Package ‘csdata’

January 18, 2024

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

```r
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

```r
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

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.
location_code_to_iso3

Convert location_code to iso3

Description

Convert location_code to iso3

Usage

location_code_to_iso3(x)

Arguments

x

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_iso3(c("nation_nor", "county_nor03"))

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

location_reference

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 granularity_geo.

Examples

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

cdata::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(cdata::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 = cdata::config$border_nor
)
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, municip, wardoslo, wardbergen, wardstavanger, wardtrondheim, baregion, lab.

Source

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

Examples

```r
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

```r
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, notmainlandcounty, notmainlandmunicip, missingcounty

Examples

```r
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

```r
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).
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)
```

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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