Package: rvdat (via r-universe)

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Title Lightweight Access to 'VDAT' Shell Commands

Version 0.3.1

Description Provides lightweight, R-friendly syntax for 'VDAT' shell functions.

License AGPL (>= 3)

URL https://rvdat.obrien.page, https://github.com/mhpob/rvdat

BugReports https://github.com/mhpob/rvdat/issues

SystemRequirements VDAT command line tools (https://support.fishtracking.innovasea.com/s/downloads).

Imports cli, sys

Suggests jsonlite, knitr, rmarkdown, testthat (>= 3.0.0)

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

VignetteBuilder knitr

Config/testthat/edition 3

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`CI_utilities` *Miscellaneous functions for package checking, building, and CI*

Description

`skip_example_on_ci` and `skip_example_on_runiverse` check the environment for variables called "CI" and "MY_UNIVERSE", respectively, and return `TRUE` if it does not exist. Used to run examples if the package is being built locally and there's a chance that `vdat.exe` exists. If the package is being built on a continuous integration platform like GitHub Actions, the "CI" variable will be `TRUE` and `skip_example_on_ci` will return `FALSE`. If it is being built locally, "CI" will be "" and `skip_example_on_ci` will return `TRUE`. Similarly, if the package is being built on R-Universe, the "MY_UNIVERSE" variable will have your universe's name.

Usage

```
skip_example_on_ci()

skip_example_on_runiverse()
```

`vdat_call` *Interface directly with* `vdat.exe`.

Description

Low-level interface to `vdat.exe`, wherein arguments are passed directly to `vdat.exe`. Arguments should be character vectors, each element being one command.

Usage

```
vdat_call(what = "--help", print = TRUE, pass_error = FALSE, ...)
```

Arguments

`what`	arguments passed to `vdat.exe`. Defaults to `--help`.
`print`	logical. Defaults to TRUE. Print the output to console?
`pass_error`	logical. Defaults to FALSE. Capture and pass any error through to the user?
`...`	arguments passed to `sys::exec_internal`.

Examples

```
## Not run:

# Check the help documentation
vdat_call()

#
vdat_call("--help")

# Inspect a file; multiple arguments are passed in a character vector
vdat_call(c("inspect", "FILENAME"))

## End(Not run)
```

`vdat_here` *Write the location of* `vdat.exe` *to the environmental variables.*

Description

Write the location of `vdat.exe` to the environmental variables.

Usage

```
vdat_here(here = Sys.getenv("RVDAT_EXE"), wine = Sys.getenv("RVDAT_WINE_EXE"))
```

Arguments

`here`	location of `vdat.exe`, either a full path name or relative to the current working directory. Defaults to the value of the "VDAT_EXE" environment variable
`wine`	location of `wine.exe`, either a full path name or relative to the current working directory. Defaults to the value of the "VDAT_EXE" environment variable. Only used on Linux or Mac operating systems.

Examples

```
# Auto-find vdat:
vdat_here()

# Provide an explicit location:
vdat_here("c:/program files/innovasea/fathom connect/vdat.exe")
```

vdat_inspect — *Return general VDAT file metadata*

Description

Return general VDAT file metadata

Usage

```
vdat_inspect(vdata_file, ...)
```

Arguments

`vdata_file`	file path of VDAT file to inspect.
`...`	arguments passed to `vdat_call`.

vdat_template — *Return description fields ("template") of different VDAT data types and/or files*

Description

Return description fields ("template") of different VDAT data types and/or files

Usage

```
vdat_template(format = "csv.fathom", print = FALSE, ...)
```

Arguments

`format`	file format of the template. Currently only accepts "csv.fathom"; here for future compatibility.
`print`	logical. Defaults to FALS.E Print the output to console?
`...`	arguments passed to `vdat_call`.

vdat_to *Internal* `vdat convert` *caller*

Description

Internal `vdat convert` caller

Usage

```
vdat_to(
  output_format = c("csv", "json"),
  vdata_file,
  outdir = getwd(),
  time_corrected = FALSE,
  quiet = FALSE,
  folder = FALSE,
  filter = NULL
)
```

Arguments

`output_format`	What is the desired output format? One of "csv" or "json". Default is "csv".
`vdata_file`	path of VDAT file to convert to CSV.
`outdir`	output directory for the created CSV files. Defaults to the current working directory.
`time_corrected`	logical. Do you want to apply the default time correction?
`quiet`	logical, defaults to FALSE. Suppress messages?
`folder`	logical, defaults to FALSE. Convert VDAT to a folder of CSVs?
`filter`	character, defaults to NULL and is currently ignored with a warning. When implemented, filtering via vdat.exe will only be available for HR3 receivers.

vdat_to_csv *Convert VDAT file to CSV*

Description

Convert VDAT file to CSV

Usage

```
vdat_to_csv(
  vdata_file,
  outdir = getwd(),
  time_corrected = FALSE,
  quiet = FALSE,
  folder = FALSE,
  filter = NULL
)
```

Arguments

`vdata_file`	path of VDAT file to convert to CSV.
`outdir`	output directory for the created CSV files. Defaults to the current working directory.
`time_corrected`	logical. Do you want to apply the default time correction?
`quiet`	logical, defaults to FALSE. Suppress messages?
`folder`	logical, defaults to FALSE. Convert VDAT to a folder of CSVs?
`filter`	character, defaults to NULL and is currently ignored with a warning. When implemented, filtering via vdat.exe will only be available for HR3 receivers.

`vdat_to_folder` *Convert a VDAT file to a folder of CSVs by data type*

Description

A wrapper around `vdat_to_csv` that just changes `folder = FALSE` to `folder = TRUE`.

Usage

```
vdat_to_folder(...)
```

Arguments

`...`	arguments passed to `vdat_to`.

Examples

vdat_to_json — *Convert VDAT file to JSON*

Description

Convert VDAT file to JSON

Usage

```
vdat_to_json(
  vdata_file,
  outdir = getwd(),
  time_corrected = FALSE,
  quiet = FALSE,
  filter = NULL
)
```

Arguments

`vdata_file`	path of VDAT file to convert to JSON
`outdir`	output directory for the created JSON. Defaults to the current working directory.
`time_corrected`	logical. Do you want to apply the default time correction?
`quiet`	logical, defaults to FALSE. Suppress messages?
`filter`	character, defaults to NULL and is currently ignored with a warning. When implemented, filtering via vdat.exe will only be available for HR3 receivers.

vdat_version — *Report the version of VDAT identified in* `vdat_here`.

Description

Report the version of VDAT identified in `vdat_here`.

Usage

```
vdat_version(...)
```

Arguments

`...`	arguments passed to `vdat_call`.

Examples

```
vdat_version()
```

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