

Corpus of Resolutions

UN Security Council

(CR-UNSC-Source)

QUALITY ASSURANCE REPORT

Version 2024-05-19



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1 Overview

This report contains information on all automated tests that are run during the dataset compilation process. Many are hard tests (failure means that an error interrupts compilation), but just as many tests require interpretation and a judgment call to determine whether surprising behavior has occurred.

Hard tests are integrated into the final part of target creation functions to act as data quality gateways. Soft tests are run on the final data and their results reported here.

1.1 Load results

```
tar_load(latexdefs)
tar_load(dt.var_codebook)
tar_load(res.no.full)
tar_load(dt.record.final)
tar_load(dt.download.final)
tar_load(pdf_res_ar)
tar_load(pdf_res_en)
tar_load(pdf_res_es)
tar_load(pdf_res_fr)
tar_load(pdf_res_ru)
tar_load(pdf_res_zh)
tar_load(lingstats.summary)
tar_load(langtest)
tar_load(ocrtest)
tar_load(dt.final)
tar_load(igraph_citations)
```

1.2 Count Automated Tests

```
Rfiles <- list.files("functions", pattern = "\\..R$", full.names = TRUE)
code <- unlist(lapply(Rfiles, readLines))
```

1.2.1 Tests

```
sum(stringi::stri_count(regex = "test_that\\(", code))
```

```
## [1] 32
```

1.2.2 Expectations

```
sum(stringi::stri_count(regex = "expect_", code))
```

```
## [1] 86
```

2 Variables

2.1 Number of Variables in Main Dataset

```
length(names(dt.final))
```

```
## [1] 82
```

2.2 Number of Variables in Graph Metadata

```
length(igraph::vertex_attr_names(igraph_citations))
```

```
## [1] 54
```

2.3 Names of Variables in Main Dataset

```
names(dt.final)
```

```
## [1] "body" "call_number"
## [3] "committee_report" "date"
## [5] "doc_id" "doctype"
## [7] "draft" "meeting_no"
## [9] "meeting_record" "related_resource"
## [11] "res_no" "symbol"
## [13] "year" "nchars"
## [15] "npages" "nsentences"
## [17] "ntokens" "ntypes"
## [19] "text" "text_ar"
## [21] "text_draft" "text_es"
## [23] "text_fr" "text_meeting"
## [25] "text_ru" "text_zh"
## [27] "agenda_information" "aggression"
## [29] "chapter6" "chapter7"
## [31] "chapter8" "contains"
## [33] "human_rights" "notes"
## [35] "other_titles" "peace_breach"
## [37] "peace_threat" "self_defence"
## [39] "series" "subjects"
## [41] "summary" "title"
## [43] "topic" "vote_abstention"
## [45] "vote_date" "vote_detail"
## [47] "vote_no" "vote_nonvote"
## [49] "vote_summary" "vote_total"
```

```

## [51] "vote_yes"           "iso_alpha3"
## [53] "iso_name"           "m49_countrycode"
## [55] "m49_region"         "m49_region_intermediate"
## [57] "m49_region_sub"     "url_record"
## [59] "url_record_draft"   "url_record_meeting"
## [61] "url_res_ar"         "url_res_en"
## [63] "url_res_es"         "url_res_fr"
## [65] "url_res_ru"         "url_res_zh"
## [67] "url_draft_ar"       "url_draft_en"
## [69] "url_draft_es"       "url_draft_fr"
## [71] "url_draft_ru"       "url_draft_zh"
## [73] "url_meeting_ar"     "url_meeting_en"
## [75] "url_meeting_es"     "url_meeting_fr"
## [77] "url_meeting_ru"     "url_meeting_zh"
## [79] "doi_concept"        "doi_version"
## [81] "license"            "version"

```

2.4 Names of Variables in Graph Metadata

```
igraph::vertex_attr_names(igraph_citations)
```

```

## [1] "body"                "call_number"
## [3] "committee_report"    "date"
## [5] "doc_id"              "doctype"
## [7] "draft"               "meeting_no"
## [9] "meeting_record"     "related_resource"
## [11] "res_no"              "symbol"
## [13] "year"                "nchars"
## [15] "npages"              "nsentences"
## [17] "ntokens"            "ntypes"
## [19] "agenda_information" "aggression"
## [21] "chapter6"            "chapter7"
## [23] "chapter8"            "contains"
## [25] "human_rights"        "notes"
## [27] "other_titles"        "peace_breach"
## [29] "peace_threat"        "self_defence"
## [31] "series"              "subjects"
## [33] "summary"             "title"
## [35] "topic"               "vote_abstention"
## [37] "vote_date"           "vote_detail"
## [39] "vote_no"             "vote_nonvote"
## [41] "vote_summary"        "vote_total"
## [43] "vote_yes"            "iso_alpha3"
## [45] "iso_name"            "m49_countrycode"
## [47] "m49_region"          "m49_region_intermediate"
## [49] "m49_region_sub"     "doi_concept"
## [51] "doi_version"         "license"
## [53] "version"             "name"

```

2.5 Names of Variables in Main Dataset, but NOT in Graph Metadata

```
setdiff(names(dt.final), igraph::vertex_attr_names(igraph_citations))
```

```
## [1] "text"           "text_ar"        "text_draft"
## [4] "text_es"       "text_fr"        "text_meeting"
## [7] "text_ru"       "text_zh"        "url_record"
## [10] "url_record_draft" "url_record_meeting" "url_res_ar"
## [13] "url_res_en"    "url_res_es"     "url_res_fr"
## [16] "url_res_ru"    "url_res_zh"     "url_draft_ar"
## [19] "url_draft_en"  "url_draft_es"   "url_draft_fr"
## [22] "url_draft_ru"  "url_draft_zh"   "url_meeting_ar"
## [25] "url_meeting_en" "url_meeting_es" "url_meeting_fr"
## [28] "url_meeting_ru" "url_meeting_zh"
```


3 Visualize Pipeline

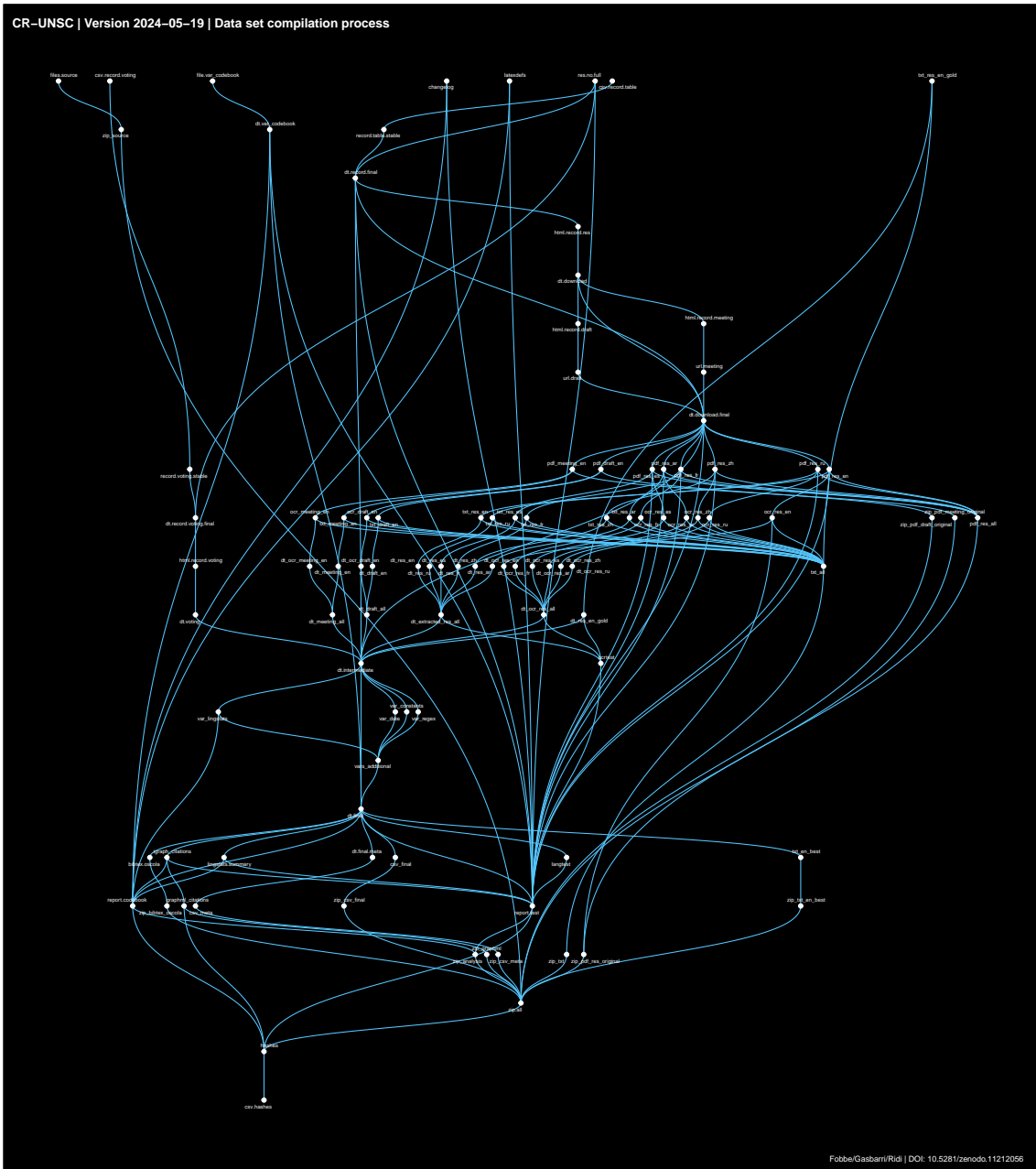
Visualize the data pipeline. This is a glance test. If something is obviously wrong with the data pipeline, the visual will look terrible at a glance.

Also good at showing “dangling” targets that were supposed to be connected to something but were overlooked during development.

```
edgelist <- tar_network(targets_only = TRUE)$edges
setDT(edgelist)

g <- igraph::graph.data.frame(edgelist,
                              directed = TRUE)

ggraph(g,
       'sugiyama') +
  geom_edge_diagonal(colour = "#55c8ff")+
  geom_node_point(size = 2,
                 color = "white")+
  geom_node_text(aes(label = name),
                color = "white",
                size = 2,
                repel = TRUE)+
  theme_void()+
  labs(
    title = paste(prefix.figuretitle,
                  "| Data set compilation process"),
    caption = caption
  )+
  theme(
    plot.title = element_text(size = 14,
                              face = "bold",
                              color = "white"),
    plot.background = element_rect(fill = "black"),
    plot.caption = element_text(color = "white"),
    plot.margin = margin(10, 20, 10, 10)
  )
```



4 Visualize Citation Network

Visualize the citation network. This is a glance test. If something is obviously wrong with the citation network data, the visual will look terrible at a glance.

```
g <- igraph_citations

ggraph(g, "stress", niter = 4000, bbox = 25) +
  geom_edge_diagonal(colour = "#55c8ff", edge_width = 0.1)+
  geom_node_point(size = 0.1,
                  color = "white")+
  theme_void()+
  labs(
    title = paste(prefix.figuretitle,
                  "| The complete UNSC citation network"),
    caption = caption
  )+
  theme(
    plot.title = element_text(size = 14,
                              face = "bold",
                              color = "white"),
    plot.background = element_rect(fill = "black"),
    plot.caption = element_text(color = "white"),
    plot.margin = margin(10, 20, 10, 10)
  )
```

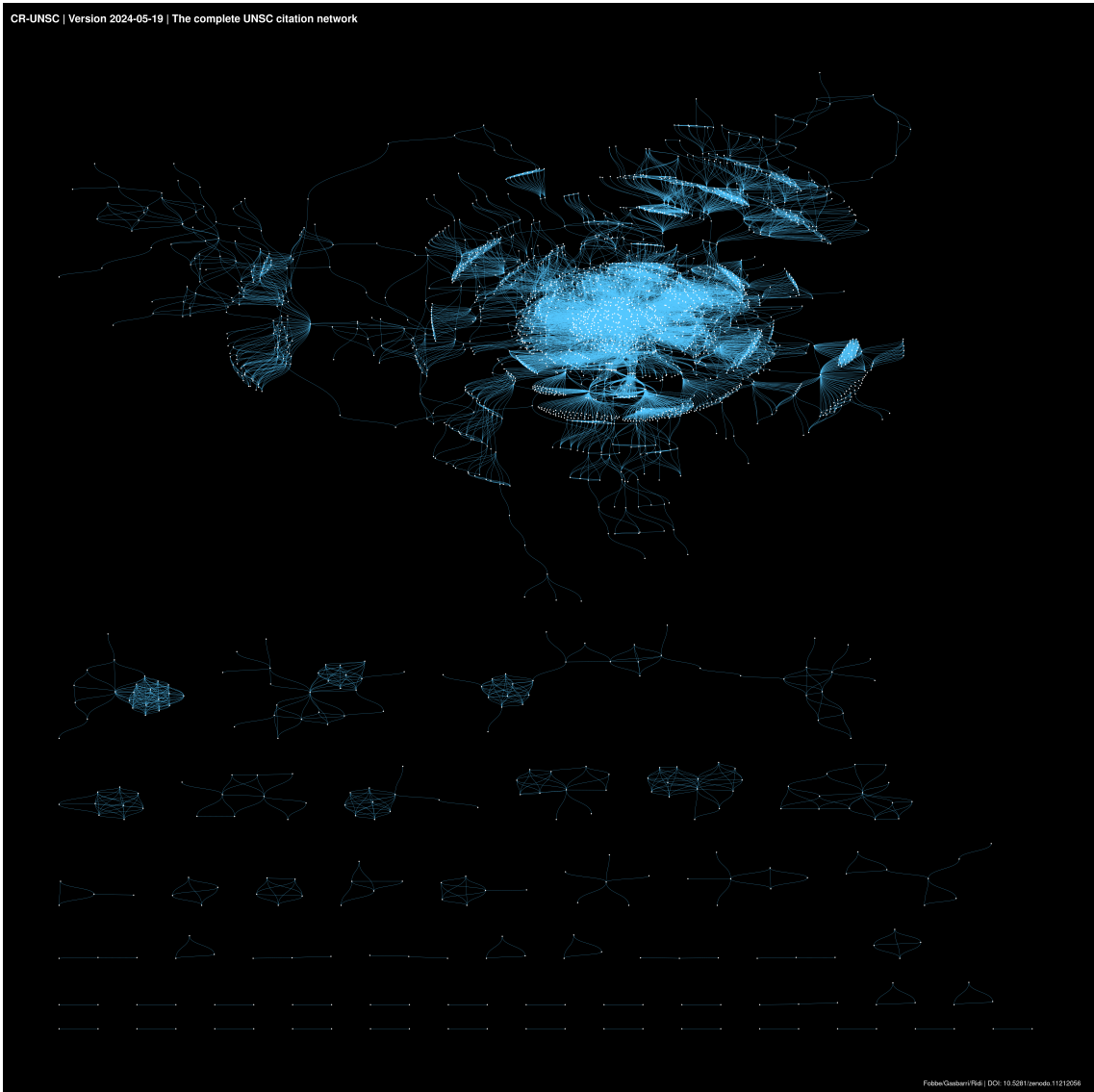


Figure 2: The citation network of the UNSC

5 Completeness

5.1 Completeness of PDF Download

Examines whether all PDF files named in the download manifest have been successfully acquired. If PDF files are missing, it could mean:

- PDF url in manifest is incorrect
- PDF file is not available in the database
- PDF download failed for any reason and several retries could not resolve the issue

```
setdiff(paste0(dt.download.final[!is.na(url_res_ar)]$doc_id, "_AR.pdf"), basename  
(pdf_res_ar))
```

```
## character(0)
```

```
setdiff(paste0(dt.download.final[!is.na(url_res_ar)]$doc_id, "_EN.pdf"), basename  
(pdf_res_en))
```

```
## character(0)
```

```
setdiff(paste0(dt.download.final[!is.na(url_res_ar)]$doc_id, "_ES.pdf"), basename  
(pdf_res_es))
```

```
## character(0)
```

```
setdiff(paste0(dt.download.final[!is.na(url_res_ar)]$doc_id, "_FR.pdf"), basename  
(pdf_res_fr))
```

```
## character(0)
```

```
setdiff(paste0(dt.download.final[!is.na(url_res_ar)]$doc_id, "_RU.pdf"), basename  
(pdf_res_ru))
```

```
## [1] "S_RES_1889_2009_RU.pdf"
```

```
setdiff(paste0(dt.download.final[!is.na(url_res_ar)]$doc_id, "_ZH.pdf"), basename
(pdf_res_zh))
```

```
## [1] "S_RES_1301_2000_ZH.pdf" "S_RES_1314_2000_ZH.pdf"
```

5.2 Completeness of Data Set

Examines whether all resolutions in the manifest have been acquired from at least one language. This is a test of existence, so will not detect missing language versions.

If resolutions are missing in this test, it could mean:

- Something went badly wrong during the download phase
- The UN Digital Library database does not contain the indicated resolutions

```
setdiff(res.no.full, dt.final$res_no)
```

```
## integer(0)
```

6 Missing Values

Reports the number of missing values for each variable in the dataset. Values can be missing for many reasons:

- Never collected and therefore cannot be present in the UN Digital Library database
- Not added to the UN Digital Library database for any other reason
- Error during pipeline processing
- Not being applicable to the record in question (e.g. “contains” variable, which is only applicable to resolutions that contain appended texts, such as court statutes).

The results require some interpretation and deep examination of the data to decide whether missingness is a problem that can be solved with fixing/enhancing the data pipeline or if this needs to be addressed in the UNDL source database.

```
missingvalues <- f.missingvalues(x = dt.final,
                                kable = TRUE,
                                dir.out = dir.analysis,
                                prefix.files = "CR-UNSC_")
```

6.1 Missing Values

var	missing
call_number	2043
committee_report	2710
draft	87
meeting_no	62
meeting_record	61
related_resource	2591
npages	3
text_ar	534
text_draft	97
text_es	4
text_fr	232
text_meeting	228
text_ru	4
text_zh	4
agenda_information	559

(continued)

var	missing
contains	2709
notes	125
series	2721
summary	1315
m49_region	352
m49_region_intermediate	1564
m49_region_sub	352
url_record_draft	89
url_record_meeting	226
url_res_ar	532
url_res_es	2
url_res_fr	231
url_res_ru	3
url_res_zh	4
url_draft_ar	581
url_draft_en	96
url_draft_es	232
url_draft_fr	105
url_draft_ru	165
url_draft_zh	278
url_meeting_ar	662
url_meeting_en	228
url_meeting_es	246
url_meeting_fr	260
url_meeting_ru	236
url_meeting_zh	266

6.2 Present Values

var	present
call_number	679
committee_report	12
draft	2635
meeting_no	2660
meeting_record	2661
related_resource	131
npages	2719
text_ar	2188
text_draft	2625
text_es	2718
text_fr	2490
text_meeting	2494
text_ru	2718
text_zh	2718
agenda_information	2163
contains	13
notes	2597
series	1
summary	1407
m49_region	2370
m49_region_intermediate	1158
m49_region_sub	2370
url_record_draft	2633
url_record_meeting	2496
url_res_ar	2190
url_res_es	2720
url_res_fr	2491
url_res_ru	2719
url_res_zh	2718
url_draft_ar	2141

(continued)

var	present
url_draft_en	2626
url_draft_es	2490
url_draft_fr	2617
url_draft_ru	2557
url_draft_zh	2444
url_meeting_ar	2060
url_meeting_en	2494
url_meeting_es	2476
url_meeting_fr	2462
url_meeting_ru	2486
url_meeting_zh	2456

7 Text Quality Comparison

To compare the text quality of extracted, OCR and gold (expert revised) variants we calculate the number of features (unique tokens) for each language and type of process when run through a standard pre-processing workflow. During pre-processing we remove numbers, punctuation, symbols and separators, lowercase all tokens and remove stopwords in English, French and Spanish.

The resulting number of features determines the quality and speed with which document-feature matrix (or document-term matrix) oriented workflows can proceed. Lower is better.

```
print(ocrtest)
```

```
##      language processing features reduction_abs reduction_rel
## 1:  English  Extracted   28761             0             0.00
## 2:  English      OCR    16495          -12266          -0.43
## 3:  English      Gold     7371          -21390          -0.74
## 4:   French  Extracted   27466             0             0.00
## 5:   French      OCR    13652          -13814          -0.50
## 6: Spanish  Extracted   28547             0             0.00
## 7: Spanish      OCR    15219          -13328          -0.47
```

8 Language Purity Test

This test classifies each element of each text variable with the `{textcat}` package. While each resolution text should be monolingual, the unprocessed nature of most PDFs (multiple resolutions per PDF, multiple languages per PDF) means that the non-English text variables are likely contaminated with superfluous text. The uses they are put to should be carefully considered.

The test does not work well for non-Western languages and scripts, so they have been omitted here.

8.1 English

```
langtest[,.N,keyby = "en_langtest"]
```

```
##   en_langtest    N  
## 1:   english 2722
```

8.2 French

```
langtest[,.N,keyby = "fr_langtest"]
```

```
##   fr_langtest    N  
## 1:      <NA>  234  
## 2:   english   15  
## 3:   french 2473
```

8.3 Spanish

```
langtest[,.N,keyby = "es_langtest"]
```

```
##   es_langtest    N  
## 1:      <NA>    6  
## 2:   english    1  
## 3:   spanish 2715
```

9 Documents with Low Character Count

Documents with low character count indicate potential errors in processing. This could mean:

- Absence of documents in UN Digital Library
- Empty PDF file
- Extraction/OCR failure
- Refining failure

Since the documents in the set are by definition low in character count, they are printed in full to expedite the decision whether they contain unusually low substantive content or indicate data quality issues.

9.1 Arabic

```
dt.final[nchar(dt.final$text_ar) < 200, .(doc_id, text_ar)]
```

```
##                doc_id text_ar
## 1: S_RES_0902_1994_EN_GOLD.txt  \n
```

9.2 English

```
dt.final[nchar(dt.final$text) < 200, .(doc_id, text)]
```

```
##                doc_id
## 1: S_RES_0279_1970_EN_GOLD.txt
##
##                text
## 1: Resolution 279 (1970)\nof 12 May 1970\n\nThe Security Council\n\nDemands
the immediate withdrawal of all Israeli\narmed forces from Lebanese territory
.\n\nAdopted unanimously at the\n1537th meeting.
```

9.3 Spanish

```
dt.final[nchar(dt.final$text_es) < 200, .(doc_id, text_es)]
```

```
##                doc_id                text_es
## 1: S_RES_0902_1994_EN_GOLD.txt              \n
## 2: S_RES_1454_2002_EN_GOLD.txt \n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n
```

9.4 French

```
dt.final[nchar(dt.final$text_fr) < 200, .(doc_id, text_fr)]
```

```
##              doc_id              text_fr
## 1: S_RES_0902_1994_EN_GOLD.txt          \n
## 2: S_RES_1454_2002_EN_GOLD.txt \n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n
```

9.5 Russian

```
dt.final[nchar(dt.final$text_ru) < 200, .(doc_id, text_ru)]
```

```
##              doc_id              text_ru
## 1: S_RES_0902_1994_EN_GOLD.txt          \n
## 2: S_RES_1454_2002_EN_GOLD.txt \n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n
```

9.6 Chinese

```
dt.final[nchar(dt.final$text_zh) < 200, .N]
```

```
## [1] 366
```

10 Frequency Tables

Frequency tables are a quick and easy plausibility check for categorical variables. Unexpected values will show up clearly in this test and a sanity check of the distribution of categories can be conducted from the results.

Frequency tables are calculated only for selected variables, since a large number of unique values in a variable make it a chore to scroll through in a PDF file.

10.1 Selected Variables

```
varnames <- dt.var_codebook[freqtable == 1]$varname
varnames <- gsub("\\\\", "\\", varnames)
print(varnames)
```

```
## [1] "body" "call_number"
## [3] "doctype" "year"
## [5] "aggression" "chapter6"
## [7] "chapter7" "chapter8"
## [9] "human_rights" "peace_breach"
## [11] "peace_threat" "self_defence"
## [13] "series" "vote_abstention"
## [15] "vote_no" "vote_nonvote"
## [17] "vote_total" "vote_yes"
## [19] "m49_region" "m49_region_intermediate"
## [21] "m49_region_sub" "doi_concept"
## [23] "doi_version" "license"
```

```
## Define prefix

prefix <- paste0(config$project$shortname,
                 "_FrequencyTable_var-")
```

10.2 Run Frequency Tables

```
f.fast.freqtable(dt.final,
                 varlist = varnames,
                 sumrow = TRUE,
                 output.list = FALSE,
                 output.kable = TRUE,
                 output.csv = TRUE,
                 outputdir = dir.analysis,
                 prefix = prefix,
                 align = c("p{5cm}",
                          rep("r", 4)))
```

Frequency Table for Variable: body

1 unique value(s) detected.

body	N	roundedpercent	cumulpercent
S	2722	100	100
Total	2722	100	100

Frequency Table for Variable: call_number

2 unique value(s) detected.

call_number	N	roundedpercent	cumulpercent
NA	2043	75.06	75.06
UNS(01)/R3	679	24.94	100.00
Total	2722	100.00	100.00

Frequency Table for Variable: doctype

1 unique value(s) detected.

doctype	N	roundedpercent	cumulpercent
RES	2722	100	100
Total	2722	100	100

Frequency Table for Variable: year

79 unique value(s) detected.

year	N	roundedpercent	cumulpercent
1946	15	0.55	0.55

(continued)

year	N	roundedpercent	cumulpercent
1947	22	0.81	1.36
1948	29	1.07	2.42
1949	12	0.44	2.87
1950	11	0.40	3.27
1951	7	0.26	3.53
1952	2	0.07	3.60
1953	5	0.18	3.78
1954	2	0.07	3.86
1955	5	0.18	4.04
1956	11	0.40	4.45
1957	5	0.18	4.63
1958	5	0.18	4.81
1959	1	0.04	4.85
1960	28	1.03	5.88
1961	10	0.37	6.25
1962	7	0.26	6.50
1963	8	0.29	6.80
1964	14	0.51	7.31
1965	20	0.73	8.05
1966	13	0.48	8.52
1967	12	0.44	8.96
1968	18	0.66	9.63
1969	13	0.48	10.10
1970	16	0.59	10.69
1971	16	0.59	11.28
1972	17	0.62	11.90
1973	20	0.73	12.64
1974	22	0.81	13.45
1975	18	0.66	14.11

(continued)

year	N	roundedpercent	cumulpercent
1976	18	0.66	14.77
1977	20	0.73	15.50
1978	21	0.77	16.27
1979	18	0.66	16.94
1980	23	0.84	17.78
1981	15	0.55	18.33
1982	29	1.07	19.40
1983	17	0.62	20.02
1984	14	0.51	20.54
1985	21	0.77	21.31
1986	13	0.48	21.79
1987	13	0.48	22.26
1988	20	0.73	23.00
1989	20	0.73	23.73
1990	37	1.36	25.09
1991	42	1.54	26.63
1992	74	2.72	29.35
1993	93	3.42	32.77
1994	77	2.83	35.60
1995	66	2.42	38.02
1996	57	2.09	40.12
1997	54	1.98	42.10
1998	73	2.68	44.78
1999	65	2.39	47.17
2000	50	1.84	49.01
2001	52	1.91	50.92
2002	68	2.50	53.42
2003	67	2.46	55.88
2004	59	2.17	58.05

(continued)

year	N	roundedpercent	cumulpercent
2005	71	2.61	60.65
2006	87	3.20	63.85
2007	56	2.06	65.91
2008	65	2.39	68.30
2009	48	1.76	70.06
2010	59	2.17	72.23
2011	66	2.42	74.65
2012	53	1.95	76.60
2013	47	1.73	78.32
2014	63	2.31	80.64
2015	64	2.35	82.99
2016	77	2.83	85.82
2017	61	2.24	88.06
2018	54	1.98	90.04
2019	52	1.91	91.95
2020	57	2.09	94.05
2021	57	2.09	96.14
2022	54	1.98	98.13
2023	50	1.84	99.96
2024	1	0.04	100.00
Total	2722	100.00	100.00

Frequency Table for Variable: aggression

2 unique value(s) detected.

aggression	N	roundedpercent	cumulpercent
FALSE	2684	98.6	98.6
TRUE	38	1.4	100.0

(continued)

aggression	N	roundedpercent	cumulpercent
Total	2722	100.0	100.0

Frequency Table for Variable: chapter6

2 unique value(s) detected.

chapter6	N	roundedpercent	cumulpercent
FALSE	2713	99.67	99.67
TRUE	9	0.33	100.00
Total	2722	100.00	100.00

Frequency Table for Variable: chapter7

2 unique value(s) detected.

chapter7	N	roundedpercent	cumulpercent
FALSE	1826	67.08	67.08
TRUE	896	32.92	100.00
Total	2722	100.00	100.00

Frequency Table for Variable: chapter8

2 unique value(s) detected.

chapter8	N	roundedpercent	cumulpercent
FALSE	2665	97.91	97.91
TRUE	57	2.09	100.00
Total	2722	100.00	100.00

Frequency Table for Variable: human_rights

2 unique value(s) detected.

human_rights	N	roundedpercent	cumulpercent
FALSE	1931	70.94	70.94
TRUE	791	29.06	100.00
Total	2722	100.00	100.00

Frequency Table for Variable: peace_breach

2 unique value(s) detected.

peace_breach	N	roundedpercent	cumulpercent
FALSE	2717	99.82	99.82
TRUE	5	0.18	100.00
Total	2722	100.00	100.00

Frequency Table for Variable: peace_threat

2 unique value(s) detected.

peace_threat	N	roundedpercent	cumulpercent
FALSE	2301	84.53	84.53
TRUE	421	15.47	100.00
Total	2722	100.00	100.00

Frequency Table for Variable: self_defence

2 unique value(s) detected.

self_defence	N	roundedpercent	cumulpercent
FALSE	2631	96.66	96.66
TRUE	91	3.34	100.00
Total	2722	100.00	100.00

Frequency Table for Variable: series

2 unique value(s) detected.

series	N	roundedpercent	cumulpercent
NA	2721	99.96	99.96
Request for an advisory opinion of the International Court of Justice	1	0.04	100.00
Total	2722	100.00	100.00

Frequency Table for Variable: vote_abstention

7 unique value(s) detected.

vote_abstention	N	roundedpercent	cumulpercent
0	2230	81.93	81.93
1	203	7.46	89.38
2	157	5.77	95.15
3	78	2.87	98.02
4	32	1.18	99.19
5	16	0.59	99.78
6	6	0.22	100.00
Total	2722	100.00	100.00

Frequency Table for Variable: vote_no

4 unique value(s) detected.

vote_no	N	roundedpercent	cumulpercent
0	2679	98.42	98.42
1	31	1.14	99.56
2	10	0.37	99.93
3	2	0.07	100.00
Total	2722	100.00	100.00

Frequency Table for Variable: vote_nonvote

5 unique value(s) detected.

vote_nonvote	N	roundedpercent	cumulpercent
0	2658	97.65	97.65
1	24	0.88	98.53
2	1	0.04	98.57
3	1	0.04	98.60
15	38	1.40	100.00
Total	2722	100.00	100.00

Frequency Table for Variable: vote_total

2 unique value(s) detected.

vote_total	N	roundedpercent	cumulpercent
11	219	8.05	8.05
15	2503	91.95	100.00
Total	2722	100.00	100.00

Frequency Table for Variable: vote_yes

10 unique value(s) detected.

vote_yes	N	roundedpercent	cumulpercent
0	38	1.40	1.40
7	13	0.48	1.87
8	23	0.84	2.72
9	49	1.80	4.52
10	55	2.02	6.54
11	133	4.89	11.43
12	58	2.13	13.56
13	124	4.56	18.11
14	169	6.21	24.32
15	2060	75.68	100.00
Total	2722	100.00	100.00

Frequency Table for Variable: m49_region

26 unique value(s) detected.

m49_region	N	roundedpercent	cumulpercent
NA	352	12.93	12.93
Africa	915	33.61	46.55
Africa Americas	11	0.40	46.95
Africa Americas Asia	14	0.51	47.47
Africa Americas Asia Europe	30	1.10	48.57
Africa Americas Asia Europe Oceania	9	0.33	48.90
Africa Americas Europe	26	0.96	49.85
Africa Americas Oceania	1	0.04	49.89
Africa Asia	85	3.12	53.01
Africa Asia Europe	35	1.29	54.30
Africa Asia Europe Oceania	1	0.04	54.34
Africa Europe	100	3.67	58.01

(continued)

m49_region	N	roundedpercent	cumulpercent
Africa Europe Oceania	1	0.04	58.05
Americas	99	3.64	61.68
Americas Asia	36	1.32	63.01
Americas Asia Europe	26	0.96	63.96
Americas Asia Oceania	1	0.04	64.00
Americas Europe	26	0.96	64.95
Americas Europe Oceania	1	0.04	64.99
Asia	604	22.19	87.18
Asia Europe	155	5.69	92.87
Asia Europe Oceania	4	0.15	93.02
Asia Oceania	4	0.15	93.17
Europe	169	6.21	99.38
Europe Oceania	3	0.11	99.49
Oceania	14	0.51	100.00
Total	2722	100.00	100.00

Frequency Table for Variable: m49_region_intermediate

49 unique value(s) detected.

m49_region_intermediate	N	roundedpercent	cumulpercent
NA	1564	57.46	57.46
Caribbean	81	2.98	60.43
Caribbean Central America	1	0.04	60.47
Caribbean Central America Eastern Africa Middle Africa South America Southern Africa	1	0.04	60.51
Caribbean Central America Eastern Africa Middle Africa Western Africa	1	0.04	60.54

(continued)

m49_region_intermediate	N	roundedpercent	cumulpercent
Caribbean Eastern Africa	2	0.07	60.62
Caribbean Eastern Africa Middle Africa South America Southern Africa	1	0.04	60.65
Caribbean Eastern Africa Middle Africa South America Southern Africa Western Africa	3	0.11	60.76
Caribbean Eastern Africa Middle Africa South America Western Africa	1	0.04	60.80
Caribbean Eastern Africa Middle Africa Southern Africa	2	0.07	60.87
Caribbean Eastern Africa Middle Africa Southern Africa Western Africa	1	0.04	60.91
Caribbean Eastern Africa Middle Africa Western Africa	3	0.11	61.02
Caribbean Eastern Africa South America	1	0.04	61.06
Caribbean Eastern Africa South America Western Africa	1	0.04	61.09
Caribbean Eastern Africa Southern Africa Western Africa	2	0.07	61.17
Caribbean Middle Africa	3	0.11	61.28
Caribbean Middle Africa Southern Africa	1	0.04	61.32
Caribbean Middle Africa Southern Africa Western Africa	2	0.07	61.39
Caribbean South America	7	0.26	61.65
Central America	20	0.73	62.38

(continued)

m49_region_intermediate	N	roundedpercent	cumulpercent
Central Africa Eastern Africa	1	0.04	62.42
Central Africa Eastern Africa Middle Africa South America Southern Africa Western Africa	1	0.04	62.45
Central Africa Eastern Africa Middle Africa Western Africa	2	0.07	62.53
Central Africa Eastern Africa South America	1	0.04	62.56
Central Africa Eastern Africa South America Western Africa	2	0.07	62.64
Central America South America	4	0.15	62.78
Central America South America Western Africa	1	0.04	62.82
Eastern Africa	332	12.20	75.02
Eastern Africa Middle Africa	74	2.72	77.74
Eastern Africa Middle Africa South America	3	0.11	77.85
Eastern Africa Middle Africa South America Western Africa	2	0.07	77.92
Eastern Africa Middle Africa Southern Africa	17	0.62	78.55
Eastern Africa Middle Africa Southern Africa Western Africa	2	0.07	78.62
Eastern Africa Middle Africa Western Africa	6	0.22	78.84
Eastern Africa South America Southern Africa	1	0.04	78.88
Eastern Africa Southern Africa	18	0.66	79.54

(continued)

m49_region_intermediate	N	roundedpercent	cumulpercent
Eastern Africa Southern Africa Western Africa	2	0.07	79.61
Eastern Africa Western Africa	14	0.51	80.12
Middle Africa	161	5.91	86.04
Middle Africa South America Southern Africa	1	0.04	86.08
Middle Africa Southern Africa	11	0.40	86.48
Middle Africa Southern Africa Western Africa	2	0.07	86.55
Middle Africa Western Africa	17	0.62	87.18
South America	29	1.07	88.24
South America Southern Africa	1	0.04	88.28
South America Western Africa	2	0.07	88.35
Southern Africa	67	2.46	90.82
Southern Africa Western Africa	6	0.22	91.04
Western Africa	244	8.96	100.00
Total	2722	100.00	100.00

Frequency Table for Variable: m49_region_sub

249 unique value(s) detected.

m49_region_sub	N	roundedpercent	cumulpercent
NA	352	12.93	12.93
Australia and New Zealand	2	0.07	13.01

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Australia and New Zealand Eastern Asia Eastern Europe Latin America and the Caribbean Northern Africa Northern America Northern Europe Southeastern Asia Southern Asia Southern Europe Sub-Saharan Africa Western Asia Western Europe	1	0.04	13.04
Australia and New Zealand Eastern Asia Eastern Europe Latin America and the Caribbean Northern Africa Northern America Northern Europe Southeastern Asia Southern Asia Sub-Saharan Africa Western Asia Western Europe	1	0.04	13.08
Australia and New Zealand Eastern Asia Eastern Europe Latin America and the Caribbean Northern Africa Northern America Northern Europe Southeastern Asia Southern Europe Sub-Saharan Africa Western Asia Western Europe	1	0.04	13.12
Australia and New Zealand Eastern Asia Eastern Europe Latin America and the Caribbean Northern Africa Northern America Northern Europe Southern Asia Southern Europe Sub-Saharan Africa Western Europe	1	0.04	13.15

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Australia and New Zealand Eastern Asia Eastern Europe Latin America and the Caribbean Northern America Northern Europe South-eastern Asia Southern Asia Southern Europe Sub-Saharan Africa Western Asia Western Europe	1	0.04	13.19
Australia and New Zealand Eastern Asia Eastern Europe Latin America and the Caribbean Northern America Northern Europe South-eastern Asia Southern Europe Sub-Saharan Africa Western Asia Western Europe	1	0.04	13.23
Australia and New Zealand Eastern Asia Eastern Europe Northern Europe South-eastern Asia Southern Asia Sub-Saharan Africa Western Asia	1	0.04	13.26
Australia and New Zealand Eastern Asia Northern Europe Southern Asia Southern Europe	1	0.04	13.30
Australia and New Zealand Eastern Europe	1	0.04	13.34
Australia and New Zealand Eastern Europe Latin America and the Caribbean Northern Africa Northern Europe Southern Asia Western Europe	1	0.04	13.37

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Australia and New Zealand Eastern Europe Northern America Northern Europe Western Europe	1	0.04	13.41
Australia and New Zealand Latin America and the Caribbean Northern Africa Sub-Saharan Africa	1	0.04	13.45
Australia and New Zealand Northern Africa Northern Europe Western Europe	1	0.04	13.48
Australia and New Zealand South-eastern Asia	1	0.04	13.52
Australia and New Zealand South-eastern Asia Southern Europe	3	0.11	13.63
Australia and New Zealand Southern Asia	1	0.04	13.67
Australia and New Zealand Southern Europe	2	0.07	13.74
Australia and New Zealand Western Asia	1	0.04	13.78
Central Asia	14	0.51	14.29
Central Asia Eastern Europe Northern Europe Southern Asia Western Asia	1	0.04	14.33
Central Asia Eastern Europe Northern Europe Southern Asia Western Asia Western Europe	1	0.04	14.36
Central Asia Eastern Europe Southern Asia	1	0.04	14.40

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Central Asia Eastern Asia Southern Asia Western Asia	1	0.04	14.44
Central Asia Eastern Europe	1	0.04	14.47
Central Asia Eastern Europe Southern Asia	3	0.11	14.58
Central Asia Eastern Europe Southern Asia Western Asia	2	0.07	14.66
Central Asia Southern Asia	3	0.11	14.77
Central Asia Southern Asia Western Asia	3	0.11	14.88
Central Asia Southern Asia Western Europe	1	0.04	14.92
Eastern Asia	19	0.70	15.61
Eastern Asia Eastern Europe	4	0.15	15.76
Eastern Asia Eastern Europe Latin America and the Caribbean Northern Africa Northern Europe South-eastern Asia Southern Asia Southern Europe Sub-Saharan Africa Western Asia Western Europe	1	0.04	15.80
Eastern Asia Eastern Europe Latin America and the Caribbean Northern Africa Northern Europe South-eastern Asia Southern Asia Southern Europe Sub-Saharan Africa Western Europe	1	0.04	15.83
Eastern Asia Eastern Europe Latin America and the Caribbean Northern Africa South-eastern Asia Western Asia	1	0.04	15.87

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Eastern Asia Eastern Europe Latin America and the Caribbean Northern America Northern Europe South-eastern Asia Southern Asia Western Asia Western Europe	1	0.04	15.91
Eastern Asia Eastern Europe Latin America and the Caribbean Northern America Northern Europe Southern Europe Sub-Saharan Africa Western Europe	3	0.11	16.02
Eastern Asia Eastern Europe Latin America and the Caribbean Northern Europe South-eastern Asia Southern Asia Southern Europe Sub-Saharan Africa Western Asia Western Europe	1	0.04	16.05
Eastern Asia Eastern Europe Latin America and the Caribbean Northern Europe South-eastern Asia Southern Europe Sub-Saharan Africa Western Asia Western Europe	1	0.04	16.09
Eastern Asia Eastern Europe Latin America and the Caribbean Northern Europe Southern Asia Sub-Saharan Africa	1	0.04	16.13
Eastern Asia Eastern Europe Latin America and the Caribbean Northern Europe Southern Asia Sub-Saharan Africa Western Asia	2	0.07	16.20

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Eastern Asia Eastern Europe Latin America and the Caribbean Northern Europe Southern Europe	1	0.04	16.24
Eastern Asia Eastern Europe Northern Africa	1	0.04	16.27
Eastern Asia Eastern Europe Northern Africa Northern America Northern Europe Southeastern Asia Southern Asia Southern Europe Western Asia Western Europe	1	0.04	16.31
Eastern Asia Eastern Europe Northern Africa Southeastern Asia Sub-Saharan Africa Western Asia	1	0.04	16.35
Eastern Asia Eastern Europe Northern Africa Sub-Saharan Africa Western Europe	5	0.18	16.53
Eastern Asia Eastern Europe Northern America Northern Europe Southern Asia Western Europe	1	0.04	16.57
Eastern Asia Eastern Europe Northern America Northern Europe Southern Europe Western Asia Western Europe	1	0.04	16.61
Eastern Asia Eastern Europe Northern America Northern Europe Southern Europe Western Europe	2	0.07	16.68
Eastern Asia Eastern Europe Northern America Northern Europe Western Asia Western Europe	1	0.04	16.72

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Eastern Asia Eastern Europe Northern America Northern Europe Western Europe	1	0.04	16.75
Eastern Asia Eastern Europe Northern America Southern Asia Western Asia	1	0.04	16.79
Eastern Asia Eastern Europe Northern Europe South-eastern Asia Southern Asia Sub-Saharan Africa Western Asia	1	0.04	16.83
Eastern Asia Eastern Europe Northern Europe Southern Asia Southern Europe Western Asia Western Europe	1	0.04	16.86
Eastern Asia Eastern Europe Northern Europe Southern Asia Sub-Saharan Africa Western Asia	3	0.11	16.97
Eastern Asia Eastern Europe Northern Europe Southern Asia Sub-Saharan Africa Western Asia Western Europe	1	0.04	17.01
Eastern Asia Eastern Europe Northern Europe Southern Asia Western Europe	5	0.18	17.19
Eastern Asia Eastern Europe South-eastern Asia Southern Asia Sub-Saharan Africa Western Asia	2	0.07	17.27
Eastern Asia Eastern Europe Southern Asia	1	0.04	17.30

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Eastern Asia Eastern Europe Southern Asia Sub-Saharan Africa	3	0.11	17.41
Eastern Asia Eastern Europe Southern Asia Western Asia	1	0.04	17.45
Eastern Asia Latin America and the Caribbean	2	0.07	17.52
Eastern Asia Latin America and the Caribbean Micronesia Northern America	1	0.04	17.56
Eastern Asia Latin America and the Caribbean Northern Africa	1	0.04	17.60
Eastern Asia Latin America and the Caribbean Northern Africa Northern America	1	0.04	17.63
Eastern Asia Latin America and the Caribbean Northern Africa Southern Europe	1	0.04	17.67
Eastern Asia Latin America and the Caribbean Northern America Northern Europe Southern Europe Sub-Saharan Africa Western Europe	4	0.15	17.82
Eastern Asia Latin America and the Caribbean Northern Europe South-eastern Asia Southern Europe Sub-Saharan Africa Western Asia Western Europe	1	0.04	17.85
Eastern Asia Latin America and the Caribbean Southern Asia Sub-Saharan Africa Western Asia Western Europe	1	0.04	17.89

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Eastern Asia Latin America and the Caribbean Southern Asia Western Asia	1	0.04	17.93
Eastern Asia Latin America and the Caribbean Sub-Saharan Africa	1	0.04	17.96
Eastern Asia Latin America and the Caribbean Western Asia	1	0.04	18.00
Eastern Asia Micronesia	1	0.04	18.04
Eastern Asia Northern Africa	4	0.15	18.19
Eastern Asia Northern Africa Northern America Northern Europe Southern Asia Sub-Saharan Africa Western Europe	1	0.04	18.22
Eastern Asia Northern Africa Northern America Northern Europe Southern Europe Sub-Saharan Africa Western Asia Western Europe	1	0.04	18.26
Eastern Asia Northern Africa Northern America Southern Asia	1	0.04	18.30
Eastern Asia Northern Africa Northern Europe Southern Asia Sub-Saharan Africa	1	0.04	18.33
Eastern Asia Northern Africa Southern Asia	1	0.04	18.37
Eastern Asia Northern Africa Southern Asia Western Asia	1	0.04	18.41
Eastern Asia Northern Africa Sub-Saharan Africa	4	0.15	18.55
Eastern Asia Northern Africa Western Asia	4	0.15	18.70

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Eastern Asia Northern America	1	0.04	18.74
Eastern Asia Northern America Northern Europe South-eastern Asia Western Europe	1	0.04	18.77
Eastern Asia Northern America Northern Europe Southern Asia	1	0.04	18.81
Eastern Asia Northern America Northern Europe Southern Asia Sub-Saharan Africa	1	0.04	18.85
Eastern Asia Northern America Southern Europe Sub-Saharan Africa Western Europe	1	0.04	18.88
Eastern Asia Northern Europe Southern Asia Sub-Saharan Africa	2	0.07	18.96
Eastern Asia Northern Europe Southern Europe Sub-Saharan Africa Western Europe	1	0.04	18.99
Eastern Asia Northern Europe Sub-Saharan Africa	1	0.04	19.03
Eastern Asia Northern Europe Sub-Saharan Africa Western Europe	1	0.04	19.07
Eastern Asia Northern Europe Western Europe	2	0.07	19.14
Eastern Asia South-eastern Asia	3	0.11	19.25
Eastern Asia South-eastern Asia Southern Europe Sub-Saharan Africa	1	0.04	19.29
Eastern Asia Southern Asia	2	0.07	19.36
Eastern Asia Southern Asia Sub-Saharan Africa Western Asia	1	0.04	19.40

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Eastern Asia Southern Asia Western Asia	1	0.04	19.43
Eastern Asia Southern Europe	1	0.04	19.47
Eastern Asia Southern Europe Sub-Saharan Africa	1	0.04	19.51
Eastern Asia Sub-Saharan Africa	5	0.18	19.69
Eastern Africa Western Asia	2	0.07	19.76
Eastern Asia Western Asia	37	1.36	21.12
Eastern Europe	6	0.22	21.34
Eastern Europe Latin America and the Caribbean	1	0.04	21.38
Eastern Europe Latin America and the Caribbean Melanesia Northern Africa Northern Europe Southern Asia Southern Europe Sub-Saharan Africa Western Asia	1	0.04	21.42
Eastern Europe Latin America and the Caribbean Melanesia Northern Europe Southern Asia Sub-Saharan Africa Western Asia	1	0.04	21.45
Eastern Europe Latin America and the Caribbean Northern America	1	0.04	21.49
Eastern Europe Latin America and the Caribbean Northern America Northern Europe Southeastern Asia Southern Asia Southern Europe Sub-Saharan Africa Western Asia Western Europe	1	0.04	21.53

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Eastern Europe Latin America and the Caribbean Northern Europe South-eastern Asia Southern Asia Southern Europe Sub-Saharan Africa Western Asia	1	0.04	21.57
Eastern Europe Latin America and the Caribbean Northern Europe South-eastern Asia Western Europe	1	0.04	21.60
Eastern Europe Latin America and the Caribbean Northern Europe Southern Asia Sub-Saharan Africa Western Europe	1	0.04	21.64
Eastern Europe Latin America and the Caribbean Northern Europe Southern Europe Sub-Saharan Africa Western Europe	1	0.04	21.68
Eastern Europe Latin America and the Caribbean Northern Europe Sub-Saharan Africa Western Europe	1	0.04	21.71
Eastern Europe Latin America and the Caribbean Western Asia	2	0.07	21.79
Eastern Europe Northern Africa Northern America Southern Europe Sub-Saharan Africa	1	0.04	21.82
Eastern Europe Northern Africa Northern Europe Southern Europe Sub-Saharan Africa Western Europe	1	0.04	21.86
Eastern Europe Northern Africa Sub-Saharan Africa Western Europe	1	0.04	21.90

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Eastern Europe Northern Africa Western Asia Western Europe	2	0.07	21.97
Eastern Europe Northern America	1	0.04	22.01
Eastern Europe Northern America Northern Europe Southern Asia Southern Europe Sub-Saharan Africa Western Europe	1	0.04	22.04
Eastern Europe Northern America Northern Europe Southern Europe	2	0.07	22.12
Eastern Europe Northern America Northern Europe Southern Europe Sub-Saharan Africa Western Asia Western Europe	1	0.04	22.15
Eastern Europe Northern America Northern Europe Southern Europe Western Europe	1	0.04	22.19
Eastern Europe Northern America Northern Europe Sub-Saharan Africa Western Europe	1	0.04	22.23
Eastern Europe Northern America Northern Europe Western Europe	1	0.04	22.26
Eastern Europe Northern America Southern Europe	2	0.07	22.34
Eastern Europe Northern America Southern Europe Sub-Saharan Africa	2	0.07	22.41
Eastern Europe Northern America Western Asia	1	0.04	22.45

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Eastern Europe Northern Europe Southern Asia Sub-Saharan Africa Western Asia	1	0.04	22.48
Eastern Europe Northern Europe Southern Europe	1	0.04	22.52
Eastern Europe Northern Europe Southern Europe Western Asia	1	0.04	22.56
Eastern Europe Northern Europe Sub-Saharan Africa	1	0.04	22.59
Eastern Europe South-eastern Asia	1	0.04	22.63
Eastern Europe Southern Asia	1	0.04	22.67
Eastern Europe Southern Asia Sub-Saharan Africa Western Asia	1	0.04	22.70
Eastern Europe Southern Asia Western Asia	1	0.04	22.74
Eastern Europe Southern Asia Western Asia Western Europe	1	0.04	22.78
Eastern Europe Southern Asia Western Europe	1	0.04	22.81
Eastern Europe Southern Europe	7	0.26	23.07
Eastern Europe Southern Europe Western Asia	1	0.04	23.11
Eastern Europe Sub-Saharan Africa Western Europe	1	0.04	23.14
Eastern Europe Western Asia	36	1.32	24.47
Eastern Europe Western Asia Western Europe	2	0.07	24.54
Eastern Europe Western Europe	2	0.07	24.61

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Latin America and the Caribbean	92	3.38	27.99
Latin America and the Caribbean Northern Africa South-eastern Asia Southern Asia	1	0.04	28.03
Latin America and the Caribbean Northern Africa Western Asia Western Europe	1	0.04	28.07
Latin America and the Caribbean Northern America	5	0.18	28.25
Latin America and the Caribbean Northern America Northern Europe Southern Europe Sub-Saharan Africa Western Europe	1	0.04	28.29
Latin America and the Caribbean Northern America Northern Europe Sub-Saharan Africa Western Europe	1	0.04	28.32
Latin America and the Caribbean Northern America Northern Europe Western Asia	2	0.07	28.40
Latin America and the Caribbean Northern America Sub-Saharan Africa Western Asia	1	0.04	28.43
Latin America and the Caribbean Northern America Western Asia	1	0.04	28.47
Latin America and the Caribbean Northern Europe	2	0.07	28.55
Latin America and the Caribbean Northern Europe Sub-Saharan Africa	1	0.04	28.58

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Latin America and the Caribbean Northern Europe Western Asia	2	0.07	28.66
Latin America and the Caribbean Northern Europe Western Asia Western Europe	1	0.04	28.69
Latin America and the Caribbean South-eastern Asia Western Asia Western Europe	1	0.04	28.73
Latin America and the Caribbean Southern Asia Sub-Saharan Africa Western Asia	1	0.04	28.77
Latin America and the Caribbean Southern Asia Western Asia	3	0.11	28.88
Latin America and the Caribbean Southern Europe	4	0.15	29.02
Latin America and the Caribbean Sub-Saharan Africa	6	0.22	29.24
Latin America and the Caribbean Sub-Saharan Africa Western Europe	1	0.04	29.28
Latin America and the Caribbean Western Asia	10	0.37	29.65
Melanesia	3	0.11	29.76
Micronesia	6	0.22	29.98
Northern Africa	146	5.36	35.34
Northern Africa Northern America Northern Europe Sub-Saharan Africa	1	0.04	35.38
Northern Africa Northern America Northern Europe Sub-Saharan Africa Western Europe	1	0.04	35.42

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Northern Africa Northern America Northern Europe Western Europe	2	0.07	35.49
Northern Africa Northern America Sub-Saharan Africa	1	0.04	35.53
Northern Africa Northern America Sub-Saharan Africa Western Europe	1	0.04	35.56
Northern Africa Northern America Western Asia	1	0.04	35.60
Northern Africa Northern Europe Sub-Saharan Africa	1	0.04	35.64
Northern Africa Northern Europe Western Asia	1	0.04	35.67
Northern Africa Northern Europe Western Asia Western Europe	3	0.11	35.78
Northern Africa Northern Europe Western Europe	1	0.04	35.82
Northern Africa Southern Asia Sub-Saharan Africa	1	0.04	35.86
Northern Africa Southern Asia Sub-Saharan Africa Western Asia	1	0.04	35.89
Northern Africa Southern Asia Western Asia	2	0.07	35.97
Northern Africa Southern Asia Western Europe	1	0.04	36.00
Northern Africa Southern Europe	3	0.11	36.11
Northern Africa Sub-Saharan Africa	144	5.29	41.40
Northern Africa Sub-Saharan Africa Western Asia	6	0.22	41.62
Northern Africa Sub-Saharan Africa Western Europe	12	0.44	42.06

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Northern Africa Western Asia	24	0.88	42.95
Northern Africa Western Europe	5	0.18	43.13
Northern America	2	0.07	43.20
Northern America Northern Europe	4	0.15	43.35
Northern America Northern Europe Southern Asia Sub-Saharan Africa Western Asia	1	0.04	43.39
Northern America Northern Europe Southern Europe	1	0.04	43.42
Northern America Northern Europe Southern Europe Sub-Saharan Africa	1	0.04	43.46
Northern America Northern Europe Southern Europe Sub-Saharan Africa Western Europe	2	0.07	43.53
Northern America Northern Europe Southern Europe	2	0.07	43.61
Northern America Northern Europe Sub-Saharan Africa	2	0.07	43.68
Northern America Northern Europe Sub-Saharan Africa Western Europe	3	0.11	43.79
Northern America Northern Europe Western Asia	4	0.15	43.94
Northern America Northern Europe Western Europe	3	0.11	44.05
Northern America Southeastern Asia Western Europe	1	0.04	44.09
Northern America Southern Asia	4	0.15	44.23
Northern America Southern Asia Sub-Saharan Africa	2	0.07	44.31

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Northern America Southern Asia Western Asia	2	0.07	44.38
Northern America Southern Europe	1	0.04	44.42
Northern America Southern Europe Sub-Saharan Africa	1	0.04	44.45
Northern America Sub-Saharan Africa	4	0.15	44.60
Northern Saharan Africa Western Asia	4	0.15	44.75
Northern Saharan Africa Western Europe	2	0.07	44.82
Northern America Western Asia	11	0.40	45.22
Northern Europe	4	0.15	45.37
Northern Europe South-eastern Asia Western Europe	2	0.07	45.44
Northern Europe Southern Asia	3	0.11	45.55
Northern Europe Southern Asia Southern Europe	1	0.04	45.59
Northern Europe Southern Asia Sub-Saharan Africa Western Asia	1	0.04	45.63
Northern Europe Southern Asia Western Asia	2	0.07	45.70
Northern Europe Southern Europe	3	0.11	45.81
Northern Europe Southern Europe Sub-Saharan Africa	2	0.07	45.89
Northern Europe Southern Europe Sub-Saharan Africa Western Europe	5	0.18	46.07

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Northern Europe Southern Europe Western Asia	2	0.07	46.14
Northern Europe Southern Europe Western Europe	1	0.04	46.18
Northern Europe Sub-Saharan Africa	14	0.51	46.69
Northern Europe Sub-Saharan Africa Western Europe	16	0.59	47.28
Northern Europe Western Asia	11	0.40	47.69
Northern Europe Western Asia Western Europe	2	0.07	47.76
Northern Europe Western Europe	1	0.04	47.80
Polynesia	3	0.11	47.91
South-eastern Asia	33	1.21	49.12
South-eastern Asia Southern Asia	1	0.04	49.16
South-eastern Asia Southern Asia Sub-Saharan Africa Western Asia	1	0.04	49.19
South-eastern Asia Southern Europe	5	0.18	49.38
South-eastern Asia Western Europe	3	0.11	49.49
Southern Asia	64	2.35	51.84
Southern Asia Southern Europe Western Asia	1	0.04	51.87
Southern Asia Sub-Saharan Africa	5	0.18	52.06
Southern Asia Sub-Saharan Africa Western Asia	8	0.29	52.35
Southern Asia Western Asia	23	0.84	53.20
Southern Asia Western Asia Western Europe	1	0.04	53.23

(continued)

m49_region_sub	N	roundedpercent	cumulpercent
Southern Europe	128	4.70	57.94
Southern Europe Sub-Saharan Africa	9	0.33	58.27
Southern Europe Sub-Saharan Africa Western Europe	1	0.04	58.30
Southern Europe Western Asia	45	1.65	59.96
Southern Europe Western Asia Western Europe	1	0.04	59.99
Southern Europe Western Europe	8	0.29	60.29
Sub-Saharan Africa	625	22.96	83.25
Sub-Saharan Africa Western Asia	15	0.55	83.80
Sub-Saharan Africa Western Europe	27	0.99	84.79
Western Asia	399	14.66	99.45
Western Asia Western Europe	7	0.26	99.71
Western Europe	8	0.29	100.00
Total	2722	100.00	100.00

Frequency Table for Variable: doi_concept

1 unique value(s) detected.

doi_concept	N	roundedpercent	cumulpercent
10.5281/zenodo.7319780	2722	100	100
Total	2722	100	100

Frequency Table for Variable: doi_version

1 unique value(s) detected.

doi_version	N	roundedpercent	cumulpercent
10.5281/zenodo.11212056	2722	100	100
Total	2722	100	100

Frequency Table for Variable: license

1 unique value(s) detected.

license	N	roundedpercent	cumulpercent
Creative Commons Zero 1.0 Universal	2722	100	100
Total	2722	100	100

```
cat(readLines(tar_read(changelog)),
    sep = "\n")
```

11 Changelog

11.1 Version 2024-05-19

- New variant: EN_TXT_BEST containing a write-out of the English resolution texts equivalent to the CSV file text variable
- New diagrams: bar charts of top M49 regions and sub-regions of countries mentioned in resolution texts
- Fixed naming mix-up of BIBTEX and GRAPHML zip archives
- Fixed whitespace character detection in citation extraction (adds ca. 10% more citations)
- Fixed improper merging of weights in citation network
- Fixed “cannot xtfrm data frames” warning
- Improve REGEX detection for certain geographic entities
- Improve Codebook (headings, citation network docs)

11.2 Version 2024-05-03

- Initial Release

12 Replication Parameters

```
system2("openssl", "version", stdout = TRUE)
```

```
## [1] "OpenSSL 3.0.2 15 Mar 2022 (Library: OpenSSL 3.0.2 15 Mar 2022)"
```

```
sessionInfo()
```

```
## R version 4.2.2 (2022-10-31)
## Platform: x86_64-pc-linux-gnu (64-bit)
## Running under: Ubuntu 22.04.2 LTS
##
## Matrix products: default
## BLAS: /usr/lib/x86_64-linux-gnu/openblas-pthread/libblas.so.3
## LAPACK: /usr/lib/x86_64-linux-gnu/openblas-pthread/libopenblas-p-r0.3.20.so
##
## locale:
## [1] LC_CTYPE=en_US.UTF-8 LC_NUMERIC=C
## [3] LC_TIME=en_US.UTF-8 LC_COLLATE=en_US.UTF-8
## [5] LC_MONETARY=en_US.UTF-8 LC_MESSAGES=en_US.UTF-8
## [7] LC_PAPER=en_US.UTF-8 LC_NAME=C
## [9] LC_ADDRESS=C LC_TELEPHONE=C
## [11] LC_MEASUREMENT=en_US.UTF-8 LC_IDENTIFICATION=C
##
## attached base packages:
## [1] stats graphics grDevices utils datasets methods base
##
## other attached packages:
## [1] data.table_1.14.8 future.apply_1.10.0
## [3] future_1.32.0 textcat_1.0-8
## [5] quanteda.textplots_0.94.2 quanteda.textstats_0.96.1
## [7] quanteda_3.2.4 stringi_1.7.12
## [9] readtext_0.81 pdftools_3.3.3
## [11] RColorBrewer_1.1-3 viridis_0.6.2
## [13] viridisLite_0.4.1 magick_2.7.4
## [15] scales_1.2.1 igraph_1.4.1
## [17] ggraph_2.1.0 ggplot2_3.4.1
## [19] kableExtra_1.3.4 knitr_1.42
## [21] rvest_1.0.3 testthat_3.1.7
## [23] zip_2.2.2 RcppTOML_0.2.2
## [25] tarchetypes_0.7.5 targets_0.14.3
##
## loaded via a namespace (and not attached):
## [1] fs_1.6.1 bit64_4.0.5 webshot_0.5.4
## [4] httr_1.4.5 rprojroot_2.0.3 future.callr_0.8.1
## [7] tools_4.2.2 backports_1.4.1 utf8_1.2.3
## [10] R6_2.5.1 colorspace_2.1-0 withr_2.5.0
## [13] tidyselect_1.2.0 gridExtra_2.3 processx_3.8.0
## [16] bit_4.0.5 compiler_4.2.2 cli_3.6.0
```

```

## [19] humaniformat_0.6.0 xml2_1.3.3 desc_1.4.2
## [22] labeling_0.4.2 stringfish_0.15.7 slam_0.1-50
## [25] callr_3.7.3 askpass_1.1 systemfonts_1.0.4
## [28] stringr_1.5.0 digest_0.6.31 rmarkdown_2.20
## [31] svglite_2.1.1 tau_0.0-24 pkgconfig_2.0.3
## [34] htmltools_0.5.4 parallelly_1.34.0 fastmap_1.1.1
## [37] rlang_1.0.6 rstudioapi_0.14 RApiSerialize_0.1.2
## [40] farver_2.1.1 generics_0.1.3 dplyr_1.1.0
## [43] magrittr_2.0.3 Matrix_1.5-1 waldo_0.4.0
## [46] Rcpp_1.0.10 munsell_0.5.0 fansi_1.0.4
## [49] lifecycle_1.0.3 furrr_0.3.1 yaml_2.3.7
## [52] MASS_7.3-58.1 brio_1.1.3 grid_4.2.2
## [55] parallel_4.2.2 listenv_0.9.0 ggrepel_0.9.3
## [58] lattice_0.20-45 graphlayouts_0.8.4 ps_1.7.2
## [61] pillar_1.8.1 base64url_1.4 pkgload_1.3.2
## [64] codetools_0.2-18 stopwords_2.3 fastmatch_1.1-3
## [67] glue_1.6.2 evaluate_0.20 qpdf_1.3.0
## [70] RcppParallel_5.1.7 vctrs_0.5.2 tweenr_2.0.2
## [73] gtable_0.3.1 purrr_1.0.1 polyclip_1.10-4
## [76] tidyr_1.3.0 bib2df_1.1.1 qs_0.25.5
## [79] xfun_0.37 ggforce_0.4.1 tidygraph_1.2.3
## [82] nsyllable_1.0.1 tibble_3.2.0 tinytex_0.44
## [85] globals_0.16.2

```

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