satisfaction With Life At Today [bbp15201]**
  - Variable in study: soep-core
  - Dataset: bbp
  - Period: 2011
  - Analysis unit: p
  - Concept: pzuf1

- **Satisfaction With Life In 5 Years [bbp15202]**
  - Variable in study: soep-core
  - Dataset: bbp
  - Period: 2011
  - Analysis unit: p
  - Concept: pzuf2
Satisfaction With Life At Today

Categories

-3 Answer improbable: 0.00%
-2 Does not apply: 0.00%
-1 No Answer: 0.15%
0 Satisfied: On Scale 0-Low: 0.26%
1 Satisfied: On Scale 0-Low: 0.38%
2 Satisfied: On Scale 0-Low: 0.92%
3 Satisfied: On Scale 0-Low: 2.20%
4 Satisfied: On Scale 0-Low: 3.69%
5 Satisfied: On Scale 0-Low: 10.35%
6 Satisfied: On Scale 0-Low: 9.71%
7 Satisfied: On Scale 0-Low: 19.66%
8 Satisfied: On Scale 0-Low: 27.22%
9 Satisfied: On Scale 0-Low: 3.59%
10 Satisfied: On Scale 0-Low: 10.27%

Variable

Study: SOEP Core study [soep-core]
Dataset: Personal questionnaire [bbp]
Concept: Current Life Satisfaction [pzules1]
Number of Categories: 15

Related variables

Current Life Satisfaction [bcp151]
### Compare category labels

<table>
<thead>
<tr>
<th>Variable:</th>
<th>bcp52</th>
<th>bbp65</th>
<th>bap52</th>
<th>zp63</th>
<th>yp61</th>
<th>xp65</th>
<th>wp52</th>
<th>vp63</th>
<th>up51</th>
<th>tp7004</th>
<th>sp52a</th>
<th>rp51</th>
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</thead>
<tbody>
<tr>
<td>Dataset:</td>
<td>bcp</td>
<td>bbp</td>
<td>bap</td>
<td>zp</td>
<td>yp</td>
<td>xp</td>
<td>wp</td>
<td>vp</td>
<td>up</td>
<td>tp</td>
<td>sp</td>
<td>rp</td>
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<tr>
<td>[x] answer improbable</td>
<td>-3 (0)</td>
<td>-3 (0)</td>
<td>-3 (0)</td>
<td>-3 (0)</td>
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<td>-3 (0)</td>
<td>-3 (0)</td>
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<tr>
<td>[x] does not apply</td>
<td>-2 (18310)</td>
<td>-2 (18646)</td>
<td>-2 (16594)</td>
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<td>-2 (17436)</td>
<td>-2 (18512)</td>
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<td>-2 (19630)</td>
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<tr>
<td>[x] no answer</td>
<td>-1 (33)</td>
<td>-1 (44)</td>
<td>-1 (51)</td>
<td>-1 (55)</td>
<td>-1 (48)</td>
<td>-1 (51)</td>
<td>-1 (54)</td>
<td>-1 (55)</td>
<td>-1 (52)</td>
<td>-1 (73)</td>
<td>-1 (98)</td>
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<tr>
<td>[x] yes mini-job</td>
<td>1 (966)</td>
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<td>1 (886)</td>
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<td>1 (887)</td>
<td>1 (885)</td>
<td>1 (946)</td>
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<td>1 (78)</td>
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<tr>
<td>[x] yes midi job</td>
<td>2 (215)</td>
<td>2 (207)</td>
<td>2 (197)</td>
<td>2 (191)</td>
<td>2 (186)</td>
<td>2 (182)</td>
<td>2 (161)</td>
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<tr>
<td>[x] no</td>
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<tr>
<td>[x] yes</td>
<td>1 (1125)</td>
<td>1 (844)</td>
<td>1 (843)</td>
<td></td>
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</tr>
</tbody>
</table>
Current Life Satisfaction [concept: pzule1]

Concept:
Name: pzule1
Title: Current Life Satisfaction
Topic: satisfaction

- SOEPlong
- Base II
- SOEP Core study
- SOEP Pretest
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- hosted service to document panel data
- study-specific domains (e.g., paneldata.org/soep-core)
- about.paneldata.org for additional information
Wrap up