Package ‘cancensus’

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Description Integrated, convenient, and uniform access to Canadian Census data and geography retrieved using the ‘CensusMapper’ API. This package produces analysis-ready tidy data frames and spatial data in multiple formats, as well as convenience functions for working with Census variables, variable hierarchies, and region selection. API keys are freely available with free registration at <https://censusmapper.ca/api>. Census data and boundary geometries are reproduced and distributed on an “as is” basis with the permission of Statistics Canada (Statistics Canada 2001; 2006; 2011; 2016; 2021).
License MIT + file LICENSE
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add_unique_names_to_region_list

Convenience function for creating unique names from region list

Description

Names of municipalities are not always unique, especially at the CSD level. This function takes as input a subset of a regions list as generated from ‘list_census_regions()’ and de-duplicates names as needed by adding the municipal status in parenthesis. If this does not de-duplicate the name then the geographic identifier will be further added in parenthesis behind that.

Usage

add_unique_names_to_region_list(region_list)

Arguments

region_list a subset of a regions list as gotten from ‘list_census_regions()’

Value

The same list of regions with an extra column ‘Name‘ with de-duplicated names.

Examples

## Not run:
# This will return a warning that no match was found, but will suggest similar named regions.
library(dplyr)
list_census_regions("CA21") %>%
  filter(level=="CSD", CMA_UID=="59933") %>%
  add_unique_names_to_region_list()

## End(Not run)

as_census_region_list

Convert a (suitably filtered) data frame from list_census_regions to a list suitable for passing to get_census.

Description

Convert a (suitably filtered) data frame from list_census_regions to a list suitable for passing to get_census.

Usage

as_census_region_list(tbl)
child_census_vectors

Arguments

- `tbl`: A data frame, suitably filtered, as returned by `list_census_regions`.

Examples

```r
## Not run:
library(dplyr, warn.conflicts = FALSE)

# Query the CensusMapper API for the total occupied dwellings
# of 20 random Census Subdivisions, in Census 2016.
regions <- list_census_regions("CA16") %>%
  filter(level == "CSD") %>%
  sample_n(20) %>%
  as_census_region_list()

occupied <- get_census("CA16", regions = regions,
  vectors = c("v_CA16_408"),
  level = "Regions")

## End(Not run)
```

child_census_vectors

List all child variables from vector hierarchies given either a list of Census variables returned by `list_census_vectors`, `search_census_vectors`, `find_census_vectors`, or a direct string reference to the vector code.

Description

List all child variables from vector hierarchies given either a list of Census variables returned by `list_census_vectors`, `search_census_vectors`, `find_census_vectors`, or a direct string reference to the vector code.

Usage

```r
child_census_vectors(
  vector_list,
  leaves_only = FALSE,
  max_level = NA,
  keep_parent = FALSE
)
```

Arguments

- `vector_list`: the list of vectors to be used, either a character vector or a filtered tibble as returned from `list_census_vectors`.
- `leaves_only`: boolean flag to indicate if only final leaf vectors should be returned, i.e. terminal vectors that themselves do not have children.
max_level  optional, maximum depth to look for child vectors. Default is NA and will return all child census vectors.
keep_parent  optional, also return parent vector in list of results. Default is set to FALSE.

Examples

# Query parent vectors directly using vector identifier
child_census_vectors("v_CA16_2510")

## Not run:

# Example using multiple vectors coerced into a list
child_census_vectors(c("v_CA16_2510", "v_CA16_2511", "v_CA16_2512"))

# or, equivalently
selected_vectors <- c("v_CA16_2510", "v_CA16_2511", "v_CA16_2512")
child_census_vectors(selected_vectors)

# Example using dplyr and piped arguments
library(dplyr, warn.conflicts = FALSE)

list_census_vectors("CA16") %>%
  filter(vector == "v_CA16_2510") %>%
  child_census_vectors(TRUE)

# this will return the equivalent of c("v_CA16_2510", child_census_vectors("v_CA16_2510"))
list_census_vectors("CA16") %>%
  filter(vector == "v_CA16_2510") %>%
  child_census_vectors(TRUE, keep_parent = TRUE)

## End(Not run)
Description

A dataset City of Vancouver skytrain station locations

Author(s)

City of Vancouver Open Data

References

https://opendata.vancouver.ca/explore/dataset/rapid-transit-stations/information/

dataset_attribution

Get attribution for datasets

Description

Get attribution for datasets

Usage

dataset_attribution(datasets)

Arguments

datasets    Vector of dataset identifiers

Value

Returns a string to be used as attribution for the given datasets.

Examples

# Attribution string for the 2006 and 2016 census datasets
dataset_attribution(c('CA06','CA16'))
explore_census_regions

Interactively browse Census variables and regions on Censusmapper.ca in a new browser window

Description
Finding the right Census variables or regions can be complicated. `explore_census_vectors(dataset)` and `explore_census_regions(dataset)` will open a new browser page or tab to an interactive Census variable and region exploration and selection tool on the Censusmapper.ca website. Interactive tools available for the CA16, CA11, CA06, and CA01 Census datasets and geographies.

Usage
```r
explore_census_regions(dataset = "CA16")
```

Arguments
```r
dataset

The dataset to query for available vectors, e.g. 'CA16'. Interactive tools available for the CA16, CA11, CA06, and CA01 Census datasets and geographies.
```

Examples
```r
## Not run:
explore_census_vectors(dataset = "CA16")

explore_census_regions(dataset = "CA11")

## End(Not run)
```

desc

explore_census_vectors

Interactively browse Census variables and regions on Censusmapper.ca in a new browser window

Description
Finding the right Census variables or regions can be complicated. `explore_census_vectors(dataset)` and `explore_census_regions(dataset)` will open a new browser page or tab to an interactive Census variable and region exploration and selection tool on the Censusmapper.ca website. Interactive tools available for the CA16, CA11, CA06, and CA01 Census datasets and geographies.

Usage
```r
explore_census_vectors(dataset = "CA16")
```
find_census_vectors

Arguments

dataset The dataset to query for available vectors, e.g. 'CA16'. Interactive tools available for the CA16, CA11, CA06, and CA01 Census datasets and geographies.

Examples

## Not run:

explore_census_vectors(dataset = "CA16")

explore_census_regions(dataset = "CA11")

## End(Not run)

find_census_vectors Query the CensusMapper API for vectors using exact, semantic, or keyword search

Description

Query the available list of Census vectors based on their label and return details including vector code. Default search behaviour expects an exact match, but keyword or semantic searches can be used instead by setting query_type='keyword' or query_type='semantic' instead. Keyword search is useful when looking to explore Census vectors based on broad themes like "income" or "language". Keyword search separates the query into unigrams and returns Census vectors with matching words, ranked by incidence of matches. Semantic search is designed for more precise searches while allowing room for error for spelling or phrasing, as well as for finding closely related vector matches. Semantic search separates the query into n-grams and relies on string distance measurement using a generalized Levenshtein distance approach.

Some census vectors return population counts segmented by Female and Male populations, in addition to a total aggregate. By default, query matches will return matches for the Total aggregation, but can optionally return only the Female or Male aggregations by adding type = 'female' or type = 'male' as a parameter.

Usage

find_census_vectors(query, dataset, type = "all", query_type = "exact", ...)

Arguments

query The term or phrase to search for e.g. 'Oji-cree'. Search queries are case insensitive.

dataset The dataset to query for available vectors, e.g. 'CA16'. To see a list of available datasets: list_census_datasets()
get_census

Access to Canadian census data through the CensusMapper API

Description

This function allows convenient access to Canadian census data and boundary files through the CensusMapper API. An API key is required to retrieve data.

Usage

get_census(
  dataset, 
  regions, 
  level = NA, 
  vectors = c(), 
  type, 
  query_type 
)

Other arguments passed to internal functions.

Examples

find_census_vectors('Oji-cree', dataset = 'CA16', type = 'total', query_type = 'exact')

find_census_vectors('commuting duration', dataset = 'CA11', type = 'female', query_type = 'keyword')

find_census_vectors('after tax income', dataset = 'CA16', type = 'total', query_type = 'semantic')

## Not run:
# This incorrect spelling will return a warning that no match was found, 
# but will suggest trying semantic or keyword search.
find_census_vectors('Ojibwey', dataset = 'CA16', type = 'total')

# This will find near matches as well 
find_census_vectors('Ojibwey', dataset = 'CA16', type = 'total', query_type = "semantic")

find_census_vectors('commute duration', dataset = 'CA16', type = 'female', query_type = 'keyword')

find_census_vectors('commute duration', dataset = 'CA11', type = 'all', query_type = 'keyword')

find_census_vectors('ukrainian origin', dataset = 'CA16', type = 'total', query_type = 'keyword')

## End(Not run)
get_census

```r
geo_format = NA,
resolution = "simplified",
labels = "detailed",
use_cache = TRUE,
quiet = FALSE,
api_key = Sys.getenv("CM_API_KEY")
)
```

**Arguments**

- `dataset` A CensusMapper dataset identifier.
- `regions` A named list of census regions to retrieve. Names must be valid census aggregation levels.
- `level` The census aggregation level to retrieve, defaults to "Regions". One of "Regions", "PR", "CMA", "CD", "CSD", "CT", "DA", "EA" (for 1996), or "DB" (for 2001-2016).
- `vectors` An R vector containing the CensusMapper variable names of the census variables to download. If no vectors are specified only geographic data will get downloaded.
- `geo_format` By default is set to NA and appends no geographic information. To include geographic information with census data, specify one of either "sf" to return an sf object (requires the sf package) or "sp" to return a SpatialPolygonsDataFrame-class object (requires the rgdal package). If user requests geo-spatial data and neither package is available, a context menu will prompt to install the sf package.
- `resolution` Resolution of the geographic data. cancensus will download simplified geometries by default. For lower level geometries like DB or DA this will be very close to the high resolution data. Simplification generally increases as the geographic aggregation level increases. If high resolution geometries are required then this option can be set to 'high'. By default this setting is set to 'simplified'.
- `labels` Set to "detailed" by default, but truncated Census variable names can be selected by setting labels = "short". Use label_vectors(...) to return variable label information in detail.
- `use_cache` If set to TRUE (the default) data will be read from the local cache if available.
- `quiet` When TRUE, suppress messages and warnings.
- `api_key` An API key for the CensusMapper API. Defaults to options() and then the CM_API_KEY environment variable.

**Details**

For help selecting regions and vectors, see list_census_regions and list_census_vectors, or check out the interactive selection tool at [https://censusmapper.ca/api](https://censusmapper.ca/api) by calling explore_census_vectors()

**Source**

Census data and boundary geographies are reproduced and distributed on an "as is" basis with the permission of Statistics Canada (Statistics Canada 1996; 2001; 2006; 2011; 2016).
get_intersecting_geometries

Get identifiers for census regions intersecting a geometry

Description

This function returns a list of regions that intersect a given geometry input. This list of regions can be used directly to query census when one is interested in census data for a particular geographic region that does not coincide with defined census geometries. The returned value can be used as the regions parameter in get_census to get corresponding census geographies and variables that cover the give geometry. Input spatial objects can be any sf or sfc class objects such as POINT, MULTIPOLYGON or POLYGON.

This function comes with CensusMapper API limits

Usage

get_intersecting_geometries(
  dataset,
  level,
  geometry,
  simplified = FALSE,
  use_cache = TRUE,
  quiet = FALSE,
  api_key = Sys.getenv("CM_API_KEY")
)
Arguments

- **dataset**: A CensusMapper dataset identifier.
- **level**: The census aggregation level to retrieve. One of "Regions", "PR", "CMA", "CD", "CSD", "CT", "DA", "EA" (for 1996 census), or "DB" (for 2001-2016 censuses).
- **geometry**: A valid sf or sfc class object. As long as the geometry is valid, any projection is accepted. Objects will be reprojected as server-side intersections use lat/lon projection.
- **simplified**: If TRUE will return a region list compatible with `get_census`, otherwise will return a character vector of matching region ids.
- **use_cache**: If set to TRUE (the default) data will be read from the local cache if available.
- **quiet**: When TRUE, suppress messages and warnings.
- **api_key**: An API key for the CensusMapper API. Defaults to `options()` and then the CM_API_KEY environment variable.

Source

Census data and boundary geographies are reproduced and distributed on an "as is" basis with the permission of Statistics Canada (Statistics Canada 1996; 2001; 2006; 2011; 2016).

Examples

```r
## Not run:
# Example using a POINT-class object from a pair of lat/lon coordinates
point_geo <- sf::st_sfc(sf::st_point(c(-123.25149, 49.27026)), crs=4326)
regions <- get_intersecting_geometries(dataset = 'CA16', level = 'CT', geometry = point_geo)
census_data <- get_census(dataset='CA16', regions=regions,
                         vectors=c("v_CA16_408","v_CA16_409","v_CA16_410"),
                         level='CT')

# Example using a POLYGON-class object from a bounding box with four coordinates
poly_geo <- sf::st_as_sfc(sf::st_bbox(c(ymin = 49.25, ymax = 49.30,
                                       xmin = -123.25, xmax = -123.30)), crs = 4326)
regions <- get_intersecting_geometries(dataset = 'CA16', level = 'CT', geometry = poly_geo)
census_data <- get_census(dataset='CA16', regions=regions,
                         vectors=c("v_CA16_408","v_CA16_409","v_CA16_410"),
                         level='CT')

## End(Not run)
```

label_vectors

Return Census variable names and labels as a tidy data frame

Description

Return Census variable names and labels as a tidy data frame
Usage

label_vectors(x)

Arguments

x A data frame, sp or sf object returned from get_census or similar.

Value

A data frame with a column variable containing the truncated variable name, and a column label describing it.

Examples

## Not run:
# Query census data with truncated labels:
label_data <- get_census(dataset="Var CA16", regions=list(CMA="59933"),
   vectors=c("v_CA16_408","v_CA16_409","v_CA16_410"),
   level="CSD", geo_format = "sf", labels="short")

# Get details for truncated vectors:
label_vectors(label_data)

## End(Not run)

list_cancensus_cache

List cached files

Description

Lists all cached data and metadata if available

Usage

list_cancensus_cache()

Value

tibble with metadata on cached data

Examples

# list add the cached census data
list_cancensus_cache()
**list_census_datasets**  
Query the CensusMapper API for available datasets.

**Description**
Query the CensusMapper API for available datasets.

**Usage**
list_census_datasets(use_cache = TRUE, quiet = FALSE)

**Arguments**
- **use_cache**  
  If set to TRUE (the default), data will be read from a temporary local cache for the duration of the R session, if available. If set to FALSE, query the API for the data, and refresh the temporary cache with the result.
- **quiet**  
  When TRUE, suppress messages and warnings.

**Value**
Returns a data frame with a column `dataset` containing the code for the dataset, a column `description` describing it, a `geo_dataset` column identifying the geography dataset the data is based on, an `attribution` column with an attribution string, a `reference` column with a reference identifier, and a `reference_url` column with a link to reference materials.

**Examples**

```r
# List available datasets in CensusMapper
list_census_datasets()
```

**list_census_regions**  
Query the CensusMapper API for available regions in a given dataset.

**Description**
Query the CensusMapper API for available regions in a given dataset.

**Usage**
list_census_regions(dataset, use_cache = TRUE, quiet = FALSE)
list_census_vectors

Arguments

dataset The dataset to query for available regions, e.g. "CA16".
use_cache If set to TRUE (the default), data will be read from a local cache that is main-
tained for the duration of the R session, if available. If set to FALSE, query the
API for the data, and refresh the local cache with the result.
quiet When TRUE, suppress messages and warnings.

Value

Returns a data frame with the following columns:

region The region identifier.
name The name of that region.
level The census aggregation level of that region.
pop The population of that region.
municipal_status Additional identifiers to distinguish the municipal status of census subdivi-
sions.
CMA_UID The identifier for the Census Metropolitan Area the region is in (if any).
CD_UID The identifier for the Census District the region is in (if any).
PR_UID The identifier for the Province the region is in (if unique).

Examples

list_census_regions('CA16')

Description

Query the CensusMapper API for available vectors for a given dataset.

Usage

list_census_vectors(dataset, use_cache = TRUE, quiet = TRUE)

Arguments

dataset The dataset to query for available vectors, e.g. "CA16".
use_cache If set to TRUE (the default), data will be read from a local cache that is main-
tained for the duration of the R session, if available. If set to FALSE, query the
API for the data, and refresh the local cache with the result.
quiet When FALSE, shows messages and warnings. Set to TRUE by default.
list_recalled_cached_data

Description

Checks the local cached database for recalled data and lists all recalled cached entries.

Usage

list_recalled_cached_data(
  cached_data = list_cancensus_cache(),
  warn_only_once = FALSE
)

Arguments

cached_data List of locally cached data to check for recall, default is ‘list_cancensus_cache()’ in which case it will get checked against all locally cached data
warn_only_once Will only warn on first run during each session, ‘FALSE’ by default

Value

tibble with rows describing locally cached recalled data

Examples

## Not run:
list_recalled_cached_data()

## End(Not run)
parent_census_vectors List all parent variables from vector hierarchies given either a list of Census variables returned by list_census_vectors, search_census_vectors, find_census_vectors, or a direct string reference to the vector code.

Description

List all parent variables from vector hierarchies given either a list of Census variables returned by list_census_vectors, search_census_vectors, find_census_vectors, or a direct string reference to the vector code.

Usage

parent_census_vectors(vector_list)

Arguments

- vector_list: The list of vectors to be used, either a character vector or a filtered tibble as returned from list_census_vectors.

Examples

# Query parent vectors directly using vector identifier
parent_census_vectors("v_CA16_2519")
## Not run:
# Example using multiple vectors coerced into a list
parent_census_vectors(c("v_CA16_2519","v_CA16_2520","v_CA16_2521"))

# or, equivalently
selected_vectors <- c("v_CA16_2519","v_CA16_2520","v_CA16_2521")
parent_census_vectors(selected_vectors)

# Example using dplyr and piped arguments
library(dplyr, warn.conflicts = FALSE)

list_census_vectors("CA16") %>%
  filter(vector == "v_CA16_2519") %>%
  parent_census_vectors()

## End(Not run)
remove_from_cancensus_cache

Remove cached files

Description
Remove cached data for paths given

Usage
remove_from_cancensus_cache(paths)

Arguments
paths  list of paths to remove, as returned by the path column in ‘list_cancensus_cache’

Value
freed-up disk space

Examples
## Not run:
# remove the first cached dataset
cache_data <- list_cancensus_cache()

remove_from_cancensus_cache(cache_data$path[1])
## End(Not run)

remove_recalled_cached_data

Remove recalled data from local cache

Description
Checks the local cached database for recalled data and removes cached data that has been recalled

Usage
remove_recalled_cached_data()

Value
Storage size of removed locally cached data that got freed up in number of bytes.
search_census_regions

Examples

## Not run:
remove_recalled_cached_data()

## End(Not run)

search_census_regions  Query the CensusMapper API for regions with names matching a searchterm.

Description

Runs a query against the CensusMapper API to retrieve region data with names matching specific queries. Users can optionally specify the target geography level (e.g. `level = 'CMA'`, `level = 'CSD'`, etc.). Alternatively, calling `explore_census_vectors()` will launch the interactive region selection tool on the CensusMapper site in a new web page or tab.

Usage

```
search_census_regions(searchterm, dataset, level = NA, ...)
```

Arguments

- **searchterm**: The term to search for e.g. "Victoria". Search terms are case insensitive. If unable to find a given search term, this function will suggest the correct spelling to use when possible.
- **dataset**: The dataset to query for available regions, e.g. "CA16".
- **level**: One of `NA`, 'C', 'PR', 'CMA', 'CD', or 'CSD'. If specified, only return variables of specified 'level'.
- `...`: Further arguments passed on to `list_census_regions`.

Value

A census region list of the same format as `list_census_regions()` containing the matches.

Examples

## Not run:
# This will return a warning that no match was found, but will suggest similar named regions.
search_census_regions('Victoria', 'CA16')

# This will limit region results to only include CMA level regions
search_census_regions('Victoria', 'CA16', level = "CMA")

## End(Not run)
search_census_vectors  Query the CensusMapper API for vectors with descriptions matching a search term or phrase (deprecated)

Description
Query the CensusMapper API for vectors with descriptions matching a search term or phrase (deprecated)

Usage
search_census_vectors(searchterm, dataset, type = NA, ...)

Arguments
- searchterm: The term or phrase to search for e.g. "Ojibway". Search terms are case insensitive. If unable to find a given string, this function will suggest similarly named objects.
- dataset: The dataset to query for available vectors, e.g. "CA16".
- type: One of NA, 'Total', 'Male' or 'Female'. If specified, only return variables of specified 'type'.
- ...: Further arguments passed on to list_census_vectors.

Examples
search_census_vectors('Ojibway', 'CA16')
## Not run:
# This will return a warning that no match was found, but will suggest similar terms.
search_census_vectors('Ojibwe', 'CA16', 'Total')
## End(Not run)

set_cancensus_api_key  Set Censusmapper API key

Description
Cancensus requires a free Censusmapper API key to retrieve data. This function helps set the key for either the duration of the session (default) or permanently for use across sessions.

Usage
set_cancensus_api_key(key, overwrite = FALSE, install = FALSE)
set_cancensus_cache_path

Arguments

- **key**: a Censusmapper API key. For more information on keys see the API key section.
- **overwrite**: Option to overwrite any existing Censusmapper keys already stored locally.
- **install**: Option to install permanently for use across sessions.

Examples

```r
# Not run:
set_cancensus_api_key("YOUR_CM_API_KEY")
# This will set the key permanently until overwritten again
set_cancensus_api_key("YOUR_CM_API_KEY", install = TRUE)
# End(Not run)
```

---

set_cancensus_cache_path

*Set persistent cancensus cache location*

Description

Cancensus provides session caching for retrieved data to increase speeds and reduce API usage. This function will create a persistent cache across sessions.

Usage

```r
set_cancensus_cache_path(cache_path, overwrite = FALSE, install = FALSE)
```

Arguments

- **cache_path**: a local directory to use for saving cached data
- **overwrite**: Option to overwrite any existing cache path already stored locally.
- **install**: Option to install permanently for use across sessions.

Examples

```r
# Not run:
set_cancensus_cache_path("~/cancensus_cache")
# This will set the cache path permanently until overwritten again
set_cancensus_cache_path("~/cancensus_cache", install = TRUE)
# End(Not run)
```
show_cancensus_api_key

View saved Censusmapper API key

Description
View saved API key

Usage
show_cancensus_api_key()

Examples
show_cancensus_api_key()

show_cancensus_cache_path

View saved cache directory path

Description
View saved cache path

Usage
show_cancensus_cache_path()

Examples
show_cancensus_cache_path()
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