

Package ‘xSub’

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Title xSub: Cross-National Data on Sub-National Violence

Version 0.0.0.9000

Description ``This package provides tools to download and merge data files from www.x-sub.org.``

URL <https://github.com/zhukovyuri/xSub>

Depends R (>= 3.3.2)

Imports countrycode, haven, RCurl

License GPL-3

Encoding UTF-8

LazyData true

RoxygenNote 6.0.1.9000

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get_xSub	<i>Get xSub file</i>
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Description

This function downloads individual files from www.x-sub.org. Function produces a data.frame, for the user's choice of data source, country, spatial and temporal units, and (optionally) writes this data.frame to disk, in multiple formats.

Usage

```
get_xSub(data_source, country_iso3 = NULL, country_name = NULL, space_unit,  
         time_unit, out_dir = getwd(), write_file = TRUE, write_format = "csv",  
         verbose = FALSE)
```

Arguments

data_source	Name of data source. See info_xSub() for full list.
country_iso3	Country code (ISO3). See info_xSub() for full list.
country_name	Country name. See info_xSub() for full list.
space_unit	Geographic level of analysis. Character string. Can be one of "adm0" (country), "adm1" (province), "adm2" (district), "priogrid" (grid cell), "clea" (electoral constituency). See info_xSub(details=TRUE) for availability by country.
time_unit	Temporal level of analysis. Character string. Can be one of "year", "month", "week", "day". See info_xSub(details=TRUE) for availability by country.
out_dir	Path to directory where files will be saved.
write_file	Logical. If write_file=TRUE, selected file will be written to disk, at location specified by out_dir.
write_format	Output file format. Can be one of "csv" (comma-separated values, default), "R" (RData format, compatible with R statistical programming language), "STATA" (dta format, compatible with Stata 14).
verbose	Logical. When verbose=TRUE, file download progress is printed to console.

See Also

[info_xSub](#), [get_xSub_multi](#)

Examples

```
# Check which countries are available for ACLED
info_xSub(data_source="ACLED")

# Download ACLED data for Egypt, at province-month level
my_file <- get_xSub(data_source = "ACLED", country_iso3 = "EGY",
  space_unit = "adm1", time_unit = "month")

# With country name instead of ISO3 code
my_file <- get_xSub(data_source = "ACLED", country_name = "Egypt",
  space_unit = "adm1", time_unit = "month")
```

get_xSub_multi

Get xSub files for multiple countries

Description

This function downloads and merges mutiple country files from www.x-sub.org. Syntax is similar to get_xSub().

Usage

```
get_xSub_multi(data_source, country_iso3 = NULL, space_unit, time_unit,
  merge_files = TRUE, out_dir = getwd(), write_file = TRUE,
  write_format = "csv", verbose = FALSE)
```

Arguments

data_source	Name of data source. Character string. See <code>info_xSub()</code> for full list.
country_iso3	Country codes (ISO3). Character string or vector. See <code>info_xSub()</code> for full list. If left blank, function will download all available countries for selected data source.
space_unit	Geographic level of analysis. Character string. Can be one of "adm0" (country), "adm1" (province), "adm2" (district), "priogrid" (grid cell), "clea" (electoral constituency). See <code>info_xSub(details=TRUE)</code> for availability by country.
time_unit	Temporal level of analysis. Character string. Can be one of "year", "month", "week", "day". See <code>info_xSub(details=TRUE)</code> for availability by country.
merge_files	Logical. If <code>merge_files=TRUE</code> (default), function will combine individual country files into single data.frame, and write single file to disk. If <code>merge_files=FALSE</code> , function produces a list, and writes individual country files to disk separately.
out_dir	Path to directory where files will be saved. Character string.
write_file	Logical. If <code>write_file=TRUE</code> , selected file will be written to disk, at location specified by <code>out_dir</code> .
write_format	Output file format. Character string. Can be one of "csv" (comma-separated values, default), "R" (RData format, compatible with R statistical programming language), "STATA" (dta format, compatible with Stata 14).
verbose	Logical. When <code>verbose=TRUE</code> , file download progress is printed to console..

See Also

[info_xSub](#), [get_xSub](#)

Examples

```
# Check which countries are available for GED
info_xSub(data_source="GED")

# Example with two countries
my_file <- get_xSub_multi(data_source = "GED", country_iso3 = c("EGY", "AGO"),
  space_unit = "adm1", time_unit = "year")

# Example with all countries (WARNING: this can take a long time to run)
my_file <- get_xSub_multi(data_source = "GED", country_iso3 = NULL,
  space_unit = "adm0", time_unit = "year")
```

info_xSub

Information on available xSub files

Description

This function reports the availability of files on the www.x-sub.org server, and corresponding country codes and units of analysis. For additional info, see www.x-sub.org/about/what-is-xsub.

Usage

```
info_xSub(details = FALSE, data_source = NULL, country_iso3 = NULL,  
          country_name = NULL)
```

Arguments

details	Logical. If details=TRUE, function returns information on available units of analysis for each country.
data_source	Subset results by data sources. Character string or vector.
country_iso3	Subset results by country codes (ISO3). Character string or vector.
country_name	Subset results by country name. Character string or vector.

See Also

[get_xSub](#), [get_xSub_multi](#)

Examples

```
# General info on data sources and countries  
info_xSub()  
  
# Available files for Pakistan  
info_xSub(country_name = "Pakistan")  
  
# Detailed info for Pakistan  
info_xSub(details=TRUE, country_name = "Pakistan")  
  
# Available files for SCAD data source  
info_xSub(data_source = "SCAD")
```

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