Package ‘csdata’

April 26, 2024

Title  Structural Data for Norway
Version  2024.4.26
Description  Datasets relating to population in municipalities, municipality/county matching, and how different municipalities have merged/redistricted over time from 2006 to 2024.

BugReports  https://github.com/csids/csdata/issues
Depends  R (>= 3.5.0)
License  MIT + file LICENSE
Encoding  UTF-8
Imports  data.table, stats, utils
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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  Adds iso3 to a given data set

Description

Adds 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.
Examples

```r
print(ls(csdata::config))
for(i in names(csdata::config)){
  cat(i, ":", csdata::config[[i]], "\n")
}
```

---

```r
location_code_to_granularity_geo
  Convert location_code to granularity_geo
```

Description

Convert location_code to granularity_geo

Usage

```r
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

```r
csdata::location_code_to_granularity_geo(c("nation_nor", "county_nor03"))
```

---

```r
location_code_to_iso3  Convert location_code to iso3
```

Description

Convert location_code to iso3

Usage

```r
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"))

---

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)

---

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
)
nor_locations_names

Arguments

from  wardoslo, wardbergen, wardtrondheim, wardstavanger, municip, baregion, county, georegion, mregion, notmainlandmunicip, notmainlandcounty, missingmunicip, missingcounty

to  wardoslo, wardbergen, wardtrondheim, wardstavanger, municip, baregion, county, georegion, mregion, 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).
Value

- **location_code** Location code.
- **location_name** Location name.
- **location_name_short** 3 letter location name for nation and county. A shorter location name for wardoslo and extrawardoslo.
- **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, municp, 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).
nor_population_by_age_cats

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, notmain-
                 landcounty, 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

```r
## Not run:
nor_population_by_age_cats(cats = list(c(1:10), c(11:20)))
## End(Not run)
```

---

se  

Swedish characters in unicode

Description

Swedish characters in unicode

Usage

se

Format

An object of class list of length 4.

Examples

```r
print(csdata::se)
```
set_config

Set options in the package config

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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