Package ‘onmaRg’

May 22, 2023

Type Package

Title Import Public Health Ontario's Ontario Marginalization Index

Version 0.2.1

Description The Ontario Marginalization Index is a socioeconomic model that is built on Statistics Canada census data.  
The model consists of four dimensions: Residential Instability, Material Deprivation, Dependency and Ethnic Concentration.  
Each of these dimensions are imported for a variety of geographic levels (DA, CD, etc.) for both the 2011 and 2016 administrations of the census (2021 pending).  
These data sets contribute to community analysis of equity with respect to Ontario's Anti-Racism Act.  

License GPL-3

Encoding UTF-8

RoxygenNote 7.2.1

Depends dplyr, httr, readxl, sf, stringr, utils

Suggests knitr, rmarkdown

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

Date/Publication 2023-05-22 14:10:02 UTC

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Load OnMarg data

Description
This function loads Public Health Ontario’s Ontario Marginalization Index data into a dataframe which includes geographic variables (e.g. DA labels, CSD labels) and associated values for the four OnMarg domains of Instability, Material Deprivation, Dependency and Ethnic Concentration.

Usage
om_data(year, level)

Arguments
year  Integer year of data to load
level  The level of precision to load, this can be "DAUID", "CTUID", "CSDUID", "CCSUID", "CDUID", "CMAUID", "PHUID", "LHINUID", or "LHIN_SRUID"

Details
If the data file is unable to be downloaded, an error message will be produced.

Value
A dataframe containing the Marginalization Index for every geographic identifier

Examples
DA_2016_data <- om_data(2016, "DAUID")

om_geo  
Load OnMarg spatial data

Description
This function combines Public Health Ontario’s Ontario Marginalization Index data with Statistics Canada’s shape files to create an sf_object. The sf_object can be used for mapping with packages such as ggplot, and for spatial analysis.

Usage
om_geo(year, level, format)
Arguments

- **year**: Integer year of data to load
- **level**: The level of precision to load, this can be "DAUID", "CTUID", "CSDUID", "CCSUID", "CDUID", "CMAUID", "PHUID", "LHINUID", or "LHIN_SRUID"
- **format**: The format for the geographic object, this can be "sf" or "sp"

Details

If a year or level is used that does not exist or is not implemented, an error message will be produced. If the geometry file is unable to be downloaded, an error message will be produced.

Value

A sf or sp object containing the Marginalization Index and geographic boundaries for every geographic identifier

Examples

```r
## Not run:
DA_2016_geo <- om_geo(2016, "DAUID", "sf")
## End(Not run)
```

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**om_quint**

*This function converts an arbitrary vector of values into corresponding quintile scores.*

Description

NA values are ignored and left NA

Usage

`om_quint(x)`

Arguments

- **x**: Vector of values to recalculate quintiles for

Details

It can be used to recalculate the quintile scores for subsets of the OnMarg dataset.

Value

Vector of quintile scores for each element in the input vector
Examples

## Not run:
```r
city_data$DEPRIVATION_Q_DA16 <- om_quint(city_data$DEPRIVATION_DA16)
```

## End(Not run)
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