Package ‘csdata’

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Title Structural Data for Norway

Version 2023.5.22

Description Datasets relating to population in municipalities, municipality/county matching, and how different municipalities have merged/redistricted over time from 2006 to 2020.


BugReports https://github.com/csids/csdata/issues

Depends R (>= 3.5.0)

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Encoding UTF-8

Imports data.table, stats, utils

Suggests testthat, broom, crayon, dplyr, forcats, fs, geojsonio, ggplot2, glue, gt, knitr, lubridate, magrittr, mapproj, methods, ncdf4, purrr, readxl, reshape2, rgeos, rmarkdown, rmapshaper, rstudioapi, stringr, sp, sf, tidyrr, zoo

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Repository CRAN

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add_granularity_geo_to_data_set

Adds granularity_geo to a given data set

Description

Adds granularity_geo to a given data set

Usage

add_granularity_geo_to_data_set(x, location_reference = NULL)

Arguments

x
A data.table containing a column called "location_code".

location_reference
A location reference data.table.

Value

A data.table containing an extra column called "granularity_geo".

Examples

library(data.table)
data <- data.table(location_code = c("norge", "county03", "blah"))
csdata::add_granularity_geo_to_data_set(data)
print(data)

library(data.table)
data <- data.table(location_code = c("norge", "county03", "blah"))
csdata::add_granularity_geo_to_data_set(data, location_reference = csdata::nor_locations_names())
print(data)
add_iso3_to_data_set

Description

Add iso3 to a given data set

Usage

add_iso3_to_data_set(x)

Arguments

x A data.table containing a column called "location_code".

Value

A data.table containing an extra column called "iso3".

Examples

library(data.table)
data <- data.table(location_code = c("norge", "county03", "blah"))csdata::add_iso3_to_data_set(data)print(data)

config

An environment containing configuration variables

Description

Available configuration variables:

- border_nor (default 2024): The year in which Norwegian geographical boundaries were designated. Valid values: 2020, 2024.

Usage

config

Format

An object of class environment of length 1.
location_code_to_granularity_geo

Convert location_code to granularity_geo

Description
Convert location_code to granularity_geo

Usage
location_code_to_granularity_geo(x, location_reference = NULL)

Arguments
x
Either a vector, or a data.frame/data.table containing a column called "location_code".

location_reference
A location reference data.table.

Value
Character vector the same length as x, containing the corresponding granularity_geo.

Examples
csdata::location_code_to_granularity_geo(c("nation_nor", "county_nor03"))

location_code_to_iso3
Convert location_code to iso3

Description
Convert location_code to iso3

Usage
location_code_to_iso3(x)
Arguments

x       Either a vector, or a data.frame/data.table containing a column called "location_code".

Value

Character vector the same length as x, containing the corresponding iso3.

Examples

csdata::location_code_to_iso3(c("nation_nor", "county_nor03"))

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nb          Norwegian characters in unicode

Description

Norwegian characters in unicode

Usage

nb

Format

An object of class list of length 6.

Examples

print(csdata::nb)

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nor_locations_hierarchy_from_to

Location hierarchies in Norway

Description

Calculates the relationship between different locations in Norway, according to geographic granularity. For example, which municipalities are inside which counties.

Usage

nor_locations_hierarchy_from_to(
    from,
    to,
    include_to_name = FALSE,
    border = csdata::config$border_nor
)
Arguments

from  wardoslo, wardbergen, wardtrondheim, wardstavanger, municip, baregion, county, region, mtregion, notmainlandmunicip, notmainlandcounty, missingmunicip, missingcounty

to  wardoslo, wardbergen, wardtrondheim, wardstavanger, municip, baregion, county, region, mtregion, notmainlandmunicip, notmainlandcounty, missingmunicip, missingcounty

include_to_name  Do you want to include the name of the 'to' location?

border  The year in which Norwegian geographical boundaries were designated (2020, 2024).

Value

Data.table containing the columns:

• from_code
• to_code
• to_name (if include_to_name==TRUE)

Examples

csdata::nor_locations_hierarchy_from_to(from="wardoslo", to="county")
csdata::nor_locations_hierarchy_from_to(from="municip", to="baregion")

nor_locations_names  All names in Norway

Description

All names in Norway

Usage

nor_locations_names(border = csdata::config$border_nor)

Arguments

border  The year in which Norwegian geographical boundaries were designated (2020, 2024).
nor_locations_redistricting

Value

- **location_code**  Location code.
- **location_name**  Location name.
- **location_name_description_nb**  Location name with additional description.
- **location_name_file_nb_utf**  Location name that should be used in file names, with Norwegian characters.
- **location_name_file_nb_ascii**  Location name that should be used in file names, without Norwegian characters.
- **location_order**  The preferred presentation order.
- **granularity_geo**  nation, county, municip, wardoslo, wardbergen, wardstavanger, wardtrondheim, baregion, lab.

Source

https://no.wikipedia.org/wiki/Liste_over_norske_kommunenummer

Examples

nor_locations_names()

nor_locations_redistricting

*All redistricting in Norway*

Description

This function returns a dataset that is used to transfer "original" datasets to the 2020 or 2024 borders.

Usage

nor_locations_redistricting(border = csdata::config$border_nor)

Arguments

- **border**  The year in which Norwegian geographical boundaries were designated (2020, 2024).

Value

- **location_code_current**  The location code per today.
- **location_code_original**  The location code as of "calyear".
- **calyear**  The year corresponding to "county_code_original".
- **weighting**  The weighting that needs to be applied.
- **granularity_geo**  nation, county, municip, wardbergen, wardoslo, wardstavanger, wardtrondheim, missingwardbergen, missingwardoslo, missingwardstavanger, missingwardtrondheim, notmainlandcounty, notmainlandmunicip, missingcounty
Examples

csdata::nor_locations_redistricting()

nor_population_by_age_cats

Population in Norway by categories

Description

A function that easily categorizes the Norwegian population into different age categories.

Usage

nor_population_by_age_cats(
cats = NULL,
include_total = TRUE,
include_9999 = FALSE,
border = csdata::config$border_nor
)

Arguments

cats A list containing vectors that you want to categorize.
include_total Boolean. Should 'total' be included as an age cat?
include_9999 Boolean. Should the current year is duplicated and added as "calyear==9999". This is in accordance with the cstidy principles regarding granularity_time="event_".
border The year in which Norwegian geographical boundaries were designated (2020, 2024).

Value

A data.table containing the following columns:

- granularity_geo
- location_code
- age (as specified in the argument "cats")
- sex ("total")
- calyear
- pop_jan1_n
- imputed

Examples

nor_population_by_age_cats(cats = list(c(1:10), c(11:20)))
nor_population_by_age_cats(cats = list("one to ten" = c(1:10), "eleven to twenty" = c(11:20)))
nor_population_by_age_cats(cats = list(c(1:10), c(11:20), "021p"=c(21:200)))
Description
Swedish characters in unicode

Usage
set_config

Format
An object of class list of length 4.

Examples
print(csdata::se)

Description
Set options in the package config

Usage
set_config(border_nor = NULL)

Arguments
border_nor The year in which Norwegian geographical boundaries were designated. Valid values: 2020, 2024.

Value
Nothing. Side effect of setting the config environment.
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