Package 'inmetwrangler'

September 28, 2017

Title Functions to Wrangle Data Files from INMET Weather Stations

Version 0.0.1

Description Functions to wrangle data files from INMET's automatic weather stations.

Depends R (>= 3.4.1)

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Encoding UTF-8

LazyData true

Imports magrittr, stringr, dplyr, purrr, readr, tibble

RoxygenNote 6.0.1

Suggests knitr, rmarkdown, tidyverse

VignetteBuilder knitr

NeedsCompilation no

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R topics documented:

`import_txt_files_inmet` *Import raw data files of automatic stations*

Description

Import raw data files of automatic stations

Usage

```
import_txt_files_inmet(files, verbose = TRUE, only.problems = FALSE,
  full.names = FALSE)
```

Arguments

files	character vector with path to files
verbose	logical scalar. If TRUE, print messages and warnings.
only.problems	logical value. Set TRUE to return a tibble with problems information on file and FALSE to return meteorological data.
full.names	a logical value. If TRUE, the directory path is prepended to the file names to give a relative file path. If FALSE, the file names (rather than paths) are returned.

Value

A data frame with one row for each problem and four columns:

row,col	Row and column of problem
expected	What readr expected to find
actual	What it actually got
file	file name or the path to file (if full.names is TRUE)

Examples

```
library(dplyr); library(purrr); library(stringr); library(readr)
# missing columns problem example
myfile <- system.file("extdata", "A838.txt", package = "inmetwrangler")
myfile
 A838_problems <- import_txt_files_inmet(files = myfile,
                                         verbose = TRUE,
                                         only.problems = TRUE)
 A838_data <- import_txt_files_inmet(files = myfile,
                                     verbose = TRUE,
                                     only.problems = FALSE)
#looking at rows
for(irow in A838_problems$row) read_lines(myfile, skip = irow-2, n_max = irow+2)
# View(slice(A838_data, A838_problems$row)) #  columns filled with NAs
```

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inmetrwrangler *inmetrwrangler: A package to wrangle data from INMET's stations.*

Description

The inmetrwrangler package offers functions to wrangle (raw) data files from INMET's automatic weather stations. The data were requested through <seoma.rs@inmet.gov.br>

inmetrwrangler functions

The main function is

- import_txt_files_inmet

`read_txt_file_inmet` *Read ASCII data file of INMET's automatic weather stations*

Description

Read ASCII data file of INMET's automatic weather stations

Usage

```
read_txt_file_inmet(.file, .verbose = TRUE, .only.problems = FALSE,
  .full.names = FALSE)
```

Arguments

`.file`	path to file
`.verbose`	logical value, when it is set to TRUE show warnings and messages
`.only.problems`	logical value. Set TRUE to report problems, FALSE to return meteorological data
`.full.names`	a logical value. If TRUE, the directory path is prepended to the file names to give a relative file path. If FALSE, the file names (rather than paths) are returned.

Details

When `only.problems` is TRUE a data frame with one row for each problem found for every file. When the files do not have any problem the data frame is returned empty (0 rows).

Value

A data frame with one row for each problem and four columns:

`row,col`	Row and column of problem
`expected`	What readr expected to find
`actual`	What it actually got
`file`	file name or the path to file (if `.full.names` is TRUE)

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