

Package ‘tzupdater’

November 12, 2023

Type Package

Title Time Zone Database Updater

Version 0.1.5

Author Sebastien Thonnard

Maintainer Sebastien Thonnard <sebastien.thonnard@icloud.com>

Description Download and compile any version of the
IANA Time Zone Database (also known as Olson database)
and make it current in your R session.
Beware: on Windows 'Cygwin' is required!

License MIT + file LICENSE

Encoding UTF-8

RoxygenNote 7.2.3

Imports utils

NeedsCompilation no

Repository CRAN

Date/Publication 2023-11-12 09:30:02 UTC

R topics documented:

get_active_tz_db	2
get_last_published_tz	2
install_last_tz	3
install_tz	4

Index	5
--------------	----------

`get_active_tz_db` *get_active_tz_db*

Description

Get the active tz database version

Usage

```
get_active_tz_db()
```

Value

Active tz database for the current session.

Examples

```
# Get the active tz database in your session:  
get_active_tz_db()
```

`get_last_published_tz` *get_last_published_tz*

Description

Get the name of the latest version available at IANA website.

Usage

```
get_last_published_tz()
```

Value

Latest IANA tz db version name or Unknown if not found.

Examples

```
# Will return for instance "2019c"  
get_last_published_tz()
```

install_last_tz *install_last_tz*

Description

Install latest tz database if required, and make it active.

Will stop in case it is not possible to know what the last version is.

If it happens browse IANA website at <https://www.iana.org/time-zones> and install last version with `install_tz(version)`.

?install_tz for details.

Usage

```
install_last_tz(  
  zic_path = NA,  
  target_folder = paste0(tempdir(), "/tzupdater/data/IANA_release"),  
  verbose = TRUE  
)
```

Arguments

<code>zic_path</code>	Optional for Windows: path to the zic compiler (if not in C:\Cygwin\usr\sbin).
<code>target_folder</code>	Optional target folder. Default will be <code>tzupdater/data/IANA_release</code> as subdirectory of your temp dir.
<code>verbose</code>	Print information to the console TRUE/FALSE. Default TRUE.

Value

None.

Examples

```
# Get the latest version available and compile.  
# If your tz database is already the latest, do nothing.  
install_last_tz()  
  
# Same, but more verbose.  
install_last_tz(verbose = TRUE)  
  
# On Windows: install latest tz database, with Cygwin installed in c:\Cygwin.  
install_last_tz(zic_path="C:\\Cygwin\\usr\\sbin")
```

install_tz	<i>install_tz</i>
------------	-------------------

Description

Download and compile a tz database from the IANA website and make it active as an option. In case the tz db exists already, do not download again.

Usage

```
install_tz(
  tgt_version = "2019c",
  zic_path = NA,
  target_folder = paste0(tempdir(), "/tzupdater/data/IANA_release"),
  show_zic_log = FALSE,
  err_stop = TRUE,
  activate_tz = TRUE,
  verbose = TRUE,
  fail_if_zic_missing = FALSE
)
```

Arguments

<code>tgt_version</code>	Version to download and compile (eg 2019c, 2019a).
<code>zic_path</code>	Optional for Windows: path to the zic compiler (if not in C:\Cygwin\usr\sbin)
<code>target_folder</code>	Optional target folder. Default will be tzupdater/data/IANA_release as in tempdir()
<code>show_zic_log</code>	Optional: show logs from the zic compiler (TRUE/FALSE). Default FALSE.
<code>err_stop</code>	Stop on error (TRUE/FALSE). Default TRUE. Recommended to TRUE.
<code>activate_tz</code>	Activate the tz database once installed. Default TRUE.
<code>verbose</code>	Print additional information to the console TRUE/FALSE. Default TRUE.
<code>fail_if_zic_missing</code>	Stop execution if zic is missing (default FALSE, will only display a message)

Examples

```
# Install tz database 2019c
install_tz("2019c")
```

Index

`get_active_tz_db`, 2
`get_last_published_tz`, 2

`install_last_tz`, 3
`install_tz`, 4