

Tobias Koberg

Anonymization Procedures

NEPS Starting Cohort 8 — Grade 5 (2022)
Education for the World of Tomorrow

Scientific Use File Version 2.0.0

Research Data Documentation

The NEPS *Research Data Documentation Series* presents resources prepared to support the work with data from the National Educational Panel Study (NEPS).

Contact

E-mail: fdz@lifbi.de

Web: www.lifbi.de/FDZ

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Leibniz Institute for Educational Trajectories (LifBi)
Wilhelmsplatz 3, 96047 Bamberg
Director: Prof. Dr. Cordula Artelt
Administrative Director: Dr. Stefan Echinger
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1 Preamble

This documentation gives an exhaustive explanation of all disclosure risk minimization techniques applied before dissemination to the Scientific Use File (SUF) of Starting Cohort (SC) 8, version 2.0.0 (doi:10.5157/NEPS:SC8:2.0.0). For a quick reference to all variables and datafiles which are affected in detail and on which level you will find the full information, please skip forward to appendix section A.1. If you have inquiries or need further information not covered in this document please feel free to contact the research data center at fdz@lifbi.de. Please note the following general remarks:

- in all tables, the anonymization suffix (_O, _R, _D) was removed from the variable name to enhance readability and remove duplicates. To find a specific variable in the data file, add the corresponding suffix or use a wildcard.
- to ensure a data-consistent documentation, all tables in this document have been produced on basis of the SUF data. Variable labels in the data have been cut off at 80 characters, which inherits to this documentation.
- as additional documentation, a *Semantic Data Structure File* is available. This is the complete SUF where all cases have been removed. Feel free to use this as a first overview to the data in cases you do not have access to the real data (e.g. you are interested in data files which are available OnSite only). You are well advised to use this preparing your syntax *before* initiating your travel to our OnSite facility. You find it freely available on the documentation page to this SUF:

www.neps-data.de > Data Center > Data and Documentation > Starting Cohort Grade 5 (2022) > Documentation

1.1 Specifications

To ensure the best possible confidentiality protection of individuals and individual micro data, the National Educational Panel Study complies with strict international standards. To achieve this, a *portfolio approach*, based on the ideas of Lane et al., 2008, has been established. This approach interlocks data security mechanism on five different levels, while the actual data modification (i.e. anonymization) is one of them. For further information, see the article by Koberg, 2016. Operationalizing this modification procedure, it can be abstracted to the following two criteria:

- the disseminated data was transferred to so called *de facto anonymous data*. Identifiable information is coarsened or cut off and kept securely to minimize the risk of statistical disclosure.

- the use of data is strictly confidential and for statistical purposes only. The closed contract only grants access to members of the scientific community. This contract has a vast amount of legal stipulations, one of them being a large fine which applies for the realization of re-identification on purpose. Therefore, the disseminated data is highly protected by law and allows a more flexible range of available data.

To pick up the latter, the NEPS has made a huge effort regarding legal regulations to offer as much analysis power of data as possible. This *paradigm of information esteem* reveals the fact that conducted measures of statistical disclosure control are few. Also, if there really was a need for modification, only non-perturbative methods were used.

1.2 Onion-shaped model

The NEPS grants the user three different modes of data access: (1) *OnSite*, which stands for the opportunity to use the secured infrastructure made available at the LfBi in Bamberg, (2) *RemoteNEPS*, which is a progressive remote access technology providing a virtual desktop, and finally (3) *Download*, indicating the possibility to fetch data via a secure web portal.

These given access modes have been originated to allow anonymization routines for a subtle differentiation of information. The three resulting levels of anonymization define as follows:

- data provided OnSite is generally not further anonymized. However, even those data was rendered *de facto anonymous*, for no disclosure risk to persist. All information contained remains completely sane. Although users have to deal with limited possibilities of data access (i.e. supervised import and export of their results), they are free to work with all data available in a secure environment.
- access via RemoteNEPS is considered equivalent to OnSite, hence most of the data stays complete.
- as Download is assumed to be the most hazardous access mode¹, some more anonymization techniques are done to the dataset.

Obviously this approach results in three different versions of all involved datasets. To enable a consistent structure, these data files always contain the entire set of variables; it is their content which differs through the three levels.

As normally there is no need to resign aggregated variables in the higher levels (i.e. OnSite or RemoteNEPS), those are already defined as a surplus to the original variable in the OnSite-version. Stepping down to RemoteNEPS, the content of related variables too sensitive for this level is overwritten with an exclusive missing code – an operation which we define as *purging*. Note that system missing values are not affected, allowing the user to differ between value existence and nonexistence. This still is a valuable additional information. The same logic applies to the transition from RemoteNEPS to Download.

¹ 'hazardous' in terms of: the downloaded content is no longer under physical control of the LfBi

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While there is no explicit documentation to this fact, it should remain clear that this procedure accumulates, i.e. purged content under RemoteNEPS is therefore neither included in RemoteNEPS nor in Download.

This *onion-shaped model* provides both ease of (1) use of different sensitivity models (e.g. preparing an analysis using the Download dataset and conducting it afterwards using the OnSite-data) and (2) documentation, for the subject of documentation is the most sensitive level (OnSite), with RemoteNEPS and Download levels being a subset of these data.

The fourth layer *master* depicted below contains every material which is needed during data processing by the NEPS, but is not meant for the scientific community to be usable.

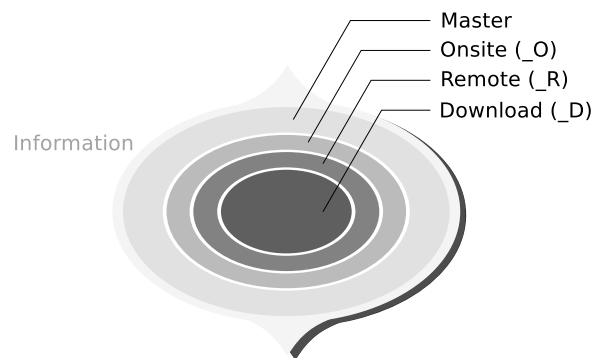


Figure 1: Onion-shaped model defining the different anonymization levels

Technically, this model realizes in a single letter suffixed to dataset and variable names. All datasets available OnSite only are marked with an additional **_O**, those available via RemoteNEPS with **_R** and Download files with **_D**. The same procedure applies when it comes to variable differentiation. A variable which is available unaltered OnSite only is suffixed with **_O**. In RemoteNEPS-access or Download, this variable is still present but purged. If there is an alternate version (e.g. with coarsened content) for RemoteNEPS (suffix **_R**) or Download (suffix **_D**), those can be used. As said before, these are already integrated in the OnSite version. See section 3 for some examples (especially for a practical explanation what is meant by *purging* here).

2 Conducted measures

Keeping the usability and the paradigm of information esteem in mind, only very few alterations are actually done to the dataset. Please note that all information is still available somewhere and that only RemoteNEPS and (mainly) the Download version are constraint in this matter. In fact, in this SUF, only 195 out of 2957 variables are modified in some way.

The following table gives an explanatory overview of all measures conducted. The remainder of this section gives a more detailed description of those topics.

Table 1: Availability of sensitive data

Topic	OnSite	RemoteNEPS	Download
String variables	anonymized	n/a	n/a
International ¹	full data	full data	collapsed
Regional (National)	restricted	restricted	restricted
Institutional context	full data	anonymized	n/a
Macro indicators	accessible	n/a	n/a
Others	full data	full data	aggregated

¹ international geographical information (e.g., nation states, national languages)

2.1 String variables

All variables containing actual text and whose type is therefore string are purged in the RemoteNEPS version. The information remains accessible OnSite. However, you should be aware that in the majority of cases, text entries have been recoded into derived variables (usually suffixed with `_g1`, `_g2`, etc.), which contain the information collected. Those variables are available in all three levels, only the actual text entry is available OnSite only. The text entries have been reviewed by staff to ensure that absolutely no reidentificational material is included. To indicate the availability of those variables OnSite only, the variable names have been suffixed with an additional `_0`.

Table 2: All string variables; those are only available onsite

file	variable	label
CohortProfile	tx82004	List of children/students: German grade previous year's report card

(...)

2 Conducted measures

Table 2: (continued)

file	variable	label
CohortProfile	tx82005	List of children/students: math grade previous year's report card
CohortProfile	tx82006	List of children/students: foreign language grade previous year's report card
ParentMethods	px80411	Problems Contacting (open)
ParentMethods	px80413	Problems Conducting (open)
pCourseClass	classname	Name class
pCourseGerman	classname	Name class
pCourseMath	classname	Name class
pEducator	e537167	Training: type qualification
pEducator	e537168	Training: subject/subject combination
pEducator	e53717s	Classes in general: open
pEducator	e53718s	Teaching qualification: open
pInstitution	h229031	Pedagogical concept open
pInstitution	h537167	Training: type qualification
pInstitution	h537168	Training: subject /subject combination
pParent	p31035h	Idealistic professional aspiration
pParent	p401001	Immigration status respondent: other
pParent	p403041	Immigration status partner: other
pParent	p43202o	Characteristics of external ascription: open
pParent	p517611	Membership: other club, open
pParent	p731803	Type of highest school-leaving qualification in Germany respondent: open
pParent	p731814	Type professional qualification in Germany respondent: open
pParent	p731815	Educational institution professional qualification in Germany respondent: open
pParent	p731817	Type tertiary qualification in Germany respondent: open
pParent	p731819	Educational institution tertiary qualification in Germany respondent: open
pParent	p731843	Country highest educational qualification respondent: open
pParent	p731846	Recognized educational qualification respondent: open
pParent	p731853	Type of highest school-leaving qualification in Germany partner: open
pParent	p731864	Type professional qualification in Germany partner: open
pParent	p731865	Educational institution vocational qualification in Germany partner: open
pParent	p731867	Type tertiary qualification in Germany partner: open
pParent	p731869	Educational institution tertiary qualification in Germany partner: open
pParent	p731893	Country highest educational qualification partner: partner
pParent	p731896	Recognized educational qualification partner: open
pParent	pd01014	Pedagogical concept: open
pTarget	t27270h	Participation organization: other, open
pTarget	t31002a	Idealistic professional aspirations – aspired profession
pTarget	t700034	Gender identity: open

(...)

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Table 2: (continued)

file	variable	label
pTarget	t731156	Profession parent A
pTarget	t731157	Occupation parent A
pTarget	t73115a	Parent A: open
pTarget	t73115h	Educational qualification parent A: open
pTarget	t731166	Profession parent B
pTarget	t731167	Occupation parent B
pTarget	t73116a	Parent B: open
pTarget	t73116h	Educational qualification parent B: open
pTarget	td00118	School history: type of school open
pTarget	td00123	School history: school branch open
pTarget	td00329	School history: type of school open
pTarget	td0032a	Type of school currently open
pTarget	td0033a	School track currently open
pTarget	td00401	Type of school currently open
pTarget	td00403	School track currently open
pTarget	td00457	Comment on disruptions and problems
pTarget	td00462	Problems Contacting (open)
pTarget	td00464	Problems Conducting (open)
pTarget	td0350b	Class name (CATI regular school)
pTarget	td0350d	Class name (CATI special school)
pTarget	td0405b	Type of school open

2.2 International: countries, languages, and nationalities

All information corresponding to international localization, nationality or languages is completely available only OnSite or via RemoteNEPS. Variables comprised in the Download SUF are aggregated into larger categories – mainly allocating continents and, in detail, states in Europe. For a complete recoding map of all countries/languages/nationalities, see appendix section A.2. This recoding rule was initially based on the methods used for the IAB ALWA study (Antoni et al., 2011) and the recommendations given by Müller et al., 1991. It has been updated and adjusted to better serve the data user's needs. Please note that this aggregated version is generated not during the anonymization process, but as an additional derived variable. Therefore, you do not find a variable suffixed `_D`, but two derived variables (suffixed `_g1` and `_g2`), where only the first has an anonymization suffix (i.e. `_g1R`), indicating that the full information is available in RemoteNEPS only.

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Table 3: All variables which are affected by country/language/nationality aggregation

file	variable	label
pEducator	e40002a_g1	Country of origin
pEducator	e40002a_g2	Country of origin (categorized)
pEducator	e40003a_g1	Country of origin parents: 1st reference
pEducator	e40003a_g2	Country of origin parents: 1st reference (categorized)
pEducator	e40003b_g1	Country of origin parents: 2nd reference
pEducator	e40003b_g2	Country of origin parents: 2nd reference (categorized)
pParent	p400010_g1	Country of birth respondent
pParent	p400010_g2	Country of birth abroad respondent (aggregated)
pParent	p400070_g1	Country of birth mother respondent
pParent	p400070_g2	Country of birth mother respondent (aggregated)
pParent	p400090_g1	Country of birth father respondent
pParent	p400090_g2	Country of birth father respondent (aggregated)
pParent	p400500_g3	Group of origin
pParent	p401150_g2	Other citizenship respondent (aggregated)
pParent	p403010_g1	Country of birth abroad partner
pParent	p403010_g2	Country of birth abroad partner (aggregated)
pParent	p403070_g1	Place of birth mother partner
pParent	p403070_g2	Country of birth mother partner (aggregated)
pParent	p403090_g1	Place of birth father partner
pParent	p403090_g2	Country of birth father partner (aggregated)
pParent	p404050_g2	Other citizenship partner (aggregated)
pParent	p406010_g1	Country of birth abroad target child
pParent	p406010_g2	Country of birth abroad target child (aggregated)
pParent	p407050_g2	Citizenship target child (aggregated)
pParent	p407060_g2	Second citizenship target child (aggregated)
pParent	p731842_g1	Country highest educational qualification respondent
pParent	p731842_g2	Country highest educational qualification respondent (categorized)
pParent	p731892_g1	Country highest educational qualification partner
pParent	p731892_g2	Country highest educational qualification partner (categorized)
pTarget	t400000_g1	Country of birth
pTarget	t400000_g2	Country of birth (aggregated)
pTarget	t400500_g3	Group of origin
pTarget	t401152_g2	First citizenship (aggregated)
pTarget	t401153_g2	Second citizenship (aggregated)
pTarget	t731152_g1	Country of birth parent A
pTarget	t731152_g2	Country of birth parent A (aggregated)
pTarget	t731153_g1	Country of birth mother parent A
pTarget	t731153_g2	Country of birth mother parent A (aggregated)
pTarget	t731154_g1	Country of birth father parent A
pTarget	t731154_g2	Country of birth father parent A (aggregated)

(...)

2 Conducted measures

Table 3: (continued)

file	variable	label
pTarget	t731162_g1	Country of birth parent B
pTarget	t731162_g2	Country of birth parent B (aggregated)
pTarget	t731163_g1	Country of birth mother parent B
pTarget	t731163_g2	Country of birth mother parent B (aggregated)
pTarget	t731164_g1	Country of birth father parent B
pTarget	t731164_g2	Country of birth father parent B (aggregated)
pTarget	td00108_g1	School history: country of school
pTarget	td00108_g2	School history: country of school (aggregated)
ParentMethods	px80204	Interview: interview language (realized case)
pCourseClass	e410011_g1	First language/mother tongue Educator (ISO 639.2)
pCourseClass	e410011_g2	First language/mother tongue Educator (aggregated)
pCourseClass	e410021_g1	additional first language/mother tongue Educator (ISO 639.2)
pCourseClass	e410021_g2	additional first language/mother tongue Educator (aggregated)
pParent	p410000_g1	First language/mother tongue child (ISO 639.2)
pParent	p410000_g2	First language/mother tongue child (aggregated)
pParent	p410002_g1	Additional first language/mother tongue child (ISO 639.2)
pParent	p410002_g2	Additional first language/mother tongue child (aggregated)
pTarget	t414000_g1	First mother tongue (ISO 639.2)
pTarget	t414000_g2	First mother tongue (categorized)
pTarget	t414002_g1	Second mother tongue (ISO 639.2)
pTarget	t414002_g2	Second mother tongue (categorized)
pParent	p401150_g1	Other citizenship respondent
pParent	p404050_g1	Other citizenship partner
pParent	p407050_g1	Citizenship target child
pParent	p407060_g1	Second citizenship target child
pTarget	t401152_g1	First citizenship
pTarget	t401153_g1	Second citizenship

2.3 Regional localization

For all variables which register a regional position – such as places of birth, work, school, or residence – the following variables have been generated (if possible):

- an indicator for West Germany and East Germany (including Berlin)
- the federal state for this location,
- the administrative region, and

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- the administrative district,

the latter two only available .

Regional localization more detailed is not directly available. If you have need to merge data using a regional key below the available level, please check out the corresponding website at:

→ www.neps-data.de > Data Center > Overview and Assistance > Regional Data

or contact the LIfBi RDC (fdz@lifbi.de), which may deal with this matter for you.

Table 4: All regional variables which are only available in RemoteNEPS or OnSite.

file	variable	label
CohortProfile	tx80109_g2	Sample: Federal state school
ParentMethods	px80101	Sample: Federal State
TargetMethods	tx80101	Sample: federal state
Weights	stratum_imp1	Implicit stratum (federal state according to sampling frame)
Weights	stratum_imp2	Implicit stratum (regional classification according to sampling frame)
Weights	stratum_imp3	Implicit stratum (funding according to sampling frame)
pTarget	td00112_g2	Municipality of school (federal state)
pTarget	td00112_g3	Municipality of school (administrative district)
pTarget	td00112_g4	Municipality of school (district)

2.4 Institutional characteristics

In this Starting Cohort, also information about institutions is available. A special focus of anonymization was directed to protection of institutional data, i.e. information about kindergarten, schools, and universities, but also educators and teachers. To minimize the risk of re-identification, this data is only available in RemoteNEPS. This includes the complete datafile(s)

pInstitution,

but may also affect basic structural details about the group or class (e.g. size of class) in other datafiles. Furthermore, personal information about educators and teachers is treated more securely. You will find detailed information about these subjects from RemoteNEPS onward. Refer to section 2.5 to see the affected variables.

2.5 Other variables

All other variables affected by anonymization and not classifiable in the previous groups are listed below. In the first table (table 5), you find all variables which were aggregated in the

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Download-SUF. An additional table below each entry displays the values of the variable, both as found in RemoteNEPS (if table column is empty, the variable is numeric and does not have a value label scheme) and in Download.

The second table (table 6) contains all variables which are not aggregated, but purged completely in the Download-version, that is, there is no aggregated version.

Table 5: Other variables which were aggregated in the Download-SUF (aggregation is also stated)

[file] variable: label

[pEducator] e229822: Time in occupation: total (categorized)

RemoteNEPS		Download
	1	0 to less than 5
	2	5 to less than 10
	3	10 to less than 15
	4	15 to less than 20
	5	20 to less than 25
	6	25 to less than 30
	7	30 to less than 35
	8	35 and more

[pEducator] e229823: Time in occupation: school (categorized)

RemoteNEPS		Download
	1	0 to less than 5
	2	5 to less than 10
	3	10 to less than 15
	4	15 to less than 20
	5	20 to less than 25
	6	25 to less than 30
	7	30 to less than 35
	8	35 and more

[pEducator] e76212y: Date of birth: year (categorized)

RemoteNEPS		Download
	1	before 1960
	2	1960-1969
	3	1970-1979
	4	1980-1989
	5	1990-1999
	6	after 1999

(...)

Table 5: (continued)

[file] variable: label

[pParent] p731911: Number of employees respondent (aggregated)

RemoteNEPS		Download
1 to less than 5	1	1 to less than 5
5 to less than 10	2	5 to less than 10
10 to less than 20	3	10 to less than 20
20 to less than 50	4	20 and more
50 to less than 100	5	
100 to less than 200	6	
200 to less than 250	7	
250 to less than 500	8	
500 to less than 1,000	9	
1,000 to less than 2,000	10	
2,000 and more	11	

[pParent] p731961: Number of employees partner (aggregated)

RemoteNEPS		Download
1 to less than 5	1	1 to less than 5
5 to less than 10	2	5 to less than 10
10 to less than 20	3	10 to less than 20
20 to less than 50	4	20 and more
50 to less than 100	5	
100 to less than 200	6	
200 to less than 250	7	
250 to less than 500	8	
500 to less than 1,000	9	
1,000 to less than 2,000	10	
2,000 and more	11	

[pParent] pd01017: Type recommendation (categorized)

RemoteNEPS		Download
Hauptschule [lower secondary school]	1	Hauptschule [lower secondary school]
Werkrealschule [type of secondary school]	2	Realschule [intermediate secondary school]/Werkrealschule [type of secondary school]/Realschule plus [type of secondary school]
Realschule [intermediate secondary school]	3	
Gymnasium [upper secondary school]	4	Gymnasium [upper secondary school]
Gemeinschaftsschule [comprehensive school]	5	Gemeinschaftsschule [comprehensive school]
special needs school	6	special needs school
Mittelschule [type of secondary school]	7	
Gesamtschule [comprehensive school]	8	Gesamtschule [comprehensive school]
Wirtschaftsschule [type of secondary school in Bavaria providing general education in the field of business and administration]	9	
secondary school	10	secondary school
Oberschule [upper secondary school]	11	Oberschule [upper secondary school]
Stadtteilschule [type of secondary school]	12	
Mittelstufenschule [type of secondary school]	13	
Regionale Schule [regional school]	14	
Realschule plus [type of secondary school]	15	
regular school	16	
other type of school	17	other type of school

(...)

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Table 5: (continued)

[file] variable: label

[pParent] pd01018: Wish school type (categorized)

RemoteNEPS		Download
Hauptschule [lower secondary school]	1	Hauptschule [lower secondary school]
Werkrealschule [type of secondary school]	2	Realschule [intermediate secondary school]/Werkrealschule [type of secondary school]/Realschule plus [type of secondary school]
Realschule [intermediate secondary school]	3	
Gymnasium [upper secondary school]	4	Gymnasium [upper secondary school]
Gemeinschaftsschule [comprehensive school]	5	Gemeinschaftsschule [comprehensive school]
special needs school	6	special needs school
Mittelschule [type of secondary school]	7	
Gesamtschule [comprehensive school]	8	Gesamtschule [comprehensive school]
Wirtschaftsschule [type of secondary school in Bavaria providing general education in the field of business and administration]	9	
secondary school	10	secondary school
Oberschule [upper secondary school]	11	Oberschule [upper secondary school]
Stadtteilschule [type of secondary school]	12	
Mittelstufenschule [type of secondary school]	13	
Regionale Schule [regional school]	14	
Realschule plus [type of secondary school]	15	
regular school	16	
other type of school	17	other type of school

Table 6: Other variables which were purged in the Download-SUF

file	variable	label
pCourseClass	e451000	Class: number of students with migrant background
pCourseClass	e79204a	Social composition of class: education
pCourseClass	e79204b	Social composition of class: poverty
pCourseClass	ed1152a	Type of special needs: learning
pCourseClass	ed1152b	Type of special needs: emotional and social development
pCourseClass	ed1152c	Type of special need: language
pCourseClass	ed1152d	Type of special needs: motoric skills
pCourseClass	ed1152e	Type of special needs: mental development
pCourseClass	ed1152f	Type of special needs: hearing
pCourseClass	ed1152g	Type of special needs: vision
pCourseClass	ed1152h	Type of special needs: autism
pCourseClass	ed1152i	Type of special needs: LLE

(...)

Table 6: (continued)

file	variable	label
pCourseClass	ed1152j	Type of special needs: not assigned
pCourseClass	ed1152k	Type of special needs: unknown
pEducator	e76212m	Date of birth: month
pTarget	td00321	School history: federal state of school
pTarget	td0032b	Federal state of school

3 Examples

The following examples compare variables from some selected topics. On the left side, you see these variables as they can be found in the RemoteNEPS-SUF (i.e., this is the variant of the variable which contains the full information). On the right side, you find the same variables, but from the Download-version of the SUF, that is, the aggregated or purged variant of the variable. This illustrates the anonymization applied.

3 Examples

3.1 Number of employees

The first example is a variable collected during the interview of Starting Cohort 6 (Adults). The question further investigates the occupational periphery of employers, while here, this employer is the mother of the respondent. On the left, you see the complete information as found in the RemoteNEPS-SUF. This variable is collected using seven classes, where the last four are sparsely filled (variable `t731406_R`, table on the lower left). Because of this, those four codes have been recoded into one category (*»20 and more«*) and a new variable is generated (`t731406_D`, upper left). In the Download-SUF, you find this aggregated variable unaltered (upper right). The variable `t731406_R` rich in content was purged, though. You see that all meaningful codes have been recoded to *»-53 Anonymized«*. Note that the missing code *»-54 Missing by design«* is transported to the Download-SUF unmodified, so you already can derive the actual *statistical power* of this variable.

RemoteNEPS	Download																																																																																																		
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3 Examples

3.2 Countries (aggregated list)

To illustrate the anonymization of countries, first have a look at this variable from Starting Cohort 6 (Adults). The information (*»respondent's country of birth«*) was surveyed during the interview. The collected information was recoded during data processing to different derived variables. The first of those is variable `t405010_g1R`, which contains the complete list of countries (lower left, output is shortened to enhance readability). Also, a second variable `t405010_g2` was generated, using a more coarse list. This is helpful if some information was collected, but it is too inaccurate to identify the country (e.g., if someone states he was born in North America, you do not know if he meant U.S. or Canada). This second variable is transported to the Download-SUF unaltered (upper right), which means it in some way represents the anonymized version. The first variable `t405010_g1R` with the full information is purged in the Download-SUF.

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3.3 Countries (binary variable)

In school cohorts, an aggregation of countries is coarsened to the binary information German/Non-German. To illustrate this, have a look at variables from Starting Cohort 2 (Kindergarten). The information (*»country of birth target child«*) was surveyed during the interview using a two-step procedure: first, the respondent is asked if the child was born in Germany or abroad (variable p406000, top left). This variable is not subject to anonymization and therefore does not have a suffix and is equally existent in both SUF-versions. If the child was born abroad, a second question regarding the specific country followed (variable p406010_g1R, lower left, output is reduced to enhance readability). This second question is purged in the Download-SUF (lower right). There is no need to generate an additional anonymized version of this second question, as the information is already present in the first shown variable (p406000).

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SC2_pParent_R_3-0-0.dta (NEPS SUF, SC2 3.0.0 (remote); doi:10.5157/NEPS:SC2:3.0.0) p406000 -- Target child born in Germany? <table> <tr><th></th><th>Freq.</th></tr> <tr><td>Valid</td><td></td></tr> <tr><td>-98 Don't know</td><td>1</td></tr> <tr><td>1 Yes</td><td>7658</td></tr> <tr><td>2 No</td><td>173</td></tr> <tr><td>Total</td><td>7832</td></tr> <tr><td>Missing .</td><td>3545</td></tr> <tr><td>Total</td><td>11377</td></tr> </table> p406010_g1R -- Country of birth target child <table> <tr><th></th><th>Freq.</th></tr> <tr><td>Valid</td><td></td></tr> <tr><td>-98 Don't know</td><td>1</td></tr> <tr><td>-20 Abroad, but not codeable</td><td>1</td></tr> <tr><td>0 germany</td><td>7658</td></tr> <tr><td>124 belgium</td><td>2</td></tr> <tr><td>125 bulgaria</td><td>5</td></tr> <tr><td>:</td><td>:</td></tr> <tr><td>475 syrian arab republic</td><td>2</td></tr> <tr><td>476 thailand</td><td>2</td></tr> <tr><td>479 china</td><td>4</td></tr> <tr><td>536 new zealand</td><td>1</td></tr> <tr><td>Total</td><td>7832</td></tr> <tr><td>Missing .</td><td>3545</td></tr> <tr><td>Total</td><td>11377</td></tr> </table>		Freq.	Valid		-98 Don't know	1	1 Yes	7658	2 No	173	Total	7832	Missing .	3545	Total	11377		Freq.	Valid		-98 Don't know	1	-20 Abroad, but not codeable	1	0 germany	7658	124 belgium	2	125 bulgaria	5	:	:	475 syrian arab republic	2	476 thailand	2	479 china	4	536 new zealand	1	Total	7832	Missing .	3545	Total	11377	SC2_pParent_D_3-0-0.dta (NEPS SUF, SC2 3.0.0 (download); doi:10.5157/NEPS:SC2:3.0.0) p406000 -- Target child born in Germany? <table> <tr><th></th><th>Freq.</th></tr> <tr><td>Valid</td><td></td></tr> <tr><td>-98 Don't know</td><td>1</td></tr> <tr><td>1 Yes</td><td>7658</td></tr> <tr><td>2 No</td><td>173</td></tr> <tr><td>Total</td><td>7832</td></tr> <tr><td>Missing .</td><td>3545</td></tr> <tr><td>Total</td><td>11377</td></tr> </table> p406010_g1R -- Country of birth target child <table> <tr><th></th><th>Freq.</th></tr> <tr><td>Valid</td><td></td></tr> <tr><td>-53 Anonymized</td><td>7832</td></tr> <tr><td>Missing .</td><td>3545</td></tr> <tr><td>Total</td><td>11377</td></tr> </table>		Freq.	Valid		-98 Don't know	1	1 Yes	7658	2 No	173	Total	7832	Missing .	3545	Total	11377		Freq.	Valid		-53 Anonymized	7832	Missing .	3545	Total	11377
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3.4 Federal states

Regional locations are usually recoded to different derived variables (see section 2.3). In this example, we focus on the region of the school in Starting Cohort 3 (5th graders). The first derived variable is a binary variable for Western and Eastern Germany (tx80109_g1), present in both SUF-versions (upper left and upper right). The second variable tx80109_g2R, containing the federal states, is only complete in the RemoteNEPS-SUF (lower left), and is purged in the Download-SUF (lower right).

RemoteNEPS

Download

SC3_CohortProfile_R_3-1-0.dta
(NEPS SUF, SC3 3.1.0 (remote); doi:10.5157/NEPS:SC3:3.1.0)

SC3_CohortProfile_D_3-1-0.dta
(NEPS SUF, SC3 3.1.0 (download); doi:10.5157/NEPS:SC3:3.1.0)

tx80109_g1 -- Sample: Federal state school (west/east)

tx80109_g1 -- Sample: Federal state school (west/east)

		Freq.
Valid	-55 Not determinable	458
	1 Western Germany	16299
	2 Eastern Germany incl. Berlin	3784
	Total	20541

		Freq.
Valid	-55 Not determinable	458
	1 Western Germany	16299
	2 Eastern Germany incl. Berlin	3784
	Total	20541

tx80109_g2R -- Sample: Federal state school

tx80109_g2R -- Sample: Federal state school

		Freq.
Valid	-55 Not determinable	458
	1 Schleswig-Holstein	784
	2 Hamburg	377
	3 Lower Saxony	2209
	4 Bremen	158
	5 North Rhine-Westphalia	4398
	6 Hesse	1308
	7 Rhineland-Palatinate	971
	8 Baden-Wuerttemberg	3265
	9 Bavaria	2677
	10 Saarland	152
	11 Berlin (Complete)	404
	12 Brandenburg	1143
	13 Mecklenburg-Western Pomerania	619
	14 Saxony	617
	15 Saxony-Anhalt	401
	16 Thuringia	600
	Total	20541

		Freq.
Valid	-53 Anonymized	20541

3 Examples

3.5 Class size

Sometimes, variables are collected numerical. In the example below, the number of students in class was surveyed from the educator in Starting Cohort 2 (Kindergarten) without any further regulations. Thus, the resulting variable e227400_g1R (lower left) does not have a coding scheme. This variable is aggregated to the variable e227400_g1D containing six different class-sizes (upper left). You find this aggregated version in both SUF-versions, the full numerical variable is purged in the Download-SUF, though (lower right).

RemoteNEPS	Download																																																																																																						
SC2_pEducator_R_3-0-0.dta (NEPS SUF, SC2 3.0.0 (remote); doi:10.5157/NEPS:SC2:3.0.0) e227400_g1D -- Class: number of students, total (coarsed) <table> <tr> <th></th><th>Freq.</th></tr> <tr> <td>Valid -90 Unspecific missing</td><td>10</td></tr> <tr> <td>-54 Missing by design</td><td>1803</td></tr> <tr> <td>1 Below 10</td><td>3</td></tr> <tr> <td>2 10 to 14</td><td>26</td></tr> <tr> <td>3 15 to 19</td><td>203</td></tr> <tr> <td>4 20 to 24</td><td>450</td></tr> <tr> <td>5 25 to 29</td><td>169</td></tr> <tr> <td>6 30 to 34</td><td>4</td></tr> <tr> <td>Total</td><td>2668</td></tr> </table> e227400_g1R -- Class: number of students total <table> <tr> <th></th><th>Freq.</th></tr> <tr> <td>Valid -90 Unspecific missing</td><td>10</td></tr> <tr> <td>-54 Missing by design</td><td>1803</td></tr> <tr> <td>8</td><td>3</td></tr> <tr> <td>10</td><td>1</td></tr> <tr> <td>11</td><td>1</td></tr> <tr> <td>12</td><td>4</td></tr> <tr> <td>13</td><td>8</td></tr> <tr> <td>14</td><td>12</td></tr> <tr> <td>15</td><td>21</td></tr> <tr> <td>16</td><td>22</td></tr> <tr> <td>17</td><td>34</td></tr> <tr> <td>18</td><td>58</td></tr> <tr> <td>19</td><td>68</td></tr> <tr> <td>20</td><td>75</td></tr> <tr> <td>21</td><td>89</td></tr> <tr> <td>22</td><td>98</td></tr> <tr> <td>23</td><td>88</td></tr> <tr> <td>24</td><td>100</td></tr> <tr> <td>25</td><td>83</td></tr> <tr> <td>26</td><td>39</td></tr> <tr> <td>27</td><td>27</td></tr> <tr> <td>28</td><td>14</td></tr> <tr> <td>29</td><td>6</td></tr> <tr> <td>30</td><td>3</td></tr> <tr> <td>31</td><td>1</td></tr> <tr> <td>Total</td><td>2668</td></tr> </table>		Freq.	Valid -90 Unspecific missing	10	-54 Missing by design	1803	1 Below 10	3	2 10 to 14	26	3 15 to 19	203	4 20 to 24	450	5 25 to 29	169	6 30 to 34	4	Total	2668		Freq.	Valid -90 Unspecific missing	10	-54 Missing by design	1803	8	3	10	1	11	1	12	4	13	8	14	12	15	21	16	22	17	34	18	58	19	68	20	75	21	89	22	98	23	88	24	100	25	83	26	39	27	27	28	14	29	6	30	3	31	1	Total	2668	SC2_pEducator_D_3-0-0.dta (NEPS SUF, SC2 3.0.0 (download); doi:10.5157/NEPS:SC2:3.0.0) e227400_g1D -- Class: number of students, total (coarsed) <table> <tr> <th></th><th>Freq.</th></tr> <tr> <td>Valid -90 Unspecific missing</td><td>10</td></tr> <tr> <td>-54 Missing by design</td><td>1803</td></tr> <tr> <td>1 Below 10</td><td>3</td></tr> <tr> <td>2 10 to 14</td><td>26</td></tr> <tr> <td>3 15 to 19</td><td>203</td></tr> <tr> <td>4 20 to 24</td><td>450</td></tr> <tr> <td>5 25 to 29</td><td>169</td></tr> <tr> <td>6 30 to 34</td><td>4</td></tr> <tr> <td>Total</td><td>2668</td></tr> </table> e227400_g1R -- Class: number of students total <table> <tr> <th></th><th>Freq.</th></tr> <tr> <td>Valid -54 Missing by design</td><td>1803</td></tr> <tr> <td>-53 Anonymized</td><td>865</td></tr> <tr> <td>Total</td><td>2668</td></tr> </table>		Freq.	Valid -90 Unspecific missing	10	-54 Missing by design	1803	1 Below 10	3	2 10 to 14	26	3 15 to 19	203	4 20 to 24	450	5 25 to 29	169	6 30 to 34	4	Total	2668		Freq.	Valid -54 Missing by design	1803	-53 Anonymized	865	Total	2668
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A Appendix

A.1 Complete overview

The following table lists all variables which are affected by anonymization methods. For all variables, full information is available OnSite, although for many of them, you already find this complete information in the RemoteNEPS-version. Only for those variables marked with an asterisk, the full information is only present OnSite. For most of the variables, an aggregated or generated version is available, which still transports some information to the Download-version. Please see the previous chapters for more information.

Table 7: Complete overview of all restricted variables

file	variable	label (*only available OnSite)
pEducator	e40002a_g1	Country of origin
pEducator	e40002a_g2	Country of origin (categorized)
pEducator	e40003a_g1	Country of origin parents: 1st reference
pEducator	e40003a_g2	Country of origin parents: 1st reference (categorized)
pEducator	e40003b_g1	Country of origin parents: 2nd reference
pEducator	e40003b_g2	Country of origin parents: 2nd reference (categorized)
pParent	p400010_g1	Country of birth respondent
pParent	p400010_g2	Country of birth abroad respondent (aggregated)
pParent	p400070_g1	Country of birth mother respondent
pParent	p400070_g2	Country of birth mother respondent (aggregated)
pParent	p400090_g1	Country of birth father respondent
pParent	p400090_g2	Country of birth father respondent (aggregated)
pParent	p400500_g3	Group of origin
pParent	p401150_g2	Other citizenship respondent (aggregated)
pParent	p403010_g1	Country of birth abroad partner
pParent	p403010_g2	Country of birth abroad partner (aggregated)
pParent	p403070_g1	Place of birth mother partner
pParent	p403070_g2	Country of birth mother partner (aggregated)
pParent	p403090_g1	Place of birth father partner
pParent	p403090_g2	Country of birth father partner (aggregated)
pParent	p404050_g2	Other citizenship partner (aggregated)
pParent	p406010_g1	Country of birth abroad target child
pParent	p406010_g2	Country of birth abroad target child (aggregated)
pParent	p407050_g2	Citizenship target child (aggregated)
pParent	p407060_g2	Second citizenship target child (aggregated)
pParent	p731842_g1	Country highest educational qualification respondent
pParent	p731842_g2	Country highest educational qualification respondent (categorized)
pParent	p731892_g1	Country highest educational qualification partner
pParent	p731892_g2	Country highest educational qualification partner (categorized)
pTarget	t400000_g1	Country of birth
pTarget	t400000_g2	Country of birth (aggregated)

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)
pTarget	t400500_g3	Group of origin
pTarget	t401152_g2	First citizenship (aggregated)
pTarget	t401153_g2	Second citizenship (aggregated)
pTarget	t731152_g1	Country of birth parent A
pTarget	t731152_g2	Country of birth parent A (aggregated)
pTarget	t731153_g1	Country of birth mother parent A
pTarget	t731153_g2	Country of birth mother parent A (aggregated)
pTarget	t731154_g1	Country of birth father parent A
pTarget	t731154_g2	Country of birth father parent A (aggregated)
pTarget	t731162_g1	Country of birth parent B
pTarget	t731162_g2	Country of birth parent B (aggregated)
pTarget	t731163_g1	Country of birth mother parent B
pTarget	t731163_g2	Country of birth mother parent B (aggregated)
pTarget	t731164_g1	Country of birth father parent B
pTarget	t731164_g2	Country of birth father parent B (aggregated)
pTarget	td00108_g1	School history: country of school
pTarget	td00108_g2	School history: country of school (aggregated)
ParentMethods	px80204	Interview: interview language (realized case)
pCourseClass	e410011_g1	First language/mother tongue Educator (ISO 639.2)
pCourseClass	e410011_g2	First language/mother tongue Educator (aggregated)
pCourseClass	e410021_g1	additional first language/mother tongue Educator (ISO 639.2)
pCourseClass	e410021_g2	additional first language/mother tongue Educator (aggregated)
pParent	p410000_g1	First language/mother tongue child (ISO 639.2)
pParent	p410000_g2	First language/mother tongue child (aggregated)
pParent	p410002_g1	Additional first language/mother tongue child (ISO 639.2)
pParent	p410002_g2	Additional first language/mother tongue child (aggregated)
pTarget	t414000_g1	First mother tongue (ISO 639.2)
pTarget	t414000_g2	First mother tongue (categorized)
pTarget	t414002_g1	Second mother tongue (ISO 639.2)
pTarget	t414002_g2	Second mother tongue (categorized)
pParent	p401150_g1	Other citizenship respondent
pParent	p404050_g1	Other citizenship partner
pParent	p407050_g1	Citizenship target child
pParent	p407060_g1	Second citizenship target child
pTarget	t401152_g1	First citizenship
pTarget	t401153_g1	Second citizenship
CohortProfile	tx82004	List of children/students: German grade previous year's report card *
CohortProfile	tx82005	List of children/students: math grade previous year's report card *
CohortProfile	tx82006	List of children/students: foreign language grade previous year's report card *
ParentMethods	px80411	Problems Contacting (open) *
ParentMethods	px80413	Problems Conducting (open) *
pCourseClass	classname	Name class *
pCourseGerman	classname	Name class *

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)	
pCourseMath	classname	Name class	*
pEducator	e537167	Training: type qualification	*
pEducator	e537168	Training: subject/subject combination	*
pEducator	e53717s	Classes in general: open	*
pEducator	e53718s	Teaching qualification: open	*
pInstitution	h229031	Pedagogical concept open	*
pInstitution	h537167	Training: type qualification	*
pInstitution	h537168	Training: subject /subject combination	*
pParent	p31035h	Idealistic professional aspiration	*
pParent	p401001	Immigration status respondent: other	*
pParent	p403041	Immigration status partner: other	*
pParent	p43202o	Characteristics of external ascription: open	*
pParent	p517611	Membership: other club, open	*
pParent	p731803	Type of highest school-leaving qualification in Germany re- spondent: open	*
pParent	p731814	Type professional qualification in Germany respondent: open	*
pParent	p731815	Educational institution professional qualification in Ger- many respondent: open	*
pParent	p731817	Type tertiary qualification in Germany respondent: open	*
pParent	p731819	Educational institution tertiary qualification in Germany respondent: open	*
pParent	p731843	Country highest educational qualification respondent: open	*
pParent	p731846	Recognized educational qualification respondent: open	*
pParent	p731853	Type of highest school-leaving qualification in Germany partner: open	*
pParent	p731864	Type professional qualification in Germany partner: open	*
pParent	p731865	Educational institution vocational qualification in Ger- many partner: open	*
pParent	p731867	Type tertiary qualification in Germany partner: open	*
pParent	p731869	Educational institution tertiary qualification in Germany partner: open	*
pParent	p731893	Country highest educational qualification partner: partner	*
pParent	p731896	Recognized educational qualification partner: open	*
pParent	pd01014	Pedagogical concept: open	*
pTarget	t27270h	Participation organization: other, open	*
pTarget	t31002a	Idealistic professional aspirations – aspired profession	*
pTarget	t700034	Gender identity: open	*
pTarget	t731156	Profession parent A	*
pTarget	t731157	Occupation parent A	*
pTarget	t73115a	Parent A: open	*
pTarget	t73115h	Educational qualification parent A: open	*
pTarget	t731166	Profession parent B	*
pTarget	t731167	Occupation parent B	*
pTarget	t73116a	Parent B: open	*
pTarget	t73116h	Educational qualification parent B: open	*
pTarget	td00118	School history: type of school open	*
pTarget	td00123	School history: school branch open	*

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)	
pTarget	td00329	School history: type of school open	*
pTarget	td0032a	Type of school currently open	*
pTarget	td0033a	School track currently open	*
pTarget	td00401	Type of school currently open	*
pTarget	td00403	School track currently open	*
pTarget	td00457	Comment on disruptions and problems	*
pTarget	td00462	Problems Contacting (open)	*
pTarget	td00464	Problems Conducting (open)	*
pTarget	td0350b	Class name (CATI regular school)	*
pTarget	td0350d	Class name (CATI special school)	*
pTarget	td0405b	Type of school open	*
CohortProfile	tx80109_g2	Sample: Federal state school	
ParentMethods	px80101	Sample: Federal State	
TargetMethods	tx80101	Sample: federal state	
Weights	stratum_imp1	Implicit stratum (federal state according to sampling frame)	
Weights	stratum_imp2	Implicit stratum (regional classification according to sampling frame)	
Weights	stratum_imp3	Implicit stratum (funding according to sampling frame)	
pTarget	td00112_g2	Municipality of school (federal state)	
pTarget	td00112_g3	Municipality of school (administrative district)	*
pTarget	td00112_g4	Municipality of school (district)	*
pEducator	e229822	Time working in profession: total	
pEducator	e229823	Time working in profession: school	
pEducator	e76212y	Date of birth: year	
pParent	p731911	Number of employees respondent	
pParent	p731961	Number of employees partner	
pParent	pd01017	Type recommendation	
pParent	pd01018	Wish school type	
pCourseClass	e451000	Class: number of students with migrant background	
pCourseClass	e79204a	Social composition of class: education	
pCourseClass	e79204b	Social composition of class: poverty	
pCourseClass	ed1152a	Type of special needs: learning	
pCourseClass	ed1152b	Type of special needs: emotional and social development	
pCourseClass	ed1152c	Type of special need: language	
pCourseClass	ed1152d	Type of special needs: motoric skills	
pCourseClass	ed1152e	Type of special needs: mental development	
pCourseClass	ed1152f	Type of special needs: hearing	
pCourseClass	ed1152g	Type of special needs: vision	
pCourseClass	ed1152h	Type of special needs: autism	
pCourseClass	ed1152i	Type of special needs: LLE	
pCourseClass	ed1152j	Type of special needs: not assigned	
pCourseClass	ed1152k	Type of special needs: unknown	
pEducator	e76212m	Date of birth: month	*
pTarget	td00321	School history: federal state of school	
pTarget	td0032b	Federal state of school	
pInstitution			

A.2 Recoding of countries/languages/nationalities

The following tables summarize the complete recoding procedure of countries and languages/-nationalities. Each category of the aggregated version (bold) is followed by all entries which have been subsumed to it. All entries are sorted according to their numeric code.

Table 8: Complete recoding map of all countries

country	
-23	parent not known
-21	Germany and foreign country, not codeable
-20	Foreign country, but not codeable [9005] Kurdish areas, [9991] German-speaking country abroad, [9992] English-speaking country abroad, [9993] Spanish-speaking country abroad
1	Germany [0] Germany
2	Italy [137] Italy
3	Poland [152] Poland
4	Romania [154] Romania
5	Turkey [163] Turkey
6	Former Yugoslavia [120] Yugoslavia, [122] Bosnia and Herzegovina, [130] Croatia, [131] Slovenia, [132] Serbia and Montenegro, [138] Yugoslavia, Federal Republic of, [140] Montenegro, [144] Macedonia, [150] Kosovo, [170] Serbia
7	Former Soviet Union [127] Estonia, [139] Latvia, [142] Lithuania, [146] Moldova, Republic of, [159] Soviet Union, [160] Russian Federation, [166] Ukraine, [169] Belarus, [422] Armenia, [425] Azerbaijan, [430] Georgia, [444] Kazakhstan, [450] Kyrgyzstan, [470] Tajikistan, [471] Turkmenistan, [477] Uzbekistan
8	Central and South America, Caribbean [320] Antigua and Barbuda, [322] Barbados, [323] Argentina, [324] Bahamas, [326] Bolivia, Plurinational State of, [327] Brazil, [328] Guyana, [330] Belize, [332] Chile, [333] Dominica, [334] Costa Rica, [335] Dominican Republic, [336] Ecuador, [337] El Salvador, [340] Grenada, [345] Guatemala, [346] Haiti, [347] Honduras, [349] Colombia, [351] Cuba, [353] Mexico, [354] Nicaragua, [355] Jamaica, [357] Panama, [359] Paraguay, [361] Peru, [364] Suriname, [365] Uruguay, [366] Saint Lucia, [367] Venezuela, Bolivarian Republic of, [369] Saint Vincent and the Grenadines, [370] Saint Kitts and Nevis, [371] Trinidad and Tobago
9	Northern and Western Europe [124] Belgium, [126] Denmark, [128] Finland, [129] France, [135] Ireland, [136] Iceland, [141] Liechtenstein, [143] Luxembourg, [147] Monaco, [148] Netherlands, [149] Norway, [151] Austria, [157] Sweden, [158] Switzerland, [168] United Kingdom, [193] Norwegian dependent territories in Europe, [195] British dependent territories in Europe, [196] Danish dependent territories in Europe, [295] British dependent territories in Africa, [298] French dependent territories in Africa, [392] Dutch dependent territories in America, [395] British dependent territories in America, [396] Danish dependent territories in America, [398] French dependent territories in America, [495] British dependent territories in Asia, [593] Norwegian dependent territories in Australia, Oceania, Antarctica, [595] British dependent territories in Australia, Oceania, Antarctica, [598] French dependent territories in Australia, Oceania, Antarctica
10	North America

(...)

Table 8: (continued)

	country
	[348] Canada, [368] United States, [391] US dependent territories in America, [591] US dependent territories in Australia, Oceania, Antarctica
11	Oceania/Polynesia [523] Australia, [524] Solomon Islands, [526] Fiji, [527] Cook Islands, [530] Kiribati, [531] Nauru, [532] Vanuatu, [533] Niue, [536] New Zealand, [537] Palau, [538] Papua New Guinea, [540] Tuvalu, [541] Tonga, [543] Samoa, [544] Marshall Islands, [545] Micronesia, Federated States of, [590] New Zealand's dependent territories in Australia, Oceania, Antarctica, [594] Australian dependent territories in Australia, Oceania, Antarctica
12	Other Middle East and North Africa [221] Algeria, [248] Libya, [252] Morocco, [285] Tunisia, [287] Egypt, [421] Yemen, [424] Bahrain, [438] Iraq, [439] Iran, Islamic Republic of, [441] Israel, [445] Jordan, [447] Qatar, [448] Kuwait, [451] Lebanon, [456] Oman, [469] United Arab Emirates, [472] Saudi Arabia, [475] Syrian Arab Republic, [499] other Asia
13	Other Africa [223] Angola, [224] Eritrea, [225] Ethiopia, [226] Lesotho, [227] Botswana, [229] Benin, [230] Djibouti, [231] Côte d'Ivoire, [232] Nigeria, [233] Zimbabwe, [236] Gabon, [237] Gambia, [238] Ghana, [239] Mauritania, [242] Cape Verde, [243] Kenya, [244] Comoros, [245] Congo, [246] Congo, the Democratic Republic of the, [247] Liberia, [249] Madagascar, [251] Mali, [253] Mauritius, [254] Mozambique, [255] Niger, [256] Malawi, [257] Zambia, [258] Burkina Faso, [259] Guinea-Bissau, [261] Guinea, [262] Cameroon, [263] South Africa, [265] Rwanda, [267] Namibia, [268] Sao Tome and Principe, [269] Senegal, [271] Seychelles, [272] Sierra Leone, [273] Somalia, [274] Equatorial Guinea, [276] Sudan, [281] Swaziland, [282] Tanzania, United Republic of, [283] Togo, [284] Chad, [286] Uganda, [289] Central African Republic, [291] Burundi
14	Other Asia [423] Afghanistan, [426] Bhutan, [427] Myanmar, [429] Brunei Darussalam, [431] Sri Lanka, [432] Vietnam, [434] Korea, Democratic People's Republic of, [436] India, [437] Indonesia, [442] Japan, [446] Cambodia, [449] Lao People's Democratic Republic of, [454] Maldives, [457] Mongolia, [458] Nepal, [460] Bangladesh, [461] Pakistan, [462] Philippines, [465] Taiwan, Province of China, [467] Korea, Republic of, [474] Singapore, [476] Thailand, [479] China, [482] Malaysia, [483] Timor-Leste, Democratic Republic of
15	Other Central and Eastern Europe [125] Bulgaria, [155] Slovakia, [162] Czechoslovakia, [164] Czech Republic, [165] Hungary
16	Other Southern Europe [121] Albania, [123] Andorra, [134] Greece, [145] Malta, [153] Portugal, [156] San Marino, [161] Spain, [167] Holy See (Vatican City State), [181] Cyprus, [297] Spanish dependent territories in Africa
17	Other [996] unknown foreign countries

Table 9: Complete recoding map of all languages/nationalities

language/nationality	
1	Arabic [1011801] Arabic
2	Bosnian [1021519] Bosnian
3	Bulgarian [1022112] Bulgarian
4	German [1070518] German, [1140419] Low German; Low Saxon; German, Low; Saxon, Low
5	English [1051407] English
6	French [1061805] French
7	Greek [1071803] Greek, Ancient (to 1453), [1071805] Greek, Modern (1453-)
8	Italian [1092001] Italian
9	Croatian [1081822] Croatian
10	Kurdish [1112118] Kurdish
11	Polish [1161512] Polish
12	Portuguese [1161518] Portuguese
13	Russian [1182119] Russian
14	Romanian [1182113] Romanian; Moldavian; Moldovan
15	Serbian [1191816] Serbian
16	Spanish [1191601] Spanish; Castilian
17	Turkish [1202118] Turkish
18	Vietnamese [1220905] Vietnamese
19	Asian languages [1010305] Achinese, [1011111] Akkadian, [1011803] Official Aramaic (700-300 BCE); Imperial Aramaic (700-300 BCE), [1011913] Assamese, [1012205] Avestan, [1012301] Awadhi, [1020112] Baluchi, [1020114] Balinese, [1020514] Bengali, [1020815] Bhojpuri, [1020908] Bihari languages, [1020911] Bikol, [1021801] Braj, [1022011] Batak languages, [1022101] Buriat, [1022107] Buginese, [1022118] Burmese

(...)

Table 9: (continued)

	language/nationality
	, [1030502] Cebuano, [1030807] Chagatai, [1030809] Chinese, [1030811] Chuukese, [1031303] Chamic languages, [1040125] Land Dayak languages, [1040922] Divehi; Dhivehi; Maldivian, [1041509] Dogri, [1042615] Dzongkha, [1051224] Elamite, [1060912] Filipino; Pilipino, [1070125] Gayo, [1071514] Gondi, [1072110] Gujarati, [1080502] Hebrew, [1080912] Hiligaynon, [1080913] Himachali languages; Western Pahari languages, [1080914] Hindi, [1080920] Hittite, [1081314] Hmong; Mong, [1090201] Iban, [1091215] Iloko, [1091404] Indonesian, [1100122] Javanese, [1101614] Japanese, [1101618] Judeo-Persian, [1101802] Judeo-Arabic, [1110101] Kara-Kalpak, [1110103] Kachin; Jingpho, [1110114] Kannada, [1110118] Karen languages, [1110119] Kashmiri, [1110123] Kawi, [1110126] Kazakh, [1110801] Khasi, [1110813] Central Khmer, [1110815] Khotanese; Sakan, [1110918] Kirghiz; Kyrgyz, [1111511] Konkani, [1111518] Korean, [1111821] Kurukh, [1112113] Kumyk, [1120108] Lahnda, [1120115] Lao, [1120526] Lezghian, [1122119] Lushai, [1130104] Madurese, [1130107] Magahi, [1130109] Maithili, [1130111] Makasar, [1130112] Malayalam, [1130118] Marathi, [1130125] Malay, [1130418] Mandarin, [1130914] Minangkabau, [1131403] Manchu, [1131409] Manipuri, [1131415] Manobo languages, [1131514] Mongolian, [1132114] Munda languages, [1132318] Marwari, [1140516] Nepali, [1140523] Nepal Bhasa; Newari, [1140901] Nias, [1151809] Oriya, [1151919] Ossetian; Ossetic, [1152001] Turkish, Ottoman (1500-1928), [1160107] Pangasinan, [1160113] Pampanga; Kapampangan, [1160114] Panjabi; Punjabi, [1160515] Persian, Old (ca.600-400 B.C.), [1160518] Persian, [1160814] Phoenician, [1161209] Pali, [1161514] Pohnpeian, [1161801] Prakrit languages, [1162119] Pushto; Pashto, [1180110] Rajasthani, [1190108] Yakut, [1190113] Samaritan Aramaic, [1190114] Sanskrit, [1190119] Sasak, [1190120] Santali, [1190512] Selkup, [1190814] Shan, [1190914] Sinhala; Sinhalese, [1191404] Sindhi, [1191507] Sogdian, [1192114] Sundanese, [1192124] Sumerian, [1192503] Classical Syriac, [1200113] Tamil, [1200120] Tatar, [1200512] Telugu, [1200520] Tetum, [1200711] Tajik, [1200712] Tagalog, [1200801] Thai, [1200902] Tibetan, [1202111] Turkmen, [1202522] Tuvinian, [1210701] Ugaritic, [1210907] Uyghur; Uyghur, [1211804] Urdu, [1212602] Uzbek, [1230118] Waray, [1250116] Yapese, [1260801] Zhuang; Chuang
20	African languages [1010118] Afar, [1010308] Acoli, [1010401] Adangme, [1010608] Afrihili, [1010618] Afrikaans, [1011101] Akan, [1011308] Amharic, [1020104] Banda languages, [1020109] Bamileke languages, [1020113] Bambara, [1020119] Basa, [1020510] Beja; Bedawiyet, [1020513] Bemba, [1020518] Berber languages, [1020914] Bini; Edo, [1021420] Bantu (Other), [1031516] Coptic, [1040914] Dinka, [1042101] Duala, [1042521] Dyula, [1050609] Efik, [1050725] Egyptian (Ancient), [1051101] Ekajuk, [1052305] Ewe, [1052315] Ewondo, [1060114] Fang, [1060120] Fanti, [1061514] Fon, [1062112] Fulah, [1070101] Ga, [1070201] Gbaya, [1070526] Geez, [1071802] Grebo, [1080121] Hausa, [1080518] Herero, [1090215] Igbo, [1091015] Ijo languages, [1091405] Indo-European languages, [1110102] Kabyle, [1110113] Kamba, [1110121] Kanuri, [1110911] Kikuyu; Gikuyu, [1110914] Kinyarwanda, [1111302] Kimbundu, [1111514] Kongo, [1111605] Kpelle, [1111815] Kru languages, [1112101] Kuanyama; Kwanyama, [1120113] Lamba, [1120914] Lingala, [1121512] Mongo, [1121526] Lozi, [1122101] Luba-Lulua, [1122102] Luba-Katanga, [1122107] Ganda, [1122114] Lunda, [1122115] Luo (Kenya and Tanzania), [1130114] Mandingo, [1130119] Masai, [1130514] Mende, [1131207] Malagasy, [1131519] Mossi, [1140212] Ndebele, South; South Ndebele, [1140405] Ndebele, North; North Ndebele, [1140415] Ndonga, [1141915] Pedi; Sepedi; Northern Sotho, [1142501] Chichewa; Chewa; Nyanja, [1142513] Nyamwezi, [1142514] Nyankole, [1142515] Nyoro, [1142609] Nzima, [1151813] Oromo, [1182114] Rundi, [1190104] Sandawe, [1190107] Sango, [1190904] Sidamo, [1191201] Slavic languages, [1191401] Shona, [1191411] Soninke, [1191513] Somali, [1191514] Songhai languages, [1191520] Sotho, Southern, [1191818] Serer, [1191923] Swati, [1192111] Sukuma, [1192119] Susu, [1192301] Swahili, [1200513] Timne, [1200907] Tigre, [1200918] Tigrinya, [1200922] Tiv, [1201308] Tamashek, [1201507] Tonga (Nyasa), [1201914] Tswana, [1201915] Tsonga, [1202113] Tumbuka, [1202309] Twi, [1211302] Umbundu, [1220109] Vai, [1220514] Venda, [1230112] Walamo, [1231512] Wolof, [1240815] Xhosa, [1250115] Yao, [1251518] Yoruba, [1260514] Zenaga, [1261404] Zande languages, [1262112] Zulu

(...)

Table 9: (continued)

	language/nationality
21	Other languages [1010211] Abkhazian, [1011202] Albanian, [1011205] Aleut, [1011207] Algonquian languages, [1011407] English, Old (ca.450-1100), [1011601] Apache languages, [1011807] Aragonese, [1011813] Armenian, [1011814] Mapudungun; Mapuche, [1011816] Arapaho, [1011823] Arawak, [1012008] Athapaskan languages, [1012119] Australian languages, [1012201] Avaric, [1012513] Aymara, [1012605] Azerbaijani, [1020111] Bashkir, [1020117] Basque, [1020512] Belarusian, [1020919] Bislama, [1021201] Siksika, [1021805] Breton, [1030104] Caddo, [1030118] Galibi Carib, [1030120] Catalan; Valencian, [1030121] Caucasian languages, [1030801] Chamorro, [1030802] Chibcha, [1030805] Chechen, [1030813] Mari, [1030814] Chinook jargon, [1030815] Choctaw, [1030816] Chipewyan; Dene Suline, [1030818] Cherokee, [1030821] Church Slavonic; Old Slavonic; Church Slavonic; Old Bulgarian; Old Church Slavonic, [1030822] Chuvash, [1030825] Cheyenne, [1031518] Cornish, [1031519] Corsican, [1031605] Creoles and pidgins, English based, [1031805] Cree, [1031816] Creoles and pidgins, [1032605] Czech, [1040111] Dakota, [1040114] Danish, [1040512] Delaware, [1040718] Dogrib, [1042113] Dutch, Middle (ca.1050-1350), [1042120] Dutch; Flemish, [1051413] English, Middle (1100-1500), [1051615] Esperanto, [1051920] Estonian, [1060115] Faroese, [1060910] Fijian, [1060914] Finnish, [1061813] French, Middle (ca.1400-1600), [1061815] French, Old (842-ca.1400), [1061825] Western Frisian, [1062118] Friulian, [1070515] Georgian, [1070912] Gilbertese, [1071201] Gaelic; Scottish Gaelic, [1071205] Irish, [1071207] Galician, [1071222] Manx, [1071308] German, Middle High (ca.1050-1500), [1071508] German, Old High (ca.750-1050), [1071518] Gorontalo, [1071520] Gothic, [1071814] Guarani, [1072309] Gwich'in, [1080109] Haida, [1080120] Haitian; Haitian Creole, [1080123] Hawaiian, [1081315] Hiri Motu, [1082114] Hungarian, [1082116] Hupa, [1090305] Icelandic, [1090415] Ido, [1091121] Inuktitut, [1091205] Interlingue; Occidental, [1091401] Interlingua (International Auxiliary Language Association), [1091611] Inupiaq, [1091815] Iroquoian languages, [1110112] Kalaallisut; Greenlandic, [1111513] Komi, [1111519] Kosraean, [1112120] Kutenai, [1120104] Ladino, [1120120] Latin, [1120122] Latvian, [1120913] Limburgan; Limburger; Limburgish, [1120920] Lithuanian, [1122026] Luxembourgish; Letzeburgesch, [1122109] Luiseno, [1130103] Macedonian, [1130108] Marshallese, [1130115] Maori, [1130701] Irish, Middle (900-1200), [1130903] Mi'kmaq; Micmac, [1131220] Maltese, [1131508] Mohawk, [1132119] Creek, [1132514] Mayan languages, [1140108] Nahuatl languages, [1140121] Nauru, [1140122] Navajo; Navaho, [1140903] Niger-Kordofanian languages, [1140921] Niuean, [1141415] Norwegian Nynorsk; Nynorsk, Norwegian, [1141502] Bokmål, Norwegian; Norwegian Bokmål, [1141514] Norse, Old, [1141518] Norwegian, [1150309] Occitan (post 1500); Provençal, [1151009] Ojibwa, [1151901] Osage, [1152015] Otomian languages, [1160112] Pahlavi, [1160116] Papiamentu, [1160121] Palauan, [1161815] Provençal, Old (to 1500), [1172105] Quechua, [1180116] Rapanui, [1180118] Rarotongan; Cook Islands Maori, [1181508] Romansh, [1181513] Romany, [1190112] Salishan languages, [1190315] Scots, [1190701] Irish, Old (to 900), [1190915] Siouan languages, [1191215] Slovak, [1191222] Slovenian, [1191305] Northern Sami, [1191309] Sami languages, [1191315] Samoan, [1191804] Sardinian, [1192305] Swedish, [1200108] Tahitian, [1200518] Tereno, [1201112] Tokelau, [1201209] Tlingit, [1201514] Tonga (Tonga Islands), [1201609] Tok Pisin, [1201909] Tsimshian, [1202120] Altaic languages, [1202212] Tuvalu, [1211118] Ukrainian, [1221512] Volapük, [1221520] Votic, [1230111] Wakashan languages, [1230119] Washo, [1230512] Welsh, [1230514] Sorbian languages, [1231214] Walloon, [1250904] Yiddish, [1251611] Yupik languages, [1260116] Zapotec, [1262114] Zuni, [1262601] Zaza; Dimili; Dimli; Kirdki; Kirmanjki; Zazaki

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