

# Package ‘TEMPO’

November 7, 2018

**Type** Package  
**Title** Tools for NSI Romania Open data  
**Version** 0.0.0.1  
**Maintainer** Marian Necula <marian.necula00@gmail.com>  
**Description**  
Tools to download data from Tempo Online Database and build different visualisations of the data  
**License** GPL3 + EUPL  
**Depends** curl,  
          jsonlite,  
          utils,  
          R (>= 3.3.0)  
**Encoding** UTF-8  
**LazyData** true  
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**RoxygenNote** 6.1.1

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TEMPO-package	<i>R Tools for NSI Romania Open data</i>
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## Description

Brief summary of the TEMPO package

## Details

Package: TEMPO  
 Type: Package  
 Version: See sessionInfo() or DESCRIPTION file  
 Date: 2018  
 License: GPL3 + EUPL LICENSE  
 LazyLoad: yes

R Tools for NSI Romania Open data

### Author(s)

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### References

See citation("TEMPO") <https://github.com/RProjectRomania/TEMPO.git>

### Examples

```
library(TEMPO)
```

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tempotime2date	<i>Date Conversion from TEMPO Time Format</i>
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### Description

A function to convert time values from a table downloaded from TEMPO Online database to objects of class `Date` representing calendar dates.

### Usage

```
tempotime2date(matrix, matrix_code)
```

### Arguments

<code>matrix</code>	- the R dataframe object with time information in TEMPO time format, representing the table/matrix downloaded from TEMPO Online database.
<code>matrix_code</code>	- string containing the code for the table/matrix in TEMPO Online database. See more on how to obtain a matrix code from <a href="#">tempo_codes</a>

### Details

This function converts a column of class character representing time periods (month, quarter) to a column of class `Date` representing calendar dates.

### Value

Returns a R dataframe object.

## Examples

```
tempotime2date(AMG157G, "AMG157G")
```

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tempo_bulk	<i>Download one or multiple tables from TEMPO Online database</i>
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## Description

tempo\_bulk TEMPO Online database bulk download method. The function checks the directory supplied as parameter or the working directory if has named files as TEMPO Online matrices. If those files are more recent than the last date upon which the TEMPO matrices have been updated, the function skips them at download.

## Usage

```
tempo_bulk(codes = list(), language = NULL, directory = NULL)
```

## Arguments

- |           |   |
|-----------|---|
| codes     | - a list containing one or more strings containing the code for the table/matrix in TEMPO Online database. See more on how to obtain a matrix code from <a href="#">tempo_toc</a> |
| language  | - a string to set the language for the downloaded tables. Options: "ro" - for Romanian and "en" - for English. If no parameter is given, implicitly downloads tables in Romanian  |
| directory | - a valid path where the files will be downloaded. The implicit value is NULL, i.e. current working directory.  |

## Examples

```
## Not run:
# Download a single table and write on disk
tempo_bulk("SOM101D", "ro")

# Downloads the whole TEMPO db and write each table on disk.
# Can take a long time.
# tempo_bulk(LOC_TEMPO$code, "ro")

## End(Not run)
```

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tempo_clean	<i>Clean a table downloaded from TEMPO Online database</i>
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### Description

tempo\_clean cleans a table downloaded from TEMPO Online database

### Usage

```
tempo_clean(matrix, matrix_code)
```

### Arguments

matrix	- the R dataframe object to be cleaned, representing the table/matrix downloaded from TEMPO Online database
matrix_code	- string containing the code for the table/matrix in TEMPO Online database. See more on how to obtain a matrix code from <a href="#">tempo_codes</a>

### Details

This function removes redundant columns or redundant information from columns

### Value

Returns a R dataframe object.

### Examples

```
tempo_clean(SOM101D, "SOM101D")
```

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tempo_toc	<i>tempo_toc</i>
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### Description

Get TOC for Tempo Online function gets a parameter full\_description implicitly false if fulldescription == TRUE then starts collecting dates for last updates

### Usage

```
tempo_toc(full_description = FALSE)
```

### Arguments

full_description	- implicitly set as false if fulldescription == TRUE then starts collecting dates for last updates
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**Details**

This functions sends one or multiple GET requests and parses the content into a dataframe

**Value**

Returns a dataframe object.

**Examples**

```
tempo_toc(full_description = FALSE)
```

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