

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.

URL <https://www.csids.no/csdata/>, <https://github.com/csids/csdata>

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

Depends R (>= 3.5.0)

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Encoding UTF-8

Imports data.table, stats, utils

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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 *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

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

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"))
```

nb	<i>Norwegian characters in unicode</i>
----	--

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	<i>Location hierarchies in Norway</i>
---------------------------------	---------------------------------------

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, mregion, notmainlandmunicip, notmainlandcounty, missingmunicip, missingcounty
to	wardoslo, wardbergen, wardtrondheim, wardstavanger, municip, baregion, county, region, 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_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 cstudy 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)))
```

se	<i>Swedish characters in unicode</i>
----	--------------------------------------

Description

Swedish characters in unicode

Usage

```
se
```

Format

An object of class `list` of length 4.

Examples

```
print(csdata::se)
```

set_config	<i>Set options in the package config</i>
------------	--

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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