Explore the data with manydata: : CHEAT SHEET

manydata is the portal to packages that include many datasets to different domains of global governance. Using the functions in manydata, users can call, compare, and consolidate different datasets and databases across various domains of global governance.

1) Call

call_packages(manypackage, develop)

call_packages() is a quick and easy way to access and install 'many' packages. The function allows users to interactively select the 'develop' branch using the 'develop' argument. Running the function without an argument returns the full list of 'many' packages.



datasets in database TD column • variables and observations database in a 'many' package

Relating datasets: potentially overlapping IDs. overlapping rows/ observations. and overlapping columns/ variables

call_treaties(dataset, treaty_type, variable, actor)

manyID	Title	Begin
TFJXKC_1999O	В	1999-02-28
ECE_2003A	М	2003-07-13
AGEJKL_1947O	Α	1947-09-19
BALTTT_1966O	Т	1966-05-08

<pre>treaty_type = "bilateral", variable = c("Title", "Begin")</pre>	

Use 'treaty type', 'variable', and 'actor' arguments to specify the treaties (bilateral or multilateral), variables, or actors to extract the relevant observations in the dataset.

manyl	D stateID	stateID2	Title	Begin
TFJXKC_1	999O SIN	BRA	В	1999-02-28
BALTTT_1	966O NZL	MEX	Т	1966-05-08

call sources(manypackage, database, dataset, open_script, open_codebook) call_sources() returns a tibble of sources ('Source', 'URL') and renamed variables ('Mapping') for each dataset in a database of a 'many' package.

	Dalasel	Source	UNL	wapping
	Dataset_A	"Name Surname of authors, year, paper title using the data, publisher, place"	http	from - to Label - Title
	Dataset_B	"Name Surname of authors, year, paper title using the data, publisher, place"	http	from - to I Treaty - Title
	Dataset_C	"Name Surname of authors, year, paper title using the data, publisher, place"	http	from - to I Treaty - Title

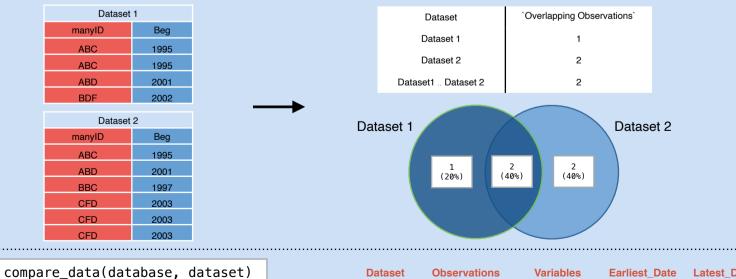
2) Compare

The 'compare_' family of functions facilitates the comparison of observations within and across datasets in a database by various conditions:

- overlapping observations
- missing observations
- in categories ('confirmed', 'majority', 'unique', 'missing', and 'conflict')

Observations are matched by a 'key', usually an 'ID' variable like 'manyID' to facilitate comparison. Each unique state or treaty has a unique stateID or manyID that is the same across datasets. Results of comparisons are returned in a tibble. Each of these comparisons can be visualised using corresponding 'plot' functions.

compare_overlap(database, dataset, key, variable, category) plot overlap(database, dataset, key, variable, category)



compare data() lists the observations, variables, and earliest and latest dates in each dataset in a database.

Dataset	Observations	Variables	Earliest_Date	Latest_Date
Dataset_A	70	15	1873-01-01	2020-12-20
Dataset_B	53	7	1986-03-05	2020-12-20
Dataset_C	96	5	1945-01-01	2022-01-01

3) Consolidate

consolidate(database, rows, cols, resolve, key)

consolidate() allows users to produce a single dataset from different datasets within the database by matching rows and resolving conflicts in data.

Databases are consolidated using 'key', an identifying variable for each row (eq. manyID), to match rows across datasets. Select a method (min, max, median, mean, coalesce, random) to **resolve** conflicts among matched observations across datasets when consolidating.

For 'rows' and 'cols', enter either 'any' to retain all rows/cols or 'every' to retain only rows/cols that appear in all datasets that are being consolidated.

