

# Package ‘CANSIM2R’

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**Type** Package

**Title** Directly Extracts Complete CANSIM Data Tables

**Version** 0.12

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**Depends** R (>= 3.2.2)

**Imports** reshape2, Hmisc, utils

**Description** Extract CANSIM (Statistics Canada) tables and transform them into readily usable data in panel (wide) format. It can also extract more than one table at a time and produce the resulting merge by time period and geographical region.

**License** GPL-3

**Encoding** UTF-8

**NeedsCompilation** no

**Repository** CRAN

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`getCANSIM`*getCANSIM*

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**Description**

Extracts a complete CANSIM (Statistics Canada) data table and converts it into a readily usable panel (wide) format.

**Usage**

```
getCANSIM(cansimTableNumber, showLabels = TRUE, raw = FALSE)
```

**Arguments**

`cansimTableNumber` - the table number we wish to retrieve from CANSIM.

`showLabels` - show the Statistics Canada labels after finishing extracting and converting the table, TRUE by default.

`raw` - download the CANSIM table as-is, skipping all processing, FALSE by default.

**Details**

Geographic variables are renamed `i`, time variables are renamed `t`, and all the other variables are renamed with a generic `V1`, `V2`, ..., `Vn`. The generic variables keep the full Statistics Canada description by using a label.

**Value**

data frame containing CANSIM table.

**Examples**

```
getCANSIM(4010004, showLabels = FALSE)
getCANSIM(4010004, raw = TRUE)
getCANSIM(4010040)
getCANSIM(1530114)
```

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<code>mergeCANSIM</code>	<i>mergeCANSIM</i>
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**Description**

Extracts more than one CANSIM table and produces a merged table (by ID and period).

**Usage**

```
mergeCANSIM(cansimTableVector, keepUnmatched = FALSE, showLabels = TRUE)
```

**Arguments**

`cansimTableVector` - vector containing all the CANSIM tables to extract and merge.

`keepUnmatched` - if true, keeps all values, even if no match was found. FALSE by default.

`showLabels` - show the Statistics Canada labels after finishing extracting and converting the table, TRUE by default.

**Value**

data frame containing CANSIM tables.

**Examples**

```
mergeCANSIM( c(2020501, 3260021) )
```

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