

Multi study coverage:

Constructs of Cognitive Coverage

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Maelstrom Research offers a suite of methods and software as well as expertise to partners to facilitate data documentation, harmonization and integration.



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The Maelstrom Repository catalogues standardized information about research networks, studies and collected data.



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Learn about our key partnerships with international networks and consortia to harmonize, integrate and analyse study data.

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Networks

The Networks section of our Repository includes study consortia using Maelstrom standards to build study and data catalogues. Using common standards facilitates collaboration and permits search for studies and variables within as well as across these networks.

12 Networks

Studies ▾ Desc. ▾

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Integrative Analysis of Longitudinal Studies of Aging and Dementia

The Integrative Analysis of Longitudinal Studies of Aging and Dementia (IALSA) research network (NIH/NIA P01AG043362) was formally established in 2005 to facilitate interdisciplinary, cross-national research on determinants and dynamics of within-person aging-related changes in cognitive and physical... [Read more](#)

107 Studies

54 Studies with Variables

488,974 Study Variables

Quebec Study Catalogue

The Quebec Study Catalogue is a Maelstrom Research initiative aiming to document and promote the scientific usage of large scale epidemiological studies in Quebec.... [Read more](#)

24 Studies

6 Studies with Variables

26,718 Study Variables

Research Advancement through Cohort Cataloguing and Harmonization

More and more Canadians are affected by chronic diseases such as cancer, cardiovascular disease, chronic obstructive lung disease, diabetes, and mental illnesses. Many of these conditions have their origins in early life (conception, pregnancy, infancy, and childhood).... [Read more](#)

22 Studies

11 Studies with Variables

62,642 Study Variables

Ageing Trajectories of Health: Longitudinal Opportunities and Synergies

The objective of the ATHLOS Project is to achieve a better understanding of ageing by identifying patterns of healthy ageing pathways or trajectories, the

https://www.maelstrom-research.org/mica/repository#/search?type=studies&query=network%28in%28Mica_network.id%2Cialsa%29%29%2Cvariable%28in%28Mica_variable.variableType%2Cstudy%29%29&display=list. [Read more](#)

Networks | Maelstrom

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12


12


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Search

The Maelstrom Research Repository search page allows researchers to browse our epidemiological studies and variables catalogue and helps identify studies collecting variables of interest to support your collaborative research projects. Perform queries such as:

- Compare information collected on cancer, food, alcohol, tobacco or illicit drug intake across studies
- Find Canadian studies collecting biological samples

All ▾ e.g. study name, anxiety, alcohol, cancer, cohort

Filter by: Variables ▾ Scales/Measures ▾ Studies Browse All

Clear IALSA x + Study x

Constructs for cognitive functioning and mental health
Constructs for general health
Constructs for life habits
Constructs for the social domain

List Comparison Table Summary Statistics

Networks 1 Studies 54 Variables 488,974 Download 10 1 2 3 ... 1 - 10 of 54

Acronym	Name	Study Design	Data Sources Available				Participants	Variables	
								Study	DataSchema
ACT	Adult Changes in Thought Study	Cohort	✓	✓	✓	-	4,960 No Limit	850	-
ACTIVE	Advanced Cognitive Training for Independent and Vital Elderly	Clinical trial	✓	-	-	-	2,832	29,524	-
ALSA	Australian Longitudinal Study of Ageing	Cohort	✓	✓	-	-	2,087	12,404	-
Add Health	National Longitudinal Study of Adolescent to Adult Health	Cohort	✓	✓	✓	✓	20,745	11,533	-
CC75C	Cambridge City over-75s Cohort Study	Cohort	✓	✓	✓	✓	2,166	3,349	-
CFAS	Cognitive Function and Ageing Study	Cohort	✓	-	✓	-	25,504	10,367	-
		Cohort	✓	✓	-	-	1,045	8,182	-

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Filter by: Variables ▾ Scales/Measures ▾ Studies Browse All

Constructs for cognitive functioning and mental health

Constructs for cognitive functioning and mental health

Constructs for cognitive functioning and mental health

Constructs for cognitive functioning

Constructs for personality measures

Constructs for emotional distress

Constructs for other psychological measures

Clear

IALSA

Study

List

Comparison Table

Summary Statistics

Networks 1

Studies 54

Variables 488,974

Download

10

1 2 3 ... 1 - 10 of 54

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Data Sources Available

Variables

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Andrew


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Search

Criteria **Constructs for cognitive functioning (Variable)** was added.

The Maelstrom Research Repository search page allows researchers to browse our epidemiological studies and variables catalogue and helps identify studies collecting variables of interest to support your collaborative research projects. Perform queries such as:

- Compare information collected on cancer, food, alcohol, tobacco or illicit drug intake across studies
- Find Canadian studies collecting biological samples

All ▾e.g. study name, anxiety, alcohol, cancer, cohort

Filter by: Variables ▾Scales/Measures ▾StudiesBrowse All

Constructs for cognitive functioning and mental health

Constructs for cognitive functioning and mental health

Constructs for cognitive functioning

Constructs for personality measures

Constructs for emotional distress

Constructs for other psychological measures

Constructs for cognitive functioning

Add to query

Information about tests of cognitive functioning

Modified Mini Mental State

The 5 Objects Test

7 Minutes Screening Test


Addenbrooke's Cognitive Examination Revised


Alphabet Coding Task


Alzheimer's Disease Assessment Scale

Armed Forces Qualification Test

Clear

 IALSA ▾ X

 Study ▾ X

 Constructs for cognitive funct... ▾ X

Advanced

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Secure | https://www.maelstrom-research.org/mica/repository#/search?type=studies&query=network(in(Mica_network.id,ialsa)).variable(or(in()

Search

All ▾ e.g. study name, anxiety, alcohol, cancer, cohort

Filter by: Variables ▾ Scales/Measures ▾ Studies Browse All

Constructs for cognitive functioning and mental health

Constructs for cognitive functioning and mental health

Constructs for cognitive functioning

Constructs for personality measures

Constructs for emotional distress

Constructs for other psychological measures

Constructs for cognitive functioning

Information about tests of cognitive functioning

Modified Mini Mental State

The 5 Objects Test

7 Minutes Screening Test

Addenbrooke's Cognitive Examination Revised

Alphabet Coding Task

Alzheimer's Disease Assessment Scale

Armed Forces Qualification Test

Clear

IALSA ▾

Study ▾

Constructs for cognitive funct... ▾

Advanced

List

Comparison Table

Summary Statistics

Study

DataSchema

Download

Data Collection Event (DCE)

Constructs for cognitive functioning x

	Modified Mini Mental State x	The 5 Objects Test x	7 Minutes Screening Test x	Addenbrooke's Cognitive Examination Revised x	Alphabet Coding Task x	Alzheimer's Disease Assessment Scale x	Armed Forces Qualification Test x	AH4 Group Test of General Intelligence x	Autobiographical Memory Interview x	Abbreviated Mental Test x	Ages and Stages Questionnaire x	Armed Services Vocational Aptitude Battery x	Army Alpha x	British Ability Scales x	Blessed Orientation Memory Concentration Test x
<input type="checkbox"/> ACT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/> ACTIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/> Add Health	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Secure | [https://www.maelstrom-research.org/mica/repository](https://www.maelstrom-research.org/mica/repository#/search?type=studies&query=network(in(Mica_network.id,ialsa)).variable(or(in(I</p><p>Search</p><p>All e.g. study name, anxiety, alcohol, cancer, cohort</p><p>Filter by: Variables Scales/Measures Studies Browse All</p><h3>Constructs for cognitive functioning and mental health</h3><p>Constructs for cognitive functioning and mental health</p><p>Constructs for cognitive functioning</p><p>Information about tests of cognitive functioning</p>Modified Mini Mental StateThe 5 Objects Test7 Minutes Screening TestAddenbrooke's Cognitive Examination RevisedAlphabet Coding TaskAlzheimer's Disease Assessment ScaleArmed Forces Qualification Test<p>Clear IALSA Study Constructs for cognitive funct... Advanced</p><p>List Comparison Table Summary Statistics</p><p>Study DataSchema</p><p>Data Collection Event (DCE)</p><h4>Constructs for cognitive functioning</h4><table><thead><tr><th>Study</th><th>Modified Mini Mental State</th><th>The 5 Objects Test</th><th>7 Minutes Screening Test</th><th>Addenbrooke's Cognitive Examination Revised</th><th>Alphabet Coding Task</th><th>Alzheimer's Disease Assessment Scale</th><th>Armed Forces Qualification Test</th><th>AH4 Group Test of General Intelligence</th><th>Autobiographical Memory Interview</th><th>Abbreviated Mental Test</th><th>Ages and Stages Questionnaire</th><th>Armed Services Vocational Aptitude Battery</th><th>Army Alpha</th><th>British Ability Scales</th><th>Blessed Orientation Memory Concentration Test</th></tr></thead><tbody><tr><td>ACT</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>ACTIVE</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Add Health</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr></tbody></table><p><a href=)



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Organize New folder

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Network
Homegroup

Name	Date modified	Type	Size
coverage-cognitive.csv	2017-07-19 10:10 ...	Microsoft Excel C...	49 KB

File name: coverage-cognitive.csv

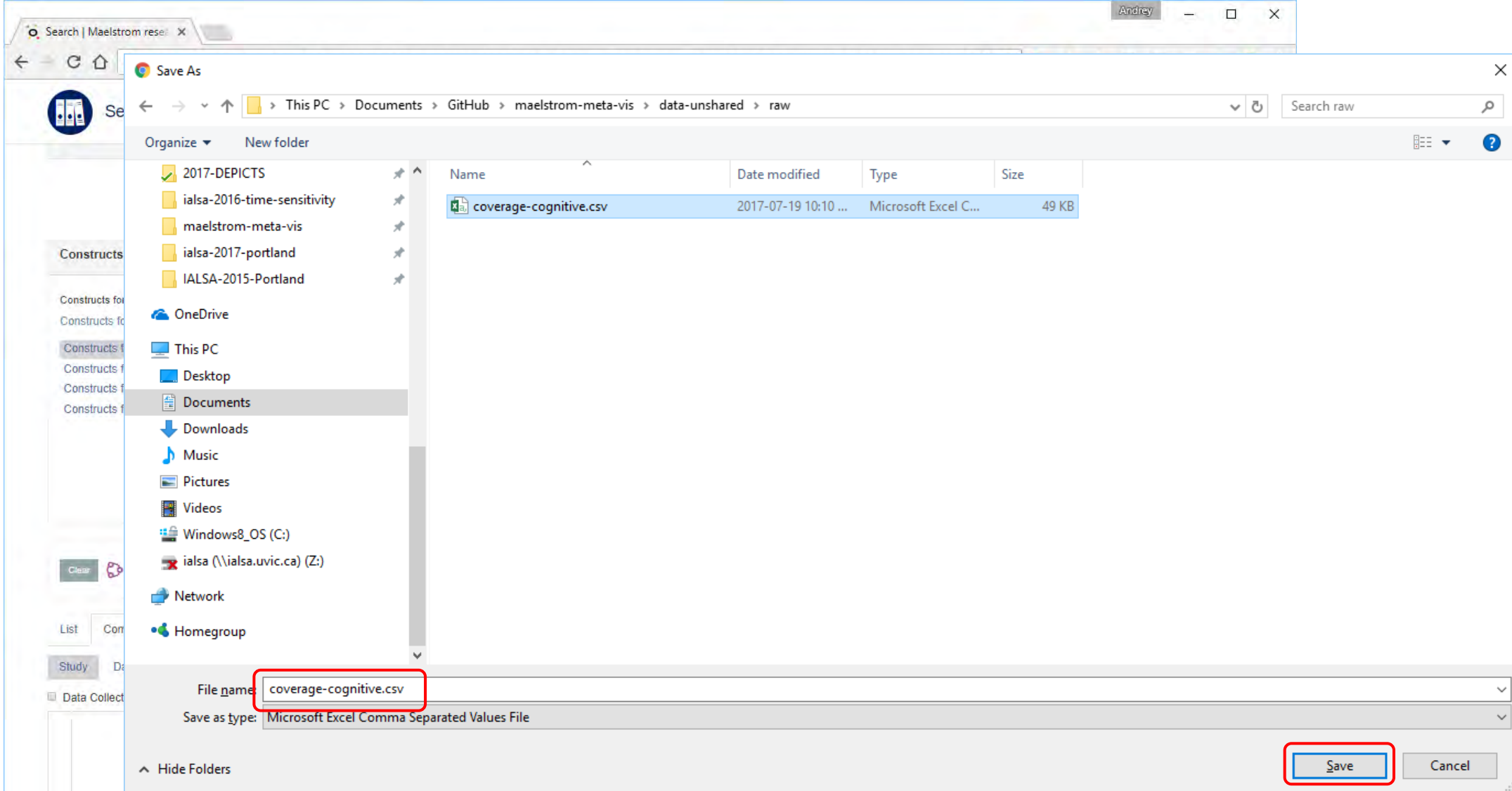
Save as type: Microsoft Excel Comma Separated Values File

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Save Cancel

	Modified Mini Mental State x	The 5 Objects Test x	7 Minutes Screening Test x	Addenbrooke's Cognitive Examination Revised x	Alphabet Coding Task x	Alzheimer's Disease Assessment Scale x	Armed Forces Qualification Test x	AH4 Group Test of General Intelligence x	Autobiographical Memory Interview x	Abbreviated Mental Test x	Ages and Stages Questionnaire x	Armed Services Vocational Aptitude Battery x	Army Alpha x	British Ability Scales x	Blessed Orientation Memory Concentration Test x
Study															
ACT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ACTIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Add Health	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

<https://www.maelstrom-research.org/mica/repository>



	Modified Mini Mental State x	The 5 Objects Test x	7 Minutes Screening Test x	Addenbrooke's Cognitive Examination Revised x	Alphabet Coding Task x	Alzheimer's Disease Assessment Scale x	Armed Forces Qualification Test x	AH4 Group Test of General Intelligence x	Autobiographical Memory Interview x	Abbreviated Mental Test x	Ages and Stages Questionnaire x	Armed Services Vocational Aptitude Battery x	Army Alpha x	British Ability Scales x	Blessed Orientation Memory Concentration Test x
Study															
ACT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ACTIVE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Add Health	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ds x

Filter

	Study	Start	End	Modified Mini Mental State	The 5 Objects Test	7 Minutes Screening Test	Addenbrooke's Cognitive Examination Revised	Alphabet Coding Task	Alzheimer's Disease Assessment Scale	Armed Forces Qualification Test	AH4 Group Test of General Intelligence	Autobiographical Memory Interview	Abbreviated Mental Test	Ages and Stages Questionnaire	Armed Service Vocat Aptitu Batter
1	ACT	NA	NA	0	0	0	0	0	0	0	0	0	0	0	
2	ACTIVE	NA	NA	0	0	0	0	0	0	0	0	0	0	0	
3	Add Health	NA	NA	0	0	0	0	0	0	0	0	0	0	0	
4	ALSA	1992	NA	0	0	0	0	0	0	0	0	0	0	0	
5	CaPS	NA	NA	0	0	0	0	0	0	0	170	0	0	0	
6	CC75C	NA	NA	0	0	0	0	0	0	0	0	0	0	0	
7	CFAS	NA	NA	0	0	0	0	0	0	0	0	0	0	0	
8	CLS	NA	NA	0	0	0	0								
9	CLSA	NA	NA	0	0	0	0								
10	CSHA	1991	2002	444	0	0	0	0	0	0	0	0	0	0	
11	DCS-1905	NA	NA	0	0	0	0	0	0	0	0	0	0	0	
12	DEAS	1996	NA	0	0	0	0	0	0	0	0	0	0	0	
13	DMHDS	NA	NA	0	0	0	0	0	0	0	0	0	0	0	
14	ELSA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	
15	HAS	NA	NA	0	0	0	0	0	0	0	28	0	19	0	
16	HELIAD	NA	NA	0	0	0	0	0	0	0	0	0	0	0	
17	HRS	1992	NA	0	0	0	0	0	0	0	0	0	0	0	
18	HSAD	1938	NA	0	0	0	0	0	0	0	0	0	0	0	

```
ds <- readr::read_csv("../data-unshared/raw/coverage-cognitive.csv", skip = 2) %>%
  tibble::as_tibble()
```

Showing 1 to 19 of 48 entries

ds_long x					
	study	start	end	measure_label	value
1	ACT	NA	NA	Cognitive Abilities Screening Instrument	column 4: character
2	ACTIVE	NA	NA	Backward Counting Test	176
3	ACTIVE	NA	NA	Choice Reaction Time	152
4	ACTIVE	NA	NA	Hopkins Verbal Learning Test	1252
5	ACTIVE	NA	NA	Letter Series Test	412
6	ACTIVE	NA	NA	Letter Sets Test	232
7	ACTIVE	NA	NA	Mini Mental State Exam	844
8	ACTIVE	NA	NA	Rivermead Behavioral Memory Test	92
9	ACTIVE	NA	NA	Rey Auditory Verbal Learning Test	3040
10	ACTIVE	NA	NA	Symbol Digit Modalities Test	5240
11	ACTIVE	NA	NA	Telephone Interview for Cognitive Status	
12	ACTIVE	NA	NA	Useful Field of View Test	
13	ACTIVE	NA	NA	Vocabulary Test	
14	ACTIVE	NA	NA	Word Series	
15	Add Health	NA	NA	Backward Digit Span Task	
16	Add Health	NA	NA	Peabody Picture Vocabulary Test	
17	ALSA	1992	NA	Boston Naming Test	
18	ALSA	1992	NA	Boston Naming Test	
19	ALSA	1992	NA	Clock Drawing Test	
20	ALSA	1992	NA	Metamemory in Adulthood Questionnaire	
21	ALSA	1992	NA	Mini Mental State Exam	
22	ALSA	1992	NA	Memory Impairment Screen	

Showing 1 to 23 of 514 entries

```
ds <- readr::read_csv("./data-unshared/raw/coverage-cognitive.csv", skip = 2) %>%
  tibble::as_tibble()
```

```
# (variables_static <- common_stem_dce)
(variables_static <- common_stem)
variables_dynamic <- setdiff(colnames(ds), variables_static) # 209 items
# tranform from wide with respect to measure to long
ds_long <- ds %>%
  # items_m - how many items does this measure contain?
  tidyr::gather("measure", "items_m", variables_dynamic) %>%
  dplyr::arrange(Study)
# make the names of the variables lowercase for ease of typing
names(ds_long) <- tolower(names(ds_long))
```

```
# augemnt the long file with meta data / attach meta data
ds_long <- ds_long %>%
  dplyr::full_join(ds_meta, by = "measure" ) %>%
  tibble::as_tibble() %>%
  dplyr::filter(!items_m==0) %>%
  dplyr::arrange(study)
```


ds_long x

Filter

	study	start	end	measure_label	value	domain	double	measure_display
1	ACT	NA	NA	Cognitive Abilities Screening Instrument	column 4: character	Mental Status	NA	NA
2	ACTIVE	NA	NA	Backward Counting Test	176	Mental Status	NA	NA
3	ACTIVE	NA	NA	Choice Reaction Time	152	Processing Speed	NA	NA
4	ACTIVE	NA	NA	Hopkins Verbal Learning Test	1252	NA	NA	NA
5	ACTIVE	NA	NA	Letter Series Test	412	Fluid Reasoning	NA	NA
6	ACTIVE	NA	NA	Letter Sets Test	232	Fluid Reasoning	NA	NA
7	ACTIVE	NA	NA	Mini Mental State Exam	844	Mental Status	NA	NA
8	ACTIVE	NA	NA	Rivermead Behavioral Memory Test	92	Memory	NA	NA
9	ACTIVE	NA	NA	Rey Auditory Verbal Learning Test	3040	Memory	NA	NA
10	ACTIVE	NA	NA	Symbol Digit Modalities Test	5240	Processing Speed	NA	NA
11	ACTIVE	NA	NA	Telephone Interview for Cognitive Status				
12	ACTIVE	NA	NA	Useful Field of View Test				
13	ACTIVE	NA	NA	Vocabulary Test				
14	ACTIVE	NA	NA	Word Series				
15	Add Health	NA	NA	Backward Digit Span Task				
16	Add Health	NA	NA	Peabody Picture Vocabulary Test				
17	ALSA	1992	NA	Boston Naming Test	110	Fluency and Naming	NA	NA
18	ALSA	1992	NA	Boston Naming Test	110	Memory	TRUE	NA
19	ALSA	1992	NA	Clock Drawing Test	52	Mental Status	NA	NA
20	ALSA	1992	NA	Metamemory in Adulthood Questionnaire	212	Cognitive Rating	NA	NA
21	ALSA	1992	NA	Mini Mental State Exam	490	Mental Status	NA	NA
22	ALSA	1992	NA	Memory Impairment Screen	96	Mental Status	NA	NA

```
# augemnt the long file with meta data / attach meta data
ds_long <- ds_long %>%
  dplyr::full_join(ds_meta, by = "measure" ) %>%
  tibble::as_tibble() %>%
  dplyr::filter(!items_m==0) %>%
  dplyr::arrange(study)
```

Showing 1 to 23 of 514 entries

	domain	measures_d	studies_d	measure	studies_m	study	measures_s	measures_s_d	items_m
1	Mental Status	24	41	Cognitive Abilities Screening Instrument	1	ACT	1	1	52
2	Mental Status	24	41	Backward Counting Test	5	ACTIVE	13	3	176
3	Processing Speed	15	19	Choice Reaction Time	6	ACTIVE	13	2	152
4	NA	24	19	Hopkins Verbal Learning Test	2	ACTIVE	13	1	1252
5	Fluid Reasoning	17	20	Letter Series Test	1	ACTIVE	13	3	412
6	Fluid Reasoning	17	20	Letter Sets Test	1	ACTIVE	13	3	232
7	Mental Status	24	41	Mini Mental State Exam					
8	Memory	37	34	Rivermead Behavioral Memory Test					
9	Memory	37	34	Rey Auditory Verbal Learning Test					
10	Processing Speed	15	19	Symbol Digit Modalities Test					
11	Mental Status	24	41	Telephone Interview for Cognitive Status					
12	General Ability	15	18	Useful Field of View Test					
13	Comprehension-Knowledge	18	25	Vocabulary Test					
14	Fluid Reasoning	17	20	Word Series					
15	Attention and Working Memory	13	15	Backward Digit Span Task					
16	Comprehension-Knowledge	18	25	Peabody Picture Vocabulary Test					
17	Fluency and Naming	4	25	Boston Naming Test					
18	Memory	37	34	Boston Naming Test					
19	Mental Status	24	41	Clock Drawing Test					
20	Cognitive Rating	8	12	Metamemory in Adulthood Questionnaire					
21	Mental Status	24	41	Mini Mental State Exam					
22	Mental Status	24	41	Memory Impairment Screen					

Showing 1 to 23 of 514 entries

```
d <- ds_long %>%
  # n_studies THAT HAVE THIS MEASURE
  dplyr::group_by(measure) %>%
  dplyr::mutate(studies_m = length(!is.na(study))) %>%
  dplyr::ungroup() %>%
  # n_measures THAT THIS STUDY HAS
  dplyr::group_by(study) %>%
  dplyr::mutate(measures_s = length(!is.na(measure))) %>%
  dplyr::ungroup() %>%
  # n_measures THAT THIS STUDY HAS IN THIS DOMAIN
  dplyr::group_by(study, domain) %>%
  dplyr::mutate(measures_s_d = length(!is.na(measure))) %>%
  dplyr::ungroup() %>%
  dplyr::group_by(domain) %>%
  dplyr::mutate(
    measures_d = length(!is.na(unique(measure)))
    , studies_d = length(!is.na(unique(study)))
  ) %>%
  dplyr::ungroup() %>%
  dplyr::select(
    domain,
    measures_d, studies_d,
    measure, studies_m,
    study, measures_s,
    measures_s_d,
    items_m
  )
```

	domain	measures_d	studies_d	measure	studies_m	study	measures_s	measures_s_d	items_m
1	Mental Status	24	41	Cognitive Abilities Screening Instrument	1	ACT	1	1	52
2	Mental Status	24	41	Backward Counting Test	5	ACTIVE	13	3	176
3	Processing Speed	15	19	Choice Reaction Time	6	ACTIVE	13	2	152
4	NA	24	19	Hopkins Verbal Learning Test	2	ACTIVE	13	1	1252
5	Fluid Reasoning	17	20	Letter Series Test	1	ACTIVE	13	3	412
6	Fluid Reasoning	17	20	Letter Sets Test	1	ACTIVE	13	3	232
7	Mental Status	24	41	Mini Mental State Exam	30	ACTIVE	13	3	844
8	Memory	37	34	Rivermead Behavioral Memory Test	2	ACTIVE	13	2	92
9	Memory	37	34	Rey Auditory Verbal Learning Test	8	ACTIVE	13	2	3040
10	Processing Speed	15	19	Symbol Digit Modalities Test	7	ACTIVE	13	2	5240
11	Mental Status	24	41	Telephone Interview for Cognitive Status	8	ACTIVE	13	3	120
12	General Ability	15	18	Useful Field of View Test	1	ACTIVE	13	1	240
13	Comprehension-Knowledge	18	25	Vocabulary Test	3	ACTIVE	13	1	216
14	Fluid Reasoning	17	20	Word Series	1	ACTIVE	13	3	412
15	Attention and Working Memory	13	15	Backward Digit Span Task	8	Add Health	2	1	14
16	Comprehension-Knowledge	18	25	Peabody Picture Vocabulary Test	1	Add Health	2	1	16
17	Fluency and Naming	4	25	Boston Naming Test	24	ALSA	11	2	110
18	Memory								110
19	Mental Status								52
20	Cognitive Rating								212
21	Mental Status								490
22	Mental Status								96

Each of the computed columns will provide an answer to a specific question:

'measures_d' - how many measures does this domain have?

'studies_d' - how many studies have at least one measure in this domain?

'studies_m' - how many studies have this measure?

'measures_s' - how many measures does this study have?

'measures_s_d' - how many measures does this study have in this domain?

'items_m' - how many items does this measure contain?

Showing 1 to 23 of 514 entries

More at



Browser address bar: <https://github.com/maelstrom-research/maelstrom-meta-vis>

GitHub repository page for [maelstrom-research / maelstrom-meta-vis](#)

Repository statistics: Watch 5, Star 0, Fork 0

Repository tabs: Code, Issues 2, Pull requests 0, Projects 0, Wiki, Settings, Insights

Repository description: Tools for creating information displays for exploring harmonization potential using meta-data from Maelstrom Catalogue

Edit button