

# Package ‘onmaRg’

December 23, 2022

**Type** Package

**Title** Import Public Health Ontario's Ontario Marginalization Index

**Version** 0.2.0

**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.  
The Ontario Marginalization Index data is retrieved from the Public Health Ontario website: <<https://www.publichealthontario.ca/en/data-and-analysis/health-equity/ontario-marginalization-index>>.  
The shapefile data is retrieved from the Statistics Canada website: <<https://www12.statcan.gc.ca/census-recensement/2011/geo/bound-limit/bound-limit-eng.cfm>>.

**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

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om_data	<i>Load OnMarg data</i>
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**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")
```

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om_geo	<i>Load OnMarg spatial data</i>
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**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**

```
DA_2016_geo <- om_geo(2016, "DAUID", "sf")
```

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om Quint	<i>This function converts an arbitrary vector of values into corresponding quintile scores.</i>
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**Description**

NA values are ignored and left NA

**Usage**

```
om Quint(x)
```

**Arguments**

x	Vector of values to recalculate quintiles for
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**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:  
city_data$DEPRIVATION_Q_DA16 <- om Quint(city_data$DEPRIVATION_DA16)  
  
## End(Not run)
```

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