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.
<pre>URL https://www.csids.no/csdata/, https://github.com/csids/csdata</pre>
<pre>BugReports https://github.com/csids/csdata/issues</pre>
Depends R ($>= 3.5.0$)
License MIT + file LICENSE
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, rmarkdown, rmapshaper, rstudioapi, stringr, sp, sf, tidyr, zoo
RoxygenNote 7.2.3
VignetteBuilder knitr
Date/Publication 2024-04-26 17:00:06 UTC
NeedsCompilation no
Author Richard Aubrey White [aut, cre]
Maintainer Richard Aubrey White <hello@rwhite.no></hello@rwhite.no>
Repository CRAN
R topics documented:
add_granularity_geo_to_data_set

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

 $\mbox{$\bf x$} \qquad \mbox{$\bf A$ data.table containing a column called "location_code".} \\ \mbox{$\bf location_reference}$

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)</pre>
```

add_iso3_to_data_set 3

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)</pre>
```

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)
```

nb 5

Arguments

Х

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
```

Description

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

Location hierarchies in Norway

Usage

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

Arguments

from wardsolo, wardbergen, wardtrondheim, wardstavanger, municip, baregion, county,

georegion, mtregion, notmainlandmunicip, notmainlandcounty, missingmunicip,

missingcounty

to wardoslo, wardbergen, wardtrondheim, wardstavanger, municip, baregion, county,

georegion, 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).

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, 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_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()
```

location_code_current The location code per today.

```
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).

se 9

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

```
## 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

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

set_config

 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.

Index

```
\ast datasets
    config, 3
    nb, 5
     se, 9
add_granularity_geo_to_data_set, 2
add_iso3_to_data_set, 3
config, 3
location_code_to_granularity_geo, 4
location_code_to_iso3, 4
nb, 5
\verb|nor_locations_hierarchy_from_to|, 5
nor\_locations\_names, 6
\verb"nor_locations_redistricting", 7
\verb"nor_population_by_age_cats", 8
se, 9
\mathtt{set\_config}, \textcolor{red}{10}
```